Supplementary 9

Table. The F4-statistics values in the form (Vikings_R1a, Vikings_N1a; Big Deer Island, Yoruba2)

H1	H2	X	O	D	Z	#snps
VK518.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,006959	13,565	270825
VK518.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,006531	13,08	270821
VK518.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,006759	12,317	264479
VK56.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,004697	12,019	466652
VK518.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00665	11,566	262861
VK50.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,004035	10,788	759274
VK29.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003823	10,617	718402
VK56.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,004111	10,551	466657
VK508.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003992	10,43	646615
VK550.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003778	10,258	653085
VK340.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,004329	10,17	360196
VK417.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,004094	10,086	544667
VK517.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,004165	10,073	496517
vik_KAL006.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003881	9,829	555237
VK56.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,004232	9,821	456657
VK56.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004514	9,781	452926
VK129.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003862	9,751	753125
VK527.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003799	9,719	507885
VK475.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003639	9,699	772628
VK151.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003772	9,572	528303
VK518.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,005021	9,484	269592
VK50.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003502	9,454	759271
VK529.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003666	9,425	641300
VK455.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00373	9,419	611904
VK554.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003883	9,402	480155
VK449.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003535	9,362	596941
vik_84005.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003637	9,3	529866
VK490.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003666	9,234	483401
VK342.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003404	9,226	589869
VK340.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003899	9,22	360195
VK29.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003334	9,207	718402
VK29.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003703	9,193	696413
VK508.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003496	9,141	646617
VK367.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003454	9,134	502994
VK481.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003295	9,059	596183
VK520.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003449	8,983	637144
VK495.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003503	8,981	533121
VK511.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003608	8,977	641193
VK50.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00378	8,947	735442
VK420.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003306	8,905	621742
VK417.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003628	8,903	544668
VK129.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003786	8,901	729582
VK417.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004091	8,836	528751
VK129.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003379	8,797	753119
VK479.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003248	8,795	651938
VK550.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00326	8,784	653084
VK384.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003374	8,763	546658
VK17.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003685	8,753	309937
VK527.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003749	8,745	492355
VK517.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003581	8,742	496516
vik_KAL006.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003388	8,696	555231
VK527.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003371	8,686	507884
VK320.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003213	8,682	570465
VK204.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003457	8,677	496928
VK483.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003173	8,655	649703
VK517.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003954	8,652	481325
VK551.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00306	8,636	703754
VK518.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,005974	8,612	172800
VK539.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003373	8,608	626130
VK456.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003263	8,594	571098
VK550.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003709	8,587	633283
VK518.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,005587	8,574	272427
VK475.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003611	8,571	748210
VK475.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00315	8,556	772629
VK354.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003503	8,549	372741
VK528.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003208	8,543	610377
VK323.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00319	8,538	573884
VK518.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,004468	8,504	272333
VK300.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003983	8,493	297511
VK386.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003269	8,472	559573
VK524.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003211	8,462	605372
VK518.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,004261	8,441	272486
VK533.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00318	8,436	774482
VK508.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003708	8,425	626910
VK284.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003334	8,403	509583
VK159.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,004456	8,381	201510
VK50.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003465	8,351	743516
VK338.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003712	8,339	329240
VK504.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00352	8,331	435051
VK455.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003288	8,323	611905
vik_gtm021.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003744	8,322	293509
VK492.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003169	8,313	505769
vik_84005.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00379	8,3	514222
VK165.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00338	8,29	520106
VK312.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,004074	8,274	228684
vik_84005.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003196	8,265	529866
VK51.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003481	8,253	387415
VK29.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003303	8,221	705256
VK151.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003663	8,196	512657
VK20.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003622	8,179	291594
VK308.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003115	8,173	600715
VK449.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003053	8,171	596944
VK493.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003052	8,165	659821
VK387.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003128	8,165	527843
VK291.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003295	8,162	515748
VK443.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002986	8,159	683557
VK366.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003419	8,154	394005
VK512.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003084	8,153	656018
VK151.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003254	8,146	528296
VK518.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,004684	8,135	230121
VK510.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003158	8,134	610308
VK486.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002992	8,113	651718
VK203.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003375	8,101	527801
VK340.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003867	8,095	351558
VK342.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003452	8,093	572244
VK340.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004025	8,091	349299
VK160.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003088	8,076	615624
VK455.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003589	8,061	593082
VK290.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002946	8,036	577855
VK343.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003101	8,035	559586
VK170.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003049	8,021	547071
VK477.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003084	8,007	534543
VK511.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003525	7,997	621749
VK478.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003059	7,996	617460
VK529.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003632	7,975	621497
VK550.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003202	7,954	637740
vik_KAL006.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003558	7,932	538749
VK547.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003044	7,921	773038
VK108.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003094	7,909	413301
VK475.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003134	7,895	753823
VK554.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003278	7,885	480157
VK102.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002843	7,882	740353
VK395.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003084	7,874	593674
VK348.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003022	7,855	493250
VK490.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003123	7,843	483397
VK129.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003369	7,839	735722
VK58.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002985	7,839	762379
VK495.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003026	7,837	533119
VK367.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002949	7,835	502998
VK342.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002885	7,828	589867
VK258.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002908	7,827	498788
VK511.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003069	7,813	641192
VK256.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002933	7,806	582962
VK529.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003109	7,8	641299
VK545.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002808	7,778	649144
VK417.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003479	7,775	533172
VK204.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003459	7,775	481889
VK505.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00294	7,772	518672
VK225.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003648	7,756	287432
VK316.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002902	7,736	587828
vik_84001.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002804	7,736	761921
VK327.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00279	7,729	535045
VK487.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002976	7,719	666781
VK519.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,004587	7,716	151050
VK174.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002999	7,712	473850
VK151.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003413	7,704	516279
VK420.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003261	7,702	603214
VK497.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002956	7,698	598168
VK488.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002991	7,685	468449
VK533.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003248	7,682	749877
vik_KAL006.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003221	7,661	543596
VK518.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,004281	7,659	266068
VK509.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003032	7,651	574225
VK520.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002903	7,649	637141
VK539.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003467	7,642	607081
VK64.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003097	7,629	368578

H1	H2	X	O	D	Z	#snps
VK354.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00362	7,627	361676
VK220.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002931	7,62	660681
VK406.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002831	7,618	567112
VK555.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002989	7,61	521086
VK17.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003696	7,61	300832
VK481.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002787	7,593	596180
VK449.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003347	7,585	578988
VK134.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003332	7,576	347877
VK479.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002761	7,571	651936
VK291.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003504	7,564	500255
VK548.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002795	7,559	752183
VK384.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002918	7,558	546656
VK17.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003173	7,546	309938
VK516.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002957	7,525	581163
VK463.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003854	7,522	188357
VK479.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003253	7,501	631607
VK456.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002814	7,499	571095
VK402.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002736	7,498	605612
vik_stg020.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00456	7,494	139930
VK508.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00321	7,492	631260
VK98.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002687	7,492	699962
VK372.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002977	7,482	579856
VK552.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002804	7,474	588667
VK338.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003274	7,471	329239
VK312.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004233	7,466	221979
VK166.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002781	7,463	744301
VK420.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002785	7,457	621738
VK284.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003305	7,455	494059
VK482.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002994	7,453	517664
VK405.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003005	7,444	497997
VK323.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003279	7,441	556674
VK257.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002949	7,433	494725
VK70.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002832	7,431	774713
VK364.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002874	7,421	608383
VK354.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003045	7,419	372737
VK404.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002863	7,418	592874
VK21.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,004173	7,415	131566
VK554.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003491	7,413	466031
VK159.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003952	7,412	201509
VK320.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003207	7,407	552996
VK528.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002751	7,405	610374
VK498.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002841	7,397	553337
VK529.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003206	7,396	625414
VK323.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002749	7,393	573883
VK122.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002864	7,383	568988
VK506.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002909	7,382	549863
vik_urm160.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002922	7,377	588503
VK219.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00276	7,377	617739
VK527.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003204	7,373	495168
VK399.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002733	7,361	640481
VK154.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002696	7,354	704274
VK51.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003578	7,353	376612
VK528.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003181	7,352	591498
VK496.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002629	7,349	673856
VK483.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002686	7,349	649703
VK173.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002771	7,347	548920
vik_grt035.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002666	7,347	754900
VK344.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00277	7,345	492205
VK515.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003074	7,333	367541
VK204.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002921	7,331	496927
VK300.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003412	7,33	297511
VK401.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002811	7,33	559581
VK481.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003093	7,323	578262
VK156.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003076	7,314	419120
VK320.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00272	7,313	570461
VK400.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002993	7,299	509253
VK507.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002927	7,298	443071
VK495.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003245	7,291	517374
VK384.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,0033	7,291	529936
VK358.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002759	7,287	487437
VK452.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003893	7,283	165962
VK312.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003594	7,281	228683
VK371.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003244	7,279	370740
VK352.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002733	7,258	528227
VK373.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002915	7,256	519220
VK539.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00288	7,253	626126
VK263.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002883	7,249	579656
VK485.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002897	7,243	402222
VK221.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002767	7,234	670650
VK388.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002925	7,234	498489
VK473.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002673	7,232	594799
VK128.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002811	7,221	582690
VK367.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00334	7,216	487693
VK504.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003059	7,211	435053
VK483.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003091	7,203	630163
VK490.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003393	7,202	468870
VK386.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003227	7,197	542492
VK387.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002991	7,195	512245
VK300.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003688	7,186	288551

H1	H2	X	O	D	Z	#snps
VK511.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003095	7,183	626008
VK434.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003749	7,177	177610
VK533.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002691	7,175	774481
VK414.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002795	7,173	567152
VK551.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002573	7,166	703750
VK230.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002682	7,163	702899
VK455.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003116	7,161	596862
VK524.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002758	7,16	605371
VK517.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003367	7,152	484236
VK170.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003055	7,145	530298
VK308.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003011	7,144	582343
vik_grt036.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00279	7,143	692544
VK429.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002532	7,141	724606
VK42.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002715	7,125	781596
VK308.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,0027	7,121	600712
VK551.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003002	7,117	682086
VK284.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002816	7,104	509584
VK510.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002657	7,096	610306
VK354.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003229	7,094	363471
VK19.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002917	7,091	379853
VK386.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002741	7,088	559576
VK165.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002881	7,087	520108
VK204.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003127	7,066	484739
VK160.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003034	7,066	597016
VK419.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002837	7,064	564756
VK387.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002676	7,064	527842
VK489.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002543	7,062	631539
VK393.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002729	7,06	537892
vik_stg021.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002665	7,055	753869
VK415.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002715	7,05	560584
VK343.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002693	7,045	559584
VK147.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002735	7,034	445357
VK338.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003604	7,027	319293
VK553.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002679	7,021	565141
VK493.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002958	7,02	639801
VK20.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003145	7,02	291596
VK403.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002643	7,019	606255
VK510.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00321	7,011	592088
VK520.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003022	7,01	621654
VK533.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002832	7,004	755507
VK175.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002799	7,003	446287
VK348.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002669	7,002	493248
vik_gtm021.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003109	7,002	293512
VK397.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002706	7	580082
VK290.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003063	6,996	560198
VK554.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003254	6,994	469123
VK366.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003004	6,99	394009
VK458.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,004115	6,99	127141
VK528.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002868	6,987	595116
VK495.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00294	6,982	520583
VK51.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002903	6,978	387418
VK448.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002581	6,975	682785
VK514.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002733	6,967	522898
VK520.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003185	6,966	617413
VK398.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002571	6,963	561951
VK477.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00306	6,946	518208
VK300.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003652	6,945	289820
VK139.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003295	6,943	251754
VK205.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002647	6,927	539152
VK291.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002785	6,923	515749
VK325.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003072	6,922	346825
VK449.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002882	6,92	582820
VK452.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003661	6,916	165962
VK490.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00309	6,915	471795
VK445.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002797	6,912	581840
VK338.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003393	6,911	321125
VK443.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002928	6,902	662223
VK474.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002713	6,901	621172
VK363.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002658	6,894	564694
VK486.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002981	6,879	632023
VK95.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002621	6,874	572657
VK519.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,004056	6,873	151052
VK134.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003042	6,869	347875
VK400.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003151	6,868	494411
VK172.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002637	6,864	537664
VK160.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002623	6,864	615619
VK524.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003009	6,859	586663
VK370.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002816	6,855	559733
VK518.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004075	6,852	266620
VK20.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003491	6,852	283373

H1	H2	X	O	D	Z	#snps
VK34.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002668	6,852	542301
VK512.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002619	6,848	656014
VK290.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002523	6,847	577855
VK343.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002975	6,842	543094
vik_84005.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002993	6,836	519348
VK388.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003214	6,834	483663
VK492.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002632	6,833	505768
VK491.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002425	6,824	598153
VK281.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00254	6,823	672512
VK33.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002888	6,816	413234
VK547.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002944	6,807	748544
VK481.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002749	6,805	581935
VK178.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002727	6,805	441171
VK279.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00249	6,805	704451
VK484.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002647	6,797	549483
VK165.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00314	6,784	504835
VK432.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003541	6,781	194613
VK157.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002668	6,776	458776
vik_84001.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002794	6,774	737796
vik_gtm021.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003426	6,769	284898
VK512.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002939	6,767	636044
VK342.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002863	6,76	576329
VK392.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002795	6,759	502242
VK443.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002482	6,757	683556
VK256.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002884	6,756	565682
VK493.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00258	6,752	659822
VK170.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002631	6,752	547072
VK227.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003054	6,75	264613
VK340.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003666	6,745	229240
VK367.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002874	6,744	490581
VK389.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002533	6,738	534892
VK478.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,0026	6,728	617455
VK544.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002521	6,724	604910
VK547.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002564	6,696	773037
VK371.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003311	6,694	359611
VK498.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002912	6,692	536977
VK203.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00318	6,685	511668
VK518.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,003491	6,684	268465
VK543.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002745	6,679	489521
VK456.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002962	6,677	553631
VK303.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002578	6,677	705184
VK366.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003295	6,676	382168
VK102.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002366	6,674	740350
VK385.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00255	6,671	614329
VK394.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002641	6,667	416469
VK58.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00249	6,657	762375
VK509.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00298	6,655	557212
VK134.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003347	6,654	337450
VK15.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002743	6,645	475981
VK439.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003946	6,644	113700
VK289.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002766	6,642	422513
VK486.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00247	6,641	651719
VK492.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002821	6,639	494283
VK516.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002979	6,634	563456
VK348.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003015	6,633	478272
VK477.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002599	6,633	534539
VK108.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002628	6,632	413301
VK92.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003393	6,627	185137
VK316.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002457	6,624	587830
VK468.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002427	6,621	735916
VK480.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00269	6,62	459415
VK159.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004142	6,615	195490
VK530.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00261	6,607	460629
VK463.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003394	6,602	188358
VK324.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002464	6,591	580787
VK323.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002739	6,587	560484
VK364.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002837	6,586	589582
VK20.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003177	6,579	285642
VK396.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002708	6,577	541586
VK256.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002497	6,57	582961
VK386.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002799	6,567	546305
VK337.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002417	6,551	676742
VK154.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002728	6,551	682358
VK111.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002519	6,538	485546
VK102.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00279	6,533	717369
VK545.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002355	6,532	649145
VK526.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00257	6,532	667432
VK320.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002731	6,526	556359
vik_stg020.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003961	6,522	139930
VK48.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003273	6,521	205718
VK203.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002659	6,52	527803
VK327.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002349	6,514	535046
VK488.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002892	6,51	455056
VK509.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002552	6,51	574219

H1	H2	X	O	D	Z	#snps
VK159.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003919	6,5	196879
VK395.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002561	6,5	593676
VK420.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002764	6,495	607638
VK284.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002887	6,495	497073
VK220.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002841	6,495	640370
VK505.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002964	6,493	503458
VK225.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002992	6,493	287431
VK487.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002847	6,491	646284
VK263.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002822	6,486	562246
VK174.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002531	6,482	473852
VK225.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003477	6,481	278995
VK372.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002944	6,48	561943
VK483.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002676	6,478	634318
VK504.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00324	6,477	422341
VK505.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002422	6,475	518674
VK99.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002641	6,475	436672
VK518.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,006473	6,464	74660
VK174.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002931	6,463	460125
VK497.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002472	6,461	598164
VK368.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002475	6,46	543962
VK165.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002905	6,454	508173
vik_urm160.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002499	6,453	588502
VK58.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00277	6,448	738471
VK372.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00256	6,447	579849
VK371.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002824	6,443	370743
VK134.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003064	6,443	339951
VK212.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00308	6,428	222360
VK395.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002928	6,426	575821
VK260.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002598	6,424	463681
VK452.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003851	6,417	162376
vik_stg026.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002567	6,416	368164
vik_gtm021.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003196	6,416	288505
VK329.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002435	6,413	545283
vik_urm160.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002897	6,412	570602
VK482.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002951	6,411	502187
VK463.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003741	6,402	183008
VK141.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002555	6,397	539779
VK487.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002487	6,394	666783
VK344.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002849	6,394	477794
VK64.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003084	6,384	357624
VK555.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003017	6,378	505962
VK446.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002486	6,376	618883
VK524.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002675	6,372	590074
VK225.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003259	6,371	280456
VK510.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002681	6,366	595855
VK516.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002491	6,364	581159
VK220.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002409	6,363	660677
VK551.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002521	6,36	686849
VK167.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002485	6,359	465782
VK156.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002655	6,354	419116
VK217.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003869	6,353	101900
VK458.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004267	6,352	123632
VK262.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002536	6,352	549106
VK156.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003053	6,348	406609
VK545.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002627	6,34	629252
VK316.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002747	6,34	569923
VK128.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00276	6,339	564810
VK422.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002476	6,333	532962
VK201.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002452	6,324	557266
VK539.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002789	6,319	612061
VK388.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002534	6,316	498490
VK21.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003563	6,315	131562
VK166.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002651	6,313	721069
VK384.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00276	6,308	533254
VK42.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002652	6,304	756708
VK19.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002985	6,298	368901
VK478.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002649	6,295	603059
VK33.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003074	6,295	401112
VK525.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002571	6,294	504296
VK492.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002859	6,293	490913
vik_stg020.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004477	6,292	135814
VK306.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002524	6,292	506271
VK482.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002543	6,291	517662
VK294.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002451	6,289	514668
VK53.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002461	6,288	452489
VK406.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002692	6,285	550297
VK479.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002635	6,278	635893
VK555.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002443	6,273	521088
VK280.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003021	6,273	217528

H1	H2	X	O	D	Z	#snps
VK257.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00279	6,271	480109
VK434.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003209	6,266	177607
VK540.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002639	6,265	453541
VK477.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002625	6,264	521616
VK344.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002387	6,258	492203
vik_84001.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002297	6,258	761920
VK221.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002704	6,257	649734
VK202.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00236	6,251	522553
VK328.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002411	6,249	540386
VK488.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002434	6,248	468450
VK506.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002788	6,245	533457
VK433.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002291	6,244	685446
VK406.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002345	6,243	567115
VK515.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002682	6,242	367536
VK327.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002697	6,237	519183
VK548.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002303	6,233	752181
VK478.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002917	6,23	598810
VK258.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002754	6,226	484211
VK402.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002606	6,226	587578
VK173.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002743	6,222	532770
VK373.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002535	6,217	519219
VK122.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002725	6,208	551675
VK308.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002633	6,207	586159
VK404.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002377	6,207	592873
VK405.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002967	6,207	483354
VK364.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002334	6,195	608381
VK70.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002743	6,192	750165
VK373.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002906	6,19	503427
VK175.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002815	6,186	433056
vik_grt035.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00264	6,177	731086
VK203.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002828	6,176	514494
VK258.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002329	6,171	498787
VK456.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002569	6,167	556852
VK35.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002581	6,166	496507
VK519.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004178	6,163	146544
VK548.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002708	6,163	728529
VK254.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002783	6,161	318760
VK506.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002374	6,155	549858
VK48.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003401	6,155	199811
VK493.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002531	6,153	644358
VK139.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002923	6,152	251753
VK399.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002689	6,148	621104
VK64.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002437	6,142	368572
VK17.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002958	6,137	302917
VK34.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002741	6,135	526323
VK415.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002653	6,131	543993
vik_grt036.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002329	6,128	692542
VK460.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003148	6,125	193104
VK173.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002291	6,124	548924
VK352.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002709	6,122	512668
VK518.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003878	6,119	199070
VK405.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002478	6,111	498004
VK485.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002438	6,108	402222
vik_stg021.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002662	6,106	730164
VK70.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002333	6,105	774711
VK315.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002641	6,102	334568
VK402.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002209	6,097	605609
VK519.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,004033	6,094	147454
VK370.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002709	6,093	542638
VK139.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003389	6,089	244313
VK432.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003099	6,081	194614
VK366.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002888	6,08	385299
VK30.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002959	6,079	237656
VK98.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002201	6,079	699963
VK552.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002648	6,077	571089
VK463.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00348	6,077	184142
vik_grt035.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002192	6,076	754901
VK515.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003084	6,07	356676
VK40.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002256	6,069	653635
vik_grt036.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002699	6,068	670816
VK60.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002694	6,067	297605
VK327.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00243	6,063	522701
VK263.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002406	6,062	579656
VK108.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002778	6,062	401067
VK552.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00231	6,059	588669
VK414.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002377	6,059	567147
VK497.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002668	6,058	580342
VK335.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002368	6,056	516016
VK466.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003856	6,055	95772
VK498.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002349	6,048	553338
VK31.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002809	6,04	253103
VK151.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003045	6,038	337828
VK358.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002317	6,037	487432
VK494.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003729	6,034	116794

H1	H2	X	O	D	Z	#snps
VK504.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002849	6,027	424686
VK400.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002409	6,024	509255
VK207.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,0026	6,023	379081
VK547.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,0025	6,019	754103
VK512.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002544	6,014	640487
VK553.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002691	6,012	548144
VK219.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002289	6,012	617737
VK363.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002726	6,011	547479
VK156.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002829	6,011	409187
VK485.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002853	6,01	389947
VK128.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002321	6,005	582690
VK553.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002261	5,997	565142
VK154.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002193	5,997	704271
VK352.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002255	5,996	528227
VK51.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002804	5,995	382579
VK281.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00251	5,987	651564
VK387.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002485	5,985	516504
VK274.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00235	5,984	634338
VK334.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002414	5,982	328036
VK291.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002677	5,98	502879
VK496.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002157	5,979	673846
VK230.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002551	5,973	680979
VK69.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002343	5,971	421288
VK448.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002562	5,969	661722
VK486.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002478	5,968	636371
VK166.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002258	5,964	744300
VK160.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002515	5,964	601682
VK507.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002747	5,963	430175
VK98.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002552	5,957	678735
VK21.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003808	5,951	128900
VK312.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003258	5,95	223051
VK110.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002255	5,948	572827
VK56.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003099	5,947	300574
VK429.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002419	5,945	702192
VK399.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002234	5,945	640483
VK487.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002455	5,944	650759
VK101.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002269	5,944	593793
VK219.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002535	5,941	598817
VK358.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,0027	5,939	473238
VK19.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002341	5,938	379852
VK395.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002507	5,936	579640
VK526.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002601	5,934	646772
VK325.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00267	5,933	346827
VK257.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00231	5,933	494724
VK295.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002595	5,928	334383
VK484.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002594	5,924	533203
VK505.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002558	5,918	506829
VK123.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002301	5,917	451819
VK221.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002287	5,916	670652
VK56.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,002464	5,916	464861
VK509.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002558	5,912	560833
VK363.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002247	5,91	564697
vik_stg021.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002196	5,909	753867
VK401.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002297	5,904	559583
VK95.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002525	5,898	556097
VK475.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002839	5,893	489337
VK443.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002456	5,885	666939
VK489.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002405	5,884	612479
VK445.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,0023	5,884	581841
VK282.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002672	5,881	273092
VK230.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002182	5,881	702899
VK371.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002875	5,873	361756
VK419.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002674	5,871	548007
VK50.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002724	5,867	486484
VK122.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002318	5,865	568983
VK58.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002411	5,86	744551
VK473.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,0026	5,859	577138
VK471.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003431	5,858	157503
VK264.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002374	5,856	491795
VK33.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002489	5,856	413234
VK404.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002565	5,855	575250
VK348.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002538	5,851	480885
VK419.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002347	5,85	564753
VK549.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002183	5,85	638942
VK325.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003065	5,85	336897

H1	H2	X	O	D	Z	#snps
VK393.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002301	5,846	537890
VK18.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002445	5,845	383900
VK42.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002217	5,845	781595
VK507.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00235	5,836	443070
VK349.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00229	5,834	548446
VK445.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002597	5,823	564399
VK205.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002195	5,822	539152
VK355.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002249	5,818	531098
VK432.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003481	5,818	188993
VK373.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002567	5,816	506615
VK290.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002452	5,811	563322
VK172.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002699	5,81	521995
VK336.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002304	5,806	558081
VK461.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002999	5,802	184870
VK489.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002081	5,797	631531
VK458.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003739	5,797	124322
VK438.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00311	5,791	153127
VK518.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,005187	5,788	86802
VK385.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002481	5,788	595588
VK170.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002557	5,788	534016
VK316.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002374	5,785	573236
VK56.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002981	5,782	469460
VK508.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002868	5,771	411169
VK372.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00253	5,771	566022
VK63.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003359	5,77	134402
VK21.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003849	5,769	127931
VK175.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002297	5,768	446287
VK279.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002384	5,762	682595
VK516.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002466	5,761	566599
VK129.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003733	5,76	209069
VK473.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002168	5,76	594795
VK430.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00317	5,757	134481
VK35.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002784	5,754	481517
VK15.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002715	5,753	461683
VK414.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002584	5,75	550369
VK92.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002941	5,748	185133
VK227.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00266	5,748	264614
VK458.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003382	5,745	127143
VK273.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002187	5,743	526611
VK157.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002214	5,741	458773
VK398.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002573	5,741	545252
VK508.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003871	5,74	179420
VK202.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002419	5,739	507259
VK362.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00243	5,739	371664
VK272.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003241	5,736	141432
VK496.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002532	5,732	653320
VK289.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002837	5,727	409789
VK429.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002059	5,725	724605
VK403.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002132	5,722	606253
VK396.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002663	5,719	525691
VK393.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002614	5,718	521626
VK398.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002138	5,716	561947
VK34.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002251	5,71	542299
VK415.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002191	5,707	560579
VK514.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002275	5,705	522896
VK474.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002597	5,704	602354
VK278.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002347	5,698	372544
VK400.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002569	5,696	497414
VK108.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002531	5,693	404966
VK288.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002338	5,684	417785
VK468.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002496	5,684	713002
VK138.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002556	5,682	239084
VK506.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002418	5,679	536782
VK333.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002006	5,676	540393
VK448.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002113	5,671	682785
VK298.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002719	5,669	249177
vik_84001.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002265	5,667	743466
VK548.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002303	5,66	733830
VK19.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002512	5,659	373024
VK256.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002396	5,656	569441
VK337.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002339	5,652	655764
VK157.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002579	5,652	445658
VK364.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002375	5,651	593433
VK289.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002378	5,645	422513
VK403.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002458	5,634	588192
VK370.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002326	5,632	559732
VK514.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00256	5,631	507538
VK389.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002402	5,628	519243
VK545.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002265	5,624	633240

H1	H2	X	O	D	Z	#snps
VK457.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003386	5,62	132508
VK201.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002482	5,616	540173
VK232.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003257	5,616	201524
VK217.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004141	5,611	98914
VK139.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002975	5,61	246008
VK303.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002491	5,609	683226
VK95.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002126	5,607	572652
VK279.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002001	5,605	704451
VK389.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002097	5,605	534885
VK275.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002437	5,595	277708
VK530.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002251	5,594	460627
VK401.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002463	5,594	542841
VK392.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002257	5,591	502239
VK174.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002491	5,591	463079
VK396.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002278	5,58	541587
VK480.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002243	5,578	459415
VK168.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002164	5,569	539706
VK542.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001972	5,567	556165
VK223.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002568	5,565	246654
VK177.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002154	5,562	502425
VK482.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002486	5,561	505178
VK258.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002378	5,554	487277
VK474.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002192	5,547	621168
VK406.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002272	5,545	553833
VK281.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002021	5,541	672506
VK102.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002286	5,537	726721
VK473.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002304	5,535	581217
VK70.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002311	5,529	756754
VK361.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002217	5,525	553735
VK484.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002143	5,518	549484
VK176.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001949	5,511	705290
VK518.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,003187	5,51	264133
VK515.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002565	5,507	359064
VK497.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002376	5,506	584222
VK166.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002249	5,504	727788
VK212.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002661	5,504	222362
VK287.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002495	5,502	299841
VK220.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002385	5,5	645106
VK122.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002389	5,493	555774
VK257.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00234	5,479	483254
VK357.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002042	5,478	585709
VK128.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002266	5,469	568329
VK178.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002194	5,468	441169
VK446.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002451	5,465	599874
VK343.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002406	5,464	546550
VK259.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002102	5,462	545641
VK262.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002484	5,457	532901
VK434.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003166	5,455	173722
VK129.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002644	5,453	478846
VK205.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002498	5,442	522690
VK167.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002483	5,436	452267
VK460.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002799	5,433	193105
VK404.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002286	5,433	579105
VK452.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003363	5,425	161341
VK397.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002144	5,422	580080
VK405.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002486	5,422	486368
VK498.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002285	5,412	540356
VK221.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002256	5,409	654184
VK172.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002117	5,405	537666
VK301.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002233	5,404	401013
VK329.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002402	5,404	529208
VK31.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002794	5,401	246080
VK23.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00258	5,4	211017
VK491.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001955	5,399	598151
VK555.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002427	5,398	509019
vik_stg020.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003673	5,397	136930
VK147.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002366	5,396	432499
VK143.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,0021	5,395	504510
VK141.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002427	5,394	523224
VK217.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003336	5,391	101899
VK397.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002412	5,387	562776
VK111.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00246	5,384	471414

H1	H2	X	O	D	Z	#snps
VK15.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002234	5,381	475987
VK543.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00252	5,38	474623
VK544.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002035	5,376	604911
VK127.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002189	5,376	381270
VK393.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002368	5,371	524934
VK526.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002164	5,365	667429
VK29.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002398	5,365	466142
VK154.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002173	5,364	687531
vik_urm160.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002362	5,362	575773
VK439.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003183	5,362	113699
VK232.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002696	5,36	207431
vik_84035.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002848	5,358	152074
VK448.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002154	5,35	666139
VK494.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003327	5,346	116795
VK64.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002457	5,34	360007
VK98.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002157	5,333	687635
VK394.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002084	5,332	416470
VK178.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002404	5,33	428464
VK303.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002082	5,327	705184
VK488.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002268	5,326	457811
VK344.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002244	5,326	481050
VK322.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002026	5,323	544063
VK388.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002411	5,322	487353
VK385.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001995	5,321	614328
VK543.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002235	5,32	489521
VK145.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002133	5,32	522046
VK201.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002059	5,315	557268
VK95.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002189	5,314	564942
VK56.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,004116	5,31	132117
VK254.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002635	5,309	309372
VK175.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002401	5,305	435455
VK489.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002058	5,304	616977
VK552.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002142	5,3	574949
VK530.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002527	5,298	446674
VK260.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002445	5,297	450112
VK399.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002146	5,295	625488
VK392.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002473	5,293	487143
VK468.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001939	5,293	735915
VK358.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002263	5,284	475809
VK123.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002376	5,282	438235
VK337.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001929	5,278	676737
VK42.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002167	5,278	762540
VK151.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003877	5,276	148233
VK263.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002291	5,275	566068
VK471.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002971	5,273	157504
VK260.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002116	5,273	463679
VK517.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,004127	5,265	136270
VK172.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003712	5,262	152586
VK442.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001974	5,258	544908
VK328.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002364	5,256	524427
VK155.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003121	5,252	121062
VK219.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002228	5,25	602796
VK63.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003527	5,246	130593
VK445.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002301	5,24	568119
VK48.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002655	5,233	205716
VK53.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002375	5,233	439919
VK334.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002164	5,231	328034
VK370.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002367	5,229	545976
VK296.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002353	5,218	296198
VK455.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003648	5,218	168210
VK324.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002304	5,218	563540
vik_grt035.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002133	5,212	736670
VK527.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003805	5,211	138864
VK309.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002674	5,209	199316
VK330.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00201	5,201	500163
VK262.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00203	5,2	549108
VK212.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002932	5,199	215974
VK480.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002475	5,196	445843
VK147.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002081	5,196	445352
VK346.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001899	5,193	563298
VK157.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002229	5,193	451619
VK540.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002514	5,193	439730

H1	H2	X	O	D	Z	#snps
VK173.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002145	5,19	537106
VK92.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002907	5,182	180926
VK141.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002076	5,179	539778
VK446.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002028	5,179	618881
vik_grt036.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00219	5,179	675267
VK439.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003459	5,176	111018
VK313.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002592	5,173	204343
VK167.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002026	5,173	465783
VK433.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002174	5,173	664629
VK33.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002399	5,17	405178
VK471.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003499	5,169	153145
VK40.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002221	5,168	633978
VK324.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001944	5,165	580789
VK166.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003373	5,159	208656
VK389.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002207	5,156	523321
VK111.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002001	5,153	485548
VK417.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002715	5,152	351138
VK287.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002681	5,151	290972
VK496.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00202	5,149	657863
VK99.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002103	5,147	436675
VK35.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002097	5,146	496500
VK514.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002266	5,138	512375
vik_84005.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002536	5,138	344316
VK530.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002295	5,137	449030
VK544.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002281	5,134	586550
VK363.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002207	5,132	550553
VK353.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002	5,131	562012
vik_stg026.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002056	5,13	368164
VK368.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002265	5,129	527366
VK264.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002408	5,128	477341
VK34.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002282	5,125	529619
VK297.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002175	5,12	380460
VK417.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003661	5,114	154177
VK254.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002279	5,114	318762
VK230.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002089	5,111	685748
VK529.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002577	5,109	405346
VK278.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002368	5,109	361492
VK396.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002304	5,102	528841
VK274.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002247	5,099	614708
VK526.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002194	5,097	651073
VK69.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002361	5,095	409391
VK461.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002645	5,094	184866
VK414.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002225	5,092	554885
VK460.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003117	5,09	187543
VK475.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003375	5,089	213319
vik_stg021.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002117	5,089	736620
VK289.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002382	5,087	411929
VK415.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00216	5,085	548622
VK279.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002001	5,085	687242
VK369.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001929	5,082	519465
VK224.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002673	5,082	152347
VK407.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002605	5,081	158220
VK329.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001935	5,079	545284
VK294.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001913	5,071	514666
VK507.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002282	5,063	432936
VK328.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001945	5,062	540385
VK224.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003135	5,057	148496
VK527.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002716	5,056	320683
VK202.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001847	5,054	522555
VK494.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003597	5,048	113446
VK402.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002101	5,047	591370
VK295.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002205	5,046	334385
VK306.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002043	5,043	506270
VK99.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00239	5,039	424548
VK520.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003464	5,038	175839
VK368.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001936	5,033	543954
VK462.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003765	5,031	63206
VK35.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002318	5,028	485271
VK30.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002417	5,027	237657
VK207.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002135	5,025	379084
VK454.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002691	5,022	170718
VK525.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002027	5,021	504293
VK29.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003251	5,019	206149

H1	H2	X	O	D	Z	#snps
VK397.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002208	5,019	566466
VK272.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003378	5,008	137291
VK287.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002217	5,005	299836
VK50.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003191	4,999	213275
VK428.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002916	4,998	125175
VK315.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002584	4,991	324450
VK394.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00228	4,985	404487
VK477.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003513	4,984	147530
VK65.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002284	4,982	256925
VK368.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002105	4,982	530525
VK484.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002141	4,981	536332
VK540.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,0021	4,976	453538
VK29.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002346	4,974	722687
VK426.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003129	4,969	87265
VK212.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002636	4,968	217199
VK429.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001975	4,967	707194
VK417.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00266	4,965	547975
VK422.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001942	4,962	532961
VK550.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002386	4,961	415816
VK433.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,0018	4,956	685443
VK207.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002453	4,954	367682
VK352.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002088	4,953	515758
VK298.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00277	4,952	241621
VK422.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002243	4,951	517257
VK425.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00315	4,946	87220
VK295.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002496	4,941	324486
VK101.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002137	4,94	575669
VK290.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003418	4,933	158007
VK325.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002445	4,93	339433
VK525.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002303	4,93	489016
VK457.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002864	4,926	132506
VK319.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002152	4,924	320660
VK543.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002199	4,924	477623
VK282.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002246	4,922	273093
VK362.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002465	4,915	360485
VK232.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002444	4,914	207432
VK261.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001872	4,914	511984
VK53.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001918	4,912	452488
vik_kal009.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002961	4,909	136922
VK419.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00215	4,908	552075
VK298.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002336	4,904	249177
VK315.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002168	4,903	334570
VK280.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002336	4,902	217528
VK385.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002063	4,9	599691
VK462.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003664	4,9	63207
VK260.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002147	4,899	453142
VK485.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002293	4,897	392487
VK269.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003938	4,893	55447
VK491.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002113	4,892	580280
VK477.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002486	4,891	339548
VK510.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002376	4,889	388071
VK544.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002057	4,889	589990
vik_stg026.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002244	4,889	357551
VK110.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002132	4,884	555673
VK317.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001848	4,872	545573
VK474.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002102	4,867	606472
VK517.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002563	4,866	313978
VK294.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002134	4,855	499211
VK337.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00199	4,853	660242
VK554.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002626	4,85	306616
VK227.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002692	4,847	256863
VK520.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002357	4,844	404133
VK438.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002546	4,844	153134
VK511.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003359	4,84	177742
VK306.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002272	4,838	490837
VK335.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002182	4,836	500820
VK303.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002051	4,835	687764
VK340.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003981	4,833	99987
VK15.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002188	4,827	465365
VK553.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002092	4,826	551880
VK491.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00198	4,818	584127
VK285.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002047	4,811	357149
VK71.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002709	4,81	137892
VK316.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,0035	4,81	160996
VK466.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003075	4,81	95768
VK264.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001915	4,805	491795

H1	H2	X	O	D	Z	#snps
VK392.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002121	4,804	490374
VK263.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00342	4,803	161077
VK549.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002086	4,802	619502
VK172.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00198	4,802	526025
VK384.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002492	4,798	345813
VK60.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002508	4,795	288933
VK409.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003047	4,794	118211
VK63.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00309	4,793	132139
VK30.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002762	4,793	230768
VK480.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002137	4,789	448861
VK282.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002488	4,784	265006
VK138.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00214	4,782	239082
VK265.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001797	4,782	530478
VK274.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001848	4,777	634334
VK487.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003155	4,77	184498
VK205.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002059	4,767	525953
VK288.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001955	4,763	417781
VK48.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002726	4,763	201437
VK335.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001844	4,759	516015
VK17.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00285	4,757	198374
VK427.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00329	4,749	81617
VK420.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002302	4,747	397939
VK281.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001945	4,746	655861
VK167.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002009	4,745	455608
VK273.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002085	4,742	511265
VK340.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003687	4,737	115328
VK468.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001953	4,73	718180
VK401.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00204	4,729	546459
VK355.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002099	4,728	515567
VK224.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002433	4,727	152345
VK315.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002309	4,723	326092
VK549.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001689	4,717	638943
VK478.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002262	4,717	393978
VK60.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002282	4,715	290488
VK533.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002245	4,71	490207
VK340.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,002085	4,706	358380
VK434.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002908	4,705	172660
VK408.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002744	4,703	121944
VK439.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003336	4,702	110385
VK349.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001797	4,693	548441
VK146.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001763	4,686	539426
VK275.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00206	4,683	277710
VK69.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001887	4,671	421287
VK101.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001782	4,669	593793
VK272.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002584	4,668	141433
VK87.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001663	4,667	700101
VK461.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002931	4,666	179459
VK278.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001927	4,661	372542
VK31.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002168	4,65	253096
VK262.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001964	4,648	536476
VK201.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001979	4,647	543441
VK554.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003591	4,647	134428
VK99.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002065	4,642	431292
VK60.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002075	4,64	297608
VK457.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003139	4,633	129641
VK280.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002531	4,627	212003
VK56.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,002218	4,627	401110
VK449.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002268	4,627	379651
VK50.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001733	4,626	756679
VK141.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001951	4,612	527149
VK525.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002078	4,61	491790
VK150.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001725	4,608	508055
VK455.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00238	4,608	386991
VK138.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002258	4,605	234844
VK431.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002532	4,603	174601
VK430.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002588	4,602	134481
VK449.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003361	4,602	165720
VK464.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003545	4,597	59768
VK29.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001675	4,592	716750
VK56.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001867	4,591	469299
VK370.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003308	4,586	153645
vik_stg020.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003803	4,586	90477

H1	H2	X	O	D	Z	#snps
VK50.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002295	4,585	763765
VK24.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002803	4,582	116747
VK394.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001997	4,581	407786
VK361.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002031	4,576	536786
VK350.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001734	4,572	608528
VK357.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001947	4,568	568438
VK227.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002349	4,567	258479
VK170.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002329	4,564	347744
VK442.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002	4,562	528735
VK430.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002911	4,562	131682
VK319.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002298	4,555	311106
VK340.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002555	4,554	362281
VK398.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001862	4,553	548980
VK63.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002584	4,549	134402
VK306.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002006	4,542	493850
VK288.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002169	4,541	405154
VK309.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002741	4,539	193347
VK40.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00167	4,535	653632
VK362.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001937	4,527	371667
VK309.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,0023	4,527	199318
VK232.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002551	4,516	202478
VK16.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002673	4,516	159176
VK446.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001919	4,514	604192
VK176.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001915	4,511	683721
VK355.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001732	4,51	531101
vik_KAL006.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003142	4,509	158828
VK127.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002027	4,504	372064
vik_kal009.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003156	4,499	132783
vik_KAL006.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002256	4,498	558668
VK18.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002158	4,498	372721
VK494.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003142	4,494	113929
VK178.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002044	4,491	431417
VK223.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002058	4,486	246654
VK111.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001934	4,481	475882
VK329.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001916	4,478	532826
VK519.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,002773	4,472	150260
VK84.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001702	4,472	518051
VK460.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002539	4,47	188547
VK471.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002942	4,47	154081
VK334.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002217	4,468	318555
VK168.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001709	4,456	539713
VK18.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00184	4,454	383898
VK533.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002803	4,44	213520
VK159.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00335	4,439	129067
VK110.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00171	4,438	572827
vik_stg026.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001975	4,433	360897
VK272.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002686	4,431	138309
vik_KAL006.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002274	4,43	359296
VK508.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00219	4,422	650387
VK202.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00184	4,42	510500
vik_kal009.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002596	4,409	136919
VK145.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002052	4,405	506775
VK509.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003072	4,404	159595
VK349.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001995	4,404	532313
VK168.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002006	4,404	523801
VK395.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003026	4,404	165093
VK254.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002187	4,4	311570
VK177.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001876	4,397	487759
VK273.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001683	4,395	526608
VK438.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002775	4,392	149006
VK155.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002966	4,386	117489
VK177.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001683	4,384	502423
VK259.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001924	4,384	529490
VK313.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002189	4,383	204340
VK65.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002022	4,382	256928
vik_urm035.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002647	4,382	173454
VK155.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002616	4,381	121066
VK225.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002825	4,379	182953
VK22.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002886	4,377	95439
VK334.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002054	4,374	320763
VK432.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002547	4,371	189769
VK403.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001897	4,367	592294
VK48.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003191	4,36	132557

H1	H2	X	O	D	Z	#snps
VK427.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002998	4,357	81614
VK288.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002017	4,353	407382
VK218.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001811	4,353	354840
VK546.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003454	4,352	63469
VK147.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001958	4,351	437547
VK540.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002102	4,348	442714
VK69.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001948	4,343	414166
VK56.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00174	4,343	469577
VK490.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003084	4,342	133402
VK433.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001762	4,34	669047
VK527.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00225	4,339	510822
VK430.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002863	4,338	130927
VK524.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002124	4,335	381698
VK322.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001624	4,335	544060
VK295.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002079	4,332	326127
VK286.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001858	4,325	418651
vik_urm035.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002302	4,325	178377
VK51.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002417	4,324	262348
VK280.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002389	4,323	211025
VK336.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001708	4,32	558077
VK92.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002572	4,32	179673
VK328.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001862	4,318	528871
VK326.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001696	4,314	566065
VK324.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00181	4,31	567763
VK123.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001671	4,306	451822
VK300.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002657	4,304	187627
VK554.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002327	4,303	483004
VK165.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002222	4,299	333073
VK386.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002078	4,299	356400
VK425.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003206	4,299	84818
VK301.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001749	4,298	401009
VK443.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002868	4,294	188474
VK143.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001641	4,293	504508
VK129.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002221	4,291	757561
VK550.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002069	4,285	656943
VK386.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003109	4,278	155737
VK259.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001661	4,278	545639
VK367.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002221	4,277	318275
VK357.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001554	4,277	585701
VK296.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001913	4,275	296198
VK442.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001578	4,268	544911
VK361.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001664	4,26	553730
VK145.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001696	4,254	522044
VK65.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00232	4,251	249606
VK346.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001844	4,251	546768
VK160.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002857	4,251	172571
VK550.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002885	4,245	181507
VK51.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003212	4,244	120098
VK176.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001504	4,242	705289
VK417.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001769	4,241	542685
vik_84005.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003162	4,24	152891
VK519.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,002975	4,239	127696
VK301.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00204	4,239	388774
VK223.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002318	4,239	239970
VK464.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003338	4,238	59767
VK515.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003417	4,234	102481
VK33.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003294	4,234	120225
VK94.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002918	4,228	83023
VK285.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002024	4,224	346412
VK349.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001783	4,223	535574
VK408.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002426	4,223	121944
VK56.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001855	4,222	458100
VK127.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00196	4,218	369913
VK284.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003118	4,213	140079
VK297.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002084	4,212	369005
VK294.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001777	4,212	502050
VK354.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003628	4,21	102565
VK518.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,012212	4,207	7636
VK58.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002702	4,206	211995
VK517.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002342	4,206	499405
VK24.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002618	4,205	116747
VK457.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002867	4,203	128906
VK461.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002418	4,202	180250
VK322.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001887	4,202	527942
VK317.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001823	4,201	528808
VK369.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001857	4,2	503620
VK466.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003196	4,199	93114
VK475.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002072	4,195	777172
VK542.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001513	4,194	556165
VK353.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001601	4,193	562010

H1	H2	X	O	D	Z	#snps
VK353.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001933	4,188	545233
VK285.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001767	4,187	357150
VK399.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002808	4,179	178385
VK53.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001838	4,175	447931
VK506.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00304	4,174	152289
VK269.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003909	4,173	53908
VK265.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001816	4,17	514579
VK143.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001903	4,165	489723
VK71.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002321	4,164	137892
VK287.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002081	4,156	292334
VK507.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003125	4,153	123358
VK332.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001586	4,153	602496
vik_gtm021.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002485	4,151	295481
VK546.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003362	4,149	63472
VK512.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001978	4,148	417253
VK549.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00169	4,146	623953
VK362.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001946	4,146	362758
VK420.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002917	4,145	173695
VK127.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001664	4,145	381278
VK548.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00266	4,144	207233
VK342.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002805	4,141	164365
VK484.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00299	4,138	152241
VK361.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001791	4,13	540332
VK159.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,002304	4,125	200538
VK330.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001888	4,124	485553
VK297.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00173	4,121	380461
VK452.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002899	4,121	166943
VK455.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002101	4,121	615489
VK203.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00303	4,118	144114
VK369.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001547	4,117	519460
VK409.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003089	4,114	114891
VK313.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002323	4,107	199073
VK312.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,004348	4,105	62509
VK275.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002182	4,102	269404
VK71.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002535	4,101	135345
vik_nuf002.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002439	4,1	127236
VK518.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,002947	4,099	222895
VK90.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00209	4,099	180107
VK481.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002984	4,097	165244
VK385.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002698	4,094	169651
vik_grt036.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002698	4,094	189695
VK203.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002108	4,093	332984
VK394.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003257	4,091	118321
VK312.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002705	4,089	230023
VK138.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002144	4,089	232450
VK518.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,003847	4,088	79342
VK371.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00242	4,085	235765
VK462.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003801	4,085	61389
VK171.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003464	4,085	70343
VK264.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001822	4,083	480482
VK171.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002905	4,081	72305
vik_urm161.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003881	4,081	63582
VK23.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001993	4,076	211016
VK508.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00166	4,069	643392
VK516.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002856	4,067	159033
VK40.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001626	4,067	642074
VK333.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001445	4,062	540385
VK422.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00178	4,062	521568
VK314.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002108	4,061	193529
VK340.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,002095	4,061	305183
VK471.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,004947	4,056	44475
VK336.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001871	4,049	541347
VK146.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00177	4,049	523521
VK259.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001735	4,049	532957
VK407.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002072	4,048	158223
VK454.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002483	4,044	165835
VK539.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002059	4,041	399706
VK278.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001907	4,04	363561
VK101.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001669	4,037	580858
VK524.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00282	4,034	164833
VK490.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002201	4,031	306825
VK151.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002146	4,03	531445
VK551.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00185	4,028	446891
VK462.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003503	4,028	61719
VK24.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002925	4,028	113504
vik_97029.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003785	4,022	59996

H1	H2	X	O	D	Z	#snps
VK550.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001503	4,018	649856
VK155.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002783	4,017	118408
VK511.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001966	4,015	407765
VK337.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002623	4,006	186524
VK517.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001741	4,003	493714
VK269.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003193	3,996	55448
VK335.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001762	3,995	504436
VK542.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001711	3,994	539855
VK547.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001872	3,993	489167
VK510.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002875	3,991	168983
VK221.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002681	3,99	184754
VK343.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002746	3,987	155606
VK350.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001719	3,984	590061
VK16.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002661	3,976	154463
VK110.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001668	3,975	559736
VK496.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002679	3,97	187003
VK355.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001725	3,965	518913
VK505.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001991	3,96	331208
VK316.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001898	3,959	371357
VK367.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00301	3,957	138213
VK123.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001733	3,956	441967
VK425.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002495	3,953	87221
VK296.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00205	3,952	287428
VK408.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002586	3,95	119496
vik_KAL006.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001546	3,948	553254
VK56.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002865	3,947	150134
VK301.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001816	3,943	391006
VK519.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003283	3,942	95734
VK463.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002682	3,942	189543
VK469.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002454	3,941	152296
VK370.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002055	3,94	354244
VK217.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002777	3,939	99479
VK511.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002005	3,938	644904
VK528.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001878	3,937	385163
VK342.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001962	3,935	376724
VK159.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002781	3,935	202712
VK466.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00284	3,935	93877
VK440.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003446	3,934	51068
VK134.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002328	3,932	222448
VK31.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002057	3,929	250149
VK445.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002811	3,924	161155
VK269.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003615	3,923	54327
VK282.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002058	3,922	266469
VK405.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00279	3,922	138352
VK129.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00162	3,921	749633
VK409.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002425	3,92	118208
VK384.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002837	3,918	150412
VK453.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002835	3,914	117646
VK30.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002107	3,913	232657
VK346.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001418	3,909	563299
VK273.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001684	3,909	515408
vik_84001.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002528	3,908	210490
VK70.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002532	3,907	214968
VK313.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002322	3,907	198201
VK354.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002205	3,904	236757
VK95.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002623	3,902	173326
VK308.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002731	3,9	165674
VK160.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,0019	3,895	394195
VK274.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001661	3,889	618622
VK342.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001958	3,885	593378
VK325.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003376	3,882	98286
VK529.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002036	3,872	644988
VK479.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002631	3,869	179067
VK175.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001982	3,867	283419
VK488.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001927	3,864	299693
vik_84001.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001826	3,86	483054
VK261.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001692	3,858	496870
VK555.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002824	3,853	144754
VK438.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002291	3,853	149831
VK427.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002947	3,85	79748
VK440.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003412	3,846	51069
VK365.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001533	3,843	429038
VK65.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001982	3,832	251381

H1	H2	X	O	D	Z	#snps
VK432.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002856	3,832	123118
vik_stg026.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003193	3,829	107863
VK469.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002053	3,829	156704
VK371.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003155	3,823	102350
VK99.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002049	3,822	295886
VK442.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,0016	3,821	531981
VK481.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001782	3,819	379330
VK554.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001708	3,816	477904
VK166.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001799	3,811	475960
VK398.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002645	3,809	156926
VK319.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001848	3,802	312539
VK546.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003434	3,802	62327
VK439.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003204	3,796	72561
VK330.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001462	3,796	500166
VK18.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001826	3,794	376326
VK434.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,004295	3,791	49992
VK483.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001896	3,79	413357
VK389.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001912	3,79	344237
VK414.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001818	3,79	364770
VK426.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002415	3,787	87263
VK424.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002374	3,785	99145
VK333.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001602	3,784	524423
VK178.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002909	3,783	124502
VK204.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002036	3,783	314640
VK330.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001663	3,783	488824
vik_84035.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002	3,777	152069
VK348.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001986	3,775	312099
VK338.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003241	3,772	90238
VK373.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002755	3,769	143073
VK459.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002203	3,769	136538
VK458.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003197	3,765	81505
VK483.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002501	3,759	180298
VK20.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003521	3,757	83030
VK20.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002276	3,756	188244
VK17.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002161	3,755	311697
VK400.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001883	3,755	324710
VK527.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001536	3,755	505029
VK176.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001469	3,752	688698
VK487.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001792	3,751	423450
VK23.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00208	3,749	206638
VK151.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001515	3,744	525857
VK312.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002641	3,743	144964
vik_urm035.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001996	3,743	178375
VK492.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001986	3,74	323686
vik_urm161.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003052	3,739	65460
VK357.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001516	3,73	572400
vik_kls001.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002357	3,729	101660
VK70.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001739	3,727	492401
VK165.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002622	3,72	146282
VK486.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001749	3,719	414895
VK403.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006907	3,719	16722
VK417.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001708	3,717	467917
VK518.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,003395	3,712	93838
VK108.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002011	3,711	266977
VK159.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,002396	3,707	171560
VK275.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00183	3,704	270908
VK453.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00229	3,702	121071
VK170.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002616	3,697	151753
VK230.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001746	3,694	444865
VK84.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001651	3,692	502832
VK320.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00185	3,692	360750
VK296.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001874	3,686	289842
VK21.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,008736	3,686	11247
VK256.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002559	3,683	162321
VK207.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001791	3,682	369661
VK31.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002171	3,679	173855
VK479.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001785	3,678	412435
VK147.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002692	3,677	131490
VK286.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001833	3,668	406103
VK526.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002588	3,666	183551
VK427.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002823	3,666	79326
VK490.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002002	3,665	486259
VK404.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002562	3,663	165381
VK34.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001879	3,661	345754
vik_84005.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001896	3,657	533125
VK448.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002447	3,656	187592

H1	H2	X	O	D	Z	#snps
VK346.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001425	3,654	550740
VK405.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001883	3,654	317563
VK426.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002787	3,652	84902
VK16.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002162	3,649	159172
VK552.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002508	3,646	163541
VK407.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002123	3,643	153676
VK57.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002237	3,642	119115
VK265.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00134	3,64	530478
VK102.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001698	3,638	478243
VK551.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002382	3,637	194884
VK224.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002082	3,631	148986
VK102.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002309	3,628	210765
VK454.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001923	3,623	170717
VK343.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,004438	3,622	46080
VK261.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001382	3,621	511990
VK369.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001539	3,62	506413
VK528.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002534	3,618	166788
VK319.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001586	3,617	320664
VK251.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00376	3,614	35500
VK476.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002513	3,614	82293
vik_grt035.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001732	3,604	478861
VK408.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002511	3,6	118628
VK475.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001376	3,596	768540
VK463.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00258	3,595	121032
VK519.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002797	3,593	151956
VK87.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001496	3,593	678231
VK156.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002951	3,59	115765
VK308.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001752	3,59	380729
VK493.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002421	3,588	183102
VK323.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001809	3,588	366101
VK159.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003904	3,584	56657
VK168.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001545	3,582	527654
VK340.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001544	3,581	362386
VK326.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001662	3,575	549190
VK56.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001743	3,574	458920
VK156.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001986	3,574	266301
VK313.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00257	3,571	128807
VK51.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002013	3,564	389874
VK21.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,002162	3,563	131161
VK261.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001498	3,562	500437
vik_urm161.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002855	3,562	65461
VK419.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002524	3,561	158361
VK204.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001912	3,561	499846
VK225.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002244	3,557	289077
VK291.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00254	3,554	141361
VK336.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001551	3,544	545418
VK364.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002567	3,541	167181
VK340.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001531	3,538	362176
VK150.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001592	3,536	493103
VK504.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001938	3,533	276984
vik_urm045.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002721	3,533	72053
VK464.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003127	3,53	58212
VK223.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001824	3,528	242726
VK444.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001459	3,527	428385
VK406.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002398	3,525	158053
VK424.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002649	3,522	96239
VK312.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001754	3,52	227478
VK426.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002511	3,52	85371
VK367.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001797	3,519	505910
VK145.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001549	3,51	510180
VK458.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002681	3,51	127881
VK255.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003203	3,503	54536
VK366.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00283	3,501	111241
VK332.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001538	3,5	584424
VK480.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001837	3,496	293231
VK15.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002593	3,493	132767
vik_urm160.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002554	3,492	167313
VK297.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001634	3,488	371363
vik_nuf002.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002468	3,488	123676
VK24.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002399	3,488	114497
VK529.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002548	3,487	175756
VK258.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002484	3,486	138690
VK14.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002191	3,485	114306
VK285.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001646	3,482	347917
VK509.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001716	3,481	365671
VK505.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00246	3,479	144819

H1	H2	X	O	D	Z	#snps
VK143.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001515	3,471	492805
VK428.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002348	3,471	121640
VK314.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001783	3,469	193520
VK463.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001839	3,468	187716
VK177.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00143	3,465	491115
VK174.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001924	3,463	303229
VK71.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002253	3,46	134082
VK146.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001314	3,46	539428
VK154.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001674	3,459	447458
VK448.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001643	3,458	432081
vik_84035.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002077	3,457	147705
VK530.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001743	3,456	290258
vik_kal009.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002311	3,456	133419
VK254.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003093	3,455	89487
VK122.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002482	3,451	157546
VK94.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,005364	3,45	23375
VK393.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006602	3,442	14933
vik_84035.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002063	3,438	149065
VK495.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001765	3,435	339695
VK417.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002503	3,434	175272
VK128.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001735	3,429	368725
VK327.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002349	3,424	148823
VK64.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002721	3,423	102637
VK372.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002459	3,421	160501
VK98.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002205	3,421	201751
VK519.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,002007	3,42	151990
VK266.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001317	3,418	410231
VK21.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002882	3,416	85403
VK322.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001405	3,415	531390
VK108.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002765	3,414	117416
VK150.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001273	3,41	508055
VK134.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002907	3,409	97397
VK542.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001397	3,407	543853
VK529.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001365	3,404	637762
VK29.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001399	3,394	622833
VK495.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001694	3,391	536317
VK550.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001473	3,39	554914
VK203.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001827	3,387	530891
vik_stg021.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002196	3,386	210443
VK475.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002097	3,383	245190
VK409.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002359	3,383	115394
VK452.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001948	3,382	165296
VK289.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002807	3,379	115776
VK94.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00232	3,379	83025
VK39.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002355	3,373	87713
VK478.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002343	3,372	172400
VK539.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002289	3,363	175389
VK353.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001462	3,362	548845
VK225.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00312	3,359	79958
VK512.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00237	3,358	181933
VK456.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001652	3,355	361274
VK155.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,004429	3,355	34376
VK159.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00201	3,355	197892
VK490.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001414	3,354	480878
VK354.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001874	3,352	374971
VK87.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001194	3,35	700103
VK432.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003704	3,349	53091
VK340.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001566	3,346	353674
VK221.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001596	3,34	424819
VK431.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001814	3,34	174598
VK17.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002939	3,337	86767
VK539.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001691	3,337	629817
vik_stg020.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,002145	3,336	139417
VK275.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002015	3,334	175808
VK56.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00542	3,334	21557
VK486.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002344	3,333	180860
VK57.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002431	3,331	115633
VK333.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001372	3,33	528024
VK417.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001383	3,329	547769
VK50.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00123	3,328	763988
VK455.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001382	3,327	608484
VK493.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001622	3,326	419687
VK518.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,007581	3,325	12543
VK268.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001911	3,323	117701
VK317.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001295	3,321	545568
VK22.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002146	3,321	95438
VK553.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001575	3,319	359765

H1	H2	X	O	D	Z	#snps
VK452.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003885	3,316	46932
VK219.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002362	3,316	170686
VK16.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002117	3,314	155421
VK530.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002571	3,306	125671
VK437.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,004649	3,304	17138
VK419.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001674	3,302	361529
VK380.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002489	3,302	86585
vik_urm161.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003003	3,3	64005
VK366.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001872	3,299	396267
VK205.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002337	3,298	148021
VK379.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002865	3,298	53162
VK533.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001657	3,297	779016
VK291.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001703	3,294	518766
VK134.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001834	3,294	349994
VK469.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001726	3,293	156704
VK497.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002264	3,29	166246
VK110.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002307	3,289	160351
VK349.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002337	3,287	152350
VK20.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001468	3,286	290667
VK520.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001707	3,283	640854
VK504.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001859	3,282	437561
VK420.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001612	3,277	625381
VK139.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002007	3,276	253239
VK344.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001586	3,276	315101
VK94.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002566	3,276	81229
VK479.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001621	3,271	655707
VK495.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002372	3,27	147591
VK382.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003401	3,269	45257
VK286.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00137	3,267	418651
VK552.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001644	3,264	374852
VK292.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002374	3,263	73789
VK454.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001889	3,26	166826
VK148.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004307	3,259	26818
VK159.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001763	3,257	202758
VK325.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001974	3,254	223750
VK517.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001529	3,252	418914
VK435.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003016	3,25	41395
VK220.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001552	3,25	420659
VK417.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001413	3,249	534988
VK23.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001903	3,249	204895
VK363.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002366	3,247	154516
vik_84005.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001304	3,246	528239
VK386.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001702	3,245	562852
VK425.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002342	3,244	85283
VK350.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001213	3,241	608521
VK294.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002349	3,24	141009
VK428.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,004153	3,239	34652
vik_gtm021.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002875	3,237	88014
VK220.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002174	3,237	183763
vik_grt036.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001611	3,235	437661
VK379.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003179	3,234	51510
VK553.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003873	3,232	46427
VK459.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002216	3,232	132863
VK84.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001227	3,229	518052
VK165.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001764	3,228	523208
VK553.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002274	3,226	156733
VK511.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001323	3,224	638011
VK547.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002165	3,224	212993
VK443.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001536	3,224	433028
VK449.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00166	3,224	600445
VK478.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001646	3,218	620995
VK51.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001375	3,213	387607
VK156.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001865	3,21	421542
VK497.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001663	3,208	381264
VK515.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001809	3,207	369654
VK165.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006535	3,206	14371
VK524.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001684	3,206	608878
VK438.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002484	3,205	98454
VK519.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001986	3,204	151900
VK460.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002181	3,204	194310
vik_kls001.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002039	3,203	101660
VK290.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001644	3,199	581214
VK408.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,004097	3,198	35212
VK326.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001236	3,197	566065
VK280.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003305	3,197	59146
VK348.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006688	3,195	13768
VK540.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002529	3,191	125589
vik_gtm127.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00271	3,188	47593
VK485.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002552	3,187	111355
VK338.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001487	3,187	327455

H1	H2	X	O	D	Z	#snps
VK393.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001701	3,182	341662
VK218.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001605	3,182	344135
VK434.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002313	3,178	113944
VK217.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00422	3,177	35370
VK172.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001671	3,175	346200
VK494.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002464	3,173	117514
VK427.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003253	3,171	52299
vik_97002.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00219	3,168	90873
VK545.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00217	3,164	178835
VK291.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001655	3,164	326442
VK407.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,008782	3,161	7335
VK528.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001592	3,158	613923
VK417.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001285	3,158	548102
VK458.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001902	3,157	126593
VK262.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002223	3,156	153011
vik_nuf002.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001911	3,155	127234
VK428.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002056	3,152	122287
VK223.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002851	3,151	74588
VK151.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001438	3,148	451005
VK417.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003723	3,146	45681
VK178.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001679	3,146	282875
VK259.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002175	3,146	152419
VK425.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,004746	3,143	24460
VK337.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001532	3,14	428782
vik_97029.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002408	3,139	61757
VK340.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001651	3,137	354169
VK428.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001826	3,134	125173
VK338.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002503	3,133	105570
VK425.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002607	3,131	87700
VK284.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001586	3,13	322858
VK50.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001186	3,126	763430
VK515.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001849	3,12	234565
VK505.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001558	3,117	521776
VK350.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,0013	3,116	593974
VK555.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001562	3,115	332374
VK456.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001627	3,115	574380
VK511.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00216	3,111	204674
VK30.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00201	3,105	153772
VK371.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001819	3,104	372931
VK171.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00222	3,104	72307
vik_97002.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002544	3,103	88132
VK255.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002544	3,102	55774
VK227.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003005	3,101	73845
VK90.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001546	3,1	180112
vik_KAL006.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001361	3,1	480074
VK309.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001759	3,097	194275
VK410.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002044	3,096	95391
VK489.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00151	3,092	402815
VK384.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001597	3,089	549880
VK133.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003917	3,087	21575
vik_stg021.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001447	3,087	480710
VK345.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001165	3,086	518007
VK516.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001561	3,086	367056
VK57.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002124	3,086	116328
VK449.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001178	3,085	594019
VK317.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001326	3,084	532018
VK397.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001571	3,084	369642
VK35.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001612	3,083	317431
VK358.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00154	3,08	310655
VK64.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00178	3,08	235614
VK382.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002803	3,079	46680
VK358.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002256	3,078	135243
VK160.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001551	3,076	619206
vik_urm035.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00182	3,072	174086
VK512.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001534	3,069	659873
VK20.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001799	3,068	293322
VK514.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001563	3,067	339287
VK279.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001973	3,062	193960
VK21.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,002158	3,062	113615
VK174.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006754	3,061	12993
vik_97002.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002093	3,061	90874
VK510.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001588	3,057	613872
VK141.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002296	3,057	149949
VK457.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002641	3,055	84967
VK202.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001506	3,054	333487
VK496.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001415	3,053	428432
VK202.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002119	3,052	145428
VK459.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001763	3,052	136538
vik_stg020.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,002264	3,052	120787

H1	H2	X	O	D	Z	#snps
VK50.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00128	3,05	650924
VK468.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001423	3,049	466899
VK387.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001526	3,049	340313
VK397.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002145	3,047	161423
VK24.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002716	3,041	75798
VK466.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002564	3,04	96362
VK481.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001515	3,035	599682
VK474.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002067	3,034	172247
VK372.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001521	3,033	368348
VK440.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002953	3,032	49831
VK216.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003535	3,03	23865
VK300.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001485	3,03	295728
VK364.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001466	3,026	384663
VK516.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003594	3,024	46956
vik_84035.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003579	3,022	44014
VK159.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003145	3,018	64855
VK544.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,0015	3,017	383336
VK348.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001556	3,016	496082
VK459.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002018	3,016	133656
VK323.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002051	3,013	159585
VK430.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00367	3,012	38371
VK407.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001827	3,012	154444
VK439.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002471	3,01	114388
VK56.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,001229	3,01	463064
VK92.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,010379	3,008	5219
VK517.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006202	3,007	13785
VK335.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002051	3,006	144312
VK528.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005727	3,005	16850
VK87.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001208	3,005	682925
VK323.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00153	3,005	577320
VK464.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002898	3,005	57979
VK201.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002158	3,004	152866
VK352.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001475	3,004	336169
VK517.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001272	3,004	499517
VK380.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001907	3,003	88965
VK452.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002439	3,003	106756
VK508.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001334	3,001	549273
VK226.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003354	3,001	25801
VK498.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002134	3	153939
VK548.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001394	2,996	476426
VK338.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001743	2,996	331164
VK265.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001202	2,994	518637
VK492.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002086	2,993	141354
VK348.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00226	2,99	135308
VK366.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001728	2,989	252425
VK90.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001799	2,986	174871
VK476.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002477	2,986	79834
VK514.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00219	2,982	150291
VK281.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002047	2,982	184610
VK21.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003429	2,982	42574
VK492.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001612	2,98	508759
VK363.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001533	2,98	356723
VK108.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001555	2,979	415755
VK445.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001506	2,978	370369
VK218.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001251	2,975	354840
VK519.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,0038	2,973	41543
VK546.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003551	2,972	42031
VK452.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001951	2,971	142066
VK290.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001509	2,97	364906
VK482.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00153	2,96	329151
VK406.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001429	2,959	362069
VK476.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002023	2,958	82290
VK427.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,014787	2,957	2288
VK148.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003183	2,956	27612
VK320.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002051	2,956	156225
VK432.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002036	2,956	195770
VK477.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001513	2,956	537635
VK543.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001578	2,953	310343
VK148.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003187	2,952	27612
VK504.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002308	2,951	120333
VK403.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001459	2,949	388029
VK123.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002217	2,948	127051
VK526.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001464	2,947	422592
VK129.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001124	2,947	757762
VK365.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001341	2,947	416377
VK516.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001533	2,947	584527
VK429.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001325	2,946	459861
VK483.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001534	2,945	653546
VK440.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00308	2,945	49528

H1	H2	X	O	D	Z	#snps
VK365.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001303	2,941	419303
VK382.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002706	2,939	46680
VK22.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002265	2,938	92880
VK129.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001302	2,935	640010
VK284.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001536	2,931	512609
VK357.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001987	2,929	164268
VK551.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001424	2,928	707882
VK547.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001451	2,928	777583
VK58.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001402	2,928	485081
VK400.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001557	2,928	512275
VK291.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002037	2,927	164757
VK384.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005841	2,927	15124
VK30.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002879	2,923	67865
VK342.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001163	2,922	587205
vik_urm160.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00147	2,921	379322
vik_stg020.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002385	2,919	140732
VK506.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001533	2,918	349149
VK462.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,005297	2,918	17487
VK332.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001121	2,917	602497
VK129.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001893	2,916	239658
VK438.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003417	2,915	43134
VK303.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001989	2,913	193682
VK392.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002136	2,912	139235
VK129.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00114	2,912	757257
VK22.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002142	2,912	93817
VK320.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001477	2,911	573821
VK424.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002056	2,909	96894
vik_KAL006.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001947	2,906	178673
VK308.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001386	2,905	604233
VK508.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001167	2,903	650152
vik_gtm021.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001357	2,903	293123
VK159.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001564	2,9	202628
VK90.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001665	2,899	176236
VK473.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001998	2,896	166516
VK29.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001094	2,896	722363
VK446.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002037	2,894	171535
VK327.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001442	2,894	538268
VK395.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001472	2,891	597182
VK218.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001315	2,889	346679
VK42.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001875	2,885	215701
VK50.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001312	2,882	745830
VK31.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002592	2,882	81088
VK300.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001868	2,881	299207
VK354.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001396	2,881	314957
VK349.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00141	2,878	349412
VK63.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002226	2,878	135241
VK30.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002762	2,875	77206
vik_84035.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002113	2,871	152986
VK255.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002318	2,865	55773
VK292.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002319	2,862	71604
VK387.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002004	2,861	149690
VK546.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002748	2,86	61713
VK434.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,010301	2,859	4951
VK517.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001202	2,859	499225
VK410.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002115	2,859	93290
VK473.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001338	2,857	379639
VK373.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001583	2,856	329141
VK407.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003415	2,855	43707
VK94.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002344	2,853	80745
VK14.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00203	2,853	111103
VK498.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001403	2,851	352220
VK29.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00106	2,851	722894
VK154.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00189	2,85	195177
VK533.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001808	2,849	245827
VK482.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001557	2,848	520727
VK133.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,014954	2,848	1839
VK434.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001938	2,848	178674
VK545.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001343	2,846	411228
VK42.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00391	2,846	35463
VK40.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001867	2,845	189366
VK264.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002183	2,841	137149
VK487.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001435	2,84	670651
VK175.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001574	2,839	448821
VK476.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00474	2,838	22723
VK159.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001905	2,838	198253
VK173.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001375	2,837	552285
VK517.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,002029	2,835	171502
VK139.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002591	2,834	70006
VK219.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001357	2,832	392104
VK39.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001954	2,832	87713
VK410.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001862	2,832	95393

H1	H2	X	O	D	Z	#snps
VK508.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001113	2,831	650551
VK338.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001481	2,83	278275
vik_gtm021.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001719	2,827	194891
VK56.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003685	2,826	39033
VK491.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00199	2,825	166301
VK431.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001821	2,824	169668
VK519.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001974	2,821	148654
vik_stg020.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001731	2,82	140765
VK433.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001821	2,819	189516
VK554.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003539	2,816	39555
VK441.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003965	2,808	23118
VK42.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001323	2,806	494992
vik_KAL006.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001098	2,805	558450
VK286.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00133	2,804	407935
vik_97029.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002164	2,803	61758
VK260.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,004838	2,801	21395
VK300.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002399	2,8	95057
VK128.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002007	2,799	159854
VK140.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,006409	2,799	8121
vik_urm160.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001446	2,798	592071
VK17.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001242	2,797	308567
VK364.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001332	2,796	611928
VK550.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00182	2,793	208495
VK444.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001372	2,793	415527
VK456.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001969	2,789	156674
VK519.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001897	2,786	148221
VK69.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001549	2,785	423904
VK386.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,004443	2,785	25659
VK469.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001618	2,784	152843
VK352.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002017	2,783	146835
VK462.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,002213	2,783	62901
VK520.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001109	2,782	633763
VK450.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,012365	2,781	2588
VK550.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003104	2,777	53688
VK410.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002161	2,777	92588
VK29.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004767	2,775	19857
VK99.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002006	2,775	134718
VK547.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004783	2,774	21205
VK63.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002185	2,773	88143
VK19.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001504	2,772	382184
VK550.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,004175	2,771	29839
VK167.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001415	2,77	300104
VK414.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001924	2,77	160065
VK111.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001985	2,769	139556
VK441.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003262	2,768	23810
VK455.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001263	2,766	516750
VK508.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003794	2,765	29518
VK141.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001372	2,765	343714
VK301.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,004475	2,756	22122
VK95.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001352	2,756	382843
VK405.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001436	2,752	500935
VK207.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002243	2,751	104229
VK329.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001289	2,747	348811
VK150.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00116	2,746	496522
VK525.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002025	2,744	137636
VK439.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003734	2,743	31622
VK458.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003682	2,743	35558
VK263.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,004161	2,743	26599
VK291.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003925	2,741	28468
VK365.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001081	2,741	429036
VK488.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001456	2,74	471260
VK507.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001492	2,74	282556
VK433.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001253	2,74	435275
VK314.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001532	2,739	188756
VK146.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001137	2,738	527274
VK399.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001287	2,737	407802
VK379.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00536	2,736	14615
VK296.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002396	2,734	83125
VK247.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002541	2,734	35399
VK263.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001466	2,734	369014
VK298.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001451	2,732	242999
VK462.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002718	2,732	63583
VK144.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001985	2,729	68430
VK367.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001097	2,729	500200
VK389.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001976	2,727	151142
VK272.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002147	2,727	90579

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VK57.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001701	2,726	119114
VK251.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,006486	2,722	10510
VK204.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002077	2,721	136659
VK417.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001296	2,718	535714
VK554.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001121	2,715	483107
VK155.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002345	2,715	77777
VK217.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001814	2,714	101394
VK540.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001461	2,712	288068
VK518.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,004575	2,711	22150
VK35.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00195	2,708	138936
VK404.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001336	2,707	378164
VK554.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005773	2,704	13281
VK344.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001996	2,702	137643
VK458.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,005934	2,702	12218
VK324.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001346	2,7	372496
VK493.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,0014	2,697	663709
VK495.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001091	2,697	530526
VK282.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001669	2,697	172760
VK309.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002946	2,697	54085
VK539.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,0011	2,694	623396
VK174.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002077	2,693	133158
VK58.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001308	2,692	766845
VK554.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00131	2,691	409582
VK320.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003185	2,691	46153
VK372.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001338	2,691	583271
VK496.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004762	2,688	18603
VK60.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001604	2,687	299334
VK217.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002771	2,687	65019
VK396.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001932	2,686	150807
VK101.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00188	2,685	167918
VK343.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001342	2,682	562887
VK510.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001719	2,681	195094
VK443.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001317	2,679	687541
VK338.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001641	2,676	208917
VK133.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004114	2,672	20961
VK453.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001588	2,672	121073
VK517.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001336	2,672	488243
VK323.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001013	2,669	571107
VK215.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,017119	2,668	1436
VK471.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,005147	2,667	15299
VK51.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006418	2,667	10816
VK441.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003124	2,665	23811
VK326.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001167	2,663	553327
VK147.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001923	2,663	144417
VK528.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001022	2,66	606919
VK470.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003429	2,66	20201
VK401.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001924	2,658	155291
VK134.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003813	2,656	28715
VK251.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002954	2,656	34812
VK437.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003711	2,656	17138
VK156.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001177	2,655	416955
VK170.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001385	2,653	550245
VK71.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003141	2,652	40283
VK449.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00116	2,651	507244
VK102.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001268	2,649	744701
VK497.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001395	2,646	601745
VK279.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001219	2,646	446155
vik_gtm127.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002287	2,646	47595
VK208.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002315	2,643	46835
VK251.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003224	2,64	34472
VK487.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005029	2,639	18344
VK393.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001937	2,639	148521
VK20.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001376	2,637	251359
VK39.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002136	2,637	86029
VK340.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,002142	2,636	124374
vik_grt035.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001784	2,636	208951
VK379.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002207	2,634	53163
VK176.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001153	2,634	448808
VK388.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001444	2,634	319593
VK400.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00202	2,634	141726
VK20.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001505	2,633	286878
VK314.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001585	2,629	187940
VK21.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00346	2,629	37549
VK29.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001662	2,629	230389
VK458.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00188	2,628	125060

H1	H2	X	O	D	Z	#snps
VK173.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001832	2,626	155368
VK165.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001086	2,625	517786
VK256.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001305	2,622	371189
VK342.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001161	2,619	502193
VK343.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001311	2,617	356688
VK354.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001115	2,617	370827
VK437.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,004088	2,615	16743
VK50.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001605	2,614	241678
VK261.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001815	2,613	143512
vik_nuf002.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001803	2,61	124642
VK140.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,005325	2,608	8312
VK50.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001044	2,607	744509
VK427.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003994	2,604	22993
VK51.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002014	2,603	127624
VK415.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001332	2,6	563925
VK367.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001889	2,599	161221
VK312.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002475	2,598	73557
VK63.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003244	2,597	39465
VK340.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003633	2,595	29384
VK475.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001095	2,595	654378
VK316.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001325	2,594	591324
VK387.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001354	2,593	531003
VK518.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,003942	2,591	26168
VK479.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004774	2,591	18103
VK431.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001536	2,588	170624
VK217.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002152	2,587	102469
VK282.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002422	2,586	74779
VK439.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001548	2,586	114405
VK312.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001316	2,582	229927
VK380.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001669	2,581	88963
VK21.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002002	2,581	132367
VK174.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001377	2,58	476660
VK489.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001727	2,578	176069
vik_kls001.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001956	2,578	98665
VK517.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003845	2,578	27264
VK504.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001115	2,576	432803
VK19.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001969	2,575	110748
VK260.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001958	2,573	129454
VK65.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00241	2,571	71767
vik_gtm021.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,004046	2,571	26032
VK171.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002942	2,57	46461
VK525.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003802	2,569	27789
VK458.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001801	2,567	108301
VK258.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001293	2,565	318171
VK462.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002883	2,56	40107
VK468.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001709	2,559	203492
VK133.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,007824	2,558	5890
VK366.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001158	2,558	392301
vik_KAL006.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001011	2,555	558823
VK533.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000995	2,553	770333
VK439.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00161	2,553	114342
VK424.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001592	2,553	99145
VK262.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001301	2,551	350435
VK14.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001631	2,549	114304
VK151.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000994	2,548	531583
VK338.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006512	2,548	9112
VK490.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001186	2,545	409794
VK216.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003574	2,544	23190
VK402.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001272	2,543	609179
VK215.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002591	2,542	50608
VK70.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001281	2,542	779278
VK60.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002268	2,542	82080
VK40.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001211	2,539	426261
VK463.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001638	2,538	161397
VK220.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,0013	2,536	664611
VK157.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001905	2,533	139261
VK204.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001065	2,532	494227
VK284.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003067	2,532	41604
VK474.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001283	2,531	395002
VK258.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001279	2,531	501814
VK495.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001137	2,527	452821
VK508.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001099	2,526	634304
VK371.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001192	2,526	368835

H1	H2	X	O	D	Z	#snps
VK165.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001177	2,526	444817
VK274.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001782	2,526	174027
VK478.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004905	2,525	16954
VK18.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002092	2,525	109927
VK212.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001651	2,522	142351
VK338.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001107	2,521	331234
VK122.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001261	2,52	361797
VK408.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002171	2,518	79789
VK458.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001522	2,514	127906
VK256.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00127	2,514	586450
VK387.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005117	2,513	14705
VK395.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001249	2,51	377739
VK463.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001606	2,509	185285
VK362.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002172	2,506	102634
VK468.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004252	2,506	20226
VK439.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001576	2,504	113199
VK463.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00253	2,504	60432
VK432.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001343	2,503	193545
VK359.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,026555	2,501	477
VK34.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001808	2,501	151337
VK544.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005005	2,5	16768
VK148.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002997	2,5	27023
VK480.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001913	2,493	127671
VK56.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001218	2,493	342599
VK203.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001029	2,491	524737
VK446.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001279	2,49	394004
VK373.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00316	2,489	42271
VK60.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00157	2,488	189060
VK379.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003282	2,487	33761
VK483.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004661	2,487	18005
VK368.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001851	2,487	149408
VK510.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000977	2,486	607254
VK332.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001105	2,486	588656
VK144.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002232	2,483	66460
VK401.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002941	2,483	46011
VK518.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,005159	2,482	14894
VK225.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001228	2,482	285900
VK455.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002866	2,48	49870
VK129.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001132	2,479	739871
VK370.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001345	2,479	563045
VK173.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001231	2,478	353453
VK300.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006343	2,477	8330
vik_84001.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00123	2,473	766402
vik_gtm021.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001278	2,473	259891
VK14.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001758	2,473	111995
VK134.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00114	2,471	346282
VK346.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001771	2,47	158488
VK452.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001377	2,47	166895
VK260.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001319	2,469	295511
VK266.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001135	2,468	398384
VK456.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00096	2,468	567875
VK345.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001055	2,467	502895
VK435.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002299	2,465	41396
VK295.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002139	2,464	91664
VK222.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,1	2,464	35
VK506.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001305	2,463	553097
VK312.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001441	2,463	192650
VK517.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001807	2,463	158824
VK429.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001577	2,462	200391
VK463.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001431	2,46	185089
VK441.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00322	2,455	23255
VK287.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001561	2,452	189472
VK382.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002452	2,45	45635
VK371.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005987	2,45	10258
VK151.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003879	2,45	24359
VK384.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00334	2,448	29837
VK206.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,005541	2,448	7196
vik_urm045.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001869	2,448	72052
VK338.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,002101	2,447	113644

H1	H2	X	O	D	Z	#snps
VK230.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001653	2,445	193429
VK429.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002604	2,443	59163
vik_KAL006.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004848	2,443	15298
VK426.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002403	2,441	56121
VK138.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002246	2,439	71520
VK265.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001734	2,439	148745
VK306.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001251	2,434	320623
VK498.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001247	2,433	556580
VK527.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004891	2,433	14142
VK373.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001341	2,432	522257
VK367.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002828	2,431	48351
VK463.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002565	2,43	53097
VK486.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00125	2,428	655510
VK203.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004985	2,427	14595
VK475.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000923	2,427	777381
VK414.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001251	2,427	570496
vik_97002.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001971	2,427	88441
VK102.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004137	2,426	20488
VK544.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001792	2,425	166516
VK257.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005146	2,424	13667
VK171.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001971	2,424	70529
VK166.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001208	2,423	748700
VK227.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001561	2,423	169074
VK408.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,007569	2,422	5813
vik_KAL006.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001014	2,421	544929
VK50.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004218	2,419	20944
VK342.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004817	2,417	16244
VK86.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,010966	2,415	2371
VK435.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,005285	2,413	11353
VK255.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002702	2,413	56079
VK470.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00316	2,413	20202
vik_urm045.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002051	2,413	70576
VK129.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002986	2,412	41194
VK386.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000966	2,411	556748
VK400.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004861	2,41	14143
VK406.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001184	2,409	570425
VK512.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00459	2,407	18119
VK415.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001186	2,407	361067
VK529.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001139	2,406	541219
VK329.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001771	2,405	152173
VK300.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002232	2,405	80932
VK135.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,039216	2,405	170
VK462.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002307	2,405	62184
VK492.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002889	2,404	41855
VK251.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003098	2,403	34932
VK257.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001178	2,403	316186
vik_stg020.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00154	2,403	140662
VK403.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001667	2,403	170165
VK129.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00102	2,402	738453
VK102.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003226	2,401	33661
VK420.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000936	2,4	618934
vik_97029.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002108	2,399	60397
VK482.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00185	2,393	143176
VK527.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001132	2,392	428358
VK227.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001425	2,392	266144
VK483.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001015	2,391	551514
vik_KAL006.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001699	2,39	191174
VK517.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001054	2,39	487176
VK466.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001622	2,385	95493
VK393.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001245	2,384	541091
VK551.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003375	2,383	32224
VK48.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002538	2,383	58486
VK309.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001691	2,383	200510
VK529.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003371	2,382	29372
VK394.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001231	2,382	269638
VK399.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001154	2,381	644261
VK69.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00186	2,379	124869
VK529.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001603	2,378	204224
VK144.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001703	2,378	68429
VK417.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003951	2,376	25142
VK16.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001895	2,376	160100
VK342.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002714	2,375	48548

H1	H2	X	O	D	Z	#snps
VK33.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001328	2,375	415761
VK50.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003199	2,374	34490
VK98.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001159	2,373	704133
VK29.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001045	2,37	706108
VK39.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001993	2,37	85336
VK281.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001113	2,368	425259
VK524.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003221	2,368	33267
VK385.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003456	2,367	28163
VK384.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000971	2,366	543684
VK491.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001107	2,365	381032
VK140.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,005957	2,365	8048
VK505.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001632	2,363	166294
VK330.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001678	2,363	140334
VK108.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000992	2,362	411918
vik_84005.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00281	2,361	45310
VK388.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005074	2,36	13910
VK385.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001152	2,358	389878
VK480.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003625	2,357	25309
VK426.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003397	2,357	24591
VK553.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001206	2,356	568394
VK529.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004576	2,356	17700
VK215.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00202	2,356	52164
VK543.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001769	2,356	135273
VK29.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000941	2,355	704768
VK92.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001599	2,354	186197
VK477.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000963	2,352	531743
VK263.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001208	2,352	583008
VK367.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001061	2,35	424800
VK475.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000912	2,35	776842
VK322.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003799	2,35	25270
VK108.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003187	2,348	34856
VK291.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000965	2,347	512885
VK221.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001151	2,347	674547
VK474.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001238	2,346	624772
VK42.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001146	2,346	786178
VK430.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001883	2,344	87861
VK33.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001265	2,344	270437
VK456.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003154	2,343	31496
VK548.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001162	2,342	756595
VK300.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001107	2,34	299265
VK407.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,008197	2,339	4392
VK511.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003085	2,338	35148
VK490.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000928	2,337	486373
VK550.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000872	2,337	656684
VK303.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00115	2,337	446052
VK527.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000924	2,337	510666
vik_kal009.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,005581	2,336	11020
VK303.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004323	2,336	19391
VK511.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001057	2,335	544563
vik_KAL006.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002754	2,335	46927
VK527.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000934	2,335	510945
VK361.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001709	2,333	152504
VK300.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001314	2,332	250211
VK147.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005282	2,331	12290
VK282.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001438	2,33	274691
VK492.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00095	2,328	503476
VK529.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000926	2,328	645145
VK111.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001206	2,327	315511
VK455.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000938	2,326	615278
VK19.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001291	2,325	248813
VK215.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002177	2,323	51003
VK167.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001693	2,322	132345
VK435.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002606	2,321	40228
VK514.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001225	2,319	526015
VK417.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001593	2,319	188635
VK247.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002201	2,319	35400
VK511.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00333	2,318	29453
VK455.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000903	2,318	615635
VK84.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00098	2,316	507121
VK158.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002635	2,314	26608
VK20.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,004429	2,314	16049
VK308.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000901	2,314	597557
VK479.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000891	2,312	648343

H1	H2	X	O	D	Z	#snps
VK354.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003431	2,311	30193
VK56.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,0017	2,309	161467
VK409.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001986	2,309	118916
VK475.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002461	2,308	62974
VK159.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,002408	2,308	69461
VK286.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001277	2,305	263609
VK94.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002412	2,305	53496
VK64.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001268	2,305	370742
VK312.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001151	2,304	230066
VK354.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001859	2,304	128479
VK396.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001183	2,304	345772
VK401.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001168	2,304	356094
VK108.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005252	2,301	11566
VK327.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001128	2,298	341371
VK440.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00453	2,298	16483
VK320.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000883	2,296	567337
VK160.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000914	2,296	612873
VK166.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002394	2,295	61620
VK347.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004443	2,292	11761
VK138.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001411	2,286	240624
VK490.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001657	2,285	155041
VK529.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000946	2,284	628965
VK151.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00095	2,284	531225
VK520.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001479	2,284	203119
VK18.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00125	2,284	386197
VK334.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005877	2,284	9132
VK173.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004401	2,283	15148
VK452.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001235	2,282	166989
VK171.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,004111	2,28	19996
VK21.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,007062	2,28	6219
vik_grt035.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001114	2,279	759345
VK325.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003227	2,277	29178
VK201.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001106	2,275	352518
VK550.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000869	2,275	657116
VK472.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,004742	2,273	12785
VK422.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001613	2,272	150509
VK463.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001212	2,272	189481
VK257.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001679	2,271	138471
VK92.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00123	2,268	184323
VK133.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00294	2,268	21575
VK154.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001123	2,267	708395
VK324.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001525	2,267	162852
VK411.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003619	2,264	14043
VK86.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,005517	2,262	6923
VK158.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002609	2,262	26605
VK504.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005206	2,261	12101
vik_97002.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002065	2,261	91363
vik_kls001.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001603	2,259	99233
VK221.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004055	2,258	18496
VK139.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,0011	2,258	250698
VK287.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001362	2,258	301555
VK405.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00341	2,258	27419
VK339.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003955	2,257	10139
VK332.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001516	2,253	167792
VK554.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00096	2,252	482817
VK450.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001426	2,251	90093
VK508.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001061	2,25	635368
VK140.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00459	2,25	8312
VK140.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,034979	2,249	243
VK325.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001334	2,248	348979
VK312.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001222	2,247	224717
VK343.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001492	2,247	178981
VK288.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004949	2,246	11618
VK489.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002801	2,245	34662
VK347.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00369	2,245	12093
VK464.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002731	2,245	38055
VK421.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,008446	2,245	3789
VK292.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001637	2,244	73789
VK549.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001564	2,239	177685
VK285.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001848	2,239	96774
VK257.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001181	2,236	497606
VK122.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001236	2,235	572358
VK384.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003649	2,233	25167
vik_grt036.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001102	2,233	696535
VK339.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,024313	2,232	473
VK53.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001579	2,231	142751
vik_urm045.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00201	2,23	70058
VK481.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000847	2,229	593267

H1	H2	X	O	D	Z	#snps
VK294.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001102	2,229	325897
VK402.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,0015	2,228	168245
VK206.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,005084	2,227	7130
VK439.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001613	2,227	96620
VK368.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001109	2,225	344161
VK269.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,012854	2,224	1543
VK384.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002711	2,223	44595
VK466.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003448	2,223	27308
VK492.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003737	2,222	23390
vik_KAL006.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001045	2,221	545823
VK438.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,007974	2,22	4316
VK200.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003814	2,218	11181
vik_KAL006.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003536	2,218	25313
VK56.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,001659	2,216	139694
VK490.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004688	2,215	13226
VK176.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001466	2,215	195997
VK156.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005121	2,215	11700
VK17.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00095	2,215	311591
VK344.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001137	2,214	495132
VK469.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002649	2,212	42795
VK51.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001093	2,212	349379
VK53.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001091	2,212	309510
VK268.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001288	2,211	117700
VK461.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002566	2,211	50944
VK554.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003687	2,209	22240
VK260.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003291	2,207	25578
VK449.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004444	2,207	16541
VK365.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00174	2,205	120201
VK490.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002848	2,202	39408
VK268.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001489	2,202	114319
VK495.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001544	2,201	170885
VK508.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003993	2,2	17842
VK512.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000864	2,2	652809
VK456.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004322	2,197	15868
VK530.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001201	2,196	463371
VK478.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000878	2,196	614490
VK31.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001352	2,195	254763
VK385.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00436	2,194	17012
VK421.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004685	2,194	10572
VK529.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001535	2,192	220903
VK370.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003038	2,192	30773
VK527.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002893	2,19	41130
VK511.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002192	2,188	61485
VK315.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001975	2,188	90266
VK527.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003174	2,188	28016
VK338.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00111	2,187	323191
VK437.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003642	2,186	16651
VK507.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001153	2,184	445692
VK71.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,006387	2,184	6589
VK509.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001145	2,183	577615
VK363.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001154	2,183	568005
VK255.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002149	2,183	54186
VK483.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000858	2,18	646468
VK297.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001228	2,179	242034
VK533.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000951	2,179	655516
VK15.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001205	2,176	304053
VK484.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001144	2,175	552674
VK366.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001073	2,175	337289
VK272.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00272	2,175	39372
VK519.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002589	2,174	48627
vik_kal009.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001914	2,173	86528
VK160.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00399	2,171	17167
vik_stg021.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001039	2,17	758304
VK488.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001622	2,168	130631
VK508.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001473	2,168	222914
VK347.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,004023	2,168	11785
VK64.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,004215	2,167	16945
VK284.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00093	2,165	506844
VK161.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003601	2,164	15382
VK289.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00117	2,163	424963
VK327.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003383	2,159	24682
VK306.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001626	2,159	139144

H1	H2	X	O	D	Z	#snps
VK69.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001153	2,158	278620
VK281.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002361	2,158	54487
VK464.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00175	2,158	59437
VK396.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001126	2,158	544782
VK342.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003012	2,157	32403
VK354.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000911	2,157	375060
VK417.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004208	2,155	15049
VK129.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003033	2,153	34320
VK519.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00244	2,152	52454
VK525.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001172	2,151	507240
VK355.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004521	2,151	14726
VK290.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000843	2,151	574574
VK34.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001113	2,151	545464
VK128.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001149	2,15	586113
VK223.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001349	2,149	164552
VK405.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001642	2,148	159422
VK484.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003026	2,147	30183
VK151.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00092	2,146	518517
VK449.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001437	2,145	190481
VK148.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,005526	2,143	8218
VK344.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004357	2,143	13581
VK458.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001304	2,143	127838
VK511.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000863	2,141	645069
VK219.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001074	2,141	621309
VK508.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002491	2,14	52958
VK422.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004311	2,14	14749
VK494.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002931	2,14	32102
vik_84005.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000876	2,139	532880
VK398.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001087	2,139	359364
VK161.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003296	2,137	15689
VK487.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00138	2,135	212731
VK529.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000878	2,135	644765
vik_84035.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,008163	2,133	4206
VK463.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,004061	2,133	15881
VK273.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001107	2,133	339352
VK404.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001095	2,133	596377
VK230.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001086	2,132	707023
VK232.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001512	2,13	132610
VK56.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003198	2,13	25671
VK92.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001568	2,128	118289
VK448.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001097	2,128	686804
VK315.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001227	2,127	211086
VK200.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004423	2,126	10849
VK203.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001041	2,125	444627
VK156.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001069	2,123	354754
VK549.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002429	2,122	52595
vik_stg026.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001174	2,122	370416
VK127.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001696	2,118	105417
VK421.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003693	2,118	10886
VK50.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002094	2,117	72254
VK208.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001883	2,116	46835
VK545.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001048	2,115	652934
VK21.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001215	2,114	132405
VK508.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001396	2,11	206356
VK539.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000973	2,11	534192
VK489.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003043	2,109	29032
VK320.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001436	2,108	181922
VK354.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001664	2,108	119450
VK17.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005515	2,108	8673
VK208.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002273	2,107	45502
VK251.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003141	2,107	23291
VK493.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000818	2,106	656607
VK70.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001306	2,106	246106
VK444.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004616	2,104	11970
VK216.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002435	2,103	23864
VK486.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003849	2,102	18037
VK17.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000901	2,101	311757
VK460.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001509	2,1	123475
VK552.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001101	2,099	592145
VK543.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001183	2,099	492462
VK146.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001469	2,099	151306
VK147.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001105	2,097	294521
VK19.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00362	2,097	17543
VK405.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000869	2,097	495551

H1	H2	X	O	D	Z	#snps
VK511.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003997	2,096	17741
VK147.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001132	2,095	448128
VK455.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001005	2,093	601463
VK434.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00113	2,092	176927
VK300.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00112	2,091	292668
VK476.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00173	2,091	80316
VK217.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001408	2,09	102439
VK143.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001548	2,088	140970
VK527.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000896	2,087	498329
VK340.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000898	2,086	356802
VK94.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002015	2,086	83533
vik_stg020.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002625	2,086	40068
VK507.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000875	2,085	441073
VK270.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002139	2,083	28732
VK303.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001091	2,083	709359
VK279.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002537	2,082	38526
VK157.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001029	2,079	306712
VK382.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,013055	2,078	1283
VK300.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002955	2,078	28938
VK435.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002247	2,077	40377
VK14.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,008599	2,077	3198
VK444.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,000857	2,076	428386
VK98.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000995	2,076	455614
VK342.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001364	2,075	188680
VK480.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001099	2,074	462117
VK220.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00294	2,073	30473
VK170.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00083	2,069	544269
VK350.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004062	2,068	16742
VK212.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001335	2,068	223653
VK369.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00106	2,066	327658
VK151.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004141	2,066	14430
VK473.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001032	2,066	598307
vik_gtm127.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002203	2,065	46298
VK445.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001075	2,063	585254
VK464.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003661	2,063	19370
VK352.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001058	2,061	531297
VK34.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004168	2,061	14997
vik_stg020.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,002574	2,058	42223
VK151.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001364	2,055	168889
VK452.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,005873	2,054	7620
VK51.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003655	2,054	17876
VK254.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001213	2,054	204128
VK511.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000816	2,052	644678
VK328.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001483	2,052	153394
vik_84005.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000991	2,052	520988
VK403.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00101	2,05	609840
VK123.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001098	2,047	290441
VK411.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004493	2,046	10270
VK33.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000901	2,046	412060
VK463.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001049	2,045	189596
VK402.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000982	2,044	386157
VK511.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002341	2,043	52572
VK392.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001089	2,043	505118
VK71.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001637	2,043	91454
VK266.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,000804	2,043	410231
VK202.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001052	2,041	525628
VK343.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004052	2,041	15485
VK300.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000969	2,04	299101
VK455.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000885	2,04	600312
VK525.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001032	2,035	318297
VK453.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001389	2,035	118319
VK156.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002624	2,034	34237
VK297.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002935	2,033	30946
VK208.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002012	2,033	45641
VK232.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001341	2,032	208662
VK464.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002123	2,032	60108
VK129.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002156	2,031	61734
VK175.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001529	2,029	123111
VK468.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000993	2,027	740237
VK200.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,020313	2,025	521
VK422.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001057	2,024	342576
VK450.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001301	2,023	90095
VK388.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001516	2,023	140080
VK485.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001066	2,022	404513

H1	H2	X	O	D	Z	#snps
VK278.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004581	2,022	10423
VK494.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001289	2,022	116208
VK555.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001038	2,021	524153
VK69.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004704	2,021	11799
VK514.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004401	2,018	14391
VK519.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00158	2,017	110448
vik_stg021.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002761	2,017	34281
VK550.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001304	2,016	225024
VK20.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000906	2,016	293400
VK527.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000932	2,014	499406
VK495.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003109	2,009	24657
VK156.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003549	2,009	19421
VK425.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002928	2,009	28203
VK357.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00394	2,009	16117
VK317.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00099	2,008	345295
VK540.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001088	2,007	456216
VK298.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001282	2,004	157575
vik_2072.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003577	2,002	9506
vik_84005.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000894	2,002	460650
VK129.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003493	2,001	20731
VK524.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000798	2	601859
VK554.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001422	1,999	153764
VK16.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002419	1,999	44355
VK258.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002518	1,998	41230
VK414.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001401	1,997	182282
VK21.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001339	1,997	129478
VK203.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003273	1,996	24286
VK325.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00157	1,996	120293
VK257.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003093	1,996	22821
VK92.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002228	1,995	51496
VK355.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001017	1,993	338746
VK161.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003016	1,992	15690
VK308.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003842	1,991	16571
VK409.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,005951	1,99	6623
VK151.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000952	1,989	519421
VK432.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002085	1,986	62267
VK539.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001352	1,984	200965
vik_grt036.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003452	1,984	19093
VK318.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,011153	1,983	1523
VK21.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,001596	1,982	109673
VK371.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002692	1,981	35593
VK101.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000957	1,979	381612
VK475.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001285	1,978	265307
VK322.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001434	1,978	152089
VK139.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001806	1,977	81102
VK348.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000777	1,977	490478
VK58.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003516	1,977	20950
VK170.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000871	1,974	463980
VK362.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003642	1,974	17136
VK56.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000867	1,974	455729
VK90.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002191	1,972	50357
VK471.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001199	1,972	156819
VK479.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000854	1,972	551140
VK494.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001527	1,972	98956
VK505.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00078	1,97	516390
VK444.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,000906	1,97	418097
VK284.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003159	1,969	23504
VK256.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001326	1,969	186368
VK481.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002698	1,968	32833
vik_kal009.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001547	1,968	137703
VK344.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00143	1,966	170812
vik_stg020.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001372	1,966	137316
VK338.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000912	1,965	331049
VK329.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003023	1,964	25360
VK386.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000905	1,964	475227
VK281.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000968	1,963	676372
VK551.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000716	1,962	700145
VK316.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001351	1,962	203180
VK286.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001567	1,96	113997
VK463.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,004975	1,956	8777
VK343.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000777	1,955	556957
VK17.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000991	1,954	264300

H1	H2	X	O	D	Z	#snps
VK255.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003704	1,953	15514
VK545.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003583	1,952	17910
VK470.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002867	1,952	19716
VK457.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00137	1,949	113059
VK449.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000751	1,949	600237
VK170.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003988	1,948	15193
VK488.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003364	1,947	21799
VK218.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004819	1,947	9856
VK110.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000941	1,947	367030
VK528.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002773	1,945	28005
VK340.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003562	1,945	19814
VK520.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002806	1,945	29280
VK490.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000827	1,943	486089
VK496.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000944	1,943	677787
VK133.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,003458	1,943	21711
VK434.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001203	1,943	174835
VK340.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003575	1,942	16525
VK178.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001061	1,942	443824
VK550.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000803	1,941	640789
VK301.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001089	1,941	253792
VK486.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000753	1,94	648503
VK526.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001014	1,94	671357
VK367.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000782	1,94	506030
VK449.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000726	1,94	600588
VK401.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001019	1,939	562932
VK483.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001228	1,938	207356
VK393.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001437	1,938	172214
VK425.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001305	1,938	86834
VK56.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004189	1,937	12891
VK506.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002392	1,936	44768
VK495.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000797	1,934	536133
VK23.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001346	1,934	136361
VK475.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00262	1,933	35113
VK161.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,003053	1,933	15626
VK177.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004031	1,932	13789
VK266.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,000829	1,932	401432
VK161.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,006959	1,932	4443
VK86.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003938	1,931	7103
VK452.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006759	1,929	4710
VK334.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001749	1,929	91911
VK515.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004612	1,928	10173
VK99.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002919	1,928	24295
VK464.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003712	1,927	16422
VK312.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003372	1,926	18585
VK457.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002454	1,925	37143
VK50.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001242	1,925	260676
VK64.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000902	1,923	313803
VK516.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003794	1,919	15968
VK278.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001461	1,918	119307
VK70.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003254	1,917	21284
VK470.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002972	1,917	19595
VK274.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000982	1,916	400849
VK268.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001223	1,915	115170
VK348.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000827	1,915	416526
VK462.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00166	1,915	62161
VK323.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002072	1,914	55030
VK475.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000854	1,913	758827
VK478.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00286	1,912	28381
VK478.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000842	1,91	525994
VK546.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001865	1,908	56122
VK388.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001062	1,907	501459
VK69.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002476	1,904	36785
VK384.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001312	1,903	174671
VK440.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003999	1,903	14128
VK434.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00101	1,902	178606
VK87.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001264	1,901	192117
VK446.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000973	1,9	622440
VK158.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002349	1,9	25964
VK102.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001948	1,9	62129
VK551.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003455	1,898	19393

H1	H2	X	O	D	Z	#snps
VK439.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001434	1,898	111864
VK421.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,008083	1,898	3124
vik_84005.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000767	1,898	533265
VK95.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000986	1,898	576163
VK86.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00476	1,897	6526
VK441.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,009416	1,897	2239
VK461.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001379	1,895	117314
VK99.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00105	1,895	439355
VK485.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001095	1,893	255283
VK490.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000827	1,892	474381
VK488.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000766	1,892	466346
VK303.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002569	1,892	32118
VK527.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001415	1,892	162591
VK392.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000998	1,891	319832
VK430.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001458	1,891	135265
VK158.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,005267	1,891	7436
VK251.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001934	1,89	35499
VK159.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,004306	1,89	11030
VK217.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,004679	1,89	9885
VK225.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000897	1,888	289149
VK206.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00607	1,887	4654
VK267.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001692	1,887	42602
VK517.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003081	1,887	22829
VK53.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000974	1,886	455303
VK205.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00096	1,884	341606
VK335.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000959	1,884	518985
VK153.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00405	1,884	12799
VK397.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000973	1,884	583469
VK226.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002626	1,884	25037
VK355.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001399	1,883	147940
VK139.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001217	1,883	160463
VK362.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00242	1,883	35988
VK432.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003752	1,883	15859
VK212.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000955	1,883	221271
VK362.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001111	1,882	373808
VK497.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000773	1,881	595281
VK159.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006492	1,881	5520
VK134.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003292	1,88	19137
VK64.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001482	1,88	118708
VK207.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001051	1,88	239700
VK227.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001674	1,88	84841
VK430.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001284	1,879	115813
VK494.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,005655	1,879	6455
VK300.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001728	1,878	102898
VK201.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000935	1,877	560533
VK497.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002232	1,877	49091
VK554.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000864	1,877	471457
VK200.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,007524	1,876	3544
VK275.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003858	1,873	12940
VK263.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00221	1,873	47620
VK129.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001741	1,872	71737
VK155.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001478	1,871	121789
VK161.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,006946	1,87	4763
VK464.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001527	1,868	60092
VK295.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004644	1,867	9349
VK170.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001321	1,865	175002
VK326.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001332	1,865	159149
VK506.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001314	1,864	175938
VK177.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001373	1,864	140891
VK437.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,006475	1,864	4736
VK427.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001296	1,864	82100
VK297.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001504	1,863	104820
VK153.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001874	1,863	37061
VK369.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001392	1,862	141802
VK343.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00257	1,862	30707
VK456.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001254	1,86	182073
VK471.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001295	1,86	134890
VK158.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00257	1,86	25871
VK18.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003532	1,86	17742
VK395.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000742	1,86	590748
VK135.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,010251	1,859	1756
vik_nuf002.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,0016	1,859	83406
VK140.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,004092	1,858	8255
vik_97029.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001934	1,858	62123
VK224.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001293	1,857	153264
VK17.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001569	1,856	99663
VK308.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001188	1,855	191806
VK382.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002546	1,852	29841

H1	H2	X	O	D	Z	#snps
VK19.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004268	1,852	10564
VK337.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002077	1,851	55058
VK264.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000968	1,851	314124
VK98.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002642	1,851	32084
VK128.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002857	1,849	26745
VK21.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,005012	1,847	7216
VK475.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000772	1,846	757310
vik_nuf002.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,007347	1,846	3573
VK148.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,002109	1,845	27517
VK148.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,010681	1,845	1537
VK148.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00281	1,843	27784
VK158.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,011543	1,843	1285
VK20.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001537	1,842	94086
VK493.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002701	1,841	30178
VK497.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00126	1,84	191229
VK35.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00102	1,84	499439
VK342.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000689	1,839	593516
VK485.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001383	1,838	129116
VK337.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000944	1,838	680705
VK157.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00099	1,838	461707
VK495.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000739	1,837	536444
VK385.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000909	1,837	617962
vik_gtm021.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005219	1,837	7936
VK511.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000798	1,835	629022
VK294.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003099	1,833	23745
VK219.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003388	1,833	17145
VK217.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,0012	1,832	102494
vik_stg020.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001367	1,832	137640
VK326.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003543	1,831	15665
VK406.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002142	1,83	46725
VK547.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000715	1,829	768864
VK174.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000751	1,829	471694
vik_97026.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001402	1,828	62623
VK489.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003383	1,826	17442
VK123.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004003	1,826	12617
VK205.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000937	1,825	542343
VK140.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,004008	1,823	8234
VK33.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002353	1,822	39558
VK399.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003447	1,822	17623
VK398.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000922	1,82	565288
VK278.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001082	1,819	237086
VK323.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000825	1,819	487774
vik_97026.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,005807	1,819	5611
VK18.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003105	1,818	21039
VK367.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002344	1,817	40715
VK424.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,008366	1,817	2849
VK279.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000918	1,816	708614
VK284.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00124	1,816	162810
VK512.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000805	1,814	557151
VK168.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001286	1,814	152069
VK206.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003562	1,814	7349
VK323.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001233	1,814	198441
VK408.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001369	1,814	122686
VK295.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003411	1,813	15611
VK29.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001155	1,812	247257
VK161.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003234	1,812	15264
VK133.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002682	1,811	21078
VK488.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002089	1,81	45085
VK358.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000933	1,81	490278
VK472.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00151	1,809	46900
VK263.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001242	1,809	185391
VK329.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000939	1,808	548454
vik_84035.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001402	1,807	99370
vik_stg021.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003075	1,806	20734
VK506.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002038	1,805	52924
VK273.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002528	1,805	29076
VK339.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00377	1,804	9891
VK549.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000873	1,803	406881
VK529.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002136	1,803	51977
VK177.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001233	1,803	161479
VK272.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,003899	1,803	13615
VK216.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002376	1,802	23335

H1	H2	X	O	D	Z	#snps
VK292.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003155	1,8	20394
VK21.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001066	1,8	132322
vik_urm160.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002033	1,798	49319
VK427.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001561	1,798	80342
VK326.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000904	1,797	362537
VK462.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001367	1,797	63594
VK528.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000785	1,796	514539
vik_stg026.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001051	1,794	241494
VK364.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002071	1,794	49454
VK515.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000813	1,794	365811
VK336.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001337	1,792	156321
VK460.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000998	1,791	189751
VK471.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,004605	1,79	7166
VK372.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002099	1,789	47609
VK19.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00073	1,789	379026
VK134.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004606	1,787	9552
VK443.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000688	1,787	679893
VK440.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002013	1,786	51367
VK90.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003347	1,785	14988
VK129.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001141	1,784	258937
VK387.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000704	1,784	525850
VK276.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,005365	1,783	6493
VK508.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001889	1,782	61940
VK216.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,008723	1,779	2245
VK298.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001158	1,779	250664
VK270.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001844	1,779	28730
VK366.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004517	1,779	10866
VK419.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000931	1,778	568070
VK455.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001191	1,778	195029
VK509.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000725	1,776	571573
VK389.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00091	1,776	538027
VK487.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000722	1,775	663326
VK122.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002116	1,774	46315
VK90.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005797	1,773	4945
VK155.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,004179	1,77	11704
VK555.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000727	1,769	518633
VK516.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000692	1,769	577938
VK524.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003467	1,769	16801
VK64.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000759	1,769	366902
vik_gtm127.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,006314	1,768	4646
VK157.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003754	1,766	12542
VK133.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,002807	1,765	18382
VK178.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002335	1,765	36970
vik_gtm021.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000831	1,765	295353
VK289.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00098	1,764	267101
VK526.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003343	1,764	18473
VK398.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003389	1,764	15517
VK29.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001775	1,763	68360
VK102.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00066	1,762	738773
VK204.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000735	1,761	499680
VK345.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00066	1,76	518003
VK405.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000828	1,76	423093
VK489.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000857	1,759	635273
VK291.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000804	1,759	435346
VK312.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001062	1,758	225163
VK464.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001422	1,758	60122
vik_2072.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003205	1,758	9506
VK259.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000875	1,758	348029
vik_gtm021.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000964	1,758	288626
VK368.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001219	1,757	173894
VK373.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000736	1,757	516472
VK252.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,02695	1,757	235
VK517.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002184	1,756	40256
VK272.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001333	1,754	142240
VK339.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,017536	1,752	594
VK165.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002228	1,752	43268

H1	H2	X	O	D	Z	#snps
VK284.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000813	1,752	430940
VK443.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001125	1,752	217890
VK335.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00092	1,751	330346
VK473.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002059	1,751	49132
VK519.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,005289	1,75	6964
VK163.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003373	1,75	11798
VK344.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002477	1,75	27080
VK60.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003201	1,75	16581
VK265.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002491	1,748	29071
VK273.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001303	1,747	149024
VK498.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002686	1,746	25473
VK529.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002226	1,746	35037
VK488.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000808	1,745	398914
VK133.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00362	1,745	13736
VK204.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000704	1,745	499963
VK430.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006529	1,745	3842
VK395.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002291	1,743	32774
VK504.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000861	1,742	368994
VK318.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,031915	1,742	188
VK323.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002071	1,742	47236
VK280.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001231	1,741	137122
VK524.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000771	1,74	509634
VK51.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000847	1,74	381112
VK23.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,0018	1,74	60138
VK542.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001981	1,74	46445
VK550.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000779	1,739	641867
VK154.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001149	1,739	224497
VK206.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,015879	1,738	719
VK15.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003683	1,738	13348
VK439.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,002236	1,737	39435
VK22.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002519	1,737	28186
VK406.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003312	1,736	15677
VK339.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,014803	1,735	805
VK138.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004902	1,732	6596
VK515.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002458	1,731	30273
VK398.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002633	1,731	26047
VK226.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,012069	1,731	1160
VK296.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00105	1,73	297954
VK504.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001286	1,729	139737
VK442.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003485	1,729	15136
VK383.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001702	1,729	33433
VK516.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002404	1,729	31853
VK420.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000742	1,728	530443
VK163.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002711	1,727	12111
VK411.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00352	1,727	14135
VK256.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00336	1,727	16171
VK19.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002166	1,727	36514
VK519.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,001045	1,726	149570
VK141.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000922	1,726	542977
VK420.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001123	1,725	199305
VK294.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000866	1,724	517675
VK220.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001734	1,724	63158
VK389.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003603	1,723	14920
VK200.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00677	1,722	3976
VK151.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002101	1,722	43829
VK280.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,004137	1,722	10152
VK262.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000907	1,722	552338
vik_97026.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001339	1,722	62624
VK386.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00353	1,721	15579
VK284.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003609	1,719	14039
VK372.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000693	1,719	577002
VK415.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001191	1,718	158727
VK266.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001304	1,718	115834
VK357.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000817	1,718	374935
VK320.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00076	1,717	481340
VK519.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003816	1,716	12469
VK155.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001313	1,716	103485
VK218.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001011	1,716	226531
VK29.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00211	1,716	39458
VK426.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,005963	1,716	3969

H1	H2	X	O	D	Z	#snps
VK440.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001949	1,715	43020
vik_urm035.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006102	1,715	5053
VK20.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000809	1,713	293233
VK461.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001193	1,712	185908
VK204.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001161	1,711	159057
VK429.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000849	1,711	728870
VK280.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001081	1,71	218786
VK431.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001963	1,71	49091
VK449.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002333	1,71	32861
VK553.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003333	1,708	15725
VK64.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00244	1,708	30562
VK328.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000883	1,707	348585
VK51.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000723	1,707	389656
VK547.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000759	1,706	654144
VK50.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,001059	1,706	223976
VK530.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003746	1,705	12813
VK468.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002095	1,704	40256
VK486.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00108	1,703	208215
VK440.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001652	1,702	50786
VK432.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001102	1,701	191606
VK172.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000912	1,7	540879
VK400.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000723	1,7	506850
VK354.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000728	1,699	374827
VK485.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002375	1,698	32806
vik_84005.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001197	1,698	170329
VK370.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003411	1,697	15466
VK48.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00316	1,697	17223
VK92.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001794	1,695	64228
VK438.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00129	1,693	154075
VK474.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002713	1,692	28442
VK306.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000919	1,69	509175
VK482.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000706	1,688	514990
VK251.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002341	1,688	35703
VK69.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002825	1,687	19383
VK127.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003816	1,687	10590
vik_stg026.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002467	1,686	31925
VK57.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001527	1,686	75567
vik_84005.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001891	1,686	50465
VK288.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000888	1,685	264443
VK174.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002121	1,684	39520
VK166.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002884	1,683	20486
VK473.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003119	1,683	16378
VK260.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000878	1,682	466462
VK494.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001542	1,682	74425
VK405.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001283	1,681	173138
VK370.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000734	1,68	556704
VK382.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002043	1,679	46956
VK512.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001161	1,679	226395
VK291.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000679	1,678	518891
VK442.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000824	1,678	347320
VK42.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001052	1,678	247938
VK203.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000693	1,677	530724
VK287.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001548	1,675	81415
VK338.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002847	1,675	18059
VK30.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001084	1,675	239044
VK164.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,04359	1,674	65
VK206.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003302	1,672	7348
VK421.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002952	1,672	10884
VK459.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00339	1,671	13297
vik_stg020.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003729	1,671	11823
VK463.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,003039	1,67	18151
VK409.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001446	1,67	75313
VK226.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002115	1,669	25074
VK545.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001895	1,668	52855
vik_urm160.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000674	1,666	586218
VK281.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002448	1,663	30638
VK256.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000661	1,662	580267
VK258.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003389	1,661	13843
VK343.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000752	1,66	476081
VK111.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000859	1,66	488439

H1	H2	X	O	D	Z	#snps
VK257.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000656	1,659	492430
VK226.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00248	1,659	25938
VK204.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001181	1,658	171679
VK338.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002385	1,658	26765
VK484.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000829	1,656	349197
VK441.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,011472	1,655	1293
VK427.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001178	1,655	81284
VK279.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002988	1,654	19274
VK158.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002823	1,654	17289
VK551.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001821	1,653	57509
VK439.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001129	1,653	111709
VK494.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001162	1,652	114778
VK401.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003279	1,652	15554
VK175.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000691	1,651	443888
VK424.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002485	1,651	28039
VK165.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000665	1,65	523336
VK286.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004076	1,65	11634
VK347.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002781	1,65	12093
VK393.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002707	1,647	24755
VK520.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000718	1,647	539271
VK123.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002065	1,647	37655
VK520.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000635	1,646	640604
VK217.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001271	1,646	86517
VK253.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,004012	1,646	6242
VK539.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000659	1,645	629567
VK359.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,009439	1,644	1651
VK333.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001174	1,644	150885
VK395.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002537	1,644	27229
VK394.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002127	1,643	35143
VK328.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000846	1,638	543637
VK546.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001686	1,638	62391
VK320.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00261	1,638	26178
VK261.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003437	1,637	14110
VK520.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001894	1,636	51820
VK449.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000741	1,636	586709
VK170.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001941	1,635	44956
VK325.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00421	1,634	9600
VK230.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002862	1,634	19364
VK546.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001705	1,631	63868
VK312.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001546	1,631	79448
VK434.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001085	1,631	152065
vik_gtm021.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000744	1,627	295565
VK460.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005812	1,626	5276
VK18.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000934	1,625	249006
VK554.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00083	1,624	472210
VK216.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,008107	1,624	1984
VK343.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002594	1,624	25769
VK433.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000805	1,624	689508
VK216.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00455	1,623	6740
VK340.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,001292	1,623	105418
VK292.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001346	1,623	72067
VK386.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00176	1,623	53613
VK263.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000681	1,623	576721
VK108.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000755	1,623	356271
VK51.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000767	1,622	380787
VK319.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001454	1,621	87731
VK506.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000659	1,62	547095
VK547.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001031	1,62	245334
VK434.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002984	1,619	17287
VK232.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001631	1,617	66971
VK144.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00684	1,615	3119
VK175.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002536	1,614	24645
VK204.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000792	1,612	488699
VK367.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000628	1,612	505734
VK156.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002078	1,61	40376
VK494.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002234	1,61	37678
VK504.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000695	1,609	437411
VK453.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001411	1,609	77530
VK48.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000975	1,609	176637

H1	H2	X	O	D	Z	#snps
VK504.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000697	1,608	437675
VK287.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004393	1,608	8404
VK457.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,003364	1,608	12734
VK462.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002736	1,608	20410
VK226.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001806	1,607	25802
VK482.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002402	1,606	28588
VK414.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000633	1,606	564929
VK201.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001119	1,604	177826
VK254.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000956	1,604	320627
VK144.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001325	1,603	66837
VK320.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001746	1,601	54739
VK434.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000843	1,601	178718
VK269.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001648	1,6	47901
VK452.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000978	1,6	163006
VK215.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001372	1,599	52165
VK204.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000726	1,599	420082
VK260.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00112	1,599	148363
VK167.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00082	1,597	468592
VK411.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002545	1,597	14044
VK428.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,004792	1,597	7008
VK285.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000907	1,596	224642
VK422.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002255	1,595	29345
vik_2072.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,00671	1,595	2844
VK350.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,0011	1,594	168789
VK20.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002479	1,594	24574
VK511.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000752	1,593	630164
VK296.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001382	1,592	102411
VK481.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002318	1,592	27461
VK64.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002628	1,592	20576
vik_stg020.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000999	1,591	138774
VK111.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001789	1,591	46542
VK33.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002888	1,59	19163
VK325.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000754	1,589	345520
VK339.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002797	1,589	10139
VK127.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000898	1,589	242205
VK40.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000788	1,589	657583
VK411.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003034	1,588	13634
VK15.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000872	1,585	478812
VK542.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000747	1,585	356885
VK382.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001802	1,584	39969
VK39.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001643	1,584	57126
VK431.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001179	1,581	111721
VK98.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002786	1,58	19529
vik_urm160.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003083	1,578	16220
VK554.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002351	1,578	26339
VK508.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002039	1,577	35481
VK477.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001971	1,577	43876
VK110.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003123	1,577	15903
VK128.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001089	1,576	186091
VK139.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000919	1,576	214142
VK316.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00109	1,576	187650
VK330.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000813	1,576	320826
VK510.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003239	1,574	16852
VK546.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001238	1,574	63882
VK394.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002612	1,574	19426
VK322.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000782	1,573	347338
VK309.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003252	1,57	15888
VK134.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000725	1,569	349869
VK342.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000596	1,569	593145
VK454.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001839	1,568	47678
vik_gtm127.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001531	1,568	46789
VK316.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001831	1,567	47663
VK387.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001102	1,567	169721
VK280.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003065	1,566	17429
VK312.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002709	1,565	22179
VK455.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001024	1,565	211198
VK177.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00079	1,564	321667
VK281.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002835	1,564	18633
VK505.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001105	1,563	179495
VK519.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,001003	1,563	147147
VK384.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000719	1,563	462172
VK504.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000724	1,562	427268
VK464.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001541	1,562	58791

H1	H2	X	O	D	Z	#snps
VK84.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001136	1,561	146882
VK256.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001793	1,561	47817
VK262.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003013	1,561	15186
VK279.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000959	1,56	224297
VK220.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002728	1,56	18239
VK394.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003813	1,559	11714
VK373.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001105	1,558	165853
VK138.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001453	1,557	78171
VK58.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000612	1,557	758732
VK155.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000977	1,557	120543
VK435.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,010734	1,556	1180
VK165.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001069	1,555	166792
VK220.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000631	1,555	657446
VK424.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,004087	1,555	8155
VK506.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003156	1,554	15155
VK344.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000606	1,553	490055
VK338.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000871	1,552	241545
VK380.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001455	1,552	59145
VK512.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002278	1,551	30148
VK135.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004246	1,551	5858
VK290.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000687	1,549	487126
VK336.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000779	1,548	357373
VK294.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002139	1,547	28286
VK369.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002413	1,545	24036
VK56.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001788	1,545	44780
VK270.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002141	1,544	28914
VK227.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000735	1,544	263315
VK528.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001838	1,543	49412
VK427.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001075	1,542	82143
VK480.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000708	1,541	391005
vik_gtm127.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,005652	1,541	4335
VK395.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002823	1,541	16414
VK495.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001106	1,54	184603
VK479.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000993	1,54	224567
VK545.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000579	1,539	645611
VK528.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000955	1,538	194572
VK340.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002077	1,538	34545
VK200.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,015427	1,538	632
VK470.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,004643	1,538	6533
VK304.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,003064	1,538	8441
VK527.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001109	1,538	175512
VK254.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002995	1,537	14914
VK291.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001885	1,536	41643
VK92.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001608	1,536	59746
VK515.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002875	1,536	17044
VK430.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000928	1,536	133985
VK473.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001017	1,536	190173
vik_84005.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000674	1,536	520013
VK509.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002091	1,533	31608
VK208.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,006829	1,533	2709
VK395.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000677	1,533	504773
VK432.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003686	1,532	10695
VK490.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000765	1,53	475190
VK394.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000803	1,53	418908
VK259.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002203	1,529	30076
VK388.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001919	1,529	41430
VK178.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001122	1,528	141317
VK409.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,0037	1,527	9640
VK352.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000582	1,525	525588
VK212.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001404	1,525	77209
VK127.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002741	1,524	17723
VK24.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003567	1,523	9813
VK433.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002764	1,522	18902
VK388.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000637	1,522	496408
VK161.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00338	1,522	10171
VK163.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002803	1,521	11863
VK516.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002415	1,521	26744
VK371.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001232	1,52	118890

H1	H2	X	O	D	Z	#snps
VK145.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000805	1,52	334607
VK364.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002274	1,52	27957
VK220.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00173	1,519	54288
VK553.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00058	1,518	562341
VK544.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000784	1,518	608404
VK546.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,006744	1,518	2916
VK278.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002662	1,518	20602
VK491.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000741	1,517	601682
VK358.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00219	1,517	26826
vik_84001.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000582	1,517	757923
vik_kal009.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000945	1,517	136129
VK379.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,005332	1,516	4392
VK344.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002387	1,516	22794
VK520.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,0006	1,516	640996
VK461.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002836	1,515	17954
VK287.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00243	1,514	24140
VK434.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002919	1,514	14929
VK471.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000967	1,514	154716
VK224.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001905	1,514	42914
VK203.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000723	1,513	519095
VK440.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001984	1,513	32332
VK450.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00117	1,512	87568
VK338.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000838	1,511	323838
VK367.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003083	1,511	13949
VK217.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002262	1,511	28198
vik_97029.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001834	1,511	39294
VK427.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,005411	1,511	4497
VK493.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000671	1,51	560633
VK90.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001099	1,509	115584
VK335.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003118	1,509	14377
VK251.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,007889	1,508	2007
VK437.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,017713	1,508	494
VK139.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000737	1,507	253147
VK409.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001127	1,507	100416
VK509.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002866	1,506	15790
VK505.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001865	1,505	42796
VK510.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000583	1,505	614032
VK549.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000736	1,505	642657
VK35.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000717	1,503	423010
VK70.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001507	1,502	63442
VK388.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00248	1,502	23022
VK492.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000676	1,501	431714
VK550.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001967	1,5	35714
VK140.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,003486	1,5	8117
VK533.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002531	1,5	21201
VK432.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000933	1,499	164102
VK51.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000658	1,499	389986
VK555.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00247	1,496	24225
VK432.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000781	1,496	195809
VK30.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002542	1,496	20061
VK92.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000913	1,495	157360
VK469.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001153	1,495	99092
VK296.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003083	1,494	13838
vik_urm035.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001123	1,494	114635
vik_2072.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003245	1,493	9236
VK424.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00197	1,492	31979
VK442.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001041	1,491	151255
vik_KAL006.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001616	1,491	53010
VK368.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000801	1,49	547132
VK457.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000887	1,49	131934
VK491.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002228	1,488	27604
VK325.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000739	1,488	340872
VK358.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001029	1,488	156177
VK148.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,011966	1,487	773
VK288.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001173	1,487	114154
VK290.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003017	1,486	15938
VK484.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001809	1,485	44875
VK303.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001636	1,485	57310
VK440.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001385	1,484	51343

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VK471.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00103	1,484	154949
vik_2072.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,006414	1,484	3261
VK18.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001982	1,484	32326
VK542.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001079	1,484	156670
VK289.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000641	1,483	420212
VK327.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000546	1,482	532590
VK70.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000585	1,481	771122
VK383.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001479	1,48	33432
VK60.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001289	1,48	95792
VK549.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002746	1,479	17662
VK301.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003557	1,479	11200
VK458.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000923	1,479	125985
vik_97026.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001272	1,479	61492
VK539.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00156	1,479	59820
VK200.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002518	1,478	11181
VK154.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001602	1,478	57592
VK263.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002978	1,477	16089
VK387.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001648	1,477	44399
VK539.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000611	1,477	629971
VK448.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002194	1,473	31338
VK159.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002843	1,473	16709
VK134.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000665	1,472	350073
VK434.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001583	1,472	57364
VK280.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000734	1,47	216259
VK471.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000859	1,47	158400
VK479.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000576	1,47	655478
VK230.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001622	1,47	57125
VK354.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001828	1,469	35932
VK539.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001709	1,469	51691
VK122.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000593	1,469	566310
VK497.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000671	1,468	508942
VK319.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001187	1,466	102643
VK208.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,008029	1,466	2190
VK466.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000996	1,466	96381
VK324.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000744	1,466	584252
VK545.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000634	1,465	549061
VK65.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000933	1,465	164599
VK414.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001744	1,465	47589
VK138.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000958	1,461	158340
VK275.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00133	1,461	76092
VK362.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000831	1,459	236346
VK166.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000573	1,457	741170
vik_urm045.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,0025	1,457	20469
VK22.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002017	1,457	31153
VK514.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,0006	1,455	521193
VK208.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001958	1,455	29447
VK139.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00071	1,454	253297
VK138.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002948	1,453	13060
VK460.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000759	1,453	192291
VK542.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003011	1,453	15416
VK460.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000897	1,452	190195
VK395.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001679	1,452	48850
VK39.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00227	1,452	25257
VK512.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001816	1,448	36067
VK134.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001165	1,448	112079
VK295.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000843	1,448	336333
VK427.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,002095	1,448	28603
VK128.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000585	1,447	579566
VK316.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00057	1,447	584583
VK380.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,003621	1,447	8631
VK449.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000962	1,446	206670
VK212.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001479	1,446	61924
VK380.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00104	1,444	87411
VK460.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003711	1,444	8916
VK217.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00643	1,444	2890
vik_kls001.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002176	1,443	28149
VK354.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000752	1,442	366704
VK255.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,006299	1,441	2593
VK463.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001542	1,44	65803

H1	H2	X	O	D	Z	#snps
VK269.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001239	1,439	55258
VK529.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000689	1,438	630393
VK212.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000849	1,438	218756
VK160.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002122	1,438	28314
VK492.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001014	1,437	162399
VK359.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00857	1,435	1303
VK420.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000542	1,435	625534
VK290.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001729	1,435	46886
vik_84005.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002257	1,435	24254
VK422.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000769	1,434	536037
VK533.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001962	1,434	35205
vik_gtm021.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001205	1,434	95547
VK173.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000558	1,433	546847
VK452.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003466	1,433	9354
VK384.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000577	1,432	549691
VK429.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002006	1,432	33115
VK472.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,002739	1,432	16336
VK528.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00054	1,43	613741
VK383.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003626	1,429	9239
vik_stg026.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002705	1,429	17037
VK254.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000651	1,429	317327
VK325.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000773	1,428	297422
VK339.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00299	1,427	9876
VK438.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003037	1,426	12568
VK480.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003039	1,425	12751
vik_urm160.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002287	1,424	27071
VK270.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001679	1,424	28031
VK443.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002513	1,424	18905
VK225.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00384	1,424	8007
VK382.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,005469	1,422	3916
VK90.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002617	1,421	17515
VK359.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,023065	1,42	224
VK70.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000897	1,419	265847
VK448.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001531	1,419	55450
VK507.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002344	1,418	20409
VK548.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00055	1,418	748167
VK29.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001916	1,416	32885
VK48.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000744	1,415	204975
VK547.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001535	1,414	62865
VK516.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000929	1,412	185508
VK475.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001388	1,412	73491
VK466.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,004746	1,412	5373
VK389.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002233	1,411	24812
VK464.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001341	1,411	50634
VK480.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000592	1,41	457162
VK145.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002983	1,41	14331
VK143.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00071	1,408	322218
vik_urm161.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001633	1,408	42016
VK510.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000614	1,407	517770
VK494.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000916	1,407	115667
VK135.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003708	1,406	5900
VK247.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001516	1,405	34652
VK347.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,005817	1,405	3467
VK397.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000925	1,403	185468
VK278.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000798	1,402	374668
VK393.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001636	1,402	43818
VK421.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,002553	1,402	10838
VK290.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000949	1,401	184470
VK490.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001619	1,399	46491
VK364.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000557	1,398	605007
VK94.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003944	1,398	6845
VK420.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000563	1,397	610290
VK495.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000657	1,396	524238
VK174.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002073	1,396	26052
VK279.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001848	1,396	32195
VK101.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001548	1,396	49573
VK540.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001881	1,395	37041
VK441.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001946	1,394	23386
VK462.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,001112	1,393	62647

H1	H2	X	O	D	Z	#snps
VK258.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000622	1,393	424719
VK314.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001494	1,392	52740
VK336.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001539	1,391	53404
vik_2072.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,005878	1,391	3034
VK225.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000658	1,391	288972
VK460.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000864	1,39	164564
VK160.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000612	1,388	525843
VK313.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002662	1,386	16527
VK217.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003776	1,386	8409
VK225.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002881	1,386	13277
VK472.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00146	1,385	45433
vik_urm160.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000611	1,383	506923
VK460.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001457	1,382	53750
VK50.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001415	1,382	62939
VK510.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000542	1,381	613655
VK384.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000537	1,381	550000
VK393.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000652	1,381	455616
VK380.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001272	1,38	89526
VK171.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000988	1,377	71934
VK140.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,006625	1,376	2692
VK399.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00053	1,376	637326
VK456.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001516	1,374	54700
VK17.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000717	1,374	304770
vik_grt036.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001476	1,374	56126
VK153.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001498	1,373	36355
VK458.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000911	1,372	124883
VK487.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00159	1,37	54559
VK153.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001704	1,37	36058
VK442.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00219	1,369	25348
VK432.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000724	1,369	195712
VK450.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002033	1,369	25410
VK520.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000637	1,368	626198
VK434.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000804	1,368	174527
VK272.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000809	1,368	140789
VK345.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,000584	1,367	506187
VK551.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000573	1,366	596907
VK543.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001931	1,366	26927
vik_stg026.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003336	1,366	10193
VK533.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000514	1,365	779241
VK387.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000642	1,365	518996
VK308.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000589	1,365	508035
VK222.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,008697	1,364	1046
VK483.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001508	1,363	53376
VK348.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002275	1,362	22745
VK455.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001418	1,361	58493
VK471.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001134	1,361	101234
VK477.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000944	1,361	170811
VK71.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000768	1,36	137553
VK440.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,004855	1,36	4085
VK517.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00164	1,36	47866
VK353.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002756	1,359	15514
VK227.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000781	1,359	225098
VK163.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002203	1,358	12111
VK464.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,004465	1,358	4871
VK320.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00092	1,357	197376
VK274.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002007	1,355	28946
VK458.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,00175	1,355	37577
VK539.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002052	1,353	28759
VK490.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002213	1,352	22372
VK31.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002031	1,352	24039
VK298.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001317	1,351	68482
VK212.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004111	1,351	6386
vik_urm035.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00094	1,351	179471
VK312.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,001308	1,35	66680
VK366.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,0006	1,349	396369
VK232.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003067	1,349	11492
vik_84001.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001489	1,349	62228
VK278.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001148	1,348	102876

H1	H2	X	O	D	Z	#snps
VK156.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000663	1,348	412334
VK551.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,0017	1,346	38525
vik_bns023.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,00544	1,346	3860
VK455.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000932	1,345	177304
VK551.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000835	1,343	224133
VK340.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00348	1,343	10130
VK255.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001391	1,343	47737
VK160.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001401	1,342	58879
VK21.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000785	1,341	130657
VK154.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000892	1,34	242063
VK86.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003126	1,339	7050
VK323.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002582	1,338	16009
VK439.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001725	1,338	36525
VK173.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002101	1,337	25269
VK140.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,003836	1,337	6909
VK159.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,0009	1,337	148273
VK289.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001824	1,336	34366
VK363.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000917	1,336	180321
VK31.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000638	1,336	253380
VK404.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001509	1,335	49041
VK200.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002632	1,334	10969
VK456.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001598	1,334	46518
vik_kls001.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001285	1,334	64565
VK258.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000539	1,333	496576
VK204.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001978	1,331	27215
VK265.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000644	1,331	339778
VK506.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000594	1,329	466178
VK484.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000531	1,328	546712
VK319.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002592	1,328	17585
VK263.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000607	1,328	492725
VK216.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,003659	1,327	8221
VK316.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002558	1,327	16386
VK408.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001022	1,327	106063
VK223.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000834	1,325	248207
VK349.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000678	1,324	551658
VK144.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001492	1,324	43448
VK355.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002142	1,322	24314
VK352.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002072	1,322	24418
VK111.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002819	1,322	13630
VK419.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000903	1,321	180812
VK352.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000594	1,321	448570
VK429.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002357	1,321	19972
VK470.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,007496	1,321	1623
VK295.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00078	1,32	211826
VK316.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000592	1,32	495740
VK450.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003675	1,32	7597
VK481.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000912	1,318	206063
VK70.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001526	1,318	42334
VK65.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002714	1,317	14219
VK347.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00299	1,317	12150
VK454.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000828	1,317	145720
VK479.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000597	1,317	640676
VK334.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000743	1,317	329938
VK139.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000682	1,316	247219
VK425.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005833	1,316	2486
VK489.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001453	1,315	52134
VK477.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000603	1,314	453407
VK53.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002234	1,314	20813
VK284.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000513	1,313	512727
VK524.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001555	1,313	48769
VK327.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00268	1,313	14927
VK34.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00143	1,312	51988
VK379.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00123	1,311	51795
VK223.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000701	1,311	219677
vik_kal009.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003665	1,311	7571

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vik_stg020.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,00086	1,311	136607
VK99.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001617	1,311	39639
VK101.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000661	1,31	597276
VK515.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001065	1,309	118067
VK533.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001407	1,308	63070
vik_2072.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003734	1,308	6931
VK150.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000945	1,307	142487
VK370.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001539	1,307	45490
VK440.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001419	1,307	50245
VK481.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002552	1,306	16458
VK322.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001553	1,306	44905
vik_84035.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002544	1,305	14612
VK533.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000511	1,305	778708
VK478.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000889	1,304	213303
vik_84001.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001805	1,303	34627
VK261.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001635	1,302	42467
VK366.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001011	1,301	127249
VK548.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002306	1,3	20708
vik_grt035.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000775	1,3	239989
vik_gtm021.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000657	1,299	288323
VK515.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000657	1,298	312802
VK498.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000505	1,297	550653
VK291.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000951	1,297	178208
vik_stg020.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003831	1,297	6417
VK401.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000527	1,297	556906
VK354.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000594	1,295	366010
VK353.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000905	1,295	156042
vik_97002.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003804	1,294	7141
VK505.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002158	1,292	23979
VK143.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002668	1,292	13992
VK320.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000493	1,291	573611
VK479.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000828	1,291	207788
VK319.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002442	1,29	15081
VK366.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000682	1,29	387618
VK411.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,00292	1,29	11472
VK449.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000546	1,29	585780
VK14.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001083	1,286	114962
VK481.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000557	1,284	506460
VK543.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002185	1,284	22536
VK380.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001862	1,284	26519
VK467.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,005588	1,284	2714
VK455.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00166	1,282	33531
VK219.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000513	1,282	614495
VK20.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000641	1,282	286391
VK102.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000803	1,282	236499
VK177.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000657	1,281	505444
VK346.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001953	1,281	26066
VK288.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000698	1,28	420228
VK446.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000879	1,28	197672
VK461.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000691	1,28	183778
VK458.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005097	1,279	3662
VK546.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002328	1,278	18954
VK417.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000522	1,277	540608
VK420.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001906	1,277	28676
VK366.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002301	1,277	18032
VK296.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001829	1,276	28519
VK165.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000532	1,275	522973
VK156.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000606	1,275	411425
VK63.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002837	1,274	11484
VK417.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001415	1,273	52110
VK308.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001458	1,273	48998
vik_97026.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,005527	1,272	2925
VK31.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002573	1,272	14152
VK272.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005058	1,271	3938
VK504.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000655	1,27	428014
VK225.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000704	1,27	243732
VK33.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000631	1,268	360072
VK400.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000593	1,268	433304
VK359.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00336	1,266	4666
VK315.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003155	1,266	9456
VK145.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000951	1,265	146927
VK477.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000909	1,265	184443

H1	H2	X	O	D	Z	#snps
VK285.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003145	1,264	9937
VK346.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002539	1,264	15656
VK108.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001573	1,264	39636
VK148.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003185	1,263	8870
VK272.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000879	1,263	120940
VK133.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,003437	1,262	7517
VK172.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00201	1,262	24879
VK127.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001657	1,262	31074
VK466.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,004148	1,262	4460
VK206.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,003386	1,261	6262
VK53.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001427	1,261	42032
VK174.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,0009	1,26	152372
VK454.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000859	1,26	171662
VK466.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000857	1,26	96322
VK407.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003045	1,26	8868
VK363.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001965	1,259	25948
VK363.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002456	1,258	15713
VK363.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000877	1,256	163297
VK367.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000587	1,256	494659
VK304.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002856	1,256	8206
VK110.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001887	1,256	26456
VK443.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001439	1,255	55653
VK284.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000892	1,254	175911
VK154.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000469	1,253	700736
VK253.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,006032	1,253	1865
VK371.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00229	1,251	17143
VK291.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002002	1,25	23563
VK367.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002016	1,25	23191
VK95.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000489	1,25	572621
VK550.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002437	1,248	18087
VK488.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001916	1,247	25879
VK342.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000567	1,247	579847
VK94.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,004573	1,247	4665
VK477.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001994	1,247	24572
vik_nuf002.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001027	1,247	128004
vik_grt036.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000505	1,247	688624
VK420.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001378	1,246	51566
VK135.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,004602	1,246	3854
VK71.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000952	1,244	138750
VK516.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000572	1,244	489981
VK261.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000645	1,244	515006
VK430.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001456	1,243	44014
VK405.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002607	1,243	13999
VK505.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000572	1,24	442238
VK50.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001426	1,24	41477
VK226.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,006128	1,24	2067
VK367.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000513	1,239	493744
vik_grt035.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001524	1,239	41232
VK462.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000993	1,239	63569
VK471.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000966	1,239	158427
VK495.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001533	1,238	43754
VK336.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001893	1,238	25746
VK157.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001481	1,238	43770
VK415.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001778	1,236	30882
vik_KAL006.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000868	1,235	167337
VK225.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000632	1,234	282186
VK154.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002285	1,233	19365
vik_kls001.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001073	1,233	102219
VK269.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001052	1,232	55805
VK285.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000685	1,232	359294
VK454.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002531	1,232	14123
VK259.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001989	1,232	25185
VK407.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000861	1,232	159144
VK510.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000563	1,231	599877
VK269.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001373	1,231	55796
VK420.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000473	1,23	625131
VK478.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000843	1,23	197280
VK408.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00276	1,23	11865
VK63.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003438	1,229	7442
VK555.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002481	1,228	14545
VK247.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,005253	1,227	3062

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VK479.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000475	1,227	655873
vik_84001.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00222	1,227	20904
VK205.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00247	1,226	14913
VK201.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002472	1,226	15336
VK493.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001349	1,226	54102
VK553.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000551	1,226	479941
VK483.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001794	1,226	29814
VK461.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002403	1,226	14911
VK475.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002124	1,226	21224
VK386.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000485	1,225	562648
VK400.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00175	1,225	28193
VK406.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000467	1,224	564333
VK441.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002195	1,223	15265
VK63.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,0015	1,223	43958
VK323.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000454	1,222	577457
VK468.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000789	1,22	234084
VK64.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000509	1,22	370633
VK269.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,004044	1,219	4678
VK427.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00104	1,219	69466
VK98.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00075	1,219	224484
VK284.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001747	1,217	28137
VK347.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003216	1,217	7763
VK459.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001653	1,217	38760
vik_urm045.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001989	1,217	23253
VK517.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000512	1,217	491525
VK415.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00048	1,216	558490
VK108.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002114	1,216	19193
VK476.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,0036	1,215	6620
VK333.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001857	1,214	25038
VK352.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000819	1,214	169207
VK507.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00262	1,213	12437
VK372.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000547	1,213	491560
VK485.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,0005	1,212	400172
VK528.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001351	1,212	58461
VK287.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001094	1,211	104021
VK421.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002293	1,211	10668
VK401.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000819	1,211	179101
VK361.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000631	1,209	351128
VK200.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,002168	1,208	11150
VK174.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000544	1,207	404989
VK553.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001699	1,206	31000
VK289.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000916	1,206	135258
VK200.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00489	1,206	3255
VK139.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002446	1,203	14035
VK369.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000624	1,202	522461
VK397.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000549	1,202	492824
VK394.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001428	1,201	40204
VK433.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001667	1,201	31493
VK437.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,002252	1,201	14538
VK438.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000791	1,201	150875
VK148.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001321	1,2	27789
VK426.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00084	1,2	86908
VK528.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000457	1,199	614068
VK414.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00127	1,199	54314
VK466.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,005845	1,199	2609
VK204.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000529	1,197	487635
VK313.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000826	1,196	205497
VK371.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000546	1,196	372778
VK148.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,001993	1,196	22917
vik_nuf002.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001624	1,196	36845
VK443.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001462	1,195	37553
VK157.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000469	1,195	458269
VK396.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001704	1,195	29826
VK527.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001386	1,194	48646
VK133.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,003419	1,193	6337
VK462.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001116	1,193	53634
VK203.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000497	1,192	531022
VK512.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000465	1,192	659638
VK483.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000447	1,191	653712
VK315.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000698	1,191	336540
VK364.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000822	1,191	209866

H1	H2	X	O	D	Z	#snps
VK386.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000797	1,19	178931
vik_97026.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001119	1,19	60886
VK409.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000782	1,189	117602
VK291.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000479	1,188	518597
VK63.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000707	1,186	134160
VK386.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00052	1,185	549090
VK217.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000885	1,185	100035
VK384.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000508	1,184	536276
vik_urm161.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00125	1,184	65845
VK413.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003723	1,183	5931
VK24.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001611	1,183	33369
VK552.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000462	1,182	585819
VK166.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001675	1,182	33890
VK455.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002225	1,182	16889
VK217.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,001723	1,182	29700
VK253.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003963	1,182	4188
VK218.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000982	1,182	98867
VK486.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000508	1,181	553812
VK366.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000536	1,181	396122
VK457.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00072	1,181	133273
vik_urm035.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002261	1,18	17474
VK319.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001816	1,178	26247
VK29.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000776	1,178	216022
VK427.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001104	1,178	82128
VK509.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000789	1,177	183939
VK554.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000866	1,177	141868
VK140.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,002435	1,177	8349
VK220.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000531	1,177	561655
VK297.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002825	1,176	10560
VK492.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002377	1,176	13955
VK386.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000459	1,176	562998
VK330.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002379	1,176	13908
VK23.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001136	1,174	68361
VK387.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000516	1,173	453630
VK300.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000599	1,172	292074
VK530.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000859	1,172	147055
VK449.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001757	1,172	27316
VK509.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001737	1,171	26431
VK427.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003408	1,171	6846
VK419.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002333	1,169	15610
VK504.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001492	1,169	35908
VK149.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003267	1,169	5250
VK151.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001315	1,169	50626
VK139.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001873	1,169	24334
VK343.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001275	1,169	53860
VK453.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00143	1,169	38802
VK395.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000831	1,169	189431
VK225.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001877	1,169	23667
VK495.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000495	1,168	523389
VK300.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002169	1,168	16562
VK156.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000883	1,168	134446
VK396.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000832	1,168	173570
VK172.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001397	1,167	44920
VK515.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001983	1,167	20255
VK324.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001533	1,167	31965
VK371.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000608	1,166	313811
VK445.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000481	1,166	578947
VK92.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00061	1,163	186228
VK64.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002843	1,163	10111
VK554.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000814	1,162	166677
VK274.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000593	1,162	638042
VK426.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000792	1,162	87760
VK22.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001033	1,161	96040
VK123.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00194	1,161	20920
VK34.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001329	1,16	44271
VK30.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000654	1,158	204405
VK30.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000578	1,158	236878
VK397.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001334	1,158	47959
VK425.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00115	1,157	56124

H1	H2	X	O	D	Z	#snps
VK512.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001266	1,156	53852
VK290.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001852	1,156	26506
VK455.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001598	1,154	28061
VK494.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000725	1,153	117539
VK494.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002614	1,153	11287
VK427.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000919	1,153	80235
VK359.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00451	1,152	3012
VK252.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,008979	1,152	761
VK514.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00164	1,151	28869
VK86.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002384	1,151	7103
VK466.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001098	1,151	61928
VK448.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000745	1,148	217617
VK17.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000548	1,148	304261
VK147.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000465	1,146	444464
VK141.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002339	1,146	14965
VK487.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001435	1,145	36476
VK269.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,002151	1,145	16695
VK48.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00066	1,145	202106
VK225.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000952	1,145	92042
VK140.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,005	1,144	2900
VK482.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000548	1,143	438864
VK22.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002857	1,143	9187
VK383.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001345	1,142	32359
vik_stg026.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00047	1,141	367084
VK170.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000522	1,14	537747
VK147.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001938	1,14	20593
vik_2072.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002372	1,139	9311
VK207.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000624	1,137	381286
VK289.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002635	1,136	11763
VK141.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001395	1,135	44458
VK353.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000549	1,135	357466
VK300.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002325	1,134	13797
VK64.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000928	1,134	128052
VK427.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00295	1,134	7854
VK484.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002255	1,133	15224
VK514.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000786	1,133	180223
VK370.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001755	1,133	25600
vik_97026.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,004665	1,133	3394
VK399.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000721	1,133	204332
VK357.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000535	1,133	589126
VK507.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000801	1,132	142047
VK524.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000443	1,131	608675
vik_97026.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001976	1,131	18594
VK494.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000716	1,13	117480
VK313.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003709	1,129	5707
VK166.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000703	1,128	237021
VK284.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000459	1,128	512440
VK456.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000446	1,128	574507
VK129.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000735	1,124	219633
VK217.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003974	1,124	4739
VK301.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000627	1,123	403258
VK275.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000667	1,123	279377
VK439.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003446	1,123	6311
VK146.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002141	1,122	14830
VK217.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001531	1,122	32597
VK309.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000579	1,122	198198
VK161.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003885	1,122	5170
VK328.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001302	1,121	45303
VK247.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001313	1,121	34433
VK419.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00047	1,12	562291
VK122.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000746	1,12	181996
VK269.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000934	1,119	55767
VK282.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003065	1,119	7639
VK445.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000755	1,119	186093
VK340.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000627	1,117	264138
VK430.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000791	1,117	132423
VK462.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001959	1,117	22034
VK427.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,004316	1,117	3881
VK346.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000531	1,116	361576
VK373.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002272	1,115	14305
VK51.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001486	1,115	35285
VK483.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001433	1,114	35659
VK156.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000483	1,114	421411
VK366.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001861	1,113	21713
VK304.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003549	1,113	5350

H1	H2	X	O	D	Z	#snps
VK253.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,020833	1,112	184
VK292.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001071	1,111	74228
VK207.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002115	1,111	17612
VK481.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000425	1,109	599460
vik_stg026.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000913	1,109	126719
VK459.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000876	1,109	137352
VK539.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000467	1,109	614366
VK359.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,003241	1,108	4570
VK437.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002364	1,108	10892
VK108.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000452	1,108	415855
VK50.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,00041	1,107	753842
vik_gtm021.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002289	1,107	13580
VK407.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000827	1,107	100685
VK258.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00162	1,106	27310
VK410.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001543	1,106	32934
VK483.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000738	1,105	189838
VK528.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000478	1,105	600037
VK140.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,002366	1,105	8341
vik_urm161.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000926	1,103	65168
VK158.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00157	1,102	22775
VK334.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000625	1,102	210562
VK410.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002654	1,102	9199
VK496.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001245	1,101	55153
VK22.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002821	1,101	8419
VK395.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001176	1,101	56766
VK456.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000489	1,1	481894
VK215.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002243	1,097	14752
VK409.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00147	1,097	32860
VK437.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001543	1,096	17242
VK441.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001374	1,096	23949
VK308.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001614	1,096	27570
VK110.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001526	1,096	31665
VK296.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002008	1,095	16431
VK165.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000782	1,095	154157
VK212.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001084	1,095	72053
VK289.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000539	1,093	356230
VK48.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001102	1,092	66530
VK102.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000456	1,092	639551
VK201.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000775	1,091	192151
VK487.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000488	1,091	565345
VK212.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00207	1,091	18196
VK481.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000451	1,089	585110
VK219.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001605	1,089	28409
VK488.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002398	1,088	12999
VK318.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,009314	1,088	680
VK438.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000621	1,088	152525
VK34.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001782	1,088	24882
VK552.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001267	1,087	48262
VK435.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001587	1,087	26223
VK203.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000758	1,085	168571
VK504.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000871	1,085	150758
VK481.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000394	1,084	599825
VK176.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001164	1,084	57970
VK421.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,007383	1,083	1061
VK31.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002355	1,083	11679
VK481.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001253	1,08	48930
VK298.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000603	1,08	210242
VK419.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001241	1,079	46741
VK267.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002245	1,079	12100
VK257.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001458	1,079	40798
VK148.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,006934	1,076	1286
VK323.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000442	1,075	563327
VK160.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000758	1,075	211971
VK95.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000733	1,074	186150
VK485.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002443	1,073	11084
VK320.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001512	1,073	31299
VK478.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000503	1,073	606902
vik_gtm127.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,002086	1,073	16336
VK153.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001067	1,072	37062
VK35.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000778	1,071	171709
VK474.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000682	1,07	198445
VK358.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00043	1,069	485080

H1	H2	X	O	D	Z	#snps
VK413.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001376	1,069	20883
VK323.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000413	1,068	577083
VK156.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000459	1,068	421637
vik_97026.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00634	1,068	1722
VK21.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00084	1,068	96691
VK158.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001376	1,067	26186
VK224.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000584	1,067	151773
VK269.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001389	1,066	35823
VK449.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001257	1,066	48939
VK260.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002366	1,064	12819
vik_kal009.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000643	1,064	137730
VK424.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000885	1,064	99710
VK312.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000545	1,063	226386
VK135.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,015201	1,063	307
VK422.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000735	1,063	170774
vik_97026.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001822	1,063	20538
VK315.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00048	1,062	332635
VK164.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,006565	1,062	1046
VK270.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001245	1,061	28160
VK135.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,003205	1,06	5158
vik_grt035.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000398	1,06	750990
VK396.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000449	1,06	538998
VK147.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001687	1,059	24305
VK437.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,003288	1,059	5982
VK272.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001242	1,059	45609
VK487.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001108	1,057	63790
VK492.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000416	1,057	508889
VK483.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000407	1,057	653317
vik_KAL006.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000496	1,057	407252
VK552.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001967	1,056	16313
VK477.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00043	1,056	537452
VK470.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,003201	1,056	6951
VK509.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00048	1,054	488202
VK251.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001139	1,054	35395
VK452.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002191	1,054	14070
VK461.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000661	1,054	156296
VK20.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000864	1,054	101690
VK507.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000513	1,053	377076
vik_stg021.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000397	1,053	750433
VK225.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002022	1,053	15786
VK363.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000413	1,052	561533
VK398.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00125	1,052	46470
VK364.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000687	1,051	193956
VK452.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001093	1,051	57627
VK493.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000409	1,05	663461
VK313.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001042	1,05	65487
VK35.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000449	1,05	494243
VK333.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000524	1,049	345688
vik_97029.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001061	1,049	52623
VK316.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001441	1,048	32337
VK334.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001954	1,048	18043
VK128.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000762	1,046	201364
VK64.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000538	1,046	362582
VK309.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003641	1,046	5631
VK318.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,009429	1,045	654
VK472.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,003498	1,045	4574
VK155.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001335	1,045	39214
VK335.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001467	1,044	28296
VK15.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001572	1,044	26181
VK294.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001285	1,043	41644
VK140.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,003271	1,043	5461
VK20.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002668	1,043	8216
VK170.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00169	1,042	25148
VK42.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000418	1,042	777458
VK546.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00086	1,041	63339
vik_kal009.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00138	1,041	37560
VK369.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000725	1,04	165494
VK304.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002047	1,04	8441
VK160.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001388	1,04	33922
VK161.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,003224	1,04	5479

H1	H2	X	O	D	Z	#snps
VK546.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003231	1,039	5622
VK366.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00051	1,039	386726
VK304.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002443	1,038	8180
VK317.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000758	1,037	149623
VK441.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003222	1,037	6595
VK458.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001213	1,037	44574
VK57.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004374	1,037	3315
VK253.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002174	1,037	6362
VK540.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00044	1,037	451254
VK340.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000481	1,036	350958
VK267.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00091	1,036	42603
vik_84001.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000618	1,036	242029
VK90.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000716	1,035	181131
VK284.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000514	1,035	501146
VK515.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000454	1,035	369766
VK504.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000791	1,033	127339
VK512.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000392	1,033	660032
VK402.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000673	1,033	209164
VK406.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00165	1,033	26005
VK24.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001325	1,032	38173
VK426.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000821	1,032	74755
VK333.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000513	1,031	543576
VK437.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,0015	1,031	17232
VK383.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001353	1,03	33617
VK163.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002332	1,03	12183
VK254.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001871	1,03	17684
VK226.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001511	1,03	21868
VK385.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000712	1,029	196178
VK170.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000448	1,029	536636
VK110.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001233	1,029	47116
VK58.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000436	1,027	648554
VK493.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00134	1,024	36073
VK448.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000407	1,024	679140
VK145.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00054	1,024	525168
VK227.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000586	1,023	260235
VK134.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001359	1,022	33302
VK409.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003349	1,022	5624
VK206.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,002348	1,021	7193
VK140.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,002322	1,02	8163
vik_urm161.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003398	1,02	5420
VK512.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000459	1,019	644739
VK371.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000441	1,017	373011
VK232.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001915	1,017	16925
VK226.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002604	1,017	8226
VK483.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000464	1,015	638678
VK319.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00063	1,015	202471
VK384.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000474	1,015	537461
VK127.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000552	1,014	383464
VK478.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001346	1,014	33877
VK48.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000674	1,014	206968
VK526.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000649	1,012	212758
VK153.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001512	1,012	24080
VK254.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000819	1,012	102886
VK420.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000466	1,011	611184
vik_97026.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001198	1,011	41634
VK16.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00204	1,011	15238
VK533.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000469	1,01	760622
VK58.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000634	1,01	242469
VK35.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001302	1,01	40911
VK300.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00158	1,009	23949
VK141.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000407	1,009	537166
VK397.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000396	1,008	577164
VK357.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001521	1,008	27170
VK525.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001275	1,007	40642
VK92.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000643	1,006	182314
VK318.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00897	1,006	799
VK317.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001212	1,006	44405
VK520.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001798	1,006	17608
VK318.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,016243	1,005	236
VK478.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000407	1,004	620750
VK435.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,004874	1,003	2274
VK514.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000704	1,002	168656
VK530.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000416	1,002	458013
VK457.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004017	1,002	3651

H1	H2	X	O	D	Z	#snps
VK477.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000391	1,002	537775
VK479.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001308	1,002	35754
vik_stg020.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001151	1,002	45386
VK15.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001284	1,002	39122
VK21.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000615	1,002	128620
VK306.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001654	1,001	23183
VK269.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,004134	1	3044
VK34.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00042	1	539691
VK509.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000712	0,999	198778
VK452.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000757	0,999	137583
VK396.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001996	0,998	15112
VK410.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004674	0,998	2692
VK425.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,0008	0,997	74613
VK296.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00089	0,996	95531
VK289.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001752	0,996	19455
VK140.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,008449	0,996	720
VK266.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001234	0,996	39506
VK510.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000408	0,995	598892
VK69.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000713	0,995	137180
VK332.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00143	0,995	27803
vik_bns023.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001839	0,995	12899
VK221.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000394	0,994	667038
VK135.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002272	0,994	6071
VK202.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002106	0,994	14600
VK34.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000691	0,994	173445
VK489.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000652	0,993	202128
VK134.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000489	0,993	341597
VK550.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001029	0,992	62527
VK92.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001957	0,992	15245
VK201.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00134	0,991	30656
VK335.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001489	0,989	23898
VK325.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001867	0,988	16339
vik_gtm127.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,007524	0,988	1329
VK406.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000624	0,988	181208
VK409.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00401	0,988	3387
VK440.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000899	0,987	51373
VK414.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001583	0,987	26271
VK404.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000384	0,987	590047
VK461.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000527	0,986	185958
VK481.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000462	0,985	586128
VK481.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001036	0,985	57097
VK308.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000388	0,985	604383
VK255.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000841	0,984	55504
VK287.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000843	0,983	96189
VK443.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000417	0,982	578602
vik_84001.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000413	0,981	645828
VK313.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001032	0,98	55709
VK51.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001208	0,98	37038
vik_stg020.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000767	0,98	102521
VK382.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,004768	0,979	2552
VK319.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002429	0,979	8953
VK526.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000401	0,979	663862
VK206.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,004807	0,979	2583
VK203.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000432	0,978	517872
VK369.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001215	0,977	41690
VK320.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000368	0,976	573952
VK478.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000388	0,975	621151
VK154.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001163	0,975	38488
VK426.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000909	0,974	87779
VK426.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002757	0,974	7346
VK480.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000705	0,973	159021
VK492.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000391	0,973	508554
VK170.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000381	0,973	550380
VK163.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001683	0,973	12059
VK175.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001218	0,973	42881
VK178.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001824	0,973	20376
VK208.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002088	0,972	12811
VK133.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001324	0,972	21480
VK431.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000688	0,972	175666
VK224.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002621	0,972	7409
VK487.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001383	0,971	30489
VK108.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000719	0,971	133092

H1	H2	X	O	D	Z	#snps
VK33.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001273	0,971	35603
VK361.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000507	0,97	557006
VK510.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000679	0,969	210821
VK156.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001518	0,969	22941
VK409.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001266	0,969	41141
VK437.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,006373	0,968	1386
VK208.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001091	0,967	47113
VK280.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000906	0,967	75329
VK344.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000679	0,966	158246
VK524.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000619	0,966	193058
VK33.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000704	0,966	133418
VK383.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001409	0,964	21201
VK232.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000502	0,964	208709
VK290.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001047	0,963	55655
VK253.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002482	0,963	6216
VK272.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000573	0,963	142203
VK419.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000664	0,962	195165
VK392.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000401	0,962	499746
VK430.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002463	0,962	7512
VK98.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000371	0,961	698615
VK511.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00066	0,96	221222
VK473.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000672	0,96	205253
VK473.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000361	0,96	592071
VK324.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001826	0,96	16019
vik_kal009.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003948	0,96	3799
VK206.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002559	0,959	7392
VK342.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000391	0,959	578907
VK204.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001129	0,958	47703
VK24.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000622	0,958	117398
VK206.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,002087	0,957	7390
VK16.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000771	0,957	101496
VK498.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000642	0,956	177387
VK425.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000628	0,956	87721
VK133.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001393	0,955	21195
VK220.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000624	0,955	210806
VK328.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001496	0,954	24906
VK393.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000395	0,954	535141
VK263.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001032	0,954	55544
VK544.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000614	0,952	193091
VK269.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000957	0,952	54560
VK507.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000728	0,95	153879
VK460.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,0005	0,949	194261
VK487.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000618	0,948	229844
VK60.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000433	0,948	296123
vik_97002.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000991	0,947	57078
VK108.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000395	0,946	415603
VK417.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000421	0,945	532141
VK520.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000406	0,945	624844
VK123.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000492	0,945	454507
VK355.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000485	0,944	534133
VK143.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001511	0,944	23331
VK174.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000459	0,944	465825
VK48.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003092	0,944	5687
VK548.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000604	0,942	238909
VK533.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000385	0,942	759077
VK309.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001769	0,942	19082
VK203.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001366	0,941	29152
VK284.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00042	0,941	500181
VK479.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000387	0,941	639428
VK403.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000611	0,941	193947
VK417.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000648	0,94	162652
VK63.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001895	0,94	12971
VK171.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000757	0,94	71079
VK160.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000626	0,938	197768
VK493.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000597	0,937	210705
VK339.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,002102	0,937	8646
VK84.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001057	0,937	49417
VK134.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000494	0,937	296316
VK512.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000598	0,935	209304
VK289.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001481	0,935	23355
VK460.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000922	0,935	62529
VK176.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000447	0,934	709440
VK400.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001152	0,933	41808
VK546.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001032	0,932	46637
VK428.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003724	0,932	3558
VK282.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000461	0,931	271563
VK362.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002252	0,931	10286

H1	H2	X	O	D	Z	#snps
VK224.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000715	0,931	99459
vik_grt036.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001317	0,931	31697
VK265.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001929	0,93	14732
VK415.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00184	0,929	15489
vik_grt035.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001	0,929	61692
VK56.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000536	0,929	387161
VK424.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000865	0,929	63668
VK355.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001169	0,928	43777
VK322.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000469	0,927	547292
VK389.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000627	0,926	171940
VK457.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000554	0,926	133348
VK253.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001905	0,926	6362
VK148.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001048	0,925	27770
VK160.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000364	0,925	619365
VK230.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000355	0,925	699144
VK139.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002667	0,924	6936
VK452.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000567	0,924	162056
VK470.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001302	0,924	20088
VK164.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,005375	0,923	1210
VK456.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000358	0,922	574180
VK222.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	0,021407	0,922	109
VK371.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000744	0,921	128209
VK401.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001383	0,921	25858
VK71.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002075	0,92	12051
vik_bns023.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,003224	0,919	4678
VK510.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001064	0,918	49990
VK555.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00042	0,918	443016
VK350.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000451	0,918	387278
vik_stg020.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003705	0,918	3801
VK170.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000374	0,917	550060
VK370.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00045	0,917	472447
VK110.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000486	0,917	576246
VK206.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001915	0,916	7393
VK516.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001006	0,916	55579
vik_2072.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,002193	0,916	8209
vik_kls001.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003217	0,916	4637
VK539.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000417	0,916	615562
VK514.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000428	0,915	452716
VK285.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001349	0,915	28421
VK335.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001068	0,915	42848
VK99.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002065	0,915	12147
VK166.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000896	0,913	70786
VK258.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000647	0,913	159659
VK278.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001294	0,911	30195
VK19.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000689	0,911	123236
VK48.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002155	0,91	9588
VK19.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000378	0,91	382048
VK87.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000427	0,909	442634
VK467.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,008202	0,909	508
VK507.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001237	0,908	36526
VK519.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,001086	0,907	43881
VK320.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000379	0,906	559701
VK252.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,00489	0,906	1977
VK425.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000652	0,906	85708
vik_urm035.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001003	0,906	49835
VK291.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001926	0,904	14321
vik_stg026.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000446	0,904	322407
VK425.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000844	0,904	72208
VK551.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000329	0,903	707605
VK327.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000622	0,902	171263
VK263.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001282	0,902	31724
VK23.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001911	0,902	11684
VK385.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001166	0,901	33810
VK228.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,000972	0,901	32446
VK504.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00111	0,9	41881
VK141.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001494	0,899	24768
VK365.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001434	0,898	23892
VK462.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000797	0,898	61627
VK40.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001343	0,898	29851
VK297.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001611	0,897	17635
VK206.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,002853	0,897	6076

H1	H2	X	O	D	Z	#snps
VK450.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,000653	0,897	88104
VK24.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000579	0,897	116421
VK345.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000662	0,896	144695
VK372.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000364	0,896	583415
VK413.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,005381	0,896	1750
VK385.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001043	0,895	50109
VK168.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000458	0,895	542907
VK288.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001201	0,895	33793
VK292.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001485	0,895	23686
VK216.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00166	0,894	15489
VK122.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001429	0,894	26130
VK98.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000951	0,894	59517
VK135.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,00301	0,892	4928
VK359.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,003181	0,891	4690
VK441.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001542	0,89	17581
vik_gtm021.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000572	0,89	248935
VK256.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000395	0,889	496198
VK223.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001989	0,889	11606
VK554.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000373	0,888	475870
VK155.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,00116	0,888	36051
VK496.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000581	0,887	232315
VK165.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000391	0,887	510655
VK254.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000749	0,887	110170
VK309.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000631	0,887	125706
VK505.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000356	0,886	521904
VK23.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000907	0,886	73037
VK371.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000466	0,885	364622
VK148.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001259	0,884	23651
VK264.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001853	0,884	13623
vik_stg021.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000574	0,884	258728
VK24.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000717	0,884	117428
VK39.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000752	0,884	76026
VK404.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00059	0,884	189742
VK413.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001271	0,883	20452
VK206.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,007943	0,882	598
VK332.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00043	0,881	384723
VK476.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000853	0,881	82789
VK63.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000594	0,881	117431
VK160.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000356	0,881	618962
VK337.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001529	0,879	18746
VK408.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000528	0,877	121582
VK348.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001104	0,876	40022
VK392.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000395	0,875	426282
VK420.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000595	0,875	214990
VK323.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000403	0,875	564137
VK426.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002972	0,875	4907
VK309.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002044	0,873	9458
VK482.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000355	0,872	520532
VK401.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000931	0,872	53626
VK226.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002525	0,872	6964
VK222.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,004814	0,871	1072
VK35.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001434	0,871	22890
VK95.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000377	0,871	510783
VK493.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001592	0,87	18165
VK291.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000372	0,87	506159
VK48.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000463	0,87	206878
VK488.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000604	0,869	150677
VK42.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001528	0,869	21432
VK442.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000559	0,868	174385
VK533.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000559	0,868	265747
VK437.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,001772	0,868	14110
VK439.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002968	0,868	5250
VK477.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001731	0,868	14777
VK65.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001488	0,867	21282
VK266.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001566	0,867	18997
VK472.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,000858	0,867	45695
VK53.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001246	0,867	25018
VK253.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,004639	0,867	1994
VK273.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000435	0,867	529715
VK33.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00143	0,867	22729
VK545.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,0009	0,866	62146

H1	H2	X	O	D	Z	#snps
VK460.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001536	0,866	18557
VK24.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002977	0,863	5402
VK397.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001679	0,863	16080
VK398.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000331	0,863	559306
VK489.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000319	0,862	628639
VK526.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001243	0,862	30579
VK345.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001444	0,862	23950
VK203.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000619	0,861	182285
VK71.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000606	0,861	135811
VK70.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000362	0,86	658648
VK448.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001571	0,86	18884
VK348.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000343	0,86	496198
VK336.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000452	0,859	561271
VK379.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,004226	0,858	2445
vik_97029.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000695	0,858	61550
VK23.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000552	0,858	212297
VK256.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001161	0,857	32095
VK24.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001128	0,856	40708
VK226.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001231	0,856	25353
VK413.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001085	0,855	20881
VK94.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001324	0,854	26874
VK540.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001442	0,854	21034
VK433.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001042	0,853	37665
VK223.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000819	0,853	79763
VK404.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000379	0,853	504732
VK161.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001321	0,853	15787
VK153.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001915	0,852	11924
VK506.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001277	0,851	30421
VK297.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000668	0,851	131421
VK483.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000344	0,851	637531
VK274.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001585	0,851	17610
vik_stg021.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000824	0,851	71634
VK512.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000351	0,85	643589
VK31.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00252	0,85	6944
VK548.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000915	0,849	61262
VK454.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001714	0,849	16292
VK419.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000398	0,848	482286
VK149.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002116	0,847	5391
VK165.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001336	0,846	24018
VK292.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002535	0,846	6115
VK287.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001173	0,845	28778
VK157.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000618	0,845	150054
VK437.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00154	0,844	16836
VK386.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000399	0,842	550258
VK157.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001015	0,841	40952
VK173.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000541	0,84	176513
VK415.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000382	0,839	481526
VK411.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003337	0,838	3946
VK269.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003913	0,837	2598
VK135.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,008959	0,836	493
VK155.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002413	0,836	6666
VK17.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000719	0,836	91795
VK393.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00059	0,835	185654
VK327.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000371	0,835	455114
VK464.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00093	0,835	43926
VK411.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,001389	0,834	13915
VK421.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,003402	0,834	3331
VK95.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00161	0,834	15946
VK509.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000333	0,833	577402
VK257.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000609	0,833	171386
VK260.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000357	0,833	461635
VK420.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000877	0,832	59506
VK461.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00045	0,832	185853
VK517.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000631	0,832	143491
VK481.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000555	0,831	190579
VK173.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000961	0,831	45721
VK275.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001394	0,831	22420
VK219.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000906	0,831	59162
VK308.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000376	0,831	590508
VK287.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001563	0,83	16683
VK94.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000703	0,83	70777

H1	H2	X	O	D	Z	#snps
VK171.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001236	0,83	25487
VK486.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000851	0,829	62250
VK71.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001751	0,829	13275
VK149.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,002059	0,829	5391
VK228.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001083	0,828	31532
VK425.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002228	0,827	7332
VK221.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000928	0,826	54583
VK139.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000464	0,826	247576
VK224.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00053	0,826	130452
VK476.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001285	0,825	28609
VK406.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000362	0,825	482929
VK259.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00041	0,824	548861
VK161.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,007493	0,823	823
vik_stg026.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000645	0,822	119305
VK524.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001261	0,822	27757
VK257.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000378	0,822	421915
VK330.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000432	0,822	503114
VK543.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000938	0,82	47008
VK259.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000955	0,82	45105
VK29.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000841	0,82	60726
VK133.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00108	0,819	21714
VK94.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000592	0,819	82667
VK439.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001859	0,819	10895
VK407.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000938	0,819	50992
VK493.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000307	0,818	663888
VK144.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001421	0,818	18998
VK545.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001186	0,817	29639
VK364.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000366	0,817	513901
VK508.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000556	0,816	188861
VK553.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000857	0,815	54430
VK291.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000396	0,815	507297
vik_2072.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001936	0,815	9556
VK264.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000438	0,815	494660
VK171.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000741	0,815	61727
VK71.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000559	0,814	120048
VK402.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000313	0,814	602649
VK297.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000464	0,813	382679
VK491.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000514	0,813	191158
VK92.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000459	0,813	182003
VK327.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000979	0,812	44003
VK159.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,00062	0,812	166141
VK409.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00107	0,812	38002
VK394.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000336	0,811	414921
VK220.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000567	0,811	227546
VK317.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00042	0,81	548759
VK42.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000951	0,809	42608
VK161.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001616	0,809	15782
VK528.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000329	0,807	598769
VK389.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000933	0,807	44672
VK527.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001283	0,807	23324
VK99.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000341	0,807	436892
vik_84035.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002181	0,806	8366
VK429.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000821	0,806	69188
VK101.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001256	0,806	27201
VK546.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000692	0,805	63840
VK206.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,004097	0,805	2156
VK439.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,00048	0,805	112696
VK220.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001024	0,805	36218
VK526.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000905	0,804	54329
VK421.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	0,005398	0,803	1127
VK402.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000525	0,803	193545
vik_84001.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00052	0,802	261579
VK389.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000315	0,801	532739
VK15.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000337	0,801	473841
VK226.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000973	0,801	25921
VK395.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000315	0,8	597332
VK437.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00112	0,799	17059
VK387.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000317	0,799	530773
VK387.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000334	0,798	518242
VK48.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000416	0,797	206999
vik_2072.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,008763	0,797	466
VK427.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,001271	0,797	24185

H1	H2	X	O	D	Z	#snps
VK319.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000478	0,796	322511
VK498.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00035	0,795	470297
VK92.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000426	0,795	186138
VK373.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000364	0,795	439030
VK432.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000802	0,795	67872
VK458.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002288	0,795	6994
VK492.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00036	0,794	497297
VK206.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,010417	0,794	232
VK470.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,006186	0,794	970
VK306.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000934	0,794	48526
VK18.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001939	0,793	10660
VK397.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,0011	0,793	31892
VK414.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000354	0,792	486229
VK87.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001071	0,791	32072
VK177.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000936	0,791	48327
VK530.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000602	0,791	159270
VK484.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000359	0,79	465752
VK30.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001785	0,79	11109
VK437.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,004723	0,789	1694
VK158.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001128	0,789	26187
VK99.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000591	0,789	143571
VK160.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000892	0,788	50987
VK471.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000453	0,787	158472
VK466.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,0006	0,787	94159
VK414.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001605	0,786	15831
VK505.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000359	0,785	510115
VK174.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000315	0,785	476783
VK323.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001036	0,785	31601
VK462.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,001348	0,785	18607
VK232.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000411	0,784	206418
VK478.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000886	0,784	51048
VK224.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000511	0,784	150002
VK33.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000409	0,784	406522
VK397.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000548	0,784	200185
VK164.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,004243	0,783	1204
VK168.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001148	0,783	24820
VK320.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001552	0,783	15675
VK207.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001877	0,783	10478
VK530.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000973	0,781	44189
VK542.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001227	0,781	25681
VK496.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000942	0,779	36985
VK343.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000299	0,779	562699
VK251.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000878	0,778	35690
VK318.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,003753	0,777	1935
VK435.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001051	0,776	30513
VK456.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000361	0,776	561476
VK284.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000564	0,775	147771
VK352.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001606	0,775	14526
VK388.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000891	0,775	47796
VK101.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001477	0,775	16360
VK337.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000998	0,774	37256
VK318.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,002911	0,774	2266
VK151.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001066	0,774	28937
VK165.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001169	0,774	28597
VK280.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000423	0,774	214037
VK316.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001142	0,774	27008
VK372.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000321	0,774	583056
VK411.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,007015	0,774	784
VK452.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000557	0,774	122241
VK151.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000305	0,772	523767
VK279.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000291	0,772	700684
VK15.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000588	0,772	152676
VK20.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00154	0,772	13580
VK493.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000516	0,771	193199
VK487.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000307	0,77	670386
VK86.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,002471	0,77	4940
VK298.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000381	0,77	247862
VK459.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000645	0,77	88638
VK472.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,000661	0,77	46899
VK544.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000826	0,769	58099
VK439.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003192	0,769	3211
VK466.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001997	0,769	8095

H1	H2	X	O	D	Z	#snps
VK517.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000369	0,769	363319
VK555.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000314	0,768	523959
VK134.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001503	0,768	16019
vik_grt036.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000327	0,768	584420
VK495.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000861	0,767	51325
VK164.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,005724	0,766	1223
VK272.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000488	0,766	138951
VK318.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003256	0,765	2282
VK474.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00103	0,765	33995
VK482.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00031	0,763	520845
VK547.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000741	0,763	73543
VK203.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000855	0,762	50663
VK474.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00031	0,762	618079
VK63.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000464	0,762	135198
VK57.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000963	0,761	38404
VK176.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001362	0,76	19400
VK441.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000991	0,76	23691
VK149.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,002325	0,759	4648
VK347.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00551	0,758	983
VK431.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002766	0,758	4791
VK361.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001169	0,757	25584
VK298.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00044	0,756	245286
VK146.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000362	0,756	345732
VK498.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00149	0,755	15272
VK548.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000486	0,755	258595
VK146.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000917	0,755	44897
VK524.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000285	0,755	609028
VK543.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001702	0,754	13466
VK358.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000953	0,754	39951
VK143.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000396	0,754	507475
VK168.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000385	0,754	345577
VK172.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000299	0,754	535491
vik_2072.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001416	0,754	9473
VK476.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001103	0,753	26361
VK431.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001974	0,752	8020
VK86.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001673	0,751	7151
VK158.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,001992	0,75	7947
VK226.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00133	0,75	16410
VK216.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001232	0,749	24014
VK543.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000351	0,749	414679
VK373.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000561	0,749	150645
VK21.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000531	0,749	129488
VK505.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000302	0,747	521572
VK551.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000268	0,747	708057
VK148.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001298	0,747	17809
VK386.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001023	0,747	30862
VK482.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000315	0,746	508193
VK498.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001047	0,746	30405
VK204.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001556	0,746	13709
VK287.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000338	0,746	298116
VK466.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00186	0,746	9274
VK270.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001901	0,745	8132
VK349.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001561	0,744	15216
VK362.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000331	0,744	369734
VK482.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000515	0,743	165980
VK19.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001233	0,742	20945
VK203.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000911	0,741	42619
vik_grt036.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000481	0,74	220342
VK215.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,003725	0,739	2483
VK50.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00033	0,738	553889
VK228.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,006286	0,738	928
VK163.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001243	0,737	12179
VK251.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00078	0,737	35717
VK290.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000285	0,735	581017
VK477.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000345	0,734	525516
VK419.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001031	0,732	31116
vik_84035.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001566	0,732	13143
VK257.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000823	0,732	47511
VK552.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000951	0,731	32518
VK515.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000354	0,731	360803
VK14.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000954	0,731	37028
VK286.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001006	0,73	33807

H1	H2	X	O	D	Z	#snps
VK421.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001357	0,73	10945
VK339.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,002979	0,729	3553
VK276.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002755	0,729	3751
VK253.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,001778	0,729	6234
VK555.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000807	0,728	49987
VK372.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000484	0,728	185203
VK273.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00088	0,728	44040
VK421.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,005914	0,728	930
VK205.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000289	0,727	536317
VK555.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000829	0,727	42802
VK461.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001919	0,727	8687
VK21.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000837	0,727	45772
VK539.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000494	0,727	216071
vik_grt036.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000471	0,727	238449
VK464.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000592	0,726	59130
VK494.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000544	0,726	115041
vik_gtm021.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000647	0,726	100644
VK146.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000376	0,725	542659
VK161.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001398	0,725	13486
VK526.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000325	0,723	564246
VK17.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001479	0,723	14316
VK546.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000817	0,722	53768
VK415.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000496	0,722	179780
VK108.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001105	0,721	22783
VK274.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000974	0,719	34816
VK339.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001674	0,718	9966
VK430.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000421	0,718	135218
VK129.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,00029	0,716	746389
VK495.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001057	0,715	29340
VK128.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000323	0,715	491928
VK367.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000533	0,714	146034
VK411.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,00131	0,714	13677
VK65.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000438	0,713	258497
VK411.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00141	0,713	11923
VK308.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000279	0,713	604011
VK371.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00034	0,712	363890
VK298.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000672	0,711	86583
VK164.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,0036	0,711	1210
VK551.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000467	0,71	242526
VK438.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000378	0,709	154108
VK340.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000426	0,708	295444
VK411.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,005134	0,708	1120
VK358.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00111	0,704	22676
VK361.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001436	0,704	15261
VK461.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002403	0,703	5132
VK491.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000261	0,702	595285
VK497.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000904	0,702	32822
VK300.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000359	0,702	289490
VK441.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,007498	0,702	678
VK392.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001517	0,701	13956
VK164.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,015291	0,701	109
VK290.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000266	0,701	581360
VK217.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000466	0,7	100927
VK405.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000296	0,7	501047
VK161.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001291	0,7	15474
VK282.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000344	0,699	274742
VK155.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000435	0,699	121749
VK221.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000446	0,697	213588
VK166.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000433	0,697	255553
VK173.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000754	0,697	52594
VK255.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00424	0,697	1592
VK303.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000279	0,697	701348
VK519.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000565	0,695	123805
vik_bns023.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,001122	0,695	13273
VK29.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000253	0,695	714454
VK165.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000336	0,694	511339
VK487.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000316	0,693	655363
VK177.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000846	0,693	41845
VK260.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000326	0,693	394879
VK227.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000329	0,692	266035
VK86.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,001462	0,691	7113
VK204.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000486	0,691	144238

H1	H2	X	O	D	Z	#snps
VK251.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001546	0,691	11644
VK40.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001276	0,691	18084
VK42.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000721	0,691	63711
VK226.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000906	0,691	25369
VK407.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00038	0,69	157438
VK526.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000477	0,689	230099
VK372.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001308	0,689	15992
VK31.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000649	0,689	86822
VK175.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00035	0,688	438694
VK395.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000281	0,688	596964
VK327.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000965	0,687	29440
VK145.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000873	0,686	43428
VK111.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000487	0,686	156905
VK221.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000891	0,685	36759
VK255.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002327	0,685	4727
VK357.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000788	0,685	48538
VK168.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00094	0,684	29694
VK344.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000311	0,683	419724
VK460.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001299	0,683	15843
VK389.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000717	0,682	51594
VK553.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00046	0,681	180521
VK542.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000914	0,68	30716
VK498.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000821	0,679	45595
VK92.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000741	0,679	54234
VK178.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000293	0,679	439302
VK57.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000942	0,679	32760
VK155.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003023	0,679	3308
VK417.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,00039	0,678	452589
VK452.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000377	0,678	164636
vik_grt035.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000955	0,677	34308
VK222.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,003693	0,676	1078
VK490.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000506	0,675	140686
VK486.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00026	0,675	655254
VK442.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000349	0,675	548059
VK320.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000317	0,675	560860
vik_97029.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001218	0,675	21488
VK215.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000712	0,674	51451
VK298.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002115	0,673	6974
VK458.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000535	0,673	93303
VK159.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001798	0,673	9221
VK438.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000756	0,672	49740
VK227.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000603	0,672	91462
VK201.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001034	0,67	25479
VK370.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000483	0,67	193288
VK463.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002278	0,67	5121
vik_KAL006.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000289	0,67	542454
VK401.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000301	0,67	475742
VK353.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000341	0,67	565278
VK222.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,003531	0,669	1072
VK357.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000918	0,669	32396
VK276.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,000451	0,668	81631
VK219.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000283	0,668	523468
VK443.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000255	0,667	687286
VK540.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000492	0,667	144956
VK364.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001317	0,666	16837
VK394.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000504	0,666	134441
vik_97002.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000992	0,665	24445
vik_urm161.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002698	0,665	3614
VK497.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001324	0,664	16551
VK149.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,001829	0,664	5286
VK419.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001037	0,663	26025
VK312.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002008	0,663	6556
VK476.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002388	0,663	4571
VK102.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000643	0,663	70460
VK452.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000435	0,662	163242
VK71.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000368	0,661	138772
VK86.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001403	0,661	7154
VK206.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,003073	0,661	2034
VK269.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000563	0,661	55053
VK284.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000776	0,661	48846
VK361.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000716	0,661	52989
VK517.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,0003	0,661	483231

H1	H2	X	O	D	Z	#snps
VK427.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000585	0,66	59800
VK509.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000264	0,659	577750
VK138.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000311	0,659	238626
vik_84005.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001365	0,659	14647
VK155.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002063	0,658	5695
VK208.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001301	0,657	14866
VK174.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000267	0,655	476467
VK524.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000304	0,655	595183
VK156.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000518	0,655	144663
VK267.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,000642	0,654	41654
VK431.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001253	0,654	16762
VK207.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000296	0,654	376958
VK402.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000863	0,654	33233
VK550.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,0003	0,652	477747
VK128.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000761	0,652	47281
VK371.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001146	0,651	20361
VK317.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000903	0,651	29990
VK322.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001285	0,651	14984
VK486.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000726	0,65	53487
vik_urm161.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001138	0,65	22781
VK488.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000788	0,649	38705
VK140.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001807	0,649	8346
VK349.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001033	0,648	25259
VK17.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00094	0,648	29980
VK133.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,003369	0,647	2078
VK496.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000267	0,646	572003
VK547.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000252	0,646	777261
VK413.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001974	0,645	6795
VK555.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000911	0,644	28737
VK420.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001191	0,644	17289
VK445.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000772	0,644	47694
VK71.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000368	0,643	138668
VK170.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000907	0,643	30226
VK468.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000425	0,643	253235
VK110.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000694	0,643	54890
VK208.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002456	0,641	3767
VK445.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000292	0,641	493919
VK16.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000388	0,641	158422
VK491.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000849	0,64	32898
VK163.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,001062	0,64	12183
VK19.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000484	0,64	131551
VK432.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001141	0,639	18912
VK493.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000289	0,638	648461
VK471.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001574	0,638	8735
VK154.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000278	0,638	597777
VK16.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000712	0,638	51241
VK64.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000263	0,637	370829
VK314.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000465	0,636	122743
VK251.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002893	0,636	3082
VK251.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000676	0,635	35249
VK18.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000519	0,635	133061
VK276.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000658	0,634	51570
vik_KAL006.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000247	0,634	551105
VK122.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000472	0,634	196381
VK486.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000428	0,633	224931
VK159.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000349	0,633	199790
vik_urm045.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000728	0,633	46398
VK446.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001263	0,632	17023
VK470.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00114	0,632	20318
VK457.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000475	0,631	133312
VK348.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00025	0,63	495903
VK461.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000675	0,63	59369
VK364.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000836	0,629	33496
VK150.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000325	0,628	325191
VK276.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,000475	0,628	79594
VK279.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000717	0,628	57305
VK445.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000827	0,628	32048
VK494.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000849	0,628	34168
VK515.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000511	0,627	126961
VK264.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000906	0,627	27042
VK29.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000286	0,627	525236
VK496.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000898	0,626	30823
VK551.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00024	0,626	690270
VK388.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000462	0,626	160078
VK306.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000452	0,626	161682

H1	H2	X	O	D	Z	#snps
VK204.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001039	0,625	22783
VK280.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000308	0,625	218830
VK429.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000236	0,625	720906
VK65.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001397	0,624	12048
VK445.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000676	0,624	55948
VK363.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000423	0,622	195133
VK219.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000408	0,622	213014
VK528.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00041	0,621	210613
VK547.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000239	0,621	777793
VK151.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,0003	0,621	387052
VK449.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000411	0,621	174832
VK272.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000362	0,621	142278
VK151.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000448	0,62	156397
VK166.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000266	0,62	635910
VK175.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00131	0,62	12408
VK265.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000316	0,62	533617
vik_urm161.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,001126	0,62	19235
VK227.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001684	0,619	7422
vik_urm160.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000243	0,618	592225
VK167.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000242	0,618	463942
VK306.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,0013	0,618	13910
VK396.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000741	0,618	44669
VK275.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000285	0,617	276271
VK452.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001171	0,617	15946
VK479.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000703	0,617	53068
VK444.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000822	0,616	35078
VK450.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000624	0,616	57999
VK108.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000296	0,615	406541
VK325.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000281	0,614	349060
VK383.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00455	0,614	934
VK475.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000749	0,613	42143
VK50.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000251	0,613	741789
VK60.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001242	0,613	13953
VK417.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00085	0,612	30099
VK552.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00027	0,611	500738
VK462.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002436	0,611	3524
vik_2072.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,001611	0,611	7967
VK546.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002505	0,61	3593
VK368.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001291	0,61	15103
VK170.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000436	0,609	188802
VK290.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000424	0,607	199506
VK388.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000425	0,607	172178
VK402.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000869	0,607	28191
VK368.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000858	0,606	30003
VK463.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000313	0,606	186847
VK16.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000665	0,606	55368
VK86.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001461	0,605	6994
VK413.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00096	0,605	20307
VK160.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000279	0,605	605151
VK65.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000291	0,604	255911
VK149.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,003286	0,604	1547
VK281.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000225	0,604	668836
VK393.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000815	0,604	29551
VK472.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004249	0,604	1314
VK308.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000408	0,604	207183
VK295.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000932	0,603	27101
VK394.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000455	0,603	125150
VK515.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000314	0,603	361645
VK437.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,00096	0,603	16676
VK464.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,001111	0,603	17477
VK98.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00039	0,603	240960
VK496.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000224	0,602	670379
VK51.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00047	0,602	133213
VK99.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00073	0,602	41777
VK487.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000237	0,601	670812
VK144.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002305	0,601	3868
VK429.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000377	0,6	230746
VK253.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001721	0,6	5533

H1	H2	X	O	D	Z	#snps
VK262.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000725	0,599	45499
VK255.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000734	0,599	36067
VK23.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001516	0,599	9675
VK405.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000248	0,599	500760
VK343.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000233	0,598	563034
VK432.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000639	0,598	56298
vik_bns023.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00599	0,597	626
VK161.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000934	0,597	15563
VK292.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000461	0,596	73408
VK306.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000764	0,596	41027
VK33.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000279	0,596	405907
VK206.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	0,002093	0,595	4286
VK435.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00251	0,595	3287
VK440.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000728	0,594	37504
VK200.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,001066	0,593	11236
VK164.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,014184	0,593	47
VK395.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000417	0,593	205339
VK206.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001555	0,592	7215
VK533.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000607	0,592	73664
VK472.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002293	0,59	3779
vik_97029.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000566	0,59	60699
VK517.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000338	0,589	406099
VK497.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000237	0,587	601509
VK464.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000697	0,587	48934
vik_97029.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002275	0,587	3296
vik_nuf002.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001518	0,586	7080
VK404.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001168	0,586	16410
VK161.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,001029	0,586	15433
VK555.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000237	0,585	524281
VK274.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000388	0,585	218638
VK223.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000285	0,585	246304
VK508.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000229	0,584	640564
VK135.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001331	0,584	6070
VK53.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001266	0,584	12443
VK122.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001159	0,584	15745
VK141.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000879	0,583	29756
vik_97026.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000554	0,583	55174
VK395.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000248	0,583	582541
VK151.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,0004	0,582	182249
VK158.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000676	0,582	26751
VK30.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000946	0,582	22811
VK247.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000705	0,581	30608
VK230.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000796	0,581	32025
VK138.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000328	0,58	235193
VK428.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000461	0,58	125880
VK399.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000396	0,58	221087
VK318.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	0,00203	0,579	2311
VK352.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000821	0,578	28830
VK443.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000218	0,578	687709
VK324.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000651	0,578	55726
VK334.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001127	0,578	15231
VK551.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000254	0,577	691571
VK424.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001489	0,577	9400
VK543.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000746	0,576	39875
VK386.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000403	0,576	163512
VK387.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000227	0,576	531133
VK328.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001189	0,575	14993
VK263.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000226	0,575	583163
VK384.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000628	0,574	52398
VK441.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000722	0,574	23961
vik_stg020.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001231	0,574	13469
VK486.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000216	0,573	655680
VK545.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000707	0,573	35600
VK58.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00061	0,573	62554
VK488.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000226	0,572	471361
VK461.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000365	0,572	181866
VK160.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000242	0,572	604050
VK506.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000397	0,571	190127
VK516.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000231	0,571	584338
VK405.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000257	0,571	489017
VK21.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000698	0,57	39967
VK95.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000766	0,57	31530
VK482.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00092	0,569	23901
VK492.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000246	0,569	496496
VK270.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000741	0,569	28328
VK346.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000287	0,569	566619
vik_urm160.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000627	0,567	56052

H1	H2	X	O	D	Z	#snps
VK329.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000689	0,567	45125
VK16.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001462	0,567	8890
VK42.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000237	0,567	661922
VK84.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000883	0,566	23959
VK200.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002184	0,566	3625
VK178.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00027	0,565	378130
VK466.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000469	0,565	94251
VK70.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000557	0,564	73668
VK286.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000321	0,564	421065
VK411.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000976	0,564	13995
VK441.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,00071	0,564	23607
VK24.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002352	0,564	3224
VK552.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00087	0,563	27105
VK163.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001431	0,563	7902
VK268.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00165	0,563	6615
VK439.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000765	0,562	33427
VK440.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000579	0,562	50053
VK282.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001126	0,561	15093
VK200.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,001563	0,56	7304
VK387.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00064	0,56	50658
VK19.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000236	0,56	382291
VK410.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001611	0,56	7862
VK58.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000219	0,559	766509
VK396.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000393	0,559	187398
vik_urm161.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000505	0,559	64208
vik_urm161.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000565	0,559	64355
VK509.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000273	0,558	564530
VK177.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000885	0,558	23271
VK435.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00056	0,558	41163
VK543.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000244	0,557	487002
VK174.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000917	0,557	21905
VK524.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000233	0,557	593946
VK110.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000382	0,557	183946
VK111.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000216	0,557	484024
VK389.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000246	0,556	458841
vik_2072.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002441	0,556	2765
VK259.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001151	0,555	14982
VK409.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000374	0,555	118884
VK491.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000633	0,554	49201
VK456.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000237	0,554	560281
VK453.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002233	0,553	3434
vik_kal009.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000345	0,553	137661
vik_nuf002.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000349	0,553	126795
VK253.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00125	0,552	6352
vik_84035.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000377	0,551	132512
VK544.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000735	0,55	33219
VK281.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000334	0,549	214268
VK58.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000211	0,549	767050
vik_kal009.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000424	0,549	115197
VK133.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000754	0,548	21393
VK420.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000708	0,547	34270
VK428.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00032	0,547	124602
VK222.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00402	0,547	1078
VK222.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,012255	0,547	68
VK35.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000788	0,546	27286
VK548.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000231	0,545	636679
VK163.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,002176	0,545	3409
VK164.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,012605	0,545	119
VK175.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000952	0,545	20478
VK399.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000781	0,545	29251
VK382.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000708	0,543	34321
VK342.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000572	0,543	56481
VK324.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000852	0,543	26910
VK30.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000277	0,543	238958
VK488.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000218	0,542	471098
VK529.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000578	0,542	61319
VK286.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000958	0,542	19392
VK288.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000945	0,542	19304
VK148.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	0,002377	0,541	2840
VK172.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000238	0,541	461743
vik_97002.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000778	0,541	31604
VK379.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000613	0,54	53417
VK159.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000564	0,538	59567

H1	H2	X	O	D	Z	#snps
VK466.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000445	0,537	82598
VK276.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000434	0,536	79203
VK218.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001046	0,536	16492
VK329.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000212	0,534	542805
VK223.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001071	0,534	13617
VK424.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000417	0,534	84627
VK519.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001947	0,533	4195
VK14.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000735	0,533	39806
VK18.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000403	0,533	123661
VK397.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000855	0,533	26714
VK216.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,003483	0,532	1340
VK292.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002572	0,532	2106
VK398.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000779	0,532	30931
VK440.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,001012	0,531	14824
VK453.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000435	0,531	121760
VK504.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00085	0,53	23831
VK525.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000889	0,53	23251
VK269.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000484	0,53	54519
VK260.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000665	0,53	38490
VK16.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00031	0,53	160140
VK30.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000511	0,53	70823
VK507.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000412	0,528	129962
VK347.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001101	0,528	11896
VK441.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002936	0,528	1930
VK325.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000244	0,527	348829
VK547.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000215	0,527	757736
VK207.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000409	0,527	121573
VK94.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000814	0,526	24471
VK63.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002149	0,526	3761
VK325.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00072	0,525	33239
VK362.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000408	0,525	119250
VK525.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000214	0,524	501493
VK39.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000392	0,524	87468
VK382.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000595	0,523	45926
VK417.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000251	0,523	399342
VK133.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000837	0,523	21249
VK261.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000252	0,523	327373
VK388.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000251	0,523	425848
VK527.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000205	0,523	502747
VK325.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000419	0,522	103758
VK300.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000242	0,522	294327
VK94.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001919	0,522	3864
VK440.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002561	0,522	2863
VK318.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,002618	0,521	2324
VK206.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,001108	0,521	7315
VK441.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001377	0,521	8412
VK256.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000201	0,52	586586
vik_kal009.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00038	0,52	134554
VK335.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000361	0,519	165525
VK459.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000633	0,519	41079
vik_kls001.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000348	0,519	101182
VK403.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000233	0,519	517492
VK403.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000206	0,519	603436
VK86.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,002435	0,518	2361
VK251.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000685	0,517	31049
VK468.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000192	0,515	732131
VK552.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000353	0,514	188240
VK547.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000328	0,514	265330
VK472.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002806	0,514	2138
VK421.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001122	0,513	9456
VK148.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,002409	0,512	2283
VK273.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001036	0,512	14644
VK395.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000246	0,512	583679
VK225.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000467	0,512	84206
VK230.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000322	0,512	223880
VK254.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000279	0,511	271938
VK358.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000364	0,51	169686

H1	H2	X	O	D	Z	#snps
VK363.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000227	0,51	476171
VK221.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000221	0,509	567347
VK223.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000467	0,509	81047
VK175.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000212	0,508	448667
VK352.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000362	0,508	182776
VK258.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000199	0,508	501625
VK264.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000207	0,508	489533
VK157.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000232	0,508	408793
VK276.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000768	0,507	28415
VK510.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000776	0,506	28033
VK264.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000633	0,505	40692
VK463.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001238	0,504	10364
VK102.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000608	0,504	40542
VK174.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000374	0,503	163551
VK373.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00021	0,503	522087
VK471.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001086	0,503	13119
VK65.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00156	0,502	7105
VK400.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000365	0,5	163095
VK53.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000199	0,499	453115
VK296.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000316	0,498	190535
VK415.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000348	0,498	193762
VK392.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000364	0,497	147089
VK99.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000367	0,497	150923
VK555.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000359	0,496	180548
VK408.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001431	0,496	6697
VK528.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000351	0,494	176072
VK453.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001137	0,494	11655
VK207.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,0007	0,494	30939
VK225.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000276	0,494	282766
VK255.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002321	0,493	3052
VK456.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00034	0,491	197464
VK345.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001067	0,49	14217
VK394.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000232	0,489	358902
VK469.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000329	0,489	154212
VK84.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000255	0,488	521178
VK440.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003331	0,487	1451
vik_gtm127.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00092	0,487	15583
VK220.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000224	0,487	649360
VK289.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000207	0,486	425069
VK86.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001386	0,486	7153
VK520.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000329	0,486	219861
vik_97026.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000816	0,486	21442
VK432.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00165	0,485	5302
VK424.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000326	0,484	97475
VK485.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000235	0,483	340612
VK388.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000202	0,483	501263
VK102.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000175	0,482	744390
VK385.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000188	0,481	611301
VK164.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,006657	0,481	338
vik_urm035.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000272	0,481	177398
VK363.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000527	0,48	54222
VK486.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000696	0,479	29924
VK175.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000343	0,479	142476
VK168.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000971	0,478	14842
VK270.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001158	0,478	10002
VK317.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000747	0,477	24978
VK335.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00035	0,477	178801
VK257.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000195	0,477	497732
VK295.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000395	0,475	107105
VK439.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000323	0,475	110818
VK464.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000442	0,474	58703
VK399.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000204	0,474	544437
VK98.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000466	0,474	66651
VK452.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000524	0,473	53609
VK255.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000482	0,473	54902
VK425.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00066	0,473	30556
VK529.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000328	0,472	185562
VK343.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000325	0,472	193301
vik_bns023.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,000746	0,472	13272
VK22.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001491	0,472	5366
VK426.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000664	0,471	28365
VK388.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000192	0,47	501575
VK434.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001162	0,469	8316

H1	H2	X	O	D	Z	#snps
VK257.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000192	0,468	497417
VK173.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000208	0,467	471251
vik_kal009.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000562	0,467	47182
VK445.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000344	0,466	169876
vik_nuf002.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001089	0,466	12163
VK33.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000212	0,465	415578
VK516.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000187	0,464	584663
VK474.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000206	0,464	527173
VK387.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000321	0,464	182331
VK34.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00022	0,464	461152
VK354.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000808	0,463	20522
VK228.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001043	0,463	11261
VK506.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000181	0,462	553224
VK138.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,0011	0,462	11135
VK367.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000333	0,462	174022
vik_urm161.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000789	0,462	21120
VK379.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000447	0,461	52074
VK520.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00059	0,461	34885
VK509.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000533	0,46	47044
VK450.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000378	0,46	77039
VK400.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000203	0,46	500005
VK425.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000425	0,46	64233
VK462.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000517	0,458	51906
VK359.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,001237	0,457	4666
VK350.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000235	0,457	612092
VK150.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000236	0,457	511038
VK175.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000191	0,457	448932
VK399.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000591	0,457	35123
vik_urm160.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000181	0,455	591826
VK133.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000792	0,455	15956
VK133.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000852	0,455	17708
VK175.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00022	0,455	378172
VK165.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000499	0,454	49728
VK202.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000201	0,454	444366
VK58.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000304	0,454	261976
VK295.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000205	0,453	332574
VK445.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000834	0,453	16080
VK94.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000693	0,453	28998
VK459.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001374	0,453	6369
VK318.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,009434	0,452	53
VK164.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,002254	0,452	1210
VK445.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000667	0,452	26870
VK446.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00019	0,451	615900
VK19.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000219	0,451	332147
VK92.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001234	0,45	8708
VK343.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000193	0,449	549139
VK42.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000289	0,448	268106
VK392.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000729	0,447	23442
VK267.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000636	0,447	27517
VK263.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000224	0,447	569835
VK123.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000673	0,447	25120
VK494.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001122	0,446	9511
VK402.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000512	0,445	49787
VK297.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000354	0,444	121925
VK493.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000182	0,444	647335
VK368.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000545	0,444	44065
VK490.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000324	0,443	166426
VK164.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,005291	0,443	378
VK84.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000543	0,442	43439
VK222.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,002913	0,442	924
VK252.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,003916	0,442	766
VK24.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00033	0,442	100831
VK473.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000189	0,44	507033
VK505.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000194	0,439	509231
VK540.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000211	0,439	384101
VK328.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00032	0,438	186668
VK460.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00022	0,438	194364
VK108.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000193	0,437	405802
vik_urm161.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000366	0,437	65833
VK485.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000678	0,436	22249
VK111.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000724	0,436	22460
VK402.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000441	0,435	58150
VK256.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000168	0,434	586239
VK329.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000296	0,433	174779

H1	H2	X	O	D	Z	#snps
VK507.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000184	0,433	445544
VK298.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000698	0,433	23865
VK150.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000891	0,433	14130
VK338.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000198	0,433	325998
VK94.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000376	0,432	81759
VK308.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000471	0,432	57540
vik_urm161.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000434	0,432	55901
VK290.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000184	0,431	566990
VK212.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000214	0,429	223701
VK33.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000188	0,429	415865
VK399.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000519	0,429	52854
VK295.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000733	0,428	18541
VK153.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003257	0,428	1049
VK363.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000537	0,427	45619
VK227.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000945	0,427	12351
VK555.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000304	0,425	166996
VK530.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000726	0,425	21234
VK51.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000681	0,425	21535
VK22.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000352	0,425	83837
VK486.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000175	0,424	639486
VK498.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000455	0,424	52956
VK19.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000573	0,424	32878
VK546.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001308	0,423	5991
vik_stg021.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000183	0,423	642995
VK400.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,0002	0,423	500669
VK372.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000585	0,422	31769
VK122.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000593	0,422	31455
VK497.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000165	0,421	601889
VK301.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000179	0,421	398689
VK547.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000192	0,421	759266
VK274.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00029	0,421	201858
VK365.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000564	0,421	35436
VK219.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000469	0,421	50493
VK220.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000164	0,421	664325
VK33.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000326	0,421	142839
VK379.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,00086	0,42	15594
VK365.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000721	0,42	19868
VK258.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000481	0,42	47832
vik_84005.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000306	0,42	182585
VK144.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000336	0,419	68070
VK265.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000654	0,419	24578
VK308.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000181	0,419	589459
VK472.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000547	0,418	29703
VK139.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000396	0,417	73527
VK497.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00029	0,415	206818
VK358.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000183	0,412	413600
VK434.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000451	0,412	61956
VK439.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000346	0,412	83539
VK262.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000163	0,412	546596
VK414.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000165	0,412	570256
VK316.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000157	0,41	591113
VK335.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000166	0,41	513636
VK406.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00019	0,41	557491
VK290.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000185	0,408	568108
VK348.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000471	0,407	47206
VK446.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000548	0,407	34091
VK459.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000283	0,407	134425
VK468.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000549	0,406	33516
VK223.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000685	0,406	22130
VK403.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000483	0,406	50236
VK232.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000406	0,405	71918
VK252.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,010753	0,405	62
VK444.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000235	0,404	430911
VK472.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000781	0,404	15047
VK400.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000165	0,404	512403
VK482.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000295	0,403	179325
VK167.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000516	0,403	39083
VK342.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00028	0,403	204113
VK352.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000506	0,403	43472
VK496.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000259	0,402	215096
VK40.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000256	0,402	210225
VK87.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00072	0,401	19334

H1	H2	X	O	D	Z	#snps
VK402.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000172	0,4	514934
VK426.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000604	0,4	25934
VK34.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000575	0,399	30026
VK476.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000622	0,398	23728
vik_bns023.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000875	0,398	13336
VK144.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000377	0,397	67346
VK157.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00056	0,396	25318
VK18.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000196	0,396	332054
VK70.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000525	0,395	35208
VK15.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000292	0,395	164527
VK317.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000809	0,394	15134
VK410.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000391	0,394	61321
VK164.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,002062	0,393	1223
VK370.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000274	0,393	178687
VK413.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001127	0,393	7318
VK542.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000195	0,392	559372
VK226.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000462	0,392	25508
VK287.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000209	0,391	252263
VK516.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000281	0,391	200434
VK217.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000349	0,39	74733
VK95.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000262	0,39	197324
VK478.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000164	0,389	605746
vik_stg020.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000336	0,389	116416
VK221.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000564	0,388	30715
VK205.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000469	0,387	43901
VK373.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000156	0,387	522396
VK171.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000291	0,387	72714
VK486.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000174	0,386	640503
VK383.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,000465	0,386	32661
VK281.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000255	0,386	231519
VK217.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000306	0,386	100197
VK433.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000403	0,385	56027
VK458.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000481	0,385	41028
VK19.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000184	0,385	373687
VK158.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002262	0,384	1547
VK148.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000471	0,382	26976
vik_97029.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000702	0,382	17438
VK150.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000542	0,381	27962
VK255.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000696	0,381	19383
VK212.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000214	0,381	218562
VK421.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000764	0,38	10696
VK167.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000556	0,379	25485
VK317.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000419	0,379	52115
VK425.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000243	0,378	87673
VK102.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000136	0,378	744927
VK215.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000432	0,377	52503
vik_2072.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00102	0,377	6207
VK165.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000272	0,376	179753
VK127.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000479	0,376	36731
VK57.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000864	0,376	11473
VK60.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001034	0,376	8303
VK336.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000447	0,375	46283
VK344.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000468	0,375	40789
VK370.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000158	0,375	562857
VK58.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000174	0,375	748831
VK60.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000338	0,374	86148
VK400.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000271	0,374	149926
VK372.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000583	0,373	26600
VK212.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000245	0,373	163884
VK23.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000672	0,371	17844
VK278.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00016	0,37	370616
VK386.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000436	0,37	46052
VK296.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000582	0,369	24481
VK508.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000176	0,369	472759
VK163.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00082	0,369	10414
VK347.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00065	0,369	12035
VK372.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000408	0,369	55734
VK232.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000395	0,367	57342
VK296.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000935	0,366	8291
VK276.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,00025	0,365	81634
VK18.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000484	0,365	36821
VK17.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00031	0,364	107390
VK318.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,006614	0,363	126

H1	H2	X	O	D	Z	#snps
VK288.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000282	0,363	134261
VK437.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000672	0,363	17239
VK463.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000211	0,363	183898
VK315.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00017	0,362	336425
VK471.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000446	0,362	46474
VK487.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000151	0,361	654069
VK392.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000453	0,361	41209
VK173.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000163	0,361	539778
VK484.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000255	0,36	175883
VK497.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000532	0,36	27592
VK505.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000524	0,36	28466
VK471.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000287	0,36	130563
VK300.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000231	0,359	242551
VK154.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000339	0,359	67129
VK306.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000165	0,359	427575
VK287.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00072	0,358	14123
VK33.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000191	0,358	303133
VK268.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001536	0,357	3309
VK432.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000209	0,357	191109
VK35.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000746	0,357	13845
VK463.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00024	0,356	138465
VK415.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000567	0,355	25889
VK140.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000914	0,355	8171
VK316.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000135	0,355	591462
VK469.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000756	0,355	12782
VK257.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000248	0,355	158652
VK272.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000427	0,355	48609
VK24.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000218	0,355	117454
VK400.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000615	0,355	23438
VK448.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000155	0,353	577189
VK323.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00055	0,353	26499
VK449.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000388	0,353	57325
VK253.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,003395	0,353	540
VK350.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000492	0,352	33372
vik_stg021.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000375	0,352	62021
VK550.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000133	0,351	647027
VK133.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000477	0,351	21697
VK379.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000316	0,35	52817
VK163.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00067	0,349	11914
VK140.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00266	0,349	846
VK292.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000995	0,348	7037
VK430.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000201	0,348	135292
VK252.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,001649	0,347	2070
VK401.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000249	0,347	193376
VK122.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000165	0,347	559399
VK263.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000237	0,346	200485
VK308.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000478	0,346	32947
VK163.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,00064	0,345	11829
VK222.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,002365	0,345	1057
VK171.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001707	0,345	2001
VK485.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000426	0,344	38580
VK333.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000764	0,344	15044
VK347.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,002332	0,344	1179
VK201.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000415	0,343	45199
VK232.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000173	0,343	208570
VK217.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000249	0,343	99197
vik_stg020.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000419	0,343	48547
VK405.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000254	0,343	146038
VK144.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001072	0,342	6608
VK202.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000229	0,342	167829
VK348.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000148	0,342	484130
VK201.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000135	0,341	554217
VK314.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000351	0,341	61993
VK333.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000361	0,341	51939
VK18.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000146	0,341	382702
VK400.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000145	0,341	512087
VK157.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000568	0,34	21261
VK159.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000209	0,34	196428
VK86.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000915	0,339	6984
VK146.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000369	0,338	51705
VK379.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000364	0,337	52209
VK473.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000508	0,337	27240
vik_urm160.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000142	0,336	577497

H1	H2	X	O	D	Z	#snps
VK482.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000413	0,336	42354
VK258.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000557	0,336	22875
VK469.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000913	0,335	8668
VK411.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000545	0,334	14140
VK489.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00014	0,333	537710
VK86.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,004306	0,333	329
VK309.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000173	0,333	200557
VK175.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000247	0,332	154484
VK516.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000149	0,332	571401
VK264.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000555	0,332	22826
VK354.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000581	0,332	17214
VK29.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000169	0,332	602107
VK342.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000152	0,331	431937
VK348.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000149	0,331	484870
VK63.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000225	0,33	132307
VK337.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000128	0,329	673183
VK437.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000519	0,329	16827
VK425.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000268	0,329	85778
VK492.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000474	0,328	27760
VK383.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000414	0,328	32869
VK365.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000182	0,328	431592
vik_nuf002.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001006	0,328	5965
VK253.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000722	0,327	6410
VK148.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000451	0,326	27151
VK280.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001015	0,326	6073
VK443.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000133	0,326	670327
VK462.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001745	0,326	1719
VK476.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000238	0,326	82763
VK324.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000386	0,326	48205
VK102.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00015	0,326	727321
VK148.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000858	0,325	7672
VK257.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000157	0,325	486407
VK330.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000524	0,325	23231
VK369.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000466	0,324	28607
VK86.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000718	0,324	7123
VK269.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000394	0,324	46280
VK428.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000765	0,324	10351
vik_2072.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000621	0,324	9549
VK158.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000489	0,324	26745
VK353.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000447	0,323	30971
VK443.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00047	0,322	31223
VK461.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000191	0,322	181594
VK30.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00016	0,322	239101
VK405.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000162	0,322	489812
VK200.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000741	0,321	11243
VK254.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000505	0,319	26402
VK273.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000506	0,319	24365
VK23.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000966	0,319	5953
VK247.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000695	0,318	11629
VK314.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000221	0,318	194618
VK450.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000826	0,318	8678
VK488.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000136	0,317	460318
VK462.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001488	0,317	2912
VK122.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000139	0,317	482542
VK546.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000256	0,316	63168
VK413.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003284	0,316	609
vik_gtm127.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000619	0,316	14262
VK552.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000224	0,315	203469
vik_grt035.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00055	0,315	20739
VK275.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000166	0,314	234463
VK437.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000454	0,314	16974
VK158.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002699	0,314	741
vik_gtm021.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000592	0,314	16060
VK336.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000211	0,313	178951
VK20.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000464	0,313	28045
VK408.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001307	0,313	3442
VK122.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000123	0,313	572500
VK69.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00013	0,312	420646
VK144.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001741	0,312	1819
VK282.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00015	0,312	274594
VK282.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000175	0,312	230373
vik_kls001.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000248	0,312	86328
VK309.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000734	0,312	11132
VK219.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000201	0,311	197198
VK164.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001915	0,31	1175

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VK483.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000203	0,309	224215
VK460.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000715	0,309	10718
VK303.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000198	0,309	224496
VK268.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000238	0,308	118420
VK30.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000953	0,307	6645
VK382.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000388	0,306	38651
VK338.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,00026	0,306	95733
VK205.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000142	0,305	455645
VK86.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000723	0,305	7035
VK200.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000695	0,305	10988
VK348.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000438	0,305	27215
VK372.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000143	0,304	569978
vik_97002.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000259	0,303	76325
VK456.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000457	0,302	26241
VK258.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00022	0,302	172611
VK252.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,001573	0,302	2384
VK494.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000932	0,302	5457
VK512.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000312	0,301	62670
VK87.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000311	0,301	56838
VK441.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00082	0,301	7624
VK31.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00016	0,301	231185
VK403.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000328	0,301	57987
VK60.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000153	0,3	292155
VK255.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000261	0,3	56069
VK545.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000185	0,299	206706
VK325.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000164	0,299	341273
VK544.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000119	0,299	601586
VK444.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000241	0,298	118222
vik_84035.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000171	0,298	151599
VK475.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000114	0,298	765072
VK421.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000527	0,298	10951
VK24.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000896	0,298	6419
VK224.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000181	0,297	149986
VK154.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000423	0,296	32145
VK224.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000773	0,296	8411
VK70.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000116	0,294	778932
VK158.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000344	0,294	26731
VK212.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000618	0,294	12262
VK505.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000596	0,293	14406
VK216.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00035	0,293	23998
VK344.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000115	0,293	494948
VK388.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000143	0,293	490189
VK419.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000322	0,292	54413
VK432.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000747	0,292	9041
VK224.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00102	0,292	4412
VK171.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00021	0,292	72753
VK204.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000369	0,291	40441
VK411.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00074	0,291	8977
VK232.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00018	0,291	176381
VK547.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000345	0,29	42248
VK167.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000498	0,29	21601
VK108.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000227	0,29	143161
VK202.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000399	0,289	28827
VK367.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00043	0,289	27702
VK53.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000131	0,289	413089
VK227.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000145	0,289	259749
VK529.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000112	0,288	634757
VK470.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001477	0,288	1918
VK30.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000614	0,288	13291
VK228.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000736	0,288	8999
VK71.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001138	0,285	3882
VK281.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000368	0,285	36958
VK493.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000191	0,284	227580
VK316.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000313	0,284	56638
VK444.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000161	0,283	272352
VK200.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000506	0,283	11114
VK471.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000326	0,283	54684
VK410.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000407	0,283	27042
VK359.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000803	0,282	4647
VK289.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,00022	0,282	146108
VK315.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000404	0,282	26804
VK92.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000673	0,282	10272
VK515.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000391	0,282	35383
VK22.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000195	0,282	95265
vik_urm160.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000193	0,281	188771
VK333.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000185	0,281	173384
VK326.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000428	0,28	25910

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VK379.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000529	0,279	17015
VK70.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000106	0,279	779505
VK509.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000117	0,275	563575
VK325.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000215	0,275	111809
VK337.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000117	0,275	572656
VK458.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000179	0,275	124112
VK508.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000116	0,273	630084
VK163.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000656	0,273	8890
VK168.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000327	0,273	44822
vik_urm160.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000124	0,272	578470
VK164.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,00226	0,272	756
VK33.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000218	0,272	127313
VK453.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000647	0,271	10050
VK318.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,000944	0,269	2311
VK368.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000107	0,269	540915
VK57.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00023	0,269	119825
VK65.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000238	0,267	89164
VK432.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000154	0,267	189502
VK35.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000201	0,267	146071
VK281.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000115	0,266	567843
VK282.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000431	0,266	22049
vik_grt035.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000261	0,266	71832
VK354.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000141	0,266	273661
VK208.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000341	0,265	38102
VK421.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000609	0,265	10950
VK207.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000351	0,265	36564
VK540.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000401	0,265	24930
VK553.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000102	0,264	568541
VK139.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00045	0,264	20733
VK504.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000447	0,263	20119
VK550.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,00018	0,263	191310
VK392.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000182	0,262	160714
VK266.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000341	0,262	34432
VK267.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000514	0,262	14906
VK69.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000419	0,261	23262
VK553.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000118	0,26	555388
VK372.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000113	0,26	568952
VK476.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000191	0,258	81823
VK122.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000281	0,258	54646
VK265.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000287	0,256	50511
vik_2072.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00059	0,256	9341
VK140.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00066	0,255	7162
VK524.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000176	0,255	208794
VK280.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000154	0,252	182966
VK459.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000987	0,252	3801
VK477.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000108	0,252	524501
VK23.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000129	0,252	210262
vik_urm160.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000351	0,251	32097
VK441.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000403	0,251	23958
VK258.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000114	0,249	490343
VK398.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000113	0,249	479000
VK22.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000231	0,248	63364
VK149.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001474	0,246	1583
VK443.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000114	0,246	671749
vik_2072.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000465	0,246	9557
VK410.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000817	0,246	5306
VK140.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000765	0,245	6080
VK251.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001443	0,245	1617
VK471.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000926	0,245	4412
VK263.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000102	0,245	582793
VK382.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000465	0,244	16121
VK224.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000132	0,244	153223
VK349.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000164	0,243	175514
VK163.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,001906	0,243	962
VK343.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000114	0,243	550097
VK470.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,002674	0,242	561
VK402.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000472	0,242	16769
VK29.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000093	0,241	703650
VK459.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00028	0,24	44367
VK421.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000527	0,24	10725
VK549.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000335	0,239	29348

H1	H2	X	O	D	Z	#snps
VK318.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,001208	0,239	1724
VK454.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000779	0,239	4708
VK30.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000131	0,238	233473
VK506.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000097	0,237	552905
vik_84001.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000107	0,237	748290
VK362.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000335	0,236	30121
VK222.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,00136	0,235	1044
VK507.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000115	0,234	435725
VK227.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000113	0,234	266197
VK247.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000302	0,233	35616
VK448.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000231	0,233	65247
VK251.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000285	0,233	34814
VK220.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000095	0,233	664784
VK453.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000323	0,232	33430
VK470.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000315	0,232	20024
VK133.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000658	0,231	6962
VK128.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000092	0,231	586250
VK134.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000125	0,231	342196
VK330.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000273	0,231	41542
VK359.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000709	0,23	4544
VK498.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000164	0,229	191376
VK437.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001843	0,229	814
VK484.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000355	0,228	25349
VK164.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,002581	0,228	452
VK364.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000103	0,227	598095
VK464.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000953	0,226	3322
VK212.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000129	0,226	188756
VK258.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000084	0,225	501939
VK419.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000094	0,224	567855
VK480.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000165	0,224	147259
VK364.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000086	0,224	612082
VK422.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000371	0,224	24497
vik_stg021.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000137	0,224	239820
VK419.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000111	0,223	555203
VK497.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000104	0,223	588056
VK253.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,001129	0,223	2215
VK30.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000132	0,223	234105
VK147.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000164	0,222	153136
VK280.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000124	0,222	213428
VK373.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000367	0,222	23813
VK86.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,003378	0,221	222
VK482.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000111	0,22	509011
VK329.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000155	0,22	188784
vik_urm161.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00018	0,22	65863
VK205.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000309	0,219	29634
VK544.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000095	0,219	511110
VK269.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000403	0,218	17999
VK318.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000942	0,217	2242
VK347.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001721	0,217	678
vik_2072.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001604	0,217	883
VK399.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000221	0,217	61116
VK461.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000223	0,216	53829
VK466.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000143	0,216	95085
VK494.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000182	0,216	86196
VK90.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000229	0,215	58146
VK39.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000206	0,215	88220
VK553.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000083	0,214	568199
VK383.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000444	0,214	11628
VK135.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000505	0,214	6025
VK128.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000392	0,213	16143
VK334.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000092	0,213	326593
VK359.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000591	0,212	4690
VK529.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000103	0,212	468787
VK546.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001325	0,212	1761
VK313.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000129	0,212	171791
VK435.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000443	0,212	13362
VK48.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000133	0,212	202530
VK58.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000298	0,212	34690
VK256.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00009	0,212	572043
VK122.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000085	0,212	572188
VK226.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001409	0,212	1419
VK267.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000221	0,211	41491
VK484.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000146	0,209	190050
VK431.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,00012	0,209	173791
VK312.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000494	0,208	10620
VK339.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,001531	0,207	980
VK212.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000106	0,207	223577
VK101.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000138	0,207	190139
VK514.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000098	0,206	514219
VK370.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000086	0,206	563168

H1	H2	X	O	D	Z	#snps
VK230.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000138	0,206	242001
VK392.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000087	0,205	504913
VK441.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001349	0,205	1112
VK469.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000148	0,205	157651
VK260.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000096	0,205	455804
VK253.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,002586	0,205	290
VK382.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,0002	0,204	46443
VK544.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000233	0,204	49259
VK318.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000788	0,204	2309
VK53.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00015	0,204	149464
VK493.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000212	0,203	62997
VK439.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000511	0,203	9295
VK39.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000291	0,203	28370
vik_urm160.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000137	0,202	176522
VK520.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000197	0,202	60869
VK270.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000243	0,201	28293
VK373.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000089	0,201	509509
VK161.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000432	0,201	11559
VK392.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000147	0,2	173825
VK411.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000366	0,2	13671
VK15.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000084	0,2	478933
VK227.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000338	0,2	21724
VK480.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000082	0,199	461971
VK498.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000076	0,199	556723
VK15.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000094	0,199	405298
VK153.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00025	0,198	32008
VK394.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000296	0,197	23082
VK48.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000197	0,197	71765
VK339.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000887	0,196	3005
VK347.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000328	0,196	11996
VK58.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000236	0,196	41665
VK135.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,001162	0,195	1649
VK552.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000076	0,194	591947
VK149.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000964	0,194	1901
VK178.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000463	0,194	12060
VK129.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000085	0,194	734325
VK306.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000077	0,194	503547
VK545.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000083	0,193	637982
vik_nuf002.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000251	0,193	38872
VK172.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000383	0,192	14813
VK206.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00096	0,192	2344
VK511.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000077	0,191	635131
vik_gtm021.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000088	0,191	292243
VK485.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000087	0,19	394643
VK226.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000225	0,19	25644
VK361.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000221	0,189	45181
VK261.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000268	0,189	28018
VK401.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000076	0,189	562729
VK201.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000085	0,188	470613
VK344.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000091	0,188	484017
VK457.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000124	0,188	130298
VK35.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000078	0,188	499545
VK161.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000299	0,188	15775
VK312.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000104	0,187	222799
VK65.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000104	0,186	218795
VK135.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000966	0,186	2070
vik_grt035.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000079	0,186	640018
VK15.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000324	0,186	21884
VK24.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000148	0,186	114946
VK274.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000214	0,185	51462
VK524.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00019	0,184	58017
vik_gtm127.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000217	0,184	47928
VK225.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000164	0,184	99677
VK270.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001119	0,183	1639
VK359.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,004	0,182	125
VK207.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000093	0,182	320130
VK50.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,00009	0,181	629876
VK410.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000265	0,181	28570
VK497.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000074	0,18	587053
VK167.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00008	0,179	400180

H1	H2	X	O	D	Z	#snps
VK408.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000122	0,179	120073
VK530.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000073	0,178	463224
VK128.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000086	0,177	572917
VK151.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000098	0,176	436250
VK102.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000072	0,176	726023
VK230.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000077	0,176	594203
VK347.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000299	0,175	12153
VK39.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000877	0,174	2376
VK410.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000248	0,174	30962
VK98.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000075	0,174	607736
VK164.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000909	0,173	1222
VK477.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000251	0,173	29184
vik_97029.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000296	0,173	18288
VK430.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000204	0,172	47404
VK158.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000289	0,172	21927
VK553.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000261	0,171	25886
VK247.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000174	0,171	35258
VK95.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000193	0,171	51015
VK545.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000115	0,17	224126
VK256.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000077	0,17	573133
VK409.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000107	0,17	118950
VK228.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	0,000182	0,17	32446
VK389.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000118	0,169	184749
VK164.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,0013	0,168	1026
VK204.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000084	0,168	363894
VK255.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000143	0,168	56098
VK407.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000115	0,168	155590
VK339.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000392	0,167	10198
VK371.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000076	0,167	367156
VK128.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000073	0,167	571538
VK370.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000185	0,167	53483
VK455.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000066	0,167	605723
VK253.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,00052	0,167	6410
VK289.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00007	0,166	424833
VK474.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00017	0,166	59454
VK486.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,00011	0,165	190536
VK145.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000189	0,165	50340
VK484.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000066	0,164	552471
VK408.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000132	0,164	90085
VK485.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000067	0,163	404597
VK98.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00007	0,163	687809
VK348.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000115	0,162	170318
VK515.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000073	0,162	369551
VK428.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000123	0,162	106317
VK324.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000063	0,162	578292
VK387.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000263	0,16	24384
VK396.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000075	0,16	460981
VK485.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000065	0,159	404385
VK300.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000144	0,159	85911
VK285.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000305	0,159	16420
VK435.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000151	0,159	41644
VK111.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000233	0,159	26780
VK379.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00014	0,156	53410
VK507.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000068	0,156	445797
VK275.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000227	0,156	26781
VK347.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000334	0,156	10291
VK361.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000116	0,156	191279
VK438.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000313	0,156	14652
vik_84001.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000057	0,156	766616
vik_97029.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000123	0,156	62143
VK411.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001416	0,155	706
VK134.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00009	0,154	255543
VK539.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000289	0,154	17275
vik_kal009.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000121	0,153	100449
VK403.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000234	0,153	27796
VK358.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000323	0,152	13403
VK148.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000192	0,152	27148
VK280.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000076	0,152	218727
VK212.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000361	0,151	10619
VK338.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000075	0,15	320510
VK411.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000964	0,15	1383
vik_97026.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000159	0,15	63025
vik_97029.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000875	0,15	1714
VK421.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000613	0,149	3535
VK161.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,001237	0,149	741
VK359.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,002092	0,148	239
VK349.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000059	0,148	545668
VK344.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000058	0,148	495243

H1	H2	X	O	D	Z	#snps
VK466.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000211	0,148	30830
VK431.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000097	0,146	148796
VK516.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000063	0,145	570164
VK469.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000098	0,144	132106
VK404.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000056	0,144	596528
VK227.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000137	0,144	78234
VK552.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000149	0,143	56399
VK337.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00021	0,143	30991
VK40.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000148	0,143	55594
VK101.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000193	0,143	32461
VK422.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000175	0,142	44362
VK171.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000137	0,142	72728
VK201.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00016	0,141	53505
vik_84001.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000053	0,141	766096
VK263.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000061	0,141	568815
VK247.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000705	0,139	2009
vik_gtm021.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00021	0,139	27747
VK463.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,00015	0,138	56144
VK355.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000203	0,137	29172
VK362.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000114	0,137	128790
VK474.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000256	0,137	17260
VK208.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000128	0,136	46578
VK555.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000063	0,135	512389
VK543.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000097	0,134	156501
VK247.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	0,000198	0,134	23026
VK327.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000051	0,134	538378
VK332.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	0,000068	0,133	606007
VK251.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000151	0,133	34717
VK440.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000167	0,133	41796
VK396.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000223	0,133	25085
VK328.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000058	0,132	464295
VK70.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00006	0,132	760856
VK23.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000066	0,132	212231
VK525.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000094	0,13	160556
VK285.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000225	0,13	19618
VK22.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000464	0,13	4493
VK266.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000284	0,129	11438
VK219.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000049	0,127	621067
VK506.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,0002	0,126	25360
VK216.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000192	0,126	23472
VK515.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000077	0,126	302780
VK232.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000135	0,126	61204
VK48.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000222	0,126	19870
VK212.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000127	0,125	65578
vik_nuf002.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000294	0,125	10760
VK40.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000048	0,125	652425
VK63.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000081	0,124	132074
vik_urm035.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000131	0,124	62466
VK254.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000057	0,122	320696
vik_bns023.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,001658	0,122	402
VK138.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000112	0,121	82328
VK218.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000208	0,119	19626
VK553.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000084	0,118	195368
VK90.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000278	0,118	9905
VK135.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00117	0,118	570
VK462.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000355	0,118	6106
VK322.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000161	0,118	29964
VK39.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000412	0,118	4859
VK438.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000079	0,117	130940
VK399.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000053	0,117	629469
vik_grt036.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00012	0,117	66248
VK127.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,0002	0,116	20809
VK414.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000049	0,116	556806
VK344.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000049	0,115	483262
VK153.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000618	0,115	2024
vik_nuf002.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000085	0,115	110428
VK330.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000169	0,115	27670
VK336.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000158	0,114	30653
VK221.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000045	0,114	674303
VK155.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000072	0,114	121819
VK253.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,001497	0,114	334
VK261.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00018	0,113	23620
VK511.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000078	0,112	187179
VK260.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000129	0,112	44577
VK328.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000076	0,111	173776
VK324.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000072	0,11	201272

H1	H2	X	O	D	Z	#snps
VK388.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000161	0,11	27406
VK348.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000074	0,108	157736
VK438.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000282	0,108	8555
VK69.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000077	0,107	145769
VK411.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00037	0,107	4506
VK16.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000073	0,107	135060
VK401.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00005	0,107	550119
VK506.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000045	0,106	539665
VK382.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000104	0,106	46920
VK383.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000136	0,106	28364
VK127.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000044	0,105	379286
vik_urm035.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00011	0,105	57476
VK297.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00013	0,104	36503
VK363.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000044	0,104	554037
VK446.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000072	0,102	213501
VK223.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000047	0,102	248281
VK401.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000141	0,102	30703
VK296.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000047	0,101	295081
VK383.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000117	0,1	32817
VK154.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000044	0,1	691884
VK505.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00011	0,099	49847
VK200.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000203	0,099	11007
VK215.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000187	0,098	18227
VK295.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000051	0,098	282206
VK441.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000171	0,098	19461
VK464.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00044	0,098	2841
VK223.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000093	0,097	85015
VK272.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000279	0,097	6568
VK363.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00004	0,096	567820
VK58.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00004	0,096	747450
VK426.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000074	0,096	85722
VK111.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000043	0,096	420841
VK366.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000078	0,095	116940
VK457.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000113	0,095	42896
VK48.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000049	0,095	204197
VK379.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,0001	0,094	45152
VK315.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000079	0,094	116185
VK282.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000142	0,094	26316
VK546.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000166	0,093	20072
VK262.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000042	0,093	468012
VK262.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000067	0,093	189702
VK171.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000293	0,093	5974
vik_urm160.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000065	0,091	202727
VK90.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000095	0,091	62866
VK155.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000063	0,091	118886
vik_2072.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,0002	0,09	9335
VK473.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00012	0,089	32575
vik_grt036.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000035	0,089	696285
VK445.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000036	0,088	585036
VK530.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00004	0,088	387226
VK143.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000132	0,087	27678
VK42.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000084	0,087	74289
VK128.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000036	0,086	585933
VK440.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000079	0,085	50552
VK329.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00017	0,083	15207
VK548.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000103	0,083	41116
VK498.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000032	0,082	556403
VK87.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000102	0,082	38494
VK397.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000087	0,082	55851
VK548.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000031	0,081	756292
VK382.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,00017	0,08	12960
VK544.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00012	0,08	27867
VK328.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000032	0,079	538298
VK303.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000034	0,079	595770
VK133.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000113	0,078	21045
VK166.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00003	0,078	748908
VK338.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000113	0,078	31728
VK19.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000036	0,078	373272
VK339.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000136	0,077	10201
VK385.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000034	0,077	520863
VK479.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000109	0,077	29834
VK247.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000438	0,076	1714
VK147.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000036	0,076	390619
VK94.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000069	0,075	61315
VK548.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000028	0,074	756797
VK259.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000053	0,074	174803

H1	H2	X	O	D	Z	#snps
VK133.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000715	0,073	583
VK60.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000116	0,073	24448
VK549.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000043	0,07	204144
VK400.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000077	0,07	48876
VK454.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000159	0,069	9427
VK426.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000045	0,069	87799
VK446.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000031	0,068	526035
VK476.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000263	0,068	3807
VK272.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000047	0,068	139266
VK23.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000041	0,068	181696
VK490.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,0001	0,067	26577
VK392.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000099	0,067	27738
VK433.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000025	0,067	681980
VK329.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,00003	0,066	464678
vik_grt036.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00003	0,066	680526
VK414.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00003	0,065	557578
VK101.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000044	0,065	204240
VK543.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000032	0,064	481142
VK363.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00003	0,064	555280
VK17.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000034	0,063	227554
VK398.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00003	0,063	552428
vik_kal009.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000042	0,061	134292
VK438.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000035	0,06	150513
VK485.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000028	0,059	395593
VK275.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00005	0,059	89466
VK270.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000133	0,058	9422
VK16.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000067	0,058	47129
VK226.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000095	0,057	19022
VK230.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000071	0,057	38532
VK380.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000202	0,056	4944
VK232.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000032	0,056	203708
VK479.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000057	0,056	62331
VK370.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000025	0,055	549183
VK453.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000159	0,055	6801
VK489.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000036	0,054	218088
VK286.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000068	0,054	40196
VK533.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000063	0,054	42260
VK437.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000182	0,054	5034
VK491.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000101	0,053	16499
VK309.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000033	0,053	167677
VK526.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000025	0,052	655958
VK278.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,000097	0,052	17184
VK352.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00002	0,052	531106
VK352.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00002	0,052	531425
VK424.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000074	0,052	29468
VK149.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000129	0,051	5357
VK24.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000035	0,05	114742
VK554.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000026	0,049	352142
vik_bns023.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,00037	0,049	1125
VK140.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000251	0,048	2324
VK437.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000353	0,048	943
VK468.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000049	0,048	70131
VK387.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000069	0,048	28950
VK396.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000023	0,048	532411
VK84.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000031	0,046	166611
VK494.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000033	0,046	113766
VK228.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	0,000053	0,045	31680
VK251.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000335	0,044	996
VK166.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00002	0,043	731108
VK269.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	0,000041	0,043	54287
VK48.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000044	0,043	61258
VK406.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000017	0,043	570213
VK518.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	0,00003	0,042	159941
VK127.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000032	0,042	121899
VK129.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000023	0,042	620029
VK435.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00015	0,042	3877
VK57.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000028	0,042	118610
VK330.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000029	0,042	172913
VK452.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000049	0,041	49482
vik_97029.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000072	0,041	19800
VK269.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000079	0,04	15749
VK273.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000044	0,04	50693
VK146.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000026	0,039	172798
VK63.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000024	0,039	133707
VK102.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000025	0,039	254540
VK546.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000064	0,038	20742

H1	H2	X	O	D	Z	#snps
VK288.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000016	0,038	415416
VK490.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000015	0,037	478716
VK363.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000015	0,037	568145
VK515.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000031	0,036	108067
VK527.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000026	0,036	146504
VK526.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000035	0,035	63795
VK31.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000017	0,035	254842
VK396.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000037	0,035	52146
VK314.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000019	0,034	192429
VK108.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000026	0,034	123472
VK355.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000023	0,033	183897
VK405.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000038	0,033	48280
VK355.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000013	0,032	528593
VK318.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000135	0,032	2265
VK272.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000071	0,032	11702
vik_97002.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000023	0,031	91345
VK358.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000012	0,03	490381
VK202.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000012	0,03	520075
VK111.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000022	0,03	167931
VK173.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,00001	0,028	552415
VK430.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000017	0,028	132159
VK480.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000032	0,027	44082
VK329.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000039	0,027	30033
VK414.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000011	0,027	570625
VK294.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000011	0,026	511833
VK270.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,00022	0,026	759
VK267.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000094	0,024	3561
VK434.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,00006	0,024	9740
VK159.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000043	0,024	19332
VK342.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000016	0,023	173005
VK434.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000017	0,023	130610
VK354.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,00001	0,023	369100
VK540.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,00001	0,023	444981
VK70.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000009	0,022	759415
VK90.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000012	0,022	179373
VK254.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,00001	0,021	320513
VK379.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000113	0,019	1476
VK507.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	0,000031	0,019	24358
VK143.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,000022	0,019	48449
VK373.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	0,00002	0,018	49763
VK480.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000007	0,017	462225
VK206.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000049	0,017	5342
VK494.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	0,000015	0,017	95507
VK166.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000006	0,014	748387
VK268.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	0,000018	0,014	33256
VK380.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000071	0,014	2364
VK334.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000011	0,014	105413
VK545.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000005	0,013	653092
VK221.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000005	0,013	674723
VK448.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000009	0,013	235514
VK509.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	0,000008	0,012	168473
VK514.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000015	0,012	44382
VK129.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000006	0,012	549530
VK540.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000027	0,012	12526
VK346.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000012	0,011	46818
VK86.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,00003	0,01	5232
VK270.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	0,00006	0,01	1397
VK469.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000038	0,01	4430
VK273.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0,000004	0,009	452180
VK252.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000036	0,008	2289
VK552.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000003	0,007	592297
VK147.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000009	0,007	38654
VK432.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	0,000004	0,007	192566
VK404.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	0,000003	0,007	596142
VK98.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000002	0,007	704322
vik_84035.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0,000003	0,006	153022
VK316.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000002	0,006	576730
VK369.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0,000012	0,005	14398
VK298.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000004	0,005	79822
VK443.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000003	0,005	235362
VK123.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	0,000002	0,005	449935

H1	H2	X	O	D	Z	#snps
VK366.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	0,000005	0,004	32892
VK251.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	0,000007	0,003	12180
VK506.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000001	0,002	540570
VK362.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000001	0,002	364813
VK71.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0	0,001	135662
VK314.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	0	0,001	163551
VK174.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0,000001	0,001	465182
VK445.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0,000001	0,001	571890
VK42.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	0	0,001	786407
VK86.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0	0	2341
VK365.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0	0	11842
VK94.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0	0	2399
VK450.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	0	0	29215
VK22.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	0	0	2668
VK485.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000001	-0,001	138981
VK175.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	0	-0,001	438012
VK475.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000001	-0,002	563076
vik_gtm021.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000001	-0,002	287900
VK347.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000006	-0,003	11857
VK230.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000002	-0,003	67191
VK294.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000002	-0,005	434524
VK143.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000003	-0,005	161902
VK364.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000002	-0,005	611724
VK468.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000006	-0,005	60052
VK149.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000017	-0,006	5376
VK322.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000004	-0,006	174604
VK426.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000005	-0,006	85835
VK339.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000014	-0,007	9902
VK166.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000008	-0,007	40632
VK254.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000019	-0,007	8982
VK226.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000008	-0,007	25943
VK406.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000011	-0,008	31144
VK144.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000008	-0,009	68830
VK414.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000006	-0,009	196393
VK362.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000005	-0,01	314681
VK30.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00001	-0,01	82768
VK99.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000005	-0,01	392766
VK422.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000004	-0,011	530789
VK270.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000029	-0,012	8758
VK454.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000008	-0,012	168019
VK224.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000027	-0,012	12523
VK170.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000014	-0,013	52306
VK428.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000011	-0,013	80015
VK31.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000012	-0,013	83713
VK555.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000006	-0,014	511702
VK448.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000005	-0,014	686563
VK383.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000086	-0,015	1935
VK60.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000006	-0,015	299401
VK466.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000023	-0,015	29218
VK167.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000019	-0,016	44627
VK267.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00006	-0,016	4161
VK35.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000007	-0,016	499253
VK506.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000012	-0,017	160429
VK549.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000018	-0,017	61325
VK472.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000018	-0,017	39434
vik_97029.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000014	-0,017	62117
VK290.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000024	-0,018	31696
VK473.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000019	-0,018	57100
VK154.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000007	-0,02	708097
VK507.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00001	-0,021	434988
VK138.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000035	-0,021	21394
VK217.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000059	-0,021	5648
VK279.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000009	-0,022	595838
VK455.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00001	-0,022	447656
VK459.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,00005	-0,022	11607
vik_urm045.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000017	-0,022	72500
VK20.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00001	-0,022	289616
VK303.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000028	-0,022	38545
VK216.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000028	-0,024	24017
VK314.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000048	-0,024	15542
VK200.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000158	-0,024	1052
VK270.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000026	-0,024	28630

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VK339.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000046	-0,025	10190
VK435.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00003	-0,025	40712
VK16.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000066	-0,025	7523
vik_gtm127.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000022	-0,026	47528
VK34.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00001	-0,026	545275
VK270.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000029	-0,027	28924
VK393.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000011	-0,027	541213
VK157.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000013	-0,027	451313
vik_grt036.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00001	-0,027	696709
VK95.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000012	-0,027	563114
VK253.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000275	-0,028	607
vik_84005.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,00004	-0,028	29033
VK470.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00004	-0,03	20323
VK410.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000027	-0,03	95950
VK398.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000033	-0,031	53746
VK446.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00005	-0,032	28371
VK58.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000031	-0,032	72561
VK470.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000043	-0,032	20312
VK480.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000055	-0,033	21243
VK369.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000038	-0,033	49858
VK53.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000041	-0,034	42996
VK200.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000089	-0,035	9364
VK393.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000014	-0,035	540895
VK510.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000047	-0,036	33478
VK315.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000016	-0,036	336601
VK149.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000093	-0,036	5420
VK427.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000025	-0,036	80906
VK219.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000014	-0,037	621454
VK31.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000022	-0,037	248854
VK406.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000027	-0,038	166368
VK364.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000017	-0,039	596799
VK392.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000019	-0,04	493857
VK94.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000028	-0,041	83551
VK256.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000062	-0,041	26787
VK35.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00003	-0,041	159208
VK404.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000018	-0,041	581839
VK486.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000054	-0,042	35744
VK519.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000111	-0,042	8279
VK268.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000095	-0,042	11438
VK218.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000034	-0,042	113828
VK42.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000016	-0,042	785840
VK69.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000021	-0,043	414377
VK297.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000019	-0,044	378542
VK301.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000076	-0,044	18710
VK154.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000016	-0,044	708573
VK392.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00002	-0,045	492945
VK327.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000019	-0,045	525257
VK39.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000121	-0,045	7561
VK492.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000033	-0,046	149671
VK405.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000079	-0,046	23164
VK111.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000057	-0,046	41267
VK264.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000037	-0,048	145072
VK227.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000097	-0,048	14662
vik_urm045.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000198	-0,049	3367
VK547.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000032	-0,05	224128
VK294.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000036	-0,051	164697
VK64.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000024	-0,052	361834
VK379.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00018	-0,053	5091
VK20.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00005	-0,053	88043
VK84.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000029	-0,054	333785
VK304.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000245	-0,054	2725
VK123.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000042	-0,055	145111
VK359.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000194	-0,057	4582
VK474.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000027	-0,057	610511
VK439.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00005	-0,058	93590
VK148.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000066	-0,059	27426
VK421.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00011	-0,059	10792
VK304.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	-0,000291	-0,059	2288
VK301.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	-0,000051	-0,06	109891
VK440.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000201	-0,06	4965
VK426.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000082	-0,06	30466
VK330.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000071	-0,06	47808
VK495.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000124	-0,061	14831
VK329.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000069	-0,061	52239
VK488.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000049	-0,062	137776
VK488.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000029	-0,062	460930
VK101.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000068	-0,062	56519
VK225.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000031	-0,062	284699
VK410.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000052	-0,062	81924
VK525.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000047	-0,063	174357
VK157.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000048	-0,064	157641

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VK550.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000027	-0,065	636460
VK371.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000091	-0,065	30288
VK159.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000119	-0,065	20313
VK298.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000032	-0,066	250726
VK140.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000537	-0,066	776
VK530.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000083	-0,066	37012
VK474.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000026	-0,066	624948
VK63.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000079	-0,066	46631
VK260.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000029	-0,066	455307
VK319.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,0001	-0,067	30787
VK48.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00005	-0,067	171014
VK167.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000143	-0,068	12848
VK15.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000036	-0,068	468214
VK379.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000126	-0,069	18446
VK406.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000026	-0,069	570565
VK398.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000048	-0,07	194386
VK492.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00005	-0,071	175391
VK207.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000124	-0,071	20854
VK350.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000048	-0,073	194420
VK358.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00003	-0,075	490109
VK393.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000035	-0,075	528960
VK454.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000056	-0,075	109287
VK217.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000071	-0,075	83579
VK289.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000037	-0,076	415402
VK448.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000096	-0,076	37444
VK448.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000035	-0,078	671129
VK172.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000036	-0,079	528557
VK232.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000261	-0,079	5749
VK257.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000036	-0,079	485665
VK519.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000167	-0,081	14452
VK150.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000087	-0,081	48651
vik_gtm127.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000076	-0,082	47913
VK87.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00004	-0,083	704188
VK318.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000329	-0,083	2255
vik_grt035.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000053	-0,083	259315
VK430.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000069	-0,083	111594
VK98.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000031	-0,084	703819
VK71.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,0001	-0,085	45112
VK86.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000239	-0,085	6269
VK94.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000063	-0,087	83500
VK470.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	-0,000276	-0,087	5731
VK95.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000059	-0,087	181513
VK545.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000032	-0,088	652694
VK301.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000124	-0,089	32307
VK324.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000039	-0,089	495612
VK392.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000036	-0,09	505233
VK403.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000128	-0,09	33310
VK373.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000131	-0,093	28596
VK327.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000043	-0,093	526148
VK445.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000039	-0,094	585399
VK146.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000129	-0,095	29704
VK397.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000045	-0,095	570254
VK408.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000056	-0,095	122717
VK359.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000606	-0,096	1375
VK419.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000038	-0,096	568198
VK65.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000151	-0,096	24858
VK413.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000752	-0,096	998
VK17.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000146	-0,096	25768
VK200.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000199	-0,097	10951
VK424.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000065	-0,097	98674
VK141.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000071	-0,098	185436
VK251.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000394	-0,098	3385
VK60.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000044	-0,098	299242
VK42.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000045	-0,098	767556
VK454.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000054	-0,099	169935
VK255.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000325	-0,099	5390
VK338.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000184	-0,1	15358
VK51.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000043	-0,1	386938
VK264.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000115	-0,1	47112
VK222.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001377	-0,1	363
VK539.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000135	-0,1	34460
VK379.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000088	-0,101	53434
VK401.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00004	-0,101	563067
VK399.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000039	-0,102	644425
VK254.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000148	-0,103	30874
VK358.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00005	-0,104	479405
VK530.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000084	-0,105	132646
VK205.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000116	-0,106	51580
VK138.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,00006	-0,106	211305

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VK397.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000043	-0,106	583252
VK404.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00005	-0,106	582756
VK226.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000946	-0,106	705
VK313.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000057	-0,107	203144
VK316.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00005	-0,107	577996
VK504.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000047	-0,108	430870
VK373.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000054	-0,108	510447
VK14.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,00032	-0,108	6258
VK154.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000043	-0,109	690516
VK511.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00006	-0,11	527308
VK221.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000051	-0,11	659103
VK335.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00008	-0,111	152583
vik_bns023.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000261	-0,111	9699
VK353.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000134	-0,111	46067
VK382.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000106	-0,112	46962
VK480.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000057	-0,112	451707
VK313.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000191	-0,112	19662
VK467.SG	Italy_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000259	-0,112	8947
VK304.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000324	-0,112	8479
VK511.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000056	-0,113	469017
VK135.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000272	-0,114	5999
VK272.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000316	-0,114	7648
VK304.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000326	-0,114	6159
VK508.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000061	-0,115	532106
VK525.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000242	-0,116	14106
VK530.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000048	-0,116	463471
VK437.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000232	-0,116	12598
VK260.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000048	-0,116	466571
VK17.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00005	-0,116	307247
VK526.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000046	-0,117	671525
VK168.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000079	-0,117	173002
VK357.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000078	-0,117	188068
VK164.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	-0,000668	-0,118	1186
VK206.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001362	-0,118	367
VK475.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000061	-0,118	633933
vik_kal009.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000154	-0,118	39601
VK408.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000274	-0,118	10341
VK315.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000216	-0,119	18485
VK206.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001056	-0,119	710
VK514.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00005	-0,12	513366
VK298.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000061	-0,12	250597
VK476.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000618	-0,12	2292
VK478.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000127	-0,12	59159
VK319.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000066	-0,121	269947
VK420.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000078	-0,122	183353
vik_urm161.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	-0,000223	-0,122	18337
VK135.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000369	-0,123	6101
VK527.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000054	-0,125	494339
VK491.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000131	-0,126	57460
VK315.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000065	-0,126	280438
VK444.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000096	-0,128	137757
VK482.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000097	-0,13	151113
VK222.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000725	-0,13	1078
VK547.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000178	-0,131	35146
VK543.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000058	-0,133	492260
VK163.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,002151	-0,133	310
VK134.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000112	-0,133	120175
VK366.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000108	-0,134	136190
VK57.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000324	-0,135	9768
vik_kls001.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000199	-0,135	29789
vik_kls001.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000177	-0,135	35685
VK161.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000791	-0,135	1580
VK178.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000105	-0,136	152680
vik_stg021.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000164	-0,136	41145
VK16.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000096	-0,136	156621
VK31.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000071	-0,136	248784
VK484.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000056	-0,137	552814
VK63.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000083	-0,137	135271
VK466.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000195	-0,137	33331
VK177.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000055	-0,138	500255
VK327.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00016	-0,138	51404
VK259.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000062	-0,138	464446
VK171.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,0001	-0,138	71598
vik_97026.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000231	-0,138	19858
VK298.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000074	-0,139	244619

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VK216.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000222	-0,141	20515
VK138.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000073	-0,141	235076
VK251.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000327	-0,142	10960
VK433.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000088	-0,142	218789
VK467.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	-0,000306	-0,142	9036
VK443.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000149	-0,143	65269
vik_stg021.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000065	-0,143	740449
VK334.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000072	-0,143	280103
VK524.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,0001	-0,144	174302
VK220.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000063	-0,144	648108
VK425.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000533	-0,144	4062
VK483.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000147	-0,145	62195
VK285.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000197	-0,146	34686
VK474.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00006	-0,146	624552
VK393.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000064	-0,147	527761
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VK155.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000109	-0,148	119069
VK435.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000186	-0,149	41635
VK440.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00015	-0,149	49620
VK469.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000165	-0,149	54401
VK261.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00011	-0,149	177306
vik_grt035.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000056	-0,15	759049
VK428.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000089	-0,15	125907
VK274.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000061	-0,151	630833
VK429.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000065	-0,151	614422
VK334.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000222	-0,153	27441
VK339.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000294	-0,154	10095
VK254.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000081	-0,154	313011
VK421.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000306	-0,154	10632
VK128.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000163	-0,155	55880
VK469.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000173	-0,155	45709
vik_urm045.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000133	-0,156	70843
VK35.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000072	-0,156	487343
VK368.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000068	-0,157	459415
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VK434.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000083	-0,157	176185
VK468.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000066	-0,157	623861
VK216.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,001475	-0,158	678
VK421.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000422	-0,158	9074
VK201.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000071	-0,159	547864
VK71.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000127	-0,159	115968
VK365.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000119	-0,159	148685
VK158.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000406	-0,159	8616
VK409.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000114	-0,16	116137
VK224.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000087	-0,161	153295
VK414.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000213	-0,161	31326
VK396.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000067	-0,162	544913
VK304.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000733	-0,163	2843
VK397.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000065	-0,163	583623
VK400.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000114	-0,163	176369
VK407.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000088	-0,163	159093
VK474.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000072	-0,164	609453
VK282.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00015	-0,165	87481
VK552.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000078	-0,167	578704
VK411.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001054	-0,167	1344
VK435.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000362	-0,167	11986
VK200.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000287	-0,168	11245
VK148.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000436	-0,168	9563
VK352.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00007	-0,168	518432
VK445.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000074	-0,168	571091
VK347.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000681	-0,17	3548
VK273.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000067	-0,172	524616
VK498.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000078	-0,173	543914
VK520.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000118	-0,173	185340
VK222.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,007752	-0,173	43
VK218.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000095	-0,173	356966
VK370.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000126	-0,174	162299
VK323.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000117	-0,175	183869
VK224.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000195	-0,175	53729
VK253.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000882	-0,175	2079
VK141.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000082	-0,176	530567
VK268.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000111	-0,176	117294

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VK438.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000199	-0,176	53528
VK462.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000193	-0,176	46407
VK470.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000366	-0,176	12774
VK212.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000296	-0,176	21415
VK31.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000087	-0,176	254580
VK168.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,0002	-0,177	51992
VK441.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000268	-0,18	23416
VK205.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00031	-0,182	24717
VK265.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000125	-0,183	170158
vik_stg026.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000147	-0,184	114821
VK408.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000114	-0,184	122644
VK492.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000211	-0,185	48630
VK149.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,002151	-0,185	310
VK411.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000403	-0,186	13799
VK457.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000575	-0,186	6235
vik_84001.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000078	-0,186	746894
vik_stg021.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000068	-0,186	758530
VK275.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000517	-0,187	7732
vik_urm035.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000206	-0,187	53078
VK337.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000126	-0,188	232941
VK318.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002863	-0,188	262
VK430.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000143	-0,188	100059
VK480.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000085	-0,189	451113
VK429.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000222	-0,189	39723
VK60.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000102	-0,189	251613
vik_kls001.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000261	-0,189	32517
VK304.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001731	-0,189	674
VK337.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000124	-0,19	215739
VK389.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000089	-0,19	525837
VK64.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000155	-0,19	108013
VK403.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000088	-0,19	595817
VK292.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000201	-0,192	46740
VK415.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000075	-0,193	564079
VK219.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000088	-0,193	607337
VK39.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000151	-0,193	86210
VK57.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000585	-0,194	6554
VK254.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000106	-0,194	313579
VK14.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000175	-0,194	74358
VK145.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000078	-0,195	519793
VK380.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00074	-0,195	4168
VK484.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000092	-0,196	540194
VK544.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00013	-0,196	209013
VK327.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000074	-0,196	538058
VK388.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00009	-0,196	489371
VK230.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000076	-0,196	707200
VK497.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000206	-0,197	57380
VK63.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000593	-0,198	6323
VK490.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000101	-0,199	354327
VK553.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000087	-0,199	554584
VK279.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000134	-0,199	242576
VK496.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00009	-0,2	662121
VK353.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000134	-0,2	179457
VK287.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000101	-0,201	294431
vik_84005.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00008	-0,201	526329
VK514.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000083	-0,202	525818
VK415.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000095	-0,202	551074
VK275.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000183	-0,203	96268
VK163.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001981	-0,204	589
VK262.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000284	-0,204	30201
vik_stg021.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000078	-0,204	757986
VK409.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000159	-0,204	116321
VK448.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000077	-0,205	686969
VK261.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000227	-0,205	49229
VK223.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000097	-0,205	248083
VK421.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000533	-0,205	8026
VK326.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000244	-0,206	46875
VK346.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000139	-0,206	181219
VK301.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000266	-0,207	38552
VK170.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000144	-0,207	159749
VK402.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000095	-0,207	595367
VK292.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000322	-0,208	25633
VK295.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000169	-0,208	116272
VK269.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000365	-0,209	19163
VK144.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000157	-0,21	68855
VK334.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00011	-0,21	322539
VK526.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000087	-0,211	671095
VK285.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,00009	-0,211	355018
VK157.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000084	-0,211	461846
VK254.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000195	-0,211	94234
VK292.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000886	-0,212	3386
VK40.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,00026	-0,212	35845
VK332.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000148	-0,213	208376
vik_gtm021.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000123	-0,213	215747

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VK490.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000095	-0,214	470924
VK128.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000303	-0,214	31902
VK282.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000123	-0,214	268665
VK467.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,004032	-0,214	248
VK63.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000175	-0,215	113230
vik_urm161.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000178	-0,216	64920
vik_grt035.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000099	-0,218	741521
VK35.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000257	-0,218	47753
vik_gtm127.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000283	-0,219	31833
VK491.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000152	-0,22	206838
VK453.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000135	-0,22	120497
VK471.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000143	-0,22	153765
VK505.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000163	-0,221	152570
VK92.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00042	-0,222	17843
VK215.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000199	-0,223	51956
VK258.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000095	-0,223	489715
VK168.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,0001	-0,224	461075
VK473.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000102	-0,224	584647
VK133.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,00138	-0,225	1147
VK260.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000173	-0,225	160681
VK457.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000277	-0,226	39462
vik_84035.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000125	-0,227	152917
VK480.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000302	-0,228	37768
VK484.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000167	-0,228	160276
VK498.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000098	-0,228	543155
VK157.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000094	-0,228	461442
VK309.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000236	-0,228	69218
VK402.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000087	-0,228	608948
VK415.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000275	-0,229	47005
VK134.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000198	-0,229	102640
VK428.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000139	-0,229	125841
VK148.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001114	-0,23	2692
VK279.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000234	-0,23	67287
VK255.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000215	-0,23	54757
VK349.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000164	-0,232	190156
VK24.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000154	-0,232	114260
VK397.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000099	-0,233	569310
VK457.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00019	-0,234	109499
VK53.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000179	-0,235	155351
vik_bns023.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000483	-0,235	13053
VK471.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000277	-0,236	50451
VK158.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000289	-0,236	26468
vik_stg020.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000675	-0,237	7529
VK153.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000313	-0,238	37317
VK529.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000104	-0,24	624154
VK141.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000182	-0,241	157813
VK16.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000922	-0,242	4430
VK383.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000353	-0,243	24483
VK60.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000137	-0,243	292957
VK264.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000168	-0,243	157767
vik_97002.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,001202	-0,244	2565
VK473.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000094	-0,245	598451
VK398.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000164	-0,245	180256
VK394.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000183	-0,246	145192
VK441.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000378	-0,246	20141
VK48.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000559	-0,246	11485
vik_gtm127.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000218	-0,246	47941
VK485.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000445	-0,247	18546
VK319.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000215	-0,247	92976
VK433.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000104	-0,247	581066
VK359.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000831	-0,248	3949
VK335.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000115	-0,248	440609
VK34.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000176	-0,248	187592
VK549.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000332	-0,249	35162
VK148.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,000464	-0,249	16356
VK475.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000103	-0,249	752352
VK92.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00013	-0,25	183486
VK141.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000118	-0,25	458278
VK413.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000489	-0,25	13585
VK514.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000098	-0,251	526161

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VK295.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000136	-0,251	328990
VK223.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000139	-0,251	242615
VK405.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000316	-0,251	40854
VK101.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000097	-0,251	591360
VK146.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000403	-0,252	24821
vik_97029.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000205	-0,252	61265
VK491.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000106	-0,254	508712
vik_84001.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000301	-0,254	41587
VK424.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000802	-0,254	5510
VK22.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000229	-0,255	70277
VK496.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00025	-0,256	64431
VK358.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000291	-0,258	47038
VK141.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000183	-0,258	172838
VK406.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000103	-0,258	556601
VK312.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,00059	-0,26	12565
VK141.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000295	-0,26	51426
VK338.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000166	-0,26	269604
VK485.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000133	-0,261	294732
VK165.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00013	-0,261	381051
VK270.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00119	-0,261	2801
VK419.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000115	-0,262	554277
VK548.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000111	-0,262	738952
VK415.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000104	-0,262	563713
VK347.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000489	-0,263	11787
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VK550.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000139	-0,264	537358
VK457.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000197	-0,264	130403
VK230.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000102	-0,264	706763
VK289.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00012	-0,265	414814
VK464.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000237	-0,265	58255
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VK426.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000664	-0,265	8910
VK101.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000115	-0,265	509509
VK394.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000108	-0,266	418785
VK339.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000729	-0,267	8340
VK149.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000891	-0,268	5424
VK178.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000111	-0,268	443936
VK345.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000338	-0,268	42699
VK496.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000098	-0,269	677962
VK392.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000309	-0,269	48316
VK454.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000292	-0,269	59630
VK382.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000252	-0,271	46285
vik_gtm021.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000228	-0,271	92359
VK408.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000347	-0,271	42034
VK426.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000264	-0,271	72483
VK69.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000133	-0,272	371246
vik_stg026.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000117	-0,273	370270
VK386.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000191	-0,273	193142
VK172.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000107	-0,274	540635
VK459.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000168	-0,274	135973
VK326.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00014	-0,275	569402
VK413.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000384	-0,276	20810
vik_97002.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000729	-0,276	8805
VK15.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000331	-0,276	45765
VK514.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000313	-0,278	50133
VK384.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000194	-0,278	188730
VK458.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000232	-0,278	104924
VK359.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000856	-0,279	4573
VK178.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000436	-0,279	24268
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VK462.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000933	-0,279	5090
VK510.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000307	-0,28	58408
VK428.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000626	-0,28	11978
VK141.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000114	-0,281	542773
VK300.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000172	-0,282	218179
VK520.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000111	-0,282	630947
VK312.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000189	-0,283	186796
VK135.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000689	-0,283	6100
VK266.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000199	-0,283	132526
VK285.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000136	-0,283	299666
VK484.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000123	-0,286	539346
VK134.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000127	-0,286	344837
VK273.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000201	-0,286	168909
vik_97002.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000226	-0,286	89212
VK347.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,002594	-0,287	514
VK361.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000192	-0,287	176964
vik_kls001.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000893	-0,287	5690
VK145.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00047	-0,288	24099
VK267.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00058	-0,288	12779

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VK178.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000122	-0,289	443630
VK540.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000125	-0,289	456064
VK504.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000155	-0,29	319732
VK141.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000125	-0,29	529447
VK16.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000173	-0,29	160050
VK149.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,003546	-0,292	423
VK372.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000207	-0,292	199800
VK297.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000473	-0,293	20803
VK208.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000275	-0,293	47095
VK411.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000484	-0,293	14135
VK543.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000121	-0,294	492573
VK415.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000122	-0,294	550467
VK260.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000122	-0,294	466278
VK394.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000146	-0,295	409596
VK173.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000207	-0,296	190009
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VK144.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000232	-0,297	68820
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VK348.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000148	-0,298	361135
VK471.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000174	-0,299	156227
VK402.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000124	-0,299	594341
VK489.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000135	-0,3	620741
VK379.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001329	-0,301	2947
VK212.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000149	-0,301	220183
VK382.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000317	-0,302	45551
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VK449.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000138	-0,302	436556
VK253.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00067	-0,303	6324
VK540.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000233	-0,303	156587
VK319.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000137	-0,305	318823
VK472.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000361	-0,306	47132
VK222.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,002558	-0,306	733
vik_bns023.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	-0,000567	-0,306	12943
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VK20.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000182	-0,307	214634
VK33.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000698	-0,307	11580
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VK339.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00064	-0,308	9938
VK438.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000171	-0,308	154026
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vik_urm161.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,001844	-0,31	1762
VK202.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000345	-0,311	50294
vik_urm045.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,001717	-0,311	2038
VK409.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000722	-0,311	11428
VK548.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000127	-0,312	737453
VK261.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000139	-0,313	437140
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VK474.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000219	-0,314	214667
VK164.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001866	-0,315	1173
VK15.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000132	-0,315	478676
VK98.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000127	-0,315	686724
VK247.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,002338	-0,316	998
VK285.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000166	-0,316	351333
VK95.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000134	-0,316	562281
VK71.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000371	-0,317	42467
VK221.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000214	-0,318	231040
VK425.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00023	-0,318	85106
VK495.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000223	-0,319	155948
VK332.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,00036	-0,32	49743
VK287.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000148	-0,32	301464
VK398.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00023	-0,321	165509
VK430.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000189	-0,322	133390
VK110.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000127	-0,322	570314
VK173.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000122	-0,323	552052
VK172.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000129	-0,324	541017
VK266.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,00051	-0,324	22862
VK275.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000175	-0,324	273270
VK428.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000266	-0,324	91974
VK252.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	-0,001215	-0,327	2375
VK359.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000998	-0,328	4553
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vik_84005.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00024	-0,328	161758

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VK176.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000202	-0,33	224811
VK477.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000233	-0,33	155976
VK143.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000418	-0,331	41691
VK421.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,005241	-0,331	318
VK470.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001089	-0,331	5817
VK396.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000138	-0,331	544570
VK329.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000129	-0,332	548258
VK441.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000446	-0,332	23215
VK430.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001004	-0,333	6474
VK328.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000495	-0,335	29780
VK334.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000261	-0,335	114099
VK385.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000131	-0,336	617766
VK368.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00053	-0,336	25006
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VK60.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00049	-0,336	28593
VK207.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000162	-0,336	372045
VK554.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000155	-0,337	468305
VK281.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000147	-0,337	660850
VK476.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000296	-0,337	69468
VK153.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	-0,000823	-0,337	10737
VK222.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	-0,00197	-0,337	1054
VK458.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000769	-0,338	10510
VK404.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000367	-0,338	56551
VK318.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001295	-0,339	2287
VK314.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,001134	-0,34	5512
VK473.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000131	-0,34	598074
VK309.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000378	-0,34	57274
vik_KAL006.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000183	-0,341	462556
VK528.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000444	-0,342	33376
VK333.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000394	-0,342	44793
VK42.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000142	-0,344	766020
VK383.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001514	-0,346	2752
VK318.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001777	-0,346	1923
VK450.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001298	-0,346	4942
VK259.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000134	-0,347	543092
VK272.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000449	-0,347	41902
VK328.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000391	-0,348	51617
VK215.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000673	-0,348	16850
VK178.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000152	-0,348	433199
VK457.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000404	-0,349	46387
VK330.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000239	-0,349	160597
VK548.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000479	-0,35	34250
VK282.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000186	-0,351	268134
VK444.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00044	-0,352	41080
VK476.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000344	-0,352	60475
VK166.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000148	-0,353	729874
VK370.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000176	-0,353	550339
VK470.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000544	-0,353	19826
VK388.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000268	-0,353	147351
vik_stg021.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00014	-0,353	739046
VK448.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000149	-0,355	669740
VK147.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000175	-0,355	437738
VK202.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000255	-0,355	180854
vik_gtm127.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000378	-0,355	42284
VK23.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000196	-0,355	207326
VK228.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001924	-0,355	1776
VK247.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001395	-0,357	3703
VK280.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000359	-0,357	62468
vik_urm045.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000287	-0,357	71797
VK313.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000832	-0,358	11323
VK175.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000183	-0,359	327065
VK427.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00054	-0,359	26217
VK205.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000255	-0,36	186203
VK216.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000441	-0,36	23744
VK466.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000341	-0,36	70538
VK304.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000949	-0,36	7139
VK262.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000237	-0,361	175460
VK482.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000751	-0,363	14319
VK65.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000204	-0,363	252924
VK425.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000556	-0,364	25793

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VK387.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000261	-0,365	158094
VK403.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000252	-0,365	209331
VK215.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000334	-0,366	52481
VK84.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000741	-0,366	14281
VK172.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000533	-0,366	29537
VK476.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000259	-0,366	82808
VK206.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000876	-0,367	7181
VK335.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000401	-0,367	49439
vik_97002.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000268	-0,367	90260
VK149.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001077	-0,368	5315
VK317.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000248	-0,368	174215
VK345.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000188	-0,368	330747
VK144.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001177	-0,369	5591
VK168.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000147	-0,369	537398
VK354.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000175	-0,369	362869
VK14.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,0012	-0,369	5347
VK399.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000143	-0,369	644007
VK315.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000203	-0,37	329192
VK363.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,0005	-0,37	31025
VK207.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000166	-0,372	381363
VK95.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000404	-0,372	54613
VK398.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000147	-0,373	565430
VK549.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000143	-0,374	635802
VK287.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000203	-0,374	294925
VK510.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000182	-0,375	446659
VK349.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,00044	-0,375	45055
VK270.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000407	-0,375	28907
VK288.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000185	-0,375	410965
VK359.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00105	-0,376	4621
VK269.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001287	-0,376	5245
VK546.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000335	-0,377	62256
VK469.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001019	-0,377	7279
vik_84005.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000207	-0,377	442895
VK551.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00038	-0,378	67125
VK359.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001404	-0,379	3502
VK147.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000151	-0,379	447903
VK406.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000426	-0,379	54434
VK65.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000334	-0,38	83111
VK167.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000281	-0,381	160588
VK394.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00015	-0,382	419020
VK435.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000369	-0,382	41620
VK459.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000267	-0,382	117468
VK138.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000637	-0,384	23033
VK275.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000745	-0,384	15542
VK382.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00153	-0,385	4522
vik_kls001.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,001598	-0,385	2816
VK525.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000161	-0,386	507352
VK232.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000652	-0,387	20181
VK215.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000497	-0,388	33558
VK150.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000466	-0,388	42229
VK202.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000649	-0,389	24276
VK252.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001703	-0,389	2340
VK161.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,002459	-0,389	1491
VK481.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000248	-0,39	174462
vik_84035.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000442	-0,391	46985
VK434.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000292	-0,392	147124
VK540.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000478	-0,392	43267
VK262.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000161	-0,393	552110
VK247.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001483	-0,394	3483
VK475.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000254	-0,394	224437
VK51.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000223	-0,395	334490
VK204.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000159	-0,396	491905
VK342.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000146	-0,396	584634
VK362.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000178	-0,396	373693
VK349.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000177	-0,397	465830
VK292.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000365	-0,397	62286
VK422.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000178	-0,397	457000
VK301.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000321	-0,398	138759
VK216.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001115	-0,398	7701
VK200.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,00083	-0,398	9744
VK504.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000189	-0,399	423759
VK368.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000459	-0,399	51981
VK63.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000481	-0,399	41560

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VK291.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000445	-0,4	49408
VK533.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000263	-0,401	224651
VK339.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,001145	-0,403	6499
VK276.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000373	-0,404	82095
VK224.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000797	-0,404	14748
VK434.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000231	-0,405	173364
VK421.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,003629	-0,405	597
VK201.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000297	-0,406	161539
VK163.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001566	-0,406	3885
VK393.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000443	-0,407	51691
VK361.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000168	-0,408	550874
VK304.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000855	-0,408	8371
VK385.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000427	-0,409	58732
VK539.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000284	-0,409	184563
VK347.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000713	-0,411	12149
VK347.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000945	-0,411	10050
VK438.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000311	-0,411	112919
VK309.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000263	-0,411	196105
VK425.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000276	-0,411	86434
VK426.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000297	-0,411	85195
VK86.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,001403	-0,412	4614
vik_nuf002.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000263	-0,412	127958
VK164.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002386	-0,413	1199
VK141.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000168	-0,414	543094
VK253.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000934	-0,414	6414
VK30.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000265	-0,414	175490
VK57.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000322	-0,416	100655
VK18.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000179	-0,416	386076
VK542.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000284	-0,416	192514
VK287.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000194	-0,417	301618
VK39.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000305	-0,417	88202
VK357.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000445	-0,417	56393
VK442.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000466	-0,418	52261
VK366.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000184	-0,418	390717
vik_kls001.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001098	-0,421	9792
vik_kal009.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000285	-0,422	133222
VK309.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000455	-0,422	64057
VK495.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000167	-0,423	528254
VK401.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000295	-0,423	164082
VK554.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000493	-0,424	45961
VK262.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00064	-0,424	25252
VK336.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000177	-0,425	555574
VK543.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000311	-0,426	168970
VK474.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000496	-0,426	50917
VK524.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000194	-0,427	442459
VK252.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005882	-0,427	255
VK95.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000615	-0,427	26308
vik_97029.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000471	-0,428	45176
VK294.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000311	-0,429	177913
VK337.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000198	-0,429	665160
VK278.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,00021	-0,431	316051
vik_97029.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000374	-0,432	60623
VK404.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000661	-0,432	27215
VK352.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000201	-0,433	519347
VK394.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000192	-0,433	409271
VK525.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000204	-0,435	424939
VK443.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000281	-0,435	198587
VK221.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000442	-0,438	64057
VK464.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,002507	-0,438	1695
vik_KAL006.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000608	-0,438	30543
vik_urm045.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000707	-0,438	24990
VK230.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000198	-0,438	690800
VK285.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000335	-0,439	114141
VK123.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000541	-0,439	43156
VK69.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000526	-0,44	40087
VK147.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000175	-0,441	448239
VK22.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000295	-0,441	96068
VK330.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000182	-0,441	497867
VK382.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,002279	-0,442	2194
VK257.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000619	-0,442	27321
VK510.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000313	-0,443	178262
VK516.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000316	-0,443	167897
VK167.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,0002	-0,444	458072
VK94.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001179	-0,444	8127
VK281.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000161	-0,445	676548
VK389.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000641	-0,445	29513

H1	H2	X	O	D	Z	#snps
VK301.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000225	-0,446	338305
VK150.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000727	-0,447	23371
VK318.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00171	-0,448	2323
VK252.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	-0,001637	-0,448	2375
VK546.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000419	-0,45	62317
VK163.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000769	-0,451	12003
VK472.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,002017	-0,451	2685
VK303.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000208	-0,451	692948
VK355.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000526	-0,452	51061
VK163.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000936	-0,453	11918
VK410.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000317	-0,453	95000
VK279.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000173	-0,454	708348
VK140.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,004847	-0,455	447
vik_kal009.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001014	-0,455	12985
VK23.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000222	-0,456	212355
VK247.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00049	-0,458	34816
VK433.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000304	-0,458	236382
VK489.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000314	-0,46	185630
VK301.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000372	-0,46	128397
VK247.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000474	-0,461	35589
VK369.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000338	-0,461	179730
VK428.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000347	-0,461	123226
VK123.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000216	-0,461	387061
VK149.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002691	-0,462	1796
VK460.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000308	-0,462	142300
VK470.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000766	-0,462	17194
VK354.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000266	-0,462	305308
VK347.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003181	-0,464	1205
VK552.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000193	-0,466	577649
VK178.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000231	-0,466	433776
VK362.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000769	-0,466	20582
VK373.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000327	-0,466	178994
vik_urm045.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000366	-0,466	72550
vik_urm045.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000449	-0,466	70971
VK35.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000221	-0,466	488349
VK455.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000199	-0,467	595696
VK206.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000965	-0,468	7280
VK347.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001698	-0,468	3827
VK549.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000307	-0,471	220554
VK326.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000333	-0,471	181162
VK202.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,0002	-0,471	513045
VK402.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00018	-0,471	609325
VK163.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001855	-0,472	3549
VK172.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000323	-0,472	172672
VK488.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000335	-0,474	162686
VK365.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000263	-0,474	273755
VK222.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,003559	-0,474	796
VK303.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000329	-0,474	242606
VK15.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000341	-0,475	139576
VK135.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004199	-0,476	635
VK352.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000342	-0,476	154640
VK228.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,003246	-0,476	1412
VK98.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000604	-0,476	38518
VK526.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000215	-0,477	654564
VK385.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000219	-0,477	603883
VK382.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000503	-0,478	45817
VK208.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000893	-0,478	16137
VK544.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000179	-0,478	608556
VK309.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000256	-0,478	200452
VK161.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,005094	-0,478	409
VK69.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000197	-0,479	423733
VK34.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000232	-0,48	533085
VK386.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000261	-0,481	460298
VK476.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000506	-0,482	52395
VK303.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000185	-0,482	709540
VK222.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003081	-0,484	1055
VK57.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000387	-0,485	117316
vik_kls001.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00036	-0,485	99782
VK495.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000257	-0,486	438450
VK221.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000201	-0,486	657666
VK267.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,003263	-0,487	1277
VK291.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000364	-0,489	149332
VK383.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001132	-0,489	10675
VK469.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000938	-0,489	15278
VK284.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000199	-0,49	504499
VK71.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000321	-0,491	135207
VK383.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00049	-0,491	33621
VK457.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000382	-0,491	97610
VK20.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000237	-0,491	285067
VK460.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000366	-0,493	158956

H1	H2	X	O	D	Z	#snps
VK398.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000215	-0,493	551599
VK379.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000586	-0,495	39102
VK332.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,000926	-0,495	16640
VK164.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,006338	-0,496	355
VK318.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001768	-0,497	2324
VK140.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,006427	-0,497	389
VK359.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002256	-0,498	2777
VK309.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000284	-0,498	195720
VK134.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000246	-0,499	339219
VK367.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000276	-0,5	411765
VK410.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001794	-0,5	4459
VK99.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00026	-0,5	429598
VK163.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,004492	-0,501	705
VK16.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000335	-0,501	156331
VK292.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000377	-0,502	74210
VK22.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000346	-0,502	96004
VK384.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000353	-0,503	158736
VK496.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000187	-0,504	677518
VK525.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000247	-0,504	495857
vik_84035.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00153	-0,504	7135
VK487.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00034	-0,505	194387
VK261.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000354	-0,505	164313
vik_97002.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001679	-0,505	5112
VK396.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000378	-0,505	159117
VK143.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000202	-0,506	502162
VK139.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000243	-0,507	249515
VK460.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000527	-0,507	66891
VK431.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001016	-0,508	14594
VK407.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000303	-0,508	155335
VK133.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002373	-0,509	2283
VK530.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000253	-0,511	453145
VK225.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000272	-0,512	279945
VK453.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000373	-0,513	119003
VK158.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,002505	-0,513	2528
VK519.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001001	-0,514	15312
VK435.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000601	-0,514	34768
VK479.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000346	-0,514	189315
VK426.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000353	-0,514	86544
VK297.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000256	-0,517	322500
VK548.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000335	-0,517	218303
VK333.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000366	-0,518	187391
VK279.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000228	-0,518	692341
VK292.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000379	-0,518	74249
VK167.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000374	-0,519	149701
VK467.SG	Italy_LA.SG	Russia_Bolshoy	Yoruba.DG	-0,000979	-0,519	9218
VK306.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000226	-0,519	496604
VK498.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000366	-0,52	162155
VK497.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000368	-0,521	175359
VK208.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000596	-0,522	39316
VK539.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000256	-0,522	458963
VK95.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000201	-0,522	575884
VK203.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00038	-0,523	152145
VK533.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000241	-0,523	564485
VK467.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00612	-0,523	463
VK425.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001418	-0,523	8405
VK58.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000337	-0,524	222879
VK264.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000217	-0,524	494486
VK333.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000722	-0,525	29780
VK430.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001129	-0,525	13209
VK39.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001966	-0,525	4112
VK389.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000206	-0,526	537812
VK339.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004158	-0,527	962
VK288.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000228	-0,528	420086
VK57.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00163	-0,528	5622
VK99.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000217	-0,528	439462
VK527.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000247	-0,529	371871
VK228.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,002393	-0,529	2716
VK327.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00037	-0,53	185356
VK90.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000285	-0,531	181069
VK453.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000395	-0,531	102839
VK252.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002813	-0,531	1770
VK39.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000381	-0,531	88246
VK153.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00055	-0,533	37329
VK408.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000666	-0,533	39906
VK431.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000575	-0,534	56343

H1	H2	X	O	D	Z	#snps
VK34.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000231	-0,535	532322
VK424.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00174	-0,535	4646
VK216.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001542	-0,536	7186
VK222.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,006554	-0,536	356
vik_97002.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000457	-0,536	89343
VK408.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000721	-0,536	37904
VK127.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000253	-0,537	323268
VK270.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,002869	-0,537	2353
VK380.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000443	-0,537	78349
VK158.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000839	-0,537	19718
VK304.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,007353	-0,539	408
VK398.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000211	-0,539	565062
VK469.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000301	-0,54	155832
VK303.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000217	-0,54	709124
VK526.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000705	-0,542	36664
VK276.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	-0,000866	-0,542	22173
VK442.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000215	-0,544	542237
VK494.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,00231	-0,544	3247
VK366.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00074	-0,545	37842
VK329.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000214	-0,546	548603
VK172.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000234	-0,547	527910
VK367.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000238	-0,547	489727
VK413.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000984	-0,547	21010
VK470.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000933	-0,547	19858
VK42.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00035	-0,547	226869
VK495.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000236	-0,548	519775
VK313.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001425	-0,548	9476
VK138.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000252	-0,548	240696
VK440.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,000783	-0,548	30120
VK514.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00039	-0,549	158715
vik_97002.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00039	-0,549	91386
VK313.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000556	-0,551	70770
VK51.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000254	-0,551	381684
vik_urm045.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001715	-0,551	6124
VK201.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000225	-0,553	560658
VK298.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001248	-0,553	11419
VK14.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001402	-0,553	9746
VK39.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001448	-0,553	8400
VK227.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000268	-0,553	262164
VK200.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001351	-0,554	8311
VK140.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,002711	-0,554	2459
VK39.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000479	-0,554	86326
VK206.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,006143	-0,555	407
VK428.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00065	-0,555	43691
VK317.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000249	-0,556	460577
VK314.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001346	-0,557	10652
VK204.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000246	-0,557	483805
VK223.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000296	-0,557	242559
VK14.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	-0,000748	-0,558	32853
VK367.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000222	-0,559	497895
VK454.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000306	-0,559	171696
VK334.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00025	-0,559	329826
VK343.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000275	-0,56	409811
VK527.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000312	-0,56	415082
VK14.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000372	-0,561	113927
vik_urm161.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000666	-0,562	54217
VK275.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000253	-0,564	279287
VK247.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000552	-0,566	35624
vik_urm035.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000299	-0,566	179501
VK544.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000257	-0,567	594578
VK286.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000961	-0,567	22984
VK389.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000229	-0,567	525154
VK253.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00151	-0,567	6272
VK322.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000216	-0,568	541481
VK402.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000373	-0,568	177460
VK172.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000396	-0,569	185629
vik_kls001.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000459	-0,57	99988
VK270.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000763	-0,571	24611
VK450.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000841	-0,571	26570
VK328.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000268	-0,572	531220
VK202.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000223	-0,572	525445
VK256.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000394	-0,572	171166

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VK425.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001808	-0,574	4933
VK344.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000664	-0,575	47424
VK530.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000908	-0,575	25250
VK153.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,002275	-0,575	3626
vik_grt036.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000244	-0,576	678982
VK385.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000228	-0,577	618125
VK345.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000305	-0,577	521115
VK253.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001736	-0,577	5375
VK367.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000287	-0,578	368638
VK431.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000323	-0,578	175701
VK306.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00024	-0,578	509304
VK312.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000376	-0,579	168251
VK382.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001171	-0,58	14096
VK318.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,012232	-0,58	109
VK324.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000397	-0,58	186328
VK153.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001387	-0,581	11294
vik_grt035.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000385	-0,582	219478
VK445.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000417	-0,583	200889
vik_84001.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000571	-0,583	72476
VK289.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000705	-0,584	40688
VK308.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000413	-0,584	174815
VK219.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000413	-0,586	180222
VK404.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000397	-0,586	205128
VK205.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000253	-0,587	529054
VK380.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000869	-0,587	27991
VK17.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000363	-0,587	255994
VK353.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000234	-0,587	559305
VK432.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000433	-0,588	159141
VK262.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000248	-0,588	552473
VK219.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00024	-0,588	605926
VK453.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001916	-0,589	5523
VK90.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000384	-0,59	153758
VK342.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000861	-0,59	27207
VK139.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000385	-0,591	207223
VK313.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000349	-0,592	200643
VK413.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,001008	-0,592	17965
VK401.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000247	-0,592	549223
VK86.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,002756	-0,593	2449
VK446.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000243	-0,593	622205
VK322.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000259	-0,593	462735
vik_urm035.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000354	-0,594	175313
VK225.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000361	-0,594	210858
VK350.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000612	-0,595	58455
VK456.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000431	-0,595	165116
VK200.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003979	-0,596	1131
VK263.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000282	-0,596	424379
vik_urm035.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,00037	-0,596	152092
VK252.SG	Italy_North_EarlyMedieval_Langobards_3	Russia_Bolshoy	Yoruba.DG	-0,002342	-0,597	2301
vik_urm035.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000404	-0,598	175660
VK201.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000243	-0,599	560321
VK208.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000542	-0,599	47124
VK156.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000314	-0,599	307875
VK329.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000271	-0,6	536218
VK65.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000277	-0,6	258546
VK164.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,022989	-0,6	29
VK276.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,002122	-0,6	4437
VK520.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000319	-0,602	522604
vik_kls001.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001535	-0,602	8360
VK160.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000291	-0,602	451098
VK282.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000397	-0,603	223349
VK171.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00094	-0,603	23498
VK545.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000242	-0,604	636675
VK135.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001449	-0,604	6101
VK429.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000246	-0,604	710684
VK430.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000407	-0,604	131416
VK255.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001196	-0,604	16577
vik_84005.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000268	-0,604	518219
VK372.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000434	-0,605	169021
VK533.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000227	-0,605	766848
VK259.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00066	-0,605	52374
vik_97002.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000904	-0,605	28933
VK514.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000948	-0,606	24097
VK429.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00027	-0,606	712030
VK272.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000355	-0,606	140207
VK15.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000284	-0,606	467191
VK99.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000279	-0,606	429132

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VK145.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000436	-0,607	167299
VK362.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000479	-0,607	108143
vik_97002.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,002251	-0,607	4295
VK476.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00166	-0,608	7934
vik_bns023.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,005158	-0,61	727
VK225.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000904	-0,61	27746
VK441.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002859	-0,611	2419
VK205.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000249	-0,612	542472
VK289.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000486	-0,612	122483
VK512.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000419	-0,613	191459
VK529.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000328	-0,613	524656
VK339.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002552	-0,613	3331
VK494.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000779	-0,613	40561
VK525.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000256	-0,614	507077
VK51.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000468	-0,614	126538
VK408.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000465	-0,614	120070
VK205.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00024	-0,615	542169
VK295.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000306	-0,615	328315
VK530.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000276	-0,615	452112
VK446.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000241	-0,616	622596
VK63.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000479	-0,616	99072
VK256.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00068	-0,616	55721
VK334.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000267	-0,616	330029
VK215.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,002823	-0,617	2863
VK252.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,01358	-0,617	135
VK332.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000665	-0,618	57642
VK278.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000494	-0,618	108458
VK315.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000308	-0,619	328431
VK221.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000424	-0,619	194577
vik_urm045.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00188	-0,62	6958
VK359.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,006657	-0,621	363
VK171.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,002291	-0,621	3964
VK339.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001681	-0,622	7329
VK477.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000675	-0,624	51217
VK437.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003578	-0,625	1747
VK380.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000427	-0,627	88791
vik_84035.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000762	-0,628	52476
VK368.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000446	-0,628	187920
VK467.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00269	-0,628	3191
VK407.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001334	-0,628	13057
VK489.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000227	-0,629	635430
VK23.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000377	-0,63	207704
VK347.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001464	-0,631	8932
VK454.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00181	-0,631	7967
VK123.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00047	-0,631	155837
VK228.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000924	-0,631	32645
VK459.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000382	-0,632	137300
VK468.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000241	-0,632	740424
VK176.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000228	-0,633	701828
VK346.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000886	-0,633	30836
VK380.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001668	-0,633	7793
VK177.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00047	-0,634	173663
VK467.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,003023	-0,634	2839
VK17.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000299	-0,634	302390
VK540.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000269	-0,634	456326
VK489.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000245	-0,635	619691
VK337.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000432	-0,635	196543
VK99.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000269	-0,635	439111
VK383.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000684	-0,636	33263
VK303.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000269	-0,637	691555
VK281.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000656	-0,638	64372
VK205.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00031	-0,639	530052
VK336.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,00029	-0,639	476452
VK174.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000731	-0,639	45507
VK232.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000384	-0,639	204147
VK507.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000782	-0,64	42718
VK420.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00024	-0,64	616326
VK268.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000398	-0,64	118397
VK395.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000445	-0,64	173990
VK539.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00026	-0,64	620640
VK444.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001033	-0,641	23556
VK382.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001271	-0,642	15142
VK368.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,0003	-0,642	534905
VK163.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,002368	-0,643	4293
VK457.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001526	-0,644	11089
VK202.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000774	-0,645	43072

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VK461.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000451	-0,645	135831
VK315.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000525	-0,646	107529
VK275.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000576	-0,647	80356
VK282.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001435	-0,648	12662
vik_kal009.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00204	-0,648	6412
VK165.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000268	-0,65	515584
VK172.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000482	-0,65	160249
VK472.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000652	-0,65	45587
VK313.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000648	-0,651	58662
VK339.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	-0,002853	-0,651	2746
VK262.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000301	-0,651	539689
VK92.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00048	-0,653	152669
VK149.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00191	-0,653	5286
VK459.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001731	-0,654	7606
VK291.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00036	-0,655	421870
VK429.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000239	-0,655	729064
VK450.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,002349	-0,658	4186
VK322.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000471	-0,658	188407
VK460.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000338	-0,659	191375
VK399.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000275	-0,659	628385
VK511.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000292	-0,66	624702
VK279.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000236	-0,66	708800
VK362.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00029	-0,66	373891
vik_grt035.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000266	-0,66	740008
VK281.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000247	-0,661	676141
VK446.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000329	-0,661	608163
VK157.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000287	-0,661	450999
VK164.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005978	-0,662	697
vik_stg026.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000273	-0,664	370534
VK320.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000466	-0,664	165076
VK461.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001622	-0,665	10377
VK158.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000798	-0,67	26312
VK252.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,011327	-0,67	206
VK553.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000473	-0,671	164989
VK304.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002208	-0,671	5008
VK149.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,013285	-0,672	138
VK323.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00048	-0,672	168382
VK554.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000387	-0,673	396342
vik_bns023.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00447	-0,673	1361
VK18.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000336	-0,674	377656
VK203.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000342	-0,676	386411
VK495.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000334	-0,676	390577
VK207.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000303	-0,677	381157
vik_bns023.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,001153	-0,677	13194
vik_2072.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,007458	-0,678	514
vik_bns023.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,001688	-0,678	8596
VK409.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000905	-0,678	34794
VK247.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	-0,001547	-0,679	10184
VK407.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00036	-0,679	159179
vik_97029.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,002176	-0,68	5094
vik_kls001.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000462	-0,68	102189
VK92.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000475	-0,681	136224
VK520.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000289	-0,681	620491
VK424.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000534	-0,682	97429
VK202.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000319	-0,683	513794
VK346.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,00026	-0,683	560953
VK160.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000485	-0,683	182082
VK71.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,00195	-0,685	7648
VK313.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000356	-0,685	205428
VK282.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000659	-0,685	78965
VK53.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000279	-0,685	455433
VK489.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000726	-0,686	60350
VK63.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000439	-0,686	131745
vik_stg026.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001157	-0,687	20096
VK429.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000254	-0,687	728591
VK491.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000255	-0,689	601828
VK144.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001112	-0,69	22112
VK228.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,001093	-0,69	20873
VK544.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000275	-0,691	608208
VK324.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000323	-0,691	571156
VK176.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,000854	-0,692	38541
VK466.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000664	-0,692	79825
VK540.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000347	-0,692	446128
VK482.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000801	-0,693	49847
VK247.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001541	-0,693	10867
VK295.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000307	-0,693	336404

H1	H2	X	O	D	Z	#snps
VK467.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001513	-0,693	9063
VK304.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001397	-0,693	8483
VK336.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000484	-0,694	193198
VK94.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000503	-0,694	82327
VK453.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00085	-0,694	42536
VK53.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000335	-0,694	444934
VK409.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000624	-0,694	97088
VK426.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000649	-0,694	64395
VK383.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000742	-0,696	33605
VK270.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,001088	-0,696	18605
VK295.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000302	-0,696	336228
VK323.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000262	-0,696	568561
VK275.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000313	-0,697	279426
VK304.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001448	-0,697	8478
VK268.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000599	-0,698	75921
VK86.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,0071	-0,702	669
VK145.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000322	-0,702	446292
VK153.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000821	-0,702	36462
VK304.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001822	-0,702	8274
VK145.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001018	-0,703	28645
VK389.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000265	-0,703	538154
VK467.SG	Italy_Medieval_EarlyModern.SG	Russia_Bolshoy	Yoruba.DG	-0,001315	-0,703	9218
VK156.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000411	-0,703	343891
VK148.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001061	-0,705	20383
VK551.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000448	-0,706	205317
VK247.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001512	-0,706	12345
VK222.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00518	-0,707	917
VK111.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000281	-0,707	488236
VK369.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000318	-0,708	437129
VK371.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000445	-0,708	304238
VK424.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000977	-0,708	34626
VK287.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000651	-0,709	86459
VK167.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000285	-0,71	468711
VK175.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,00095	-0,71	36333
VK459.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000423	-0,71	137377
VK158.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000899	-0,71	25933
VK403.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000285	-0,71	609595
VK294.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,001428	-0,712	14295
VK306.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000293	-0,712	509019
VK71.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000832	-0,713	48265
vik_urm161.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000653	-0,714	63815
VK298.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000706	-0,715	72140
VK468.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000269	-0,715	739939
VK461.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000384	-0,716	182989
VK421.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,001878	-0,718	7017
vik_kls001.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000472	-0,718	102250
VK278.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000311	-0,719	374555
VK279.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000284	-0,72	690898
VK230.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000303	-0,72	689298
VK364.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000769	-0,721	58195
VK472.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000645	-0,721	46603
VK411.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,00853	-0,722	381
VK489.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000276	-0,723	635039
VK167.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00029	-0,723	468386
VK135.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002788	-0,723	3537
VK304.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,008685	-0,723	403
VK222.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,003957	-0,724	1065
VK40.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000318	-0,724	569380
VK357.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000497	-0,725	202392
VK287.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000436	-0,726	220243
VK252.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,002827	-0,726	2386
VK463.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000536	-0,727	156169
VK171.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000785	-0,727	59340
VK357.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000273	-0,727	583107
vik_urm161.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,002905	-0,728	3041
VK314.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000833	-0,729	56344
VK264.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000352	-0,729	483530
VK435.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,004138	-0,73	1913
VK123.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000541	-0,73	134544
VK99.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001212	-0,73	20426
VK454.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000414	-0,733	171596
VK334.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00104	-0,733	31822
VK71.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000576	-0,735	102103
VK60.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000634	-0,736	103529
vik_urm035.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,00146	-0,736	14671
VK407.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000839	-0,737	46159

H1	H2	X	O	D	Z	#snps
VK304.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001643	-0,738	8213
VK533.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00038	-0,74	635084
VK428.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000491	-0,74	123003
VK204.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000409	-0,743	407398
VK350.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001142	-0,746	28033
VK432.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000496	-0,747	143254
VK153.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000784	-0,747	37301
VK171.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,002895	-0,747	3425
VK200.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002108	-0,748	6739
VK261.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000297	-0,748	509670
VK267.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,003919	-0,749	2020
VK285.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000612	-0,749	123299
vik_urm045.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000825	-0,751	59883
VK330.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000342	-0,751	427134
VK215.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000935	-0,752	43117
VK476.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000777	-0,752	67326
VK476.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000641	-0,752	81041
VK69.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000307	-0,753	424017
VK139.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000708	-0,753	86901
VK292.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000617	-0,753	72504
VK481.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000359	-0,754	436226
VK512.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000341	-0,754	479483
vik_stg026.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000345	-0,754	361635
vik_97029.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000847	-0,754	50967
VK296.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000354	-0,755	297843
VK173.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000531	-0,755	163954
VK450.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000684	-0,755	90652
VK172.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000857	-0,756	51364
VK127.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000383	-0,756	374880
VK286.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000396	-0,756	351688
VK171.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001233	-0,756	21281
VK14.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,00057	-0,756	98841
VK111.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000359	-0,756	477407
VK216.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003399	-0,757	2476
VK471.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000572	-0,757	115724
VK256.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000533	-0,757	201635
VK16.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001527	-0,757	13151
VK457.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00046	-0,758	131410
VK31.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001156	-0,758	23727
VK69.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00033	-0,759	413793
VK411.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,002698	-0,76	4911
VK145.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000546	-0,761	180173
VK454.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000814	-0,761	54665
VK449.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000325	-0,762	581883
VK346.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,00033	-0,763	482100
VK468.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000335	-0,763	722892
VK458.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,002438	-0,765	5880
vik_97002.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000713	-0,766	66562
VK22.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001065	-0,766	29960
VK34.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000554	-0,766	159068
VK449.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000423	-0,767	491271
VK224.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000575	-0,769	125700
vik_nuf002.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00095	-0,769	44139
VK276.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00204	-0,771	7842
VK40.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00035	-0,771	642563
VK223.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000518	-0,772	209745
VK510.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000303	-0,773	604479
VK270.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001148	-0,773	23817
VK286.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000611	-0,775	145041
vik_urm035.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000443	-0,776	179406
VK270.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001207	-0,777	21368
VK270.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000844	-0,777	28528
VK385.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000331	-0,778	602692
VK165.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00043	-0,778	429722
VK384.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000306	-0,779	541211
VK280.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000502	-0,779	159855
VK215.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000689	-0,78	52516
VK139.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001722	-0,782	11569
VK467.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002239	-0,782	7704
vik_urm035.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001862	-0,782	9893
VK385.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000524	-0,784	211839
VK164.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,005129	-0,784	1197
VK386.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000384	-0,784	409680
VK396.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000346	-0,784	531737
VK156.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000341	-0,785	415150
VK18.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000618	-0,785	115644
VK288.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000334	-0,786	420327
VK24.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000498	-0,786	116002
VK171.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002251	-0,787	7257
VK409.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000505	-0,787	117169

H1	H2	X	O	D	Z	#snps
vik_urm035.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000528	-0,787	131771
VK282.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000716	-0,788	94579
VK294.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000309	-0,789	517493
VK366.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000427	-0,789	289636
VK31.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000513	-0,789	220824
VK163.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001804	-0,791	10116
VK268.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00054	-0,792	115725
VK215.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002556	-0,794	5314
VK151.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000353	-0,794	515314
VK226.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,0013	-0,794	21096
VK368.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000308	-0,795	546951
VK153.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000844	-0,796	36980
VK337.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000308	-0,797	680870
VK324.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000303	-0,797	584394
VK147.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000342	-0,798	437509
VK30.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000565	-0,799	197799
VK430.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000901	-0,801	40531
VK435.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000778	-0,801	40974
VK158.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001985	-0,801	9360
VK18.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000346	-0,801	386291
VK135.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002197	-0,802	5956
VK94.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00082	-0,802	68482
VK328.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00032	-0,803	543420
VK464.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001416	-0,803	20715
VK222.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,004567	-0,803	1062
vik_kal009.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000655	-0,804	111791
VK296.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,0004	-0,805	290847
VK371.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000678	-0,805	107901
VK173.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000332	-0,806	538968
VK269.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000961	-0,806	40851
VK403.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000337	-0,806	595062
VK337.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000837	-0,807	64636
VK153.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001178	-0,808	27352
VK51.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00045	-0,809	286202
VK427.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000816	-0,81	67436
VK435.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000899	-0,811	40680
VK469.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,0009	-0,811	50454
vik_stg026.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000402	-0,812	361906
VK426.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,002167	-0,812	8423
vik_urm035.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,002283	-0,812	8468
vik_gtm127.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000805	-0,813	46657
VK383.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,004927	-0,814	1556
VK478.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000319	-0,814	611837
VK203.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000336	-0,815	522239
VK39.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001226	-0,816	26779
vik_2072.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001689	-0,817	9279
VK133.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,005854	-0,818	968
VK274.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000362	-0,818	535574
VK348.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000313	-0,819	488184
VK247.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001141	-0,82	26043
VK414.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000568	-0,82	169041
VK422.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000575	-0,821	184160
vik_nuf002.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000613	-0,821	125228
VK353.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000369	-0,822	477692
VK207.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000663	-0,823	130931
VK155.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000744	-0,825	100084
VK371.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000477	-0,826	271870
VK127.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000652	-0,826	132242
VK430.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001846	-0,826	11599
vik_urm045.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000766	-0,826	61868
VK470.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001215	-0,827	19690
VK403.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000325	-0,827	609995
VK216.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001039	-0,828	23693
VK440.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,004235	-0,828	2302
VK22.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000553	-0,829	94987
VK301.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000357	-0,83	403151
VK450.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001194	-0,83	31410
VK24.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000735	-0,83	97661
VK454.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000509	-0,832	167697
VK544.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000345	-0,833	593437
VK317.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000597	-0,833	188376
VK364.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000609	-0,834	176146
VK315.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001177	-0,835	32157
VK16.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00067	-0,835	130658
VK479.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00032	-0,836	645383
VK222.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,017182	-0,836	97
VK111.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000331	-0,836	488552
VK149.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002312	-0,837	5274
VK280.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000862	-0,837	69953

H1	H2	X	O	D	Z	#snps
VK64.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000507	-0,837	303843
VK175.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000629	-0,839	130537
VK222.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,012346	-0,839	324
VK216.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,006581	-0,84	1127
VK324.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000325	-0,841	584035
VK265.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001017	-0,842	44018
VK268.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000603	-0,843	101133
VK94.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000665	-0,843	81621
VK226.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,003656	-0,843	2553
VK336.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,001748	-0,844	15395
VK329.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000356	-0,845	535380
VK278.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000359	-0,847	374758
VK90.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,002233	-0,848	8619
VK505.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00042	-0,849	380146
VK139.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000516	-0,849	185025
VK492.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000412	-0,85	370608
VK22.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000647	-0,85	93921
VK22.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000771	-0,85	80599
VK285.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000715	-0,851	102363
VK410.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000793	-0,851	70420
VK14.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000614	-0,853	112328
VK358.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000638	-0,854	142697
VK275.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000497	-0,854	204538
VK315.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001639	-0,856	15555
VK267.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000977	-0,856	41960
VK313.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000439	-0,858	205550
VK446.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000377	-0,858	607043
VK313.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000553	-0,86	201013
VK149.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,002157	-0,86	5425
VK176.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000865	-0,86	67304
VK406.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000585	-0,86	196484
vik_84035.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000622	-0,861	111283
VK446.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,000945	-0,861	50712
VK215.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00297	-0,862	5106
VK431.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000538	-0,863	171520
VK457.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,002302	-0,863	7348
VK155.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000525	-0,863	120101
VK453.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001153	-0,864	35557
VK496.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000339	-0,866	660996
VK347.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,003167	-0,868	4236
VK524.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000338	-0,869	598959
VK218.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000696	-0,869	104216
VK347.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002373	-0,871	7204
VK380.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00068	-0,871	87411
VK138.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000425	-0,873	240487
VK389.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000613	-0,874	159427
VK176.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001247	-0,875	32214
VK285.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000387	-0,875	359189
VK174.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000637	-0,876	139937
VK19.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000711	-0,876	117434
VK441.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,002522	-0,878	6938
VK399.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000605	-0,878	187714
vik_bns023.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001459	-0,882	13340
VK459.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001045	-0,883	47624
VK469.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000494	-0,883	157623
VK294.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00101	-0,884	49515
VK227.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000573	-0,884	218005
VK163.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,005484	-0,886	1170
VK268.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001145	-0,886	38226
VK53.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000399	-0,886	444640
VK216.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001174	-0,887	23248
VK267.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001056	-0,887	42847
VK168.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000618	-0,889	187105
VK156.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000424	-0,889	408405
VK379.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001098	-0,89	43656
VK288.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001092	-0,89	40508
vik_97029.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,002816	-0,89	5918
VK543.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000416	-0,892	480316
VK208.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000995	-0,893	46062
VK144.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001548	-0,894	19975
VK434.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001007	-0,896	52896
VK90.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000564	-0,897	177213
VK413.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001461	-0,897	20591
VK218.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000446	-0,897	302004
VK408.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000788	-0,898	101833

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VK368.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000357	-0,899	547259
VK327.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000643	-0,899	156878
VK291.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00044	-0,9	378207
VK291.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000354	-0,9	510420
VK252.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,004948	-0,902	1527
vik_gtm127.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000825	-0,902	47361
VK203.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000413	-0,903	513628
VK139.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000494	-0,903	245622
vik_84001.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000559	-0,905	221674
VK428.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001134	-0,906	36731
VK542.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000342	-0,906	553757
VK153.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003354	-0,907	3752
vik_gtm127.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000963	-0,907	46835
VK222.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,015576	-0,908	107
VK337.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00035	-0,909	680455
VK317.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000357	-0,909	542565
VK359.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,002503	-0,91	4692
VK433.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,000928	-0,91	65459
VK289.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00048	-0,911	309730
vik_nuf002.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000631	-0,911	125062
VK123.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000446	-0,911	444330
VK369.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000362	-0,912	516443
VK444.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,001521	-0,915	19947
VK268.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001145	-0,915	40766
VK361.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000415	-0,915	468754
VK467.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,00828	-0,915	775
VK273.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000669	-0,915	182581
VK272.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001814	-0,916	14474
VK413.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001371	-0,916	20564
VK549.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000379	-0,917	543435
VK421.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002693	-0,917	6504
VK164.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,006519	-0,918	902
VK342.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000384	-0,918	575150
VK470.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001692	-0,918	16593
VK352.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001052	-0,919	50795
VK424.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000612	-0,919	99672
VK477.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000363	-0,92	529364
VK262.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000403	-0,92	538885
VK443.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000423	-0,922	499187
VK354.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,002197	-0,922	10280
VK468.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000375	-0,923	721554
VK383.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00216	-0,925	9684
VK413.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004682	-0,926	2225
VK251.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001395	-0,927	26110
VK320.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000347	-0,928	564764
vik_urm045.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000981	-0,928	72524
VK134.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000596	-0,929	286643
VK358.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,0004	-0,93	478716
VK304.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,011364	-0,932	264
VK427.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000707	-0,932	79654
VK515.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000411	-0,934	364190
VK102.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000593	-0,934	220767
VK326.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001012	-0,935	54201
VK258.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000698	-0,935	146435
VK484.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001066	-0,937	52942
VK539.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000507	-0,937	516945
VK490.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000543	-0,938	396995
VK264.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000427	-0,938	482716
VK153.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001058	-0,938	36276
VK355.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000698	-0,939	155849
VK422.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000388	-0,939	535849
VK272.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000627	-0,94	138028
VK33.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000555	-0,94	346331
VK420.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000504	-0,941	513261
VK483.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000352	-0,943	643614
VK491.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000364	-0,944	601460
VK505.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000373	-0,944	514136
VK539.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000413	-0,944	610732
VK111.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000691	-0,944	147477
VK94.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002436	-0,946	8450
VK110.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000673	-0,946	169046
VK86.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,01168	-0,947	371

H1	H2	X	O	D	Z	#snps
VK218.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001354	-0,947	29367
VK304.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00221	-0,947	8298
VK515.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000444	-0,948	358575
VK314.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000677	-0,949	142078
VK458.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002161	-0,951	13073
VK419.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000704	-0,953	166799
VK216.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001564	-0,954	19822
VK288.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001498	-0,954	23080
VK294.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000374	-0,955	517794
VK342.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000506	-0,955	486618
VK368.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000417	-0,956	533712
VK22.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002274	-0,956	9969
VK496.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000633	-0,957	196811
VK65.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000462	-0,958	258423
VK491.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000429	-0,959	587968
VK350.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000673	-0,959	178344
VK481.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000355	-0,961	590605
VK520.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000481	-0,961	465403
VK296.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000441	-0,962	298021
VK274.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00045	-0,962	623486
VK292.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00086	-0,962	72619
VK259.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000669	-0,963	188904
VK404.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000649	-0,963	174357
VK150.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000668	-0,964	162833
VK53.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000395	-0,964	455044
VK22.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00136	-0,964	33032
VK144.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001028	-0,965	50189
VK286.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000749	-0,965	133775
VK435.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003558	-0,965	4169
VK366.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000605	-0,966	326125
VK420.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00044	-0,967	455340
VK157.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000715	-0,967	146935
VK542.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001072	-0,967	53549
VK84.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000695	-0,97	178787
VK355.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000445	-0,971	452706
VK284.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000541	-0,971	417524
VK545.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000642	-0,972	188234
VK336.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000697	-0,973	165027
VK386.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00038	-0,973	554333
VK173.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001379	-0,975	30099
VK208.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000929	-0,976	46279
VK339.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001783	-0,98	10041
VK167.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000413	-0,98	457441
VK474.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000679	-0,981	181432
VK222.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,008287	-0,981	657
VK175.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00054	-0,982	366462
VK274.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001058	-0,982	60878
VK223.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,0028	-0,983	6816
VK314.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000537	-0,984	194584
VK138.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000676	-0,985	202079
VK357.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000419	-0,985	499681
VK516.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00049	-0,987	425373
VK177.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001435	-0,988	27644
VK208.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,003504	-0,989	4471
VK205.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000648	-0,992	172133
VK420.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000399	-0,992	606561
VK178.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000757	-0,993	131676
VK171.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000899	-0,993	71133
VK525.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000432	-0,995	494824
VK304.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,004617	-0,995	2491
VK155.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001259	-0,996	41846
VK387.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000542	-0,996	438546
VK325.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000471	-0,997	344171
VK405.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000555	-0,997	409815
VK149.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,003626	-0,998	4505
VK166.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000638	-0,998	219036
VK200.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,014881	-0,999	336
VK335.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00049	-0,999	507267
VK276.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,005193	-1,001	2327
VK469.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000537	-1,001	157690
VK478.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00049	-1,001	451781
VK48.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000668	-1,002	151670
VK272.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000786	-1,005	103866
VK14.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000794	-1,005	112533
VK21.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002199	-1,005	13418
VK306.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000476	-1,006	497768

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VK383.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001146	-1,007	32570
VK424.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000907	-1,007	82066
VK515.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000566	-1,008	270171
VK410.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000835	-1,008	93868
VK110.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000458	-1,009	488579
vik_97026.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001082	-1,01	46417
VK150.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000741	-1,011	150350
vik_bns023.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001692	-1,011	13131
vik_gtm127.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003429	-1,011	4861
VK473.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000418	-1,012	583670
VK383.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004074	-1,013	3457
VK405.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000424	-1,013	493345
VK440.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001986	-1,014	17918
VK281.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000408	-1,016	659572
VK273.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000477	-1,017	517805
VK216.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001411	-1,019	23479
VK468.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000643	-1,023	214079
VK153.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001261	-1,023	36484
VK207.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000515	-1,025	372936
VK472.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001309	-1,026	34352
VK492.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000584	-1,027	417771
vik_kal009.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001247	-1,028	43771
VK349.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001408	-1,029	30174
vik_urm160.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000491	-1,03	430832
VK201.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000446	-1,03	546618
VK304.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,008382	-1,031	865
VK149.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,003755	-1,032	3986
VK453.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,0007	-1,032	118972
VK433.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000454	-1,033	673671
VK30.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000526	-1,034	235841
VK20.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000656	-1,036	242906
VK227.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001617	-1,037	25357
VK215.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001971	-1,038	15519
vik_bns023.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,002233	-1,038	11293
VK203.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000584	-1,039	431142
VK415.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001161	-1,039	53563
VK161.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001779	-1,04	15358
VK267.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000973	-1,041	42442
VK252.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	-0,008829	-1,041	689
VK422.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001123	-1,042	50888
VK422.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000411	-1,043	536180
VK446.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001136	-1,046	59062
VK84.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,00047	-1,047	446118
VK156.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000805	-1,047	122105
VK470.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,00759	-1,047	1098
VK493.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000472	-1,049	482241
VK542.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000455	-1,05	475803
vik_grt036.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000691	-1,05	200153
vik_urm045.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,004387	-1,051	3989
VK288.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000847	-1,052	144656
VK308.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000499	-1,052	439616
VK337.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000444	-1,054	663802
VK202.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000402	-1,054	525759
VK326.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000498	-1,057	483179
vik_2072.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001989	-1,057	9435
VK335.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000427	-1,058	519094
vik_2072.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,008108	-1,058	925
VK314.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,002619	-1,059	9067
VK371.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000531	-1,059	361196
vik_97002.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002703	-1,06	9374
VK40.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000713	-1,06	225071
VK328.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,0004	-1,061	543776
VK161.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002538	-1,062	9352
VK491.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000433	-1,063	587144
VK326.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000765	-1,063	195717
VK335.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000448	-1,063	506560
VK485.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00081	-1,064	117177
VK288.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000525	-1,065	352491
VK533.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000449	-1,065	754062
VK252.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,027778	-1,065	108
vik_gtm127.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,002119	-1,065	15182
VK429.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000684	-1,067	249492
vik_stg026.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001441	-1,068	35512
VK290.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000575	-1,07	472274
VK255.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001003	-1,07	54455
VK264.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000442	-1,071	494782

H1	H2	X	O	D	Z	#snps
VK297.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000467	-1,072	382773
VK421.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00973	-1,072	531
VK71.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000593	-1,073	137169
VK90.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000625	-1,074	176809
VK149.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,015319	-1,074	272
VK178.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001305	-1,074	42340
VK348.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000605	-1,074	403696
VK431.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000607	-1,074	175612
VK265.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000491	-1,075	452932
VK266.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,000563	-1,079	264354
VK467.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,00305	-1,079	6002
vik_urm161.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,00334	-1,08	6313
VK355.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000501	-1,082	522044
vik_84035.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000716	-1,083	149552
VK22.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000889	-1,084	93958
VK306.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000819	-1,085	174759
VK361.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001609	-1,086	30463
VK160.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000421	-1,086	610378
VK355.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000721	-1,087	169967
VK254.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000664	-1,087	234298
VK216.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001931	-1,088	17599
VK177.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000519	-1,089	493950
VK232.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,002462	-1,09	9781
VK477.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000592	-1,09	438900
VK64.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000506	-1,09	359423
VK361.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000492	-1,091	543190
VK286.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000491	-1,092	416227
VK294.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000519	-1,093	506124
VK422.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000524	-1,094	523940
VK251.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001636	-1,095	29903
VK472.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001087	-1,096	46018
VK424.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000962	-1,096	72841
VK478.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000605	-1,097	509224
VK407.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000878	-1,097	130272
VK492.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000438	-1,1	501420
VK87.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001169	-1,101	66856
VK470.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002057	-1,101	14865
VK409.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000775	-1,102	115235
VK482.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000554	-1,103	378984
VK353.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000789	-1,103	164625
VK265.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000424	-1,106	528204
VK295.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001519	-1,106	32424
VK349.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000481	-1,109	538471
VK146.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000494	-1,109	461139
VK57.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000704	-1,109	119800
VK326.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001509	-1,11	30983
VK267.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00118	-1,111	41923
VK268.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000827	-1,112	115822
VK19.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000588	-1,112	278493
VK252.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,004228	-1,113	2344
VK349.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000437	-1,114	551788
VK48.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000624	-1,116	200948
VK278.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000869	-1,117	129328
vik_bns023.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001909	-1,117	13333
VK292.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001124	-1,12	54217
VK546.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003553	-1,121	6357
VK456.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000428	-1,121	565225
VK336.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00055	-1,122	548667
VK224.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000825	-1,122	112989
VK353.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000538	-1,122	552427
VK60.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00072	-1,123	244100
VK308.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000442	-1,124	594851
VK379.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003715	-1,126	5316
VK332.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000733	-1,126	192929
VK510.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000481	-1,127	594683
VK313.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00074	-1,127	150156
VK363.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00055	-1,128	412968
vik_kls001.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001034	-1,128	83780
VK424.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000727	-1,129	99731
VK413.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001529	-1,13	21000
VK298.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000777	-1,131	203459
VK14.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000734	-1,132	114992
VK87.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000709	-1,134	222958
VK431.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000751	-1,134	171829
vik_gtm127.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,005406	-1,135	2636
VK392.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000568	-1,136	367969
VK467.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,009923	-1,137	865
VK294.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000475	-1,14	505215
VK446.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000813	-1,14	181089
VK413.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,006084	-1,14	2041
VK24.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001497	-1,14	35238
VK247.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001433	-1,142	34904

H1	H2	X	O	D	Z	#snps
VK333.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,00049	-1,143	460491
VK441.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002332	-1,143	13966
VK481.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000464	-1,144	581005
VK355.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000468	-1,145	533914
VK422.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000486	-1,145	523222
VK301.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000534	-1,146	393610
VK350.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000502	-1,146	516434
VK278.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001536	-1,146	35594
VK175.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000462	-1,148	441952
VK23.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001936	-1,149	20146
VK31.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000982	-1,151	85632
VK230.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000782	-1,151	203231
VK507.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00062	-1,152	324850
VK334.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000527	-1,152	322061
VK509.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001258	-1,153	54970
VK315.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000989	-1,153	95990
VK384.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000496	-1,153	532312
VK170.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000621	-1,153	449486
VK280.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000571	-1,154	215281
VK262.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000852	-1,155	161861
VK275.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000752	-1,156	227354
VK438.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00136	-1,158	45410
VK315.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000635	-1,159	245576
VK143.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000506	-1,159	430279
VK466.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000876	-1,159	93673
VK101.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000448	-1,159	597443
VK442.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001447	-1,16	44573
VK164.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,031787	-1,16	97
VK267.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001077	-1,16	42830
VK504.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000633	-1,161	357540
VK18.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000555	-1,161	376913
VK380.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001634	-1,162	30900
VK168.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000557	-1,163	530571
VK306.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000868	-1,163	146480
vik_nuf002.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000794	-1,164	124365
vik_2072.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,014671	-1,165	284
VK216.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00224	-1,166	14161
VK70.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000736	-1,166	226069
VK438.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000908	-1,168	126552
VK154.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000758	-1,168	205474
VK528.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000438	-1,169	604045
VK410.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000825	-1,169	95915
VK262.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001242	-1,171	52881
VK274.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000469	-1,173	638186
vik_97002.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001188	-1,174	73675
VK171.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000951	-1,175	70443
VK174.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000599	-1,176	347300
VK506.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000606	-1,177	402423
VK101.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00046	-1,179	597026
VK84.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000479	-1,181	516222
VK268.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,003886	-1,182	5533
VK171.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001158	-1,183	53277
VK354.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000945	-1,183	108517
VK528.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000606	-1,184	499117
VK288.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00092	-1,185	121144
VK518.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001846	-1,186	27714
VK512.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000614	-1,187	539443
VK407.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,002338	-1,187	15294
VK255.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001038	-1,188	55304
VK200.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,008399	-1,189	1012
VK108.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000678	-1,189	344534
VK291.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00051	-1,19	501977
VK276.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003263	-1,192	8403
VK335.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000475	-1,194	518772
VK410.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000927	-1,195	93703
VK464.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,003561	-1,197	5733
VK349.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000569	-1,2	539315
VK479.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000501	-1,201	634649
VK170.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000472	-1,202	541892
VK362.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000637	-1,202	365555
VK445.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,0006	-1,202	425917
VK477.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00059	-1,202	391213

H1	H2	X	O	D	Z	#snps
VK472.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00108	-1,204	47145
VK155.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,002838	-1,205	9983
VK336.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000496	-1,206	561079
VK438.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000655	-1,206	151869
VK127.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000494	-1,207	383557
VK304.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,009676	-1,207	844
VK122.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000579	-1,209	416584
VK355.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00046	-1,21	534259
VK123.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000496	-1,21	454331
VK411.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003171	-1,213	8209
VK31.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000732	-1,215	187011
VK274.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000489	-1,216	637831
VK16.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000787	-1,216	155112
VK297.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000548	-1,218	382546
vik_bns023.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002322	-1,22	13012
VK333.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000459	-1,221	537916
VK407.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000794	-1,221	133984
VK345.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001369	-1,222	49539
vik_urm161.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001389	-1,222	48124
VK528.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000581	-1,224	446430
VK298.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,002107	-1,224	20094
VK144.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001015	-1,224	67111
VK65.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000747	-1,225	189107
VK384.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00057	-1,225	400020
VK346.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000832	-1,227	195069
vik_urm045.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001291	-1,227	52939
VK483.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000637	-1,228	534282
VK526.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000868	-1,228	193332
VK442.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000542	-1,228	462954
VK456.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000686	-1,228	467283
VK314.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001298	-1,229	67517
VK304.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,002577	-1,229	8330
VK540.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000939	-1,23	131658
VK479.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000577	-1,233	476596
VK297.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001037	-1,234	111238
VK101.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000574	-1,234	583514
VK350.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,001407	-1,237	49987
VK328.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000535	-1,239	530523
VK146.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000487	-1,239	537105
VK16.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000965	-1,239	116874
VK280.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000829	-1,24	177269
VK528.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000518	-1,241	593941
VK442.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001723	-1,241	29934
VK278.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000559	-1,241	365774
VK470.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002789	-1,244	11878
VK483.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00057	-1,245	475371
VK247.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001778	-1,245	29426
VK463.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002231	-1,245	19122
VK17.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,002252	-1,245	17131
VK469.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000771	-1,246	153911
VK306.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001832	-1,246	27746
VK512.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000471	-1,247	649907
vik_97026.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,001017	-1,247	62471
VK22.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000925	-1,249	93566
VK400.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000659	-1,249	373195
VK40.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001294	-1,249	62391
VK33.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000556	-1,25	410608
VK319.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000671	-1,251	315430
VK86.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,011645	-1,253	687
VK267.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,0025	-1,253	13935
VK23.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000635	-1,253	209430
VK144.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001079	-1,254	66682
VK320.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000664	-1,254	466877
VK410.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000862	-1,254	95965
VK524.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000678	-1,255	493971
VK322.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001396	-1,257	52247
VK101.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000534	-1,258	582493
VK408.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000767	-1,259	121156
VK384.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000678	-1,26	447933
VK135.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,003359	-1,262	5938
VK366.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000593	-1,265	384588
VK433.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000856	-1,265	199744
VK158.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005668	-1,265	2867
VK405.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000648	-1,265	365032
VK386.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000546	-1,266	545268
VK90.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000669	-1,269	181167

H1	H2	X	O	D	Z	#snps
VK453.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000782	-1,27	121792
VK487.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000491	-1,271	660366
vik_97002.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000911	-1,271	89793
VK257.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000644	-1,272	363072
VK324.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00053	-1,272	570066
vik_nuf002.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000798	-1,272	128039
VK493.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000485	-1,273	653653
VK65.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00066	-1,273	252311
VK221.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000588	-1,273	489922
VK353.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000859	-1,273	194508
VK297.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000602	-1,274	373432
VK543.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001005	-1,274	142494
VK253.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003062	-1,274	6254
VK57.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000792	-1,276	119855
VK222.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	-0,019713	-1,276	279
vik_gtm127.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,006364	-1,276	2226
VK482.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000514	-1,278	512751
vik_97026.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001025	-1,279	63033
VK292.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003611	-1,28	7478
VK161.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002751	-1,28	13058
VK144.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00097	-1,281	67779
VK428.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,003961	-1,281	5806
VK158.SG	Italy_Sardinia_EarlyMedieval_ published	Russia_Bolshoy	Yoruba.DG	-0,006493	-1,281	2259
VK292.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001071	-1,282	71815
VK208.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001313	-1,283	45965
VK547.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000683	-1,283	633810
VK372.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000715	-1,284	476407
VK92.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000766	-1,285	180556
VK431.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000922	-1,285	128150
VK163.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00879	-1,286	1223
vik_97002.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,002082	-1,286	26052
VK409.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001079	-1,286	87013
VK208.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001304	-1,287	45565
VK450.SG	Italy_North_EarlyMedieval_ Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000861	-1,288	89783
VK462.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,001625	-1,288	37057
VK552.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000886	-1,289	172278
VK284.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000557	-1,289	496317
VK146.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000895	-1,29	186537
VK39.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001913	-1,29	30446
VK319.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000582	-1,291	322578
VK433.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000524	-1,291	672457
VK433.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000483	-1,292	689243
VK415.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00091	-1,295	167446
VK373.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000531	-1,295	514121
VK145.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000611	-1,296	513279
VK323.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000536	-1,296	559391
vik_bns023.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,004788	-1,298	4299
VK135.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,015312	-1,3	283
VK323.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000597	-1,302	420134
VK269.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004086	-1,303	5670
VK268.SG	Italy_Sardinia_EarlyMedieval_ published	Russia_Bolshoy	Yoruba.DG	-0,003144	-1,304	9888
VK160.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000687	-1,304	508343
VK87.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000844	-1,306	240984
vik_urm035.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000794	-1,306	173663
VK509.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000526	-1,307	568939
VK64.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000546	-1,309	365223
VK14.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001125	-1,309	95390
VK450.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001065	-1,31	88707
VK379.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001286	-1,311	51684
VK71.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002683	-1,312	14072
VK108.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000538	-1,312	410462
VK220.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000633	-1,312	483142
VK526.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000628	-1,314	487319
VK174.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000534	-1,314	469766
VK232.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000687	-1,314	205456
VK473.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000897	-1,314	175182
VK314.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00087	-1,315	190319
VK215.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00128	-1,317	50892
VK344.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000646	-1,321	360654
VK457.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000898	-1,321	129277
VK548.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001261	-1,322	71611
VK90.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001017	-1,324	148843
VK343.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000506	-1,327	554542
VK325.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000648	-1,329	338747
VK444.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001045	-1,329	148035
VK413.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,009028	-1,329	1163
VK372.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00053	-1,33	574381

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vik_bns023.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,009741	-1,33	1249
VK359.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,008659	-1,331	1434
VK149.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,012797	-1,331	547
VK301.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000571	-1,332	403351
VK355.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000571	-1,332	521173
VK16.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000827	-1,332	157637
VK320.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000554	-1,333	555299
VK31.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000728	-1,337	249653
VK110.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000924	-1,337	198129
VK343.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00093	-1,338	164260
vik_gtm127.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001372	-1,338	46887
VK555.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00054	-1,34	516326
VK149.SG	Italy_Sardinia_Medieval	Russia_Bolshoy	Yoruba.DG	-0,005007	-1,34	3431
VK483.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000543	-1,341	633139
VK327.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000713	-1,341	440324
VK160.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000581	-1,341	600500
VK280.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,002978	-1,342	12087
VK400.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000567	-1,342	504644
VK40.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000516	-1,343	657768
VK429.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000883	-1,346	211057
VK438.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,003942	-1,346	6976
VK453.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001115	-1,346	99933
VK298.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,002886	-1,347	13918
VK272.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001112	-1,347	116914
VK316.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000903	-1,348	170041
VK452.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002588	-1,349	16971
VK35.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000771	-1,349	409570
vik_84035.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001538	-1,35	49185
VK323.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00072	-1,35	472322
VK433.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000512	-1,351	689683
VK57.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000968	-1,351	117093
VK407.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001497	-1,351	54888
VK314.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000717	-1,354	194669
VK165.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000615	-1,354	507393
VK350.SG	Italy_North_EarlyMedieval_ Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000541	-1,359	605374
VK219.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,00183	-1,36	33783
VK353.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,00207	-1,36	25682
VK215.SG	Germany_EarlyMedieval_ Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,001427	-1,361	44634
VK318.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,008174	-1,361	1339
VK252.SG	Italy_North_EarlyMedieval_ Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,005477	-1,361	2364
VK488.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000554	-1,363	464324
VK404.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,001842	-1,363	32667
VK352.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000644	-1,365	386945
VK422.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000963	-1,365	158696
vik_stg021.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000882	-1,365	221272
VK498.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000666	-1,366	404895
VK492.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000577	-1,367	493231
VK31.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00063	-1,369	252937
VK403.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000993	-1,369	179186
vik_nuf002.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001683	-1,371	41393
VK353.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001431	-1,371	53857
VK309.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000718	-1,373	197276
VK227.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000732	-1,373	258019
VK480.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001025	-1,375	134933
VK361.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000561	-1,377	556803
VK254.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000862	-1,378	263289
VK24.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002989	-1,378	11905
vik_urm160.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000786	-1,382	488505
VK296.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000754	-1,382	291364
VK431.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001608	-1,382	51347
VK224.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001422	-1,382	49981
VK208.SG	Italy_North_EarlyMedieval_ Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,009734	-1,384	1327
VK170.SG	Italy_North_EarlyMedieval_ Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00058	-1,386	532943
VK265.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,000991	-1,386	183374
VK110.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000545	-1,386	576375
VK444.SG	Germany_EarlyMedieval_ Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000695	-1,389	363214
VK266.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,000724	-1,392	412560
VK278.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000693	-1,392	366256
VK309.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000952	-1,392	146291
VK225.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000935	-1,393	236093
vik_kal009.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003117	-1,394	13824
VK110.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000665	-1,396	563172
VK290.SG	Germany_EarlyMedieval_ Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000961	-1,397	167294

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vik_84035.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002801	-1,399	15531
VK145.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000573	-1,399	525300
VK370.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000789	-1,401	457959
VK405.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000627	-1,401	485502
VK552.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000663	-1,403	430929
VK275.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000693	-1,403	272694
vik_97029.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001242	-1,406	60292
VK497.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000765	-1,408	492950
VK428.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000922	-1,408	122049
VK510.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000749	-1,409	501793
VK267.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,00157	-1,41	36606
VK40.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000553	-1,41	657316
vik_kls001.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001233	-1,413	74376
VK39.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00101	-1,415	87151
VK296.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000767	-1,417	253542
VK140.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004869	-1,417	5006
VK270.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006257	-1,417	2970
VK426.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,007647	-1,418	2463
VK547.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000661	-1,419	563399
VK345.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00097	-1,42	179309
VK65.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001333	-1,421	75406
VK257.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000573	-1,421	490330
VK477.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000623	-1,422	520731
VK380.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000969	-1,423	89488
VK329.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000993	-1,426	160707
VK143.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00056	-1,426	507259
VK319.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000655	-1,427	322403
VK170.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000724	-1,427	400578
VK461.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000836	-1,428	179952
VK505.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000793	-1,429	427867
VK256.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000788	-1,429	480533
VK259.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000662	-1,43	536526
VK346.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001543	-1,431	53969
VK482.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000813	-1,432	425212
VK314.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,002459	-1,432	18568
VK440.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005095	-1,435	5054
VK263.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000564	-1,436	574268
VK427.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003782	-1,436	8351
VK273.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000612	-1,438	517016
VK40.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000601	-1,438	641505
VK442.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000689	-1,439	535644
VK368.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001058	-1,441	157808
VK304.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00432	-1,441	7003
VK326.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000585	-1,442	563519
VK285.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000605	-1,442	359372
VK223.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,002254	-1,442	23550
vik_84035.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000788	-1,445	151133
VK370.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000612	-1,446	554164
VK110.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00057	-1,446	576029
VK280.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000817	-1,448	211704
vik_urm160.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000576	-1,452	583821
VK123.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000594	-1,453	454614
VK308.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000778	-1,454	492804
VK288.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000684	-1,455	410131
VK551.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000525	-1,456	697022
VK361.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000607	-1,458	557139
VK252.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,007152	-1,458	2342
VK461.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001057	-1,46	151466
VK53.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001082	-1,46	149760
VK357.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000683	-1,46	575823
VK365.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001754	-1,462	41190
VK153.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,006225	-1,462	3146
VK267.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,006397	-1,464	2449
vik_kls001.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001038	-1,464	99100
VK437.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003509	-1,465	9983
VK460.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001518	-1,465	57133
VK280.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,002599	-1,466	21161
VK111.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000642	-1,466	476754
VK201.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000741	-1,467	407924
VK516.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000592	-1,472	575154
VK540.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000847	-1,472	372288
VK467.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,006516	-1,473	2980
VK98.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000958	-1,474	210976
VK263.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,000978	-1,476	169809
VK110.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000642	-1,476	562349
VK410.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003699	-1,476	9822

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VK373.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000837	-1,479	425397
VK388.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000587	-1,479	494157
VK318.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,014197	-1,48	722
VK507.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000622	-1,481	439170
VK292.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,005692	-1,481	4085
VK257.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001135	-1,483	145850
VK555.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000831	-1,485	429273
VK397.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00106	-1,486	169983
VK549.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000556	-1,487	642811
VK144.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,002383	-1,487	23810
vik_urm045.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001183	-1,487	71543
VK145.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000624	-1,489	524920
VK380.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000993	-1,49	89553
VK127.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000629	-1,491	383331
VK309.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000847	-1,491	193940
VK145.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000667	-1,492	512427
VK393.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000762	-1,492	394110
VK298.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000748	-1,493	246763
VK274.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000652	-1,493	622160
VK467.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,003128	-1,493	9272
VK497.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000582	-1,494	592800
VK395.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000582	-1,495	588149
VK284.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000718	-1,496	373299
VK290.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000575	-1,496	571807
VK252.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,006003	-1,496	2384
VK413.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,002076	-1,496	20727
VK218.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,00123	-1,496	123029
VK208.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001906	-1,498	34507
VK512.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000609	-1,5	639354
VK176.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000622	-1,5	599473
VK207.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001283	-1,5	110226
VK14.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001025	-1,501	114931
VK264.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001072	-1,502	170290
VK387.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000585	-1,502	523752
VK438.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003043	-1,504	15802
VK289.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000623	-1,505	418158
VK92.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00278	-1,506	18737
VK336.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000606	-1,511	561413
VK365.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001086	-1,511	138031
VK330.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001094	-1,511	148494
VK555.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000755	-1,513	381704
VK289.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000871	-1,513	345326
VK459.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000975	-1,515	134283
VK150.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001093	-1,516	176052
VK348.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001145	-1,516	142730
VK460.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000849	-1,517	188220
VK453.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00097	-1,518	121709
VK153.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,008492	-1,518	1737
VK325.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000822	-1,519	255327
VK224.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000917	-1,519	148690
VK255.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001767	-1,519	41078
VK365.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000722	-1,52	365840
VK479.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00079	-1,52	533933
VK486.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000712	-1,521	476585
VK273.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000599	-1,521	529848
VK319.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001321	-1,522	111327
VK509.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000714	-1,523	420681
VK280.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00266	-1,523	21933
VK555.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000691	-1,524	508001
vik_gtm127.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001911	-1,525	35246
VK343.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000649	-1,527	545515
VK14.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,003452	-1,528	10937
VK516.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000849	-1,529	475151
VK454.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001126	-1,529	125523
VK379.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001361	-1,53	52601
VK393.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001066	-1,532	156805
VK23.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001109	-1,532	175348
VK14.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001331	-1,535	84127
VK146.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00113	-1,543	160156
VK255.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001836	-1,543	46061
VK486.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000583	-1,544	645617
VK285.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000712	-1,545	350567
VK21.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,005972	-1,545	3726
VK506.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000601	-1,546	544633
VK143.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000736	-1,546	495951
VK442.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000596	-1,547	548185
VK344.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001081	-1,548	145216
VK472.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00169	-1,549	46145

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VK353.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000606	-1,549	565071
VK373.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000684	-1,55	505651
VK268.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001382	-1,551	97807
VK438.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000974	-1,551	149461
VK258.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000836	-1,552	411238
VK349.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000615	-1,553	551471
VK487.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000671	-1,554	649569
VK254.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000731	-1,556	315986
VK256.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00066	-1,557	568329
VK69.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001189	-1,558	131628
VK488.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000763	-1,559	343668
VK177.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000736	-1,559	429331
VK345.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001098	-1,559	165715
vik_97026.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001416	-1,563	61635
VK525.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001779	-1,564	48287
vik_kal009.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000948	-1,564	135437
VK58.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000847	-1,565	627764
VK282.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001006	-1,566	200689
VK476.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001274	-1,566	80001
VK171.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,004363	-1,567	7010
VK352.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000854	-1,569	434551
VK150.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000604	-1,573	505791
VK217.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003849	-1,575	10414
VK487.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00083	-1,576	547850
VK493.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00083	-1,576	542861
VK385.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001063	-1,576	179048
VK478.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000681	-1,576	602065
vik_84001.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000706	-1,579	555438
VK273.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000625	-1,58	529518
VK413.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,002154	-1,581	21016
VK259.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000637	-1,582	548682
VK370.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000773	-1,584	409321
VK177.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00068	-1,588	493266
VK135.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,005336	-1,589	4436
VK135.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,004655	-1,589	5961
VK301.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000783	-1,591	394380
VK325.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000988	-1,591	287671
VK453.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003575	-1,591	12145
VK387.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000749	-1,591	386632
VK19.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000639	-1,593	377884
VK488.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000875	-1,594	386486
VK464.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005216	-1,598	6119
VK58.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000731	-1,598	556051
VK263.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000875	-1,598	477186
VK547.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000612	-1,599	765386
VK70.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000738	-1,6	564664
VK413.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002379	-1,6	20415
VK65.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002512	-1,601	26004
vik_grt036.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000743	-1,601	505610
VK450.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001075	-1,603	90613
VK347.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,019669	-1,605	322
VK57.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,002017	-1,605	41365
VK158.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002812	-1,608	15788
VK220.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001099	-1,608	193665
VK259.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000654	-1,609	548998
vik_97026.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,005213	-1,612	6011
VK327.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000755	-1,614	391840
VK387.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000693	-1,614	515737
VK143.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001161	-1,615	149114
VK292.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001237	-1,616	73076
VK419.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000911	-1,617	466615
VK330.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000773	-1,618	491765
VK425.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004158	-1,619	8999
VK90.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001114	-1,62	132512
VK290.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000785	-1,62	423416
VK303.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001046	-1,62	204175
VK373.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000783	-1,621	380188
VK486.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000849	-1,622	536027
VK215.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001429	-1,624	51737
VK369.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000697	-1,624	509831
VK21.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,003467	-1,624	12837
vik_97026.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00492	-1,626	6402
VK349.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001863	-1,628	52333
VK292.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001719	-1,628	60435
VK252.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,009909	-1,629	1410
VK551.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000847	-1,631	578160
VK442.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00064	-1,631	547887
VK345.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,002387	-1,631	28633

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VK332.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,00066	-1,632	599617
VK480.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000665	-1,633	455314
VK369.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000625	-1,636	522576
VK435.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00222	-1,636	33865
VK95.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000782	-1,637	420606
VK163.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004611	-1,638	7229
VK549.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000656	-1,639	626926
VK173.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000782	-1,639	402453
VK261.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001208	-1,639	151517
VK260.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000938	-1,641	382250
vik_urm045.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001416	-1,641	70394
VK407.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000891	-1,641	156686
VK443.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00086	-1,642	560428
VK443.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000609	-1,643	676762
VK226.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,007865	-1,645	2596
VK230.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000793	-1,645	513347
VK380.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001528	-1,648	75340
VK127.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000702	-1,652	374181
VK431.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,003992	-1,655	9497
VK253.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,006303	-1,656	3852
VK551.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000753	-1,657	514009
VK346.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000765	-1,659	553723
VK23.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00164	-1,66	63483
VK95.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000884	-1,66	491101
VK555.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001155	-1,663	152862
VK256.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000763	-1,663	426423
VK226.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00449	-1,663	7480
VK24.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001378	-1,664	85979
VK333.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001152	-1,665	159134
VK57.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00221	-1,665	34457
vik_97002.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001291	-1,667	88299
VK64.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000916	-1,669	270694
VK108.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000845	-1,669	303662
VK224.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000889	-1,67	151153
VK466.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003975	-1,67	9686
VK24.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,003833	-1,672	11348
VK35.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000709	-1,672	492198
VK339.SG	Italy_North_EarlyMedieval_Langobards_4	Russia_Bolshoy	Yoruba.DG	-0,022066	-1,673	321
VK467.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,003396	-1,674	9200
VK287.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001036	-1,676	244964
VK256.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000641	-1,677	577689
VK407.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001183	-1,677	115951
VK174.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000752	-1,678	462277
VK444.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000771	-1,679	426191
VK383.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001719	-1,679	33143
VK454.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001919	-1,681	50903
vik_97026.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,0017	-1,682	61554
VK505.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000743	-1,683	505907
VK472.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,003555	-1,683	13548
VK336.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000713	-1,685	547584
VK223.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000791	-1,685	245641
vik_grt036.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,002225	-1,686	37821
VK509.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000914	-1,687	472749
VK176.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001119	-1,688	243151
VK317.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000811	-1,688	536422
VK320.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000818	-1,691	417257
VK99.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000959	-1,691	376879
VK330.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000679	-1,692	503228
VK370.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000786	-1,693	545050
VK70.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000894	-1,695	637777
VK286.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000764	-1,695	420945
VK549.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000642	-1,696	642410
VK87.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000627	-1,696	696313
VK506.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000928	-1,697	451843
VK224.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001986	-1,697	45654
VK177.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000697	-1,699	505219
VK549.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000777	-1,706	627989
vik_nuf002.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00141	-1,707	93873
VK123.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000774	-1,709	443603
VK487.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000819	-1,711	487362
VK208.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006162	-1,711	4733
VK90.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003142	-1,711	18590
VK138.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002694	-1,711	24156
VK494.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003882	-1,712	12216
VK177.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000665	-1,713	505586
VK396.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000818	-1,713	397118

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VK247.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001865	-1,714	34599
VK437.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,005437	-1,717	5502
VK369.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001221	-1,72	149617
VK215.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,006292	-1,721	4384
VK424.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001285	-1,723	96663
VK168.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000699	-1,724	543029
VK472.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002163	-1,724	38173
VK385.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000854	-1,725	449198
VK334.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001457	-1,725	96796
VK144.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001894	-1,726	56237
vik_stg021.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000792	-1,726	549685
VK268.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003584	-1,727	12020
VK232.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000997	-1,727	202151
VK258.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000674	-1,727	494407
vik_84035.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001318	-1,728	127333
VK138.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001688	-1,728	75993
VK540.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000922	-1,734	332278
vik_grt036.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000947	-1,734	566481
VK316.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000804	-1,735	430152
VK413.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,003231	-1,735	15382
VK294.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00129	-1,736	149049
VK99.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001284	-1,736	141335
VK150.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,00079	-1,737	433746
VK330.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000693	-1,737	502899
VK509.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000764	-1,74	559709
VK514.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000943	-1,74	436442
VK343.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000914	-1,741	461200
VK288.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000936	-1,742	306580
VK456.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000724	-1,744	555748
VK218.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000758	-1,745	353253
VK395.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000933	-1,745	488529
VK546.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002218	-1,747	38784
VK86.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,014693	-1,747	743
VK108.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000748	-1,747	404232
VK325.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,003015	-1,748	19237
VK308.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000713	-1,749	585036
VK212.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000972	-1,75	216690
vik_2072.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005309	-1,752	5714
VK267.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00236	-1,761	35340
vik_urm035.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001345	-1,761	146538
VK281.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001172	-1,765	194391
VK469.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001402	-1,768	128023
VK469.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001298	-1,77	115375
VK98.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000835	-1,771	512319
VK506.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000773	-1,772	535699
VK369.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000811	-1,772	510891
VK270.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00206	-1,772	28083
VK396.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001018	-1,773	446328
VK18.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000966	-1,777	281997
VK312.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002858	-1,778	23208
VK514.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000693	-1,779	519268
VK458.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,0016	-1,78	75278
VK58.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000695	-1,78	755488
VK220.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00069	-1,78	654563
VK135.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,009107	-1,783	2004
VK414.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001	-1,783	470061
VK226.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002248	-1,783	25070
VK316.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000984	-1,784	480677
VK397.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000882	-1,784	424761
VK127.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001396	-1,785	110752
VK470.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,009105	-1,785	2041
VK404.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000717	-1,785	587501
VK330.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000775	-1,785	491142
VK431.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001939	-1,786	60721
VK102.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000805	-1,786	540657
VK395.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000838	-1,787	434397
VK143.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001251	-1,788	174462
VK173.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00096	-1,788	455641
VK102.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000641	-1,79	736373
VK252.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00783	-1,792	2323
VK364.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000939	-1,793	498294
VK432.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00331	-1,793	19514
VK296.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001163	-1,794	245398

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VK372.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000784	-1,794	565034
VK395.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000781	-1,794	578483
VK221.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000952	-1,795	549590
VK251.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002971	-1,795	21535
VK174.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000991	-1,796	391601
VK255.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005468	-1,798	5669
VK497.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000834	-1,8	438015
VK84.SG	Czech_EarlySlav.SG	Russia_Bolshoy	Yoruba.DG	-0,002437	-1,8	28447
VK428.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002159	-1,801	40533
VK401.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000863	-1,803	409710
VK313.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000949	-1,804	202098
vik_urm045.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,002998	-1,804	21598
VK448.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00098	-1,805	559356
VK297.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000898	-1,806	374259
VK352.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000763	-1,807	514652
VK414.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000717	-1,807	562635
VK419.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00073	-1,809	559965
VK146.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000875	-1,809	530221
VK450.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001373	-1,809	88525
VK102.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000916	-1,809	618655
VK143.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000689	-1,811	507588
VK128.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001283	-1,811	168154
VK212.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001262	-1,813	182555
VK70.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000702	-1,815	767823
VK247.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00182	-1,815	35155
VK411.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,006268	-1,816	4135
VK344.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000711	-1,817	487953
VK267.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,00165	-1,818	42853
VK289.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000842	-1,819	411186
VK326.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00135	-1,82	167238
VK403.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000985	-1,821	500402
VK286.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000911	-1,822	411834
VK153.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001901	-1,822	36833
vik_gtm127.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002236	-1,822	40206
VK267.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006403	-1,826	4438
vik_grt035.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000909	-1,826	619956
VK144.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,001674	-1,83	57943
VK218.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,002389	-1,83	34006
VK253.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,005563	-1,831	4730
VK303.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,001864	-1,832	67148
VK33.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000868	-1,832	404403
VK166.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00094	-1,833	615587
VK168.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000733	-1,833	542686
VK445.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001	-1,833	478453
VK261.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000738	-1,835	514806
VK485.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000752	-1,837	398292
VK65.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001191	-1,842	212225
VK480.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000987	-1,845	378594
VK400.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000807	-1,845	496423
VK128.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000737	-1,847	576894
VK267.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002316	-1,847	31398
VK282.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000967	-1,849	265860
VK316.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000694	-1,849	581843
VK344.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001065	-1,851	406609
VK485.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001026	-1,852	330088
VK551.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000726	-1,852	685563
VK369.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000722	-1,852	522312
VK445.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00075	-1,853	576336
VK260.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000923	-1,853	339869
VK319.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000914	-1,854	314836
VK286.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000799	-1,854	421159
VK428.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001109	-1,855	124035
VK524.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000756	-1,856	589027
VK372.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000899	-1,857	424172
VK530.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001065	-1,858	375759
VK275.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000842	-1,859	274853
VK317.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000794	-1,86	535236
VK498.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000699	-1,861	548361
VK439.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004319	-1,863	11577
VK228.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002089	-1,865	32634
VK362.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001091	-1,866	272728
VK401.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001036	-1,867	460765
VK484.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001003	-1,868	451432
VK383.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,007609	-1,868	3231
VK157.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000739	-1,87	457104
VK205.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001358	-1,872	156330
VK332.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000818	-1,875	512893
VK30.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001012	-1,875	232318

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VK552.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001	-1,878	484705
VK399.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000903	-1,878	468600
VK18.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001086	-1,879	320921
VK443.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000779	-1,88	665631
VK268.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001108	-1,881	118445
VK406.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000887	-1,881	415353
VK543.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001103	-1,882	401882
VK488.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000823	-1,883	456845
VK546.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,003114	-1,884	21889
VK296.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001086	-1,885	217282
VK456.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000911	-1,885	417963
vik_97026.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001549	-1,886	62990
VK408.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001248	-1,888	119220
VK266.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,000763	-1,89	408581
VK223.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000982	-1,89	242127
VK365.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,0008	-1,891	427161
VK431.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001471	-1,893	144389
VK282.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000915	-1,894	270442
VK259.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000794	-1,897	535434
VK168.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000828	-1,898	529864
VK352.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000732	-1,898	523344
VK317.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00076	-1,899	548575
VK215.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002341	-1,9	38460
VK208.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,004019	-1,901	13396
vik_nuf002.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001192	-1,903	126329
VK469.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003792	-1,905	15734
VK414.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000828	-1,905	553784
VK357.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000711	-1,905	589266
VK491.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001275	-1,906	175375
VK145.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001352	-1,908	154784
VK403.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000911	-1,908	443768
VK507.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001127	-1,909	365366
VK290.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000792	-1,909	562314
VK333.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000719	-1,912	543393
VK547.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000797	-1,912	752652
VK176.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000808	-1,914	693008
VK157.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000958	-1,914	337927
vik_97029.SG	Poland_Medieval_1.SG	Russia_Bolshoy	Yoruba.DG	-0,008437	-1,915	2825
vik_stg026.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001131	-1,916	309065
VK143.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000835	-1,917	495322
vik_84001.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000718	-1,917	754514
VK481.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,000996	-1,918	490450
VK263.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000859	-1,918	564880
VK19.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001072	-1,919	319706
VK353.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000798	-1,921	551459
VK357.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000708	-1,922	588889
VK322.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000845	-1,924	534876
vik_97026.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002028	-1,926	52677
VK153.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002762	-1,927	31017
VK309.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003349	-1,932	20403
VK306.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001059	-1,934	414659
VK361.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000915	-1,935	544378
VK122.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001081	-1,935	468179
VK476.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001419	-1,937	81441
vik_urm160.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000814	-1,938	574637
VK228.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00808	-1,938	3352
VK228.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002373	-1,941	31910
VK317.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000751	-1,942	548894
VK94.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001567	-1,942	81054
VK404.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001049	-1,943	488801
VK333.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000853	-1,945	531458
VK176.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000719	-1,945	709628
VK435.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00208	-1,945	40284
VK493.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00079	-1,946	642946
VK298.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001244	-1,946	183281
VK301.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001553	-1,948	116086
VK459.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001497	-1,95	100761
VK498.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001071	-1,951	455906
VK315.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,0012	-1,951	272208
VK57.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001352	-1,951	116135
VK480.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000867	-1,952	447912
VK322.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000832	-1,956	534147
VK168.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001344	-1,958	159797
VK34.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001095	-1,958	446642

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VK497.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000824	-1,961	583258
VK322.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000778	-1,962	547074
VK516.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000872	-1,965	565652
VK346.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000747	-1,966	566767
VK364.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000752	-1,966	602343
VK207.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001218	-1,968	310030
VK90.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00209	-1,969	53389
VK410.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001344	-1,97	94609
VK138.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00105	-1,972	234320
VK128.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000952	-1,978	426432
VK40.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001343	-1,978	198157
VK228.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,002155	-1,978	32653
VK548.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000916	-1,983	548510
VK53.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001088	-1,984	394894
VK327.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000754	-1,986	530178
VK467.SG	Hungary_Avar_1.SG	Russia_Bolshoy	Yoruba.DG	-0,005229	-1,987	9275
VK474.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001068	-1,987	510647
VK507.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000921	-1,988	432162
VK393.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000811	-1,989	532694
VK58.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000816	-1,989	743128
VK257.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000878	-1,989	482379
VK542.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000889	-1,989	546879
VK482.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000871	-1,99	504313
VK380.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001636	-1,99	87466
VK413.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004246	-1,992	12567
VK357.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000809	-1,992	575010
VK14.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,002587	-1,994	34591
VK15.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001099	-2	392670
VK261.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000854	-2,002	502433
vik_84001.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001022	-2,004	625363
VK401.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000807	-2,005	554400
VK413.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,003808	-2,006	17399
VK102.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000819	-2,008	725022
VK514.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000984	-2,009	383876
VK264.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000998	-2,011	360269
VK261.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000788	-2,012	515133
VK60.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000915	-2,015	294770
VK147.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001551	-2,018	137963
VK128.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001061	-2,018	477009
VK157.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000874	-2,018	450573
VK464.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002645	-2,021	35119
VK332.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000951	-2,022	592212
VK220.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001085	-2,022	543557
VK353.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000788	-2,022	565419
VK472.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001851	-2,024	47118
VK295.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001732	-2,026	97038
VK228.SG	Poland_Medieval_2.SG	Russia_Bolshoy	Yoruba.DG	-0,008507	-2,026	3125
VK498.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000852	-2,027	539381
VK295.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001126	-2,028	245424
VK322.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000786	-2,028	547428
VK161.SG	Italy_Sardinia_EarlyMedieval_published	Russia_Bolshoy	Yoruba.DG	-0,012341	-2,028	1364
VK363.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000796	-2,03	558830
VK545.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000758	-2,034	642614
VK149.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,0179	-2,034	554
VK553.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000771	-2,037	559891
VK414.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001004	-2,037	415767
VK542.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000752	-2,037	559154
VK357.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001414	-2,037	173063
VK548.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000775	-2,038	744778
VK442.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001472	-2,038	189318
VK173.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000749	-2,039	544669
VK141.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000824	-2,039	534871
vik_bns023.SG	Italy_Sardinia_LA_published	Russia_Bolshoy	Yoruba.DG	-0,008127	-2,039	3794
VK15.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001055	-2,04	349157
VK166.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000887	-2,042	543246
VK543.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001068	-2,043	358292
VK525.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001166	-2,046	411946
VK406.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000768	-2,046	561957
VK419.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000963	-2,05	413207
VK167.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001003	-2,052	341417
VK252.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,019384	-2,052	834
VK228.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,002819	-2,052	27694
VK157.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001133	-2,054	391299
VK276.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,003114	-2,055	26332
VK15.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000873	-2,056	471902
VK251.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,008578	-2,058	3604
VK39.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00198	-2,058	64479

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VK65.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000956	-2,059	254848
VK445.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000932	-2,059	567068
VK287.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000943	-2,06	296767
VK404.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000972	-2,061	434003
VK262.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000839	-2,062	544271
VK147.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000827	-2,065	443161
VK176.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000751	-2,066	709147
VK19.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000951	-2,066	372259
VK227.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001263	-2,066	194375
VK57.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001856	-2,067	97843
VK526.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000839	-2,068	660816
VK146.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000809	-2,068	542809
VK260.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000922	-2,068	452174
VK167.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00156	-2,07	139883
VK388.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001084	-2,07	365624
VK408.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004552	-2,073	12705
VK42.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00108	-2,073	641213
VK454.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001129	-2,075	169104
VK525.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001565	-2,076	145494
VK306.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001072	-2,076	370482
VK545.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001027	-2,077	532100
VK172.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001016	-2,077	393665
VK268.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001721	-2,079	86992
VK448.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00135	-2,08	198198
VK150.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000907	-2,08	498768
VK444.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001617	-2,081	125300
VK221.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000804	-2,082	664035
VK166.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000791	-2,082	738218
VK276.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,001894	-2,085	68443
VK292.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,00349	-2,085	21684
VK473.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001098	-2,085	490898
VK287.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001074	-2,09	291836
VK548.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001059	-2,092	616802
vik_bns023.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,003866	-2,094	12915
vik_kls001.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001406	-2,095	100724
VK542.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001456	-2,095	164971
VK141.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001149	-2,097	444256
VK324.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001475	-2,097	171606
VK396.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000857	-2,098	536635
VK398.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001019	-2,102	411550
VK101.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001442	-2,103	177138
VK257.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001166	-2,104	408009
VK262.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001162	-2,104	452929
VK87.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,000872	-2,111	591436
VK56.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002447	-2,112	46898
VK296.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001858	-2,113	88132
VK333.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000769	-2,113	543711
VK127.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00126	-2,116	313297
VK446.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000997	-2,117	452199
VK358.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000831	-2,118	482866
VK95.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,0008	-2,118	571472
VK413.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,006176	-2,121	6328
VK486.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000892	-2,122	635089
VK314.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001575	-2,123	158227
VK175.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000964	-2,127	434520
VK138.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001352	-2,127	175950
VK359.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,008092	-2,129	3862
VK315.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000954	-2,13	330957
VK471.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,0043	-2,13	16087
VK133.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004606	-2,131	12764
VK459.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004358	-2,133	14169
VK122.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000921	-2,135	554605
VK450.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001425	-2,136	90672
VK450.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002062	-2,14	74672
VK442.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000886	-2,141	534936
VK207.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001186	-2,141	278690
VK402.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00119	-2,141	498717
VK218.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000977	-2,142	348334
VK220.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000932	-2,142	643943
VK266.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001614	-2,143	142374
VK313.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001212	-2,146	198888
VK141.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001064	-2,148	395340
VK460.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003682	-2,15	19714

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VK542.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000884	-2,15	546040
vik_bns023.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,004991	-2,151	10919
VK552.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00091	-2,153	573844
VK178.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001148	-2,153	323374
VK429.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001103	-2,153	595170
VK350.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000866	-2,154	611837
VK467.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,005247	-2,155	7970
VK34.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000891	-2,156	537329
VK297.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001223	-2,157	312154
VK259.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001545	-2,163	160517
VK219.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000846	-2,164	611610
VK266.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,001021	-2,165	351954
vik_stg020.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004148	-2,165	13902
VK149.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00885	-2,166	3159
VK476.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001746	-2,166	80790
VK69.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001176	-2,167	310158
VK268.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,002875	-2,168	35252
VK346.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000885	-2,168	553154
vik_grt036.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000847	-2,168	685407
VK122.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001575	-2,171	165619
VK230.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000837	-2,171	695938
VK484.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001079	-2,172	402229
VK274.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001502	-2,172	183115
VK316.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000895	-2,173	572243
VK303.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001169	-2,173	577408
VK397.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000874	-2,173	574668
VK400.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001191	-2,173	419876
VK99.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000907	-2,174	436133
VK218.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001135	-2,175	349081
VK339.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,006224	-2,177	6043
VK39.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002128	-2,179	73499
VK406.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000875	-2,179	552859
VK319.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001377	-2,181	261837
VK419.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000956	-2,182	550956
VK553.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001091	-2,182	413806
VK70.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00091	-2,185	755269
VK217.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00231	-2,187	60260
VK489.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000964	-2,189	462326
VK315.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00105	-2,189	325535
VK42.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001013	-2,189	569443
VK428.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004788	-2,19	12567
VK484.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00087	-2,191	544262
VK154.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001117	-2,191	578881
VK389.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00084	-2,192	530666
VK398.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001185	-2,192	463447
VK147.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001105	-2,193	327607
VK286.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001725	-2,194	120497
VK348.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000957	-2,194	480036
VK226.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,005565	-2,194	8969
VK218.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000962	-2,195	356869
VK275.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001094	-2,2	270427
VK388.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00101	-2,2	486585
VK122.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000862	-2,2	563836
VK552.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000847	-2,201	583334
VK314.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001285	-2,201	190047
VK53.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001126	-2,201	333001
VK260.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000877	-2,204	459633
VK276.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,003401	-2,205	23422
VK389.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001155	-2,206	443871
VK355.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001071	-2,207	388796
VK178.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00092	-2,207	437553
VK473.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001059	-2,208	435580
VK363.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000921	-2,209	549563
VK42.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000844	-2,209	773958
VK35.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000997	-2,21	484421
VK99.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001152	-2,21	321756
VK410.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002092	-2,211	79195
VK276.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,001566	-2,212	81140
vik_stg026.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000985	-2,215	360167
VK380.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001503	-2,215	88581
VK435.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003296	-2,215	24075
VK472.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,002022	-2,218	46368
VK399.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000852	-2,22	634538

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VK298.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001244	-2,222	242610
VK295.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001401	-2,223	273361
VK553.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00123	-2,226	465148
vik_urm045.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00647	-2,229	7316
VK322.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001543	-2,231	159819
VK402.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001038	-2,231	443325
VK19.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003071	-2,232	38555
VK448.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000864	-2,233	675988
vik_urm035.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001191	-2,235	176708
VK467.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,006641	-2,237	6802
VK526.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001223	-2,24	546632
VK146.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000905	-2,241	542428
VK23.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001215	-2,243	206190
VK415.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001076	-2,247	410542
VK542.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000846	-2,247	559505
VK230.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00114	-2,248	575982
VK496.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001017	-2,25	492333
VK267.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,002035	-2,25	42248
VK362.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001404	-2,252	305105
vik_97029.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002799	-2,252	36706
VK313.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001515	-2,255	166658
VK382.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,008249	-2,259	4647
VK392.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001256	-2,262	412925
VK453.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001401	-2,262	119987
VK335.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001263	-2,267	426060
VK454.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001728	-2,271	141084
VK415.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000879	-2,273	556250
VK346.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000866	-2,274	566418
VK454.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001309	-2,274	166387
VK309.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00175	-2,275	162351
VK350.SG	Serbia_Medieval_Gepidian.SG	Russia_Bolshoy	Yoruba.DG	-0,001552	-2,277	209701
VK504.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002725	-2,278	44228
VK530.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001161	-2,279	337471
VK428.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001878	-2,279	102917
VK146.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000925	-2,281	529699
VK98.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000836	-2,282	696476
VK459.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001403	-2,283	135433
VK227.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003651	-2,284	27028
VK219.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000933	-2,285	601621
VK35.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001162	-2,285	363846
vik_97029.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006911	-2,287	6138
vik_kls001.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005427	-2,287	10289
VK333.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,000956	-2,289	530703
VK166.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000947	-2,289	726333
VK265.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001059	-2,289	521613
VK407.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004565	-2,289	16229
VK326.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00109	-2,29	556508
VK544.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001543	-2,292	175464
VK327.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000959	-2,295	521700
VK467.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,018911	-2,295	943
vik_stg021.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000855	-2,296	747297
VK279.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001501	-2,297	204470
VK328.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001711	-2,298	161624
VK415.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001251	-2,298	465542
VK154.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001048	-2,298	514318
VK296.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003512	-2,3	30114
VK467.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,004887	-2,301	9009
VK226.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004341	-2,302	15079
VK393.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001319	-2,304	441198
VK358.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001289	-2,306	400610
VK219.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001199	-2,306	507108
vik_nuf002.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002051	-2,306	106230
VK397.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001247	-2,308	477540
VK424.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001482	-2,308	98207
VK337.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001161	-2,309	555144
VK228.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,002661	-2,309	32322
VK406.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001217	-2,313	467381
VK344.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000981	-2,317	480136
vik_84035.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001411	-2,318	148736
VK442.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001138	-2,319	399320
VK295.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001053	-2,319	331117
VK232.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00156	-2,319	152525
VK525.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001071	-2,322	490882
VK154.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000877	-2,322	697606
VK358.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000973	-2,324	475069
VK261.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00109	-2,325	503355

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VK147.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000997	-2,326	436494
VK468.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001207	-2,327	604351
VK431.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001278	-2,328	173133
VK473.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000887	-2,328	589566
VK474.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000925	-2,329	615274
VK34.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001126	-2,329	397164
VK459.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001515	-2,334	133401
VK392.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000942	-2,336	497461
VK278.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001396	-2,336	306094
VK128.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001022	-2,337	567395
VK265.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,000903	-2,338	533386
VK286.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001093	-2,339	410870
VK365.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001163	-2,339	422157
VK221.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000993	-2,342	653031
VK265.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000894	-2,343	533739
VK472.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,007857	-2,346	4709
VK544.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001099	-2,347	442756
VK144.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006891	-2,35	7002
vik_stg026.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000994	-2,352	365869
VK215.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003293	-2,355	30909
VK155.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001593	-2,355	118131
vik_97026.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00206	-2,355	61347
VK469.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001293	-2,357	155147
VK90.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001271	-2,359	178594
VK207.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001053	-2,359	375157
VK218.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001019	-2,359	357059
VK176.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001561	-2,362	206381
VK362.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001066	-2,363	368026
VK450.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002252	-2,364	66294
VK394.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001031	-2,365	407003
VK254.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001207	-2,365	310933
VK301.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001407	-2,369	327690
VK95.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001018	-2,369	563494
VK84.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001667	-2,372	155112
VK490.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002855	-2,373	48655
VK396.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001063	-2,373	527905
VK467.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,004567	-2,374	9277
VK467.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,004866	-2,375	9151
VK399.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00122	-2,375	527315
VK409.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005495	-2,382	12102
VK312.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,001693	-2,384	134364
VK202.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001648	-2,385	153646
VK473.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001033	-2,387	579986
VK230.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00104	-2,387	684384
VK228.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,006099	-2,388	9688
VK319.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001373	-2,389	235141
VK98.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001249	-2,39	587566
VK422.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001334	-2,391	442331
VK462.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,007593	-2,394	6431
VK265.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001033	-2,395	520702
VK87.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001594	-2,396	202572
VK543.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001021	-2,4	484827
VK278.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001307	-2,4	272690
VK545.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000953	-2,402	631928
VK262.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001073	-2,402	535493
vik_stg021.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001247	-2,404	622070
VK530.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001003	-2,406	455870
VK172.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001306	-2,41	445983
VK549.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001604	-2,415	187490
VK442.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001774	-2,416	159927
VK398.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00093	-2,418	556959
VK393.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001074	-2,419	523812
VK334.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001423	-2,421	270921
VK496.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001249	-2,422	554180
VK281.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001082	-2,423	491414
VK365.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001016	-2,425	431458
VK365.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001866	-2,425	126410
VK415.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001034	-2,43	547580
VK176.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00096	-2,432	691838
VK270.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,0043	-2,432	17173
VK444.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001104	-2,433	430764
VK394.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001176	-2,433	305870

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VK474.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001134	-2,435	454600
VK468.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001166	-2,436	536994
VK380.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001721	-2,437	87198
VK453.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002003	-2,438	88799
VK42.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001024	-2,438	761074
VK98.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000993	-2,438	685935
VK350.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,000966	-2,439	612242
vik_97026.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001954	-2,439	62237
VK24.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002229	-2,439	70044
VK178.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,0011	-2,442	430493
vik_84001.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,000981	-2,442	741998
VK147.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001408	-2,443	376355
VK514.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001025	-2,444	511262
VK525.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001242	-2,444	369441
VK364.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001129	-2,447	445087
VK39.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001862	-2,447	85901
VK313.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004093	-2,448	20746
VK394.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000971	-2,451	413337
VK485.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001094	-2,453	391765
VK247.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003976	-2,453	21356
VK330.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001258	-2,453	366714
VK392.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001094	-2,455	489357
VK525.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001003	-2,456	499166
VK489.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001256	-2,457	520545
VK60.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001419	-2,457	218945
vik_grt035.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001131	-2,463	550541
VK424.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005803	-2,464	9909
VK530.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001142	-2,467	448143
VK150.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001125	-2,468	499523
VK178.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001423	-2,468	365305
VK394.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001385	-2,469	346790
VK264.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001006	-2,469	487434
VK410.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002601	-2,469	56827
VK205.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001383	-2,471	441700
VK87.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001126	-2,472	688087
VK345.SG	Germany_EarlyMedieval_Alemanic_Byzantine	Russia_Bolshoy	Yoruba.DG	-0,001073	-2,475	440954
VK455.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002856	-2,476	61207
VK205.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001213	-2,477	394708
VK219.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001161	-2,477	451620
VK548.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001013	-2,479	732397
VK69.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001029	-2,484	419468
VK365.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001145	-2,485	421271
VK361.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001681	-2,488	161106
VK111.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001225	-2,488	356285
VK110.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001336	-2,489	472523
VK491.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001113	-2,49	437728
VK491.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001331	-2,49	492781
VK14.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001592	-2,49	113513
VK397.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00105	-2,49	565360
VK480.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001284	-2,493	336952
VK281.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001313	-2,498	550909
VK350.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001135	-2,504	598149
VK361.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001392	-2,511	454263
VK539.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002761	-2,511	63481
VK474.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001081	-2,512	605257
VK349.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001863	-2,515	161058
VK346.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001699	-2,517	167488
VK540.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001064	-2,518	449115
VK334.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001353	-2,519	240852
VK14.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005717	-2,522	11589
VK545.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001197	-2,527	474691
VK402.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00096	-2,527	600073
VK544.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001349	-2,528	495394
VK65.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001317	-2,529	250808
VK201.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000997	-2,53	551679
VK285.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00141	-2,53	261672
VK389.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001142	-2,531	392414
VK172.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000987	-2,534	533303
vik_grt035.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000911	-2,535	747623
VK388.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00146	-2,539	412080
VK34.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001086	-2,539	528536
VK16.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005228	-2,547	16003
VK489.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000926	-2,548	625951
VK401.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001138	-2,556	545336
VK111.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001383	-2,557	405452

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VK167.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001395	-2,563	386592
VK99.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001171	-2,566	430250
VK175.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003062	-2,567	44851
VK18.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001095	-2,568	381386
vik_grt036.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001101	-2,57	674019
VK433.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001328	-2,571	562988
VK260.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001837	-2,571	136389
VK383.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,003914	-2,572	27442
VK540.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001175	-2,572	441929
VK476.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006877	-2,573	8531
VK265.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001844	-2,575	157005
VK334.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001083	-2,575	325263
VK232.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001803	-2,576	170471
VK14.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001829	-2,576	111752
VK450.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001906	-2,582	87914
VK303.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001008	-2,582	698090
VK526.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001135	-2,584	649785
VK467.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,006296	-2,586	9098
VK362.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00128	-2,59	362068
VK385.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001009	-2,593	608540
VK296.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001203	-2,594	293819
VK205.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001031	-2,595	533824
VK228.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00361	-2,595	31937
VK154.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001082	-2,597	686125
VK350.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001102	-2,598	597068
VK300.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003595	-2,599	30068
VK84.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001027	-2,602	521307
VK173.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001071	-2,602	535991
VK430.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,0054	-2,604	14104
VK23.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001651	-2,612	154961
VK84.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001205	-2,616	509360
VK446.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001407	-2,616	508977
VK223.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001572	-2,619	182020
VK69.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001509	-2,62	357161
VK330.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001478	-2,62	413011
VK450.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006736	-2,625	9019
VK253.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,021548	-2,626	700
VK303.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001121	-2,626	686433
VK295.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001324	-2,629	325568
VK402.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001111	-2,631	590189
VK410.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001925	-2,635	93070
VK332.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001834	-2,637	176974
VK276.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00225	-2,638	80338
VK446.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001063	-2,638	613086
VK57.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005983	-2,638	12341
VK469.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001604	-2,639	152555
VK345.SG	Italy_North_EarlyMedieval_Langobards_2	Russia_Bolshoy	Yoruba.DG	-0,001048	-2,64	515711
vik_stg026.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001395	-2,646	270609
VK448.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001105	-2,648	664737
VK84.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001085	-2,649	520962
VK407.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001571	-2,649	154229
VK380.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006582	-2,651	9243
VK324.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001252	-2,661	425607
VK286.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001583	-2,665	341176
VK225.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004008	-2,666	29169
VK404.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001149	-2,667	578033
VK172.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001185	-2,671	524951
VK279.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001385	-2,672	577268
vik_stg021.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001102	-2,673	735160
VK359.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,031412	-2,674	451
VK202.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001416	-2,675	430602
VK294.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001348	-2,676	376960
VK364.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001118	-2,676	592475
VK326.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001103	-2,678	569550
VK279.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001205	-2,679	514598
VK519.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002392	-2,68	88518
VK329.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001451	-2,68	449988
VK349.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001388	-2,68	451081
VK368.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001475	-2,68	444824
VK48.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004722	-2,68	20893
VK354.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003452	-2,68	37535
VK358.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001285	-2,681	357297

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VK150.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001071	-2,688	511158
VK329.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00127	-2,69	399700
VK306.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001218	-2,69	492941
VK177.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,001989	-2,694	149412
VK363.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001465	-2,694	461822
VK264.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001514	-2,694	405956
VK314.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001468	-2,695	191499
VK281.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000999	-2,695	665730
VK466.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002864	-2,697	57376
VK484.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001136	-2,698	535284
VK409.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002508	-2,703	69567
VK444.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001384	-2,709	421247
VK53.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001225	-2,71	446726
VK267.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00275	-2,714	41583
VK543.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00129	-2,716	476800
VK426.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002872	-2,716	51867
VK141.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001188	-2,717	526139
VK123.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001543	-2,72	374148
VK21.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002395	-2,721	78918
VK254.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003748	-2,722	32415
VK228.SG	Hungary_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,006414	-2,73	10446
VK261.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001444	-2,731	423102
VK306.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001095	-2,736	501266
VK15.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001239	-2,737	464440
VK145.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001371	-2,739	382675
VK368.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001077	-2,739	538377
VK332.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001111	-2,742	605780
VK122.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003028	-2,743	57185
VK39.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,007318	-2,744	8951
VK111.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001053	-2,744	482322
VK461.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004991	-2,747	18849
VK228.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,004207	-2,749	23835
VK336.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001514	-2,752	461261
VK288.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001145	-2,752	413403
VK380.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002548	-2,752	65589
VK303.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001253	-2,756	514813
VK201.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00152	-2,757	456088
VK346.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001295	-2,757	413038
VK60.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001357	-2,76	289970
VK457.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005818	-2,762	13435
VK324.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00104	-2,764	575865
vik_grt035.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001143	-2,772	735251
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VK258.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001206	-2,774	486355
VK429.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001244	-2,782	529114
VK403.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00108	-2,782	600970
VK468.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001048	-2,785	728856
VK496.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,000984	-2,786	667454
VK454.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005362	-2,787	17297
VK301.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001451	-2,788	293713
VK57.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002343	-2,795	87457
VK399.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001169	-2,797	624154
VK273.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,002009	-2,798	157485
VK18.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001291	-2,8	375595
VK123.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001411	-2,803	331179
VK491.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001057	-2,805	592657
VK111.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001263	-2,806	474852
VK228.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005025	-2,806	19268
VK434.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005133	-2,807	18006
VK328.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001566	-2,816	448801
VK167.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001115	-2,821	462126
VK385.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001508	-2,822	504471
VK294.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001499	-2,828	421235
VK143.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001409	-2,829	369755
VK333.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001486	-2,838	445699
VK326.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001143	-2,838	569196
VK329.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001075	-2,84	540505
VK332.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001117	-2,846	606158
VK326.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001235	-2,847	555508
VK53.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001141	-2,847	452480
VK340.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003493	-2,851	36643
VK348.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00326	-2,852	49746
VK301.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001374	-2,853	390388
VK324.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001516	-2,853	480049
VK544.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001119	-2,857	598793
VK84.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001208	-2,864	508497
VK63.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005903	-2,865	13765
VK278.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001213	-2,87	369010

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VK279.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001064	-2,871	697476
VK297.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001582	-2,872	279223
VK371.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003715	-2,876	37726
VK368.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001455	-2,876	398461
VK64.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003952	-2,88	37470
VK338.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004164	-2,881	33302
VK138.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001317	-2,886	237908
VK448.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001337	-2,887	499082
VK433.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001321	-2,888	501101
VK496.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001173	-2,897	656540
VK424.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003044	-2,897	58466
VK419.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003145	-2,9	56864
VK361.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001414	-2,9	404909
VK514.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003211	-2,901	53042
VK444.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001243	-2,901	431023
VK301.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001212	-2,902	396902
VK228.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,003315	-2,905	32128
VK319.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001325	-2,914	317278
VK317.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,002054	-2,918	157653
VK379.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004038	-2,919	31146
VK515.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003881	-2,92	37709
vik_urm035.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005037	-2,921	18098
VK294.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001138	-2,926	509473
VK127.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001576	-2,933	279129
vik_gtm021.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004152	-2,933	29724
VK332.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001219	-2,935	591315
VK205.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001256	-2,936	524980
VK439.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002776	-2,943	66947
VK296.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001411	-2,944	289201
VK315.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004098	-2,944	33916
VK295.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004194	-2,945	33914
VK40.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00152	-2,949	549713
VK276.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,002113	-2,951	82113
VK365.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001221	-2,953	431698
VK398.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001241	-2,953	547911
VK328.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001343	-2,958	395983
VK177.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001567	-2,958	415411
VK202.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001135	-2,96	517792
VK264.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001353	-2,972	479597
VK349.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001424	-2,974	401643
VK207.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001406	-2,974	368969
VK446.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001307	-2,975	603193
VK355.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001556	-2,976	438379
VK127.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001208	-2,98	377621
vik_urm161.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,009258	-2,981	6508
VK357.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001599	-2,982	483826
VK33.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003961	-2,985	41845
VK429.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001069	-2,986	717703
VK274.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001519	-2,989	463551
VK268.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001836	-2,99	116802
VK373.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003495	-2,99	52408
VK150.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001144	-2,991	510856
VK207.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00402	-2,992	38349
VK442.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001636	-3,004	448316
VK69.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00131	-3,007	413279
VK422.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001436	-3,013	390470
VK177.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00148	-3,014	368033
VK353.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00161	-3,016	462663
VK146.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001666	-3,02	446108
VK258.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001457	-3,02	365523
VK262.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001507	-3,02	401770
VK329.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001321	-3,021	531861
VK422.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001218	-3,025	528704
VK40.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001437	-3,027	478922
VK444.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001401	-3,031	420514
VK337.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001137	-3,032	670118
VK266.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001445	-3,042	403515
VK549.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001407	-3,044	467412
VK403.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001298	-3,048	591130
vik_stg020.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002865	-3,051	83607
VK273.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,0017	-3,054	437315
VK291.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003544	-3,055	51944
VK337.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001355	-3,061	494894
VK334.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004301	-3,063	33226
VK218.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001682	-3,065	260138
VK471.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002647	-3,069	93338
VK544.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00129	-3,074	588945
VK285.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001336	-3,075	353271
VK57.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001964	-3,076	118065
VK159.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002376	-3,076	118582
VK422.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001369	-3,084	520519

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VK31.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004755	-3,087	25956
VK279.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001246	-3,089	685927
VK101.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001627	-3,09	492615
VK274.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001706	-3,095	519223
vik_urm161.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004002	-3,095	38713
VK87.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001113	-3,096	704362
VK370.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003518	-3,102	56146
VK297.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001364	-3,104	376805
VK145.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,0017	-3,111	431639
VK549.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001641	-3,112	525815
VK40.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001193	-3,113	650428
VK285.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004235	-3,118	35987
VK369.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00148	-3,119	380412
VK141.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003512	-3,122	54188
VK527.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003622	-3,124	51446
VK324.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001307	-3,125	566684
VK336.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001541	-3,131	408962
VK261.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001529	-3,133	375476
VK218.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004278	-3,134	35943
VK335.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001231	-3,137	511424
VK427.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003354	-3,137	48171
VK87.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001158	-3,138	703922
vik_KAL006.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003507	-3,144	55676
VK144.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003791	-3,146	40125
VK333.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001465	-3,151	395797
VK542.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003576	-3,157	56076
VK314.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005755	-3,18	19780
VK282.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004743	-3,187	27813
VK276.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,002551	-3,188	80094
VK153.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00512	-3,194	22275
VK355.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001269	-3,198	526305
VK110.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001567	-3,204	420354
VK288.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004135	-3,205	42259
VK328.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001249	-3,208	536230
VK202.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001551	-3,209	383482
VK489.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001245	-3,219	615766
VK459.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002748	-3,223	113444
VK127.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00148	-3,226	371524
VK320.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003472	-3,226	57432
VK340.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002079	-3,231	211696
VK337.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001372	-3,239	659029
VK349.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001274	-3,24	543297
VK84.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001826	-3,241	430526
VK429.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001297	-3,243	705853
VK101.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001514	-3,248	434122
VK323.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003581	-3,253	57670
VK345.SG	Norway_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001554	-3,253	509372
VK110.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001435	-3,255	558606
VK382.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004607	-3,263	27682
VK450.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00213	-3,263	89321
VK294.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001384	-3,264	501063
VK517.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004053	-3,264	49920
VK40.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001384	-3,268	640624
VK285.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001518	-3,269	347293
VK491.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001357	-3,272	582953
VK385.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00139	-3,274	598483
VK260.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004045	-3,28	46725
VK110.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001281	-3,281	567953
VK259.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001817	-3,285	449995
vik_84005.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003722	-3,287	53425
VK314.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001916	-3,29	188421
VK146.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00161	-3,291	395672
VK394.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004027	-3,292	42045
VK87.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001315	-3,296	686592
VK468.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001375	-3,3	716745
VK553.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003661	-3,303	57018
VK368.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001419	-3,309	529471
VK433.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001267	-3,317	678922
VK342.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003681	-3,32	59320
VK202.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001424	-3,323	509527
VK363.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003726	-3,325	56895
VK176.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001641	-3,329	580482
VK223.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005188	-3,336	25266
VK17.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004732	-3,349	31508
VK281.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001333	-3,358	654693
VK168.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001603	-3,373	395305
VK288.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001961	-3,373	341312
VK151.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003852	-3,378	53112

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VK386.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003681	-3,38	56400
VK389.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001381	-3,381	522308
VK317.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001909	-3,384	446722
VK542.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001822	-3,385	460164
VK176.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001536	-3,391	515187
VK204.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004032	-3,391	50014
VK201.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001454	-3,394	542531
VK482.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003711	-3,396	52093
VK335.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001683	-3,398	378166
VK358.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00386	-3,404	49439
VK168.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001896	-3,405	446200
VK167.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001519	-3,408	454646
VK288.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001556	-3,412	406500
vik_bns023.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,009047	-3,414	7880
VK491.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003685	-3,42	60191
VK516.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004014	-3,42	58505
VK467.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,011199	-3,422	5529
VK322.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001654	-3,426	398794
VK353.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00383	-3,427	56765
VK266.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001377	-3,429	412402
VK276.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002508	-3,432	82061
VK267.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005179	-3,433	25373
VK289.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004459	-3,435	42947
VK274.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001349	-3,441	627881
VK367.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004131	-3,443	50800
VK334.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001601	-3,448	320099
VK431.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00209	-3,45	170257
VK285.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002128	-3,452	290488
VK422.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003972	-3,452	53540
VK178.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004079	-3,453	44454
VK155.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003387	-3,456	71604
VK488.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004039	-3,465	47410
VK520.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003645	-3,465	64061
VK361.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001409	-3,471	548348
VK328.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001511	-3,477	527769
VK508.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003705	-3,478	64757
VK123.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001532	-3,479	441035
VK287.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004918	-3,481	30501
VK232.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006088	-3,486	21270
VK160.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003931	-3,487	62031
VK353.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001377	-3,489	556886
VK425.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003722	-3,493	51771
VK29.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003598	-3,494	72164
VK71.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003085	-3,496	83653
VK355.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001471	-3,497	517842
VK269.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004759	-3,499	33269
VK201.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003998	-3,5	55898
VK453.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002395	-3,502	118078
VK366.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004558	-3,505	40570
VK274.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001551	-3,508	617475
VK408.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003184	-3,508	73423
VK262.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00389	-3,509	55351
VK442.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001362	-3,511	539810
VK335.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001539	-3,513	503322
VK212.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005853	-3,514	22679
VK319.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001717	-3,519	311982
VK383.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005818	-3,522	19660
VK357.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001622	-3,522	428791
VK30.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005534	-3,526	24215
VK266.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001405	-3,529	412664
VK273.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001736	-3,533	385827
VK505.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004036	-3,535	52182
VK224.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006578	-3,537	15963
VK345.SG	Germany_EarlyMedieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001428	-3,55	520937
VK298.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005479	-3,553	25249
VK101.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001373	-3,562	589099
VK349.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001503	-3,565	534509
VK438.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003082	-3,566	90819
VK369.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001888	-3,574	423957
VK444.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001809	-3,579	314149
VK259.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001402	-3,58	540835
VK405.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004463	-3,581	50174
VK336.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001426	-3,59	553227
VK266.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001557	-3,596	402885
VK292.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004244	-3,599	43273
VK273.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001383	-3,604	522572
VK108.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004586	-3,607	41772
VK15.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,0043	-3,607	48084
VK432.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002827	-3,615	113557
VK353.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001698	-3,615	411112

H1	H2	X	O	D	Z	#snps
VK90.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002151	-3,619	175739
VK101.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001487	-3,623	579714
VK414.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004108	-3,625	57069
VK350.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001769	-3,631	445551
VK177.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001562	-3,634	490073
VK528.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003978	-3,642	61484
VK368.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004137	-3,642	54771
VK155.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,008362	-3,644	12398
VK330.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001609	-3,647	487769
VK336.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001603	-3,649	544414
VK259.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001601	-3,649	532091
VK346.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,001954	-3,655	466090
vik_gtm127.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005265	-3,657	28919
VK228.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,004483	-3,667	31602
VK276.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,002638	-3,668	80732
VK51.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004875	-3,674	39351
VK265.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,00189	-3,684	438521
VK399.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003932	-3,684	64160
VK364.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003956	-3,689	61146
VK369.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001434	-3,691	514018
VK350.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002066	-3,7	500000
VK177.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001446	-3,7	498117
VK543.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004537	-3,702	49335
VK150.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001773	-3,702	372274
VK317.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,00182	-3,702	399251
VK493.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003829	-3,707	66080
VK276.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,003514	-3,711	59815
VK278.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00171	-3,717	362977
VK268.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002537	-3,718	114962
VK134.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005003	-3,719	35347
VK433.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001506	-3,722	667712
VK472.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005189	-3,727	27397
VK417.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004292	-3,734	54922
VK128.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004084	-3,734	58484
VK510.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003863	-3,736	61369
VK326.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002034	-3,744	468084
VK168.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001485	-3,744	535152
VK473.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003885	-3,744	59860
VK345.SG	Norway_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,001587	-3,747	508559
VK330.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001451	-3,748	495761
VK257.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00426	-3,749	49766
VK544.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003935	-3,752	60843
VK551.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00372	-3,755	70405
VK495.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004204	-3,763	53759
VK395.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004004	-3,765	59791
VK372.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004147	-3,773	58274
VK297.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001738	-3,78	370653
VK143.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001562	-3,782	491882
vik_97026.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004831	-3,785	37994
VK145.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001525	-3,787	517463
VK272.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003339	-3,788	83932
VK286.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001885	-3,79	407068
VK168.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001625	-3,792	526575
VK228.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,005879	-3,798	26776
VK511.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003897	-3,801	64256
VK143.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002141	-3,802	416561
VK123.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001545	-3,809	448120
VK276.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,003097	-3,811	79425
VK20.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005285	-3,813	29832
VK479.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004063	-3,817	65361
VK150.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002077	-3,825	420006
VK549.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001438	-3,826	633043
VK286.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001695	-3,831	414224
VK286.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002033	-3,837	307042
VK165.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004362	-3,839	52407
VK362.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004964	-3,853	37590
VK60.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00569	-3,853	30258
VK345.SG	Hungary_Langobard.SG	Russia_Bolshoy	Yoruba.DG	-0,001505	-3,86	521247
VK478.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,0043	-3,86	62076
VK332.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002068	-3,863	497032
VK529.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004164	-3,864	64305
VK475.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003812	-3,865	76854
VK434.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003001	-3,866	105462
VK303.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004033	-3,868	70559
VK20.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,0026	-3,869	174590
VK255.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005091	-3,877	33145
VK273.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001703	-3,877	514281
VK398.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004349	-3,878	56445
vik_urm045.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004726	-3,885	42814

H1	H2	X	O	D	Z	#snps
VK143.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001512	-3,888	499941
VK322.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002054	-3,889	448210
VK343.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004234	-3,89	56216
VK16.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003436	-3,896	93642
VK259.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001971	-3,897	399450
VK387.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004539	-3,899	53281
VK273.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004418	-3,905	53134
VK463.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003021	-3,906	112115
VK56.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002247	-3,907	276821
VK266.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002257	-3,915	340454
VK325.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005219	-3,919	35321
VK87.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002088	-3,921	573341
VK497.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004149	-3,927	60209
VK388.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004753	-3,929	50425
VK492.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004351	-3,931	51081
VK261.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001569	-3,94	507640
VK264.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004605	-3,94	49838
VK322.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001502	-3,941	539104
VK265.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001936	-3,971	389004
VK218.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002396	-3,976	292226
VK549.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004128	-3,982	64068
VK50.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,003934	-3,988	75808
VK139.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006443	-4,001	25519
VK361.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001781	-4,003	539285
VK174.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004841	-4,009	47703
VK443.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004	-4,009	68482
VK328.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004685	-4,02	54572
VK452.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003243	-4,021	98540
VK542.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001938	-4,025	407832
VK84.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,001911	-4,029	379853
VK406.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004561	-4,029	57223
VK284.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004587	-4,031	51391
VK525.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00471	-4,032	50672
VK145.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001826	-4,043	509221
VK442.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001737	-4,047	531061
VK171.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004813	-4,05	42390
VK480.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004961	-4,061	46459
VK474.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004388	-4,064	62500
VK129.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004019	-4,065	75137
VK489.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004308	-4,071	63485
VK353.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00172	-4,071	547820
VK357.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001512	-4,082	580673
VK346.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004591	-4,085	56911
VK221.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004269	-4,105	67113
VK278.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005527	-4,112	37587
VK357.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001681	-4,121	571386
VK344.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004506	-4,126	49839
VK176.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001528	-4,127	698787
VK98.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004186	-4,127	70360
VK380.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00423	-4,134	54452
VK156.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005055	-4,134	42430
VK484.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004697	-4,147	55213
VK39.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004353	-4,158	52831
VK275.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006397	-4,164	28202
VK94.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004499	-4,165	49152
VK317.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001629	-4,169	540071
VK549.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00171	-4,177	622825
VK444.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002372	-4,178	351441
VK384.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004714	-4,18	55168
VK345.SG	Germany_EarlyMedieval_Alemanic_Lombardian	Russia_Bolshoy	Yoruba.DG	-0,002865	-4,183	152389
VK322.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001756	-4,206	530337
VK550.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004357	-4,207	65434
VK84.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,0049	-4,215	52197
VK176.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001725	-4,215	687306
VK542.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001764	-4,217	542739
VK385.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004531	-4,227	61761
VK456.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004479	-4,23	57435
VK512.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004443	-4,242	65851
VK286.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005348	-4,261	42366
VK218.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001853	-4,266	351825
VK336.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004689	-4,282	56123
VK349.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004773	-4,284	55466
VK290.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004625	-4,287	58186
VK481.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00443	-4,294	60124
VK297.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005663	-4,303	38657
VK322.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004711	-4,303	54874
VK392.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00502	-4,309	50585
VK263.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004667	-4,31	58249
VK146.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00163	-4,318	534876
VK70.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004189	-4,321	77166
VK205.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004831	-4,333	54405
VK308.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004647	-4,336	60270
VK147.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005304	-4,347	44448
VK99.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004999	-4,355	44779

H1	H2	X	O	D	Z	#snps
VK333.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001758	-4,362	526985
VK35.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005155	-4,362	50304
VK227.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003192	-4,363	155878
VK453.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004035	-4,368	71285
VK224.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003697	-4,369	90604
VK218.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002102	-4,369	346052
VK276.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,004359	-4,371	66535
VK258.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004966	-4,378	50304
VK369.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005098	-4,382	52539
VK350.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001718	-4,388	602796
VK540.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005107	-4,389	45736
VK346.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001612	-4,391	558636
VK552.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004751	-4,396	59217
VK445.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004986	-4,404	58497
VK420.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004515	-4,405	62514
VK369.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001907	-4,406	505506
vik_97002.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004873	-4,406	52696
VK460.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003476	-4,414	113911
VK365.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002292	-4,415	315196
VK150.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004982	-4,421	51104
VK48.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003343	-4,427	122656
VK545.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004635	-4,429	65244
vik_nuf002.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,009686	-4,43	12991
VK431.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,008132	-4,437	17903
VK433.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004449	-4,442	68680
VK208.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,006133	-4,451	27239
VK333.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001678	-4,451	535625
VK352.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005036	-4,458	53135
VK127.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005946	-4,463	38300
VK400.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004886	-4,466	51236
VK542.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001674	-4,468	551584
VK23.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,007377	-4,473	21485
VK172.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005174	-4,475	53939
VK555.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004891	-4,477	52805
VK143.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005019	-4,484	50925
VK261.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001977	-4,488	499421
VK457.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003952	-4,489	78354
VK123.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005584	-4,495	45431
VK459.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00399	-4,498	81700
VK444.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005377	-4,502	43236
VK485.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005673	-4,503	40498
VK327.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005065	-4,503	53799
VK329.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004888	-4,505	55071
VK554.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005292	-4,506	48563
VK326.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002252	-4,508	415024
VK430.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003952	-4,511	80238
VK301.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005931	-4,512	40735
VK154.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004533	-4,541	70396
VK92.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003646	-4,542	109135
VK450.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00496	-4,549	53405
VK476.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005139	-4,564	48241
VK361.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005093	-4,571	55685
VK256.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004797	-4,578	58697
VK265.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001905	-4,593	517653
VK225.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003089	-4,595	168888
VK157.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005554	-4,6	46708
VK166.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004534	-4,601	74197
vik_84001.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004406	-4,603	75829
VK507.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005649	-4,609	44786
vik_stg026.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006134	-4,612	37037
VK332.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002146	-4,619	441285
VK446.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004904	-4,628	62104
VK69.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005678	-4,629	42799
VK326.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002056	-4,63	552377
VK212.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003483	-4,63	131645
VK42.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004395	-4,634	77742
VK167.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005332	-4,645	47118
VK335.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005197	-4,646	51972
VK346.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,001953	-4,648	549716
VK84.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00185	-4,649	514147
VK168.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005354	-4,65	54355
VK265.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005173	-4,651	53610
VK146.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002031	-4,656	526296
VK150.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001817	-4,656	503703
VK300.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003273	-4,662	173561
VK53.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005454	-4,67	46038
VK139.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003309	-4,676	148242
VK506.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00509	-4,68	55171
VK170.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005247	-4,7	54900
VK365.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002534	-4,702	354145
VK517.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002717	-4,706	289618
VK313.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003514	-4,71	119061
VK317.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002044	-4,712	531165
VK524.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004963	-4,716	60902
VK57.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004531	-4,72	69922

H1	H2	X	O	D	Z	#snps
VK102.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004825	-4,732	74096
VK268.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004393	-4,733	70422
VK509.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005118	-4,746	58114
VK530.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005805	-4,75	46340
VK294.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005279	-4,751	51794
VK333.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005258	-4,757	54504
VK533.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004518	-4,76	77140
VK404.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005134	-4,772	59621
VK87.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002113	-4,773	511489
VK30.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003554	-4,776	141560
VK306.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005551	-4,779	50786
VK326.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001909	-4,789	561174
vik_grt035.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004808	-4,803	75313
VK494.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00468	-4,804	68521
VK265.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001743	-4,805	525911
VK18.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006135	-4,808	38738
VK319.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006739	-4,826	32547
VK444.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00206	-4,832	424241
VK357.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005225	-4,832	58900
VK449.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005243	-4,843	60111
VK461.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003833	-4,846	107955
VK145.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005427	-4,847	52746
VK332.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001934	-4,854	597051
VK338.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003138	-4,858	192648
VK526.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005143	-4,877	66996
VK483.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004921	-4,878	65208
VK259.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005684	-4,886	55158
VK403.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005332	-4,887	60878
VK547.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004879	-4,891	76992
vik_urm160.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005157	-4,9	59191
VK84.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002114	-4,906	506097
VK266.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005902	-4,907	41582
vik_kal009.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004594	-4,912	79875
VK203.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005719	-4,922	52934
VK350.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002054	-4,922	592817
VK415.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005558	-4,947	56660
VK365.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00205	-4,962	425291
VK444.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00232	-4,964	417373
VK365.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,00225	-4,966	418626
VK220.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005304	-4,996	66418
VK58.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00477	-4,998	76013
VK219.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005341	-5,001	61957
vik_gtm021.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003479	-5,001	178658
VK508.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002944	-5,033	378865
VK345.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002456	-5,039	379351
VK393.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00562	-5,043	54214
VK332.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002152	-5,057	587503
VK402.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005413	-5,058	60965
vik_nuf002.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00479	-5,061	76422
VK442.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005582	-5,066	54600
VK366.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003205	-5,075	233519
VK496.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005048	-5,086	67501
VK87.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002112	-5,09	681589
VK134.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00316	-5,096	204459
VK354.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003101	-5,096	218287
VK448.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005223	-5,099	68523
VK396.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005666	-5,1	54435
VK468.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,004898	-5,11	73504
vik_grt036.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005203	-5,111	69467
VK261.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005924	-5,114	51610
VK101.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005255	-5,117	59511
VK63.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004724	-5,125	81777
VK350.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005615	-5,126	60996
VK150.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002239	-5,13	495742
VK417.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002825	-5,143	324048
VK266.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002274	-5,143	400521
VK429.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005208	-5,164	72459
VK428.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004979	-5,168	74035
VK345.SG	Hungary_Avar_5	Russia_Bolshoy	Yoruba.DG	-0,002857	-5,17	427224
VK401.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005745	-5,17	56440
VK51.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003232	-5,188	242345
VK548.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005147	-5,202	75155
VK487.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005338	-5,203	66748
VK314.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004208	-5,207	113637
VK202.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005805	-5,233	52597
VK309.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004329	-5,239	115933
VK527.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002995	-5,258	296360
VK454.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004382	-5,267	100934
VK397.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005665	-5,276	58354
VK87.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,001926	-5,282	693066
VK431.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004485	-5,284	103109
VK177.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005746	-5,294	50556
VK326.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006005	-5,296	56956
VK550.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002834	-5,298	383332
VK232.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004174	-5,299	122219
VK367.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003121	-5,321	294557

H1	H2	X	O	D	Z	#snps
VK507.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003289	-5,34	260990
VK110.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005644	-5,34	57715
vik_84035.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004407	-5,341	91765
VK498.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005638	-5,352	55617
VK266.SG	Estonia_Medieval.SG	Russia_Bolshoy	Yoruba.DG	-0,002804	-5,355	300982
VK173.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00599	-5,364	55032
VK389.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005792	-5,366	53939
VK332.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005597	-5,369	60682
VK337.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005332	-5,372	68063
vik_KAL006.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,002891	-5,398	330333
VK22.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005572	-5,402	58315
VK156.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003299	-5,417	245139
VK324.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005769	-5,427	58700
VK486.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005734	-5,457	65368
VK355.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006244	-5,457	53597
vik_stg021.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00529	-5,458	75179
VK266.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,00223	-5,482	406995
VK65.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003965	-5,499	151982
VK111.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006693	-5,5	48833
VK325.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003552	-5,528	206411
VK280.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004248	-5,552	126819
VK371.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003541	-5,562	217586
VK469.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004813	-5,572	91748
VK345.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006381	-5,6	52287
VK204.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003314	-5,609	290331
VK362.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003599	-5,625	218207
VK365.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006837	-5,641	43854
VK95.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006307	-5,643	58239
VK330.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006446	-5,649	50420
VK151.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003143	-5,659	311361
vik_urm035.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004547	-5,66	104927
VK287.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003793	-5,665	174870
VK34.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006135	-5,672	54606
VK14.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005687	-5,699	68685
VK276.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,006529	-5,702	47689
VK279.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00571	-5,703	70648
VK175.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003313	-5,716	261314
VK298.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004335	-5,72	146159
VK230.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,005858	-5,724	70370
vik_kls001.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005417	-5,726	59723
VK165.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003313	-5,735	306786
VK475.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00304	-5,759	451127
VK316.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006341	-5,774	59125
VK17.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003797	-5,779	183278
VK281.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006026	-5,786	67518
VK504.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003595	-5,813	255113
VK490.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003466	-5,863	283553
VK19.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003759	-5,882	229730
VK554.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003373	-5,889	282740
VK282.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004144	-5,89	159651
VK511.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003289	-5,902	375970
VK477.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00633	-5,906	53722
VK29.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003036	-5,929	430597
VK31.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004086	-5,93	159969
VK455.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003204	-5,942	357544
VK384.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003295	-5,953	320031
VK284.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00333	-5,958	298226
VK64.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003657	-6	217101
VK203.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003569	-6,016	307375
VK291.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003482	-6,027	301350
VK60.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004144	-6,03	174620
VK129.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003077	-6,048	441608
VK529.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003279	-6,05	374122
VK407.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005115	-6,051	92798
VK520.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003301	-6,055	372831
VK539.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003386	-6,094	369684
VK420.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003186	-6,101	366800
VK23.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004501	-6,121	125929
VK50.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00317	-6,133	448971
VK146.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006806	-6,151	54250
VK345.SG	Italy_North_EarlyMedieval_Langobards_1	Russia_Bolshoy	Yoruba.DG	-0,002544	-6,159	505313
VK345.SG	Hungary_Langobard	Russia_Bolshoy	Yoruba.DG	-0,002463	-6,174	513510
VK90.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005069	-6,229	106691
VK40.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006197	-6,252	65528
VK373.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003559	-6,256	304027
VK515.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003986	-6,258	216856
VK495.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003518	-6,266	313066
VK492.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00344	-6,272	298484
VK315.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004206	-6,274	194217
VK449.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00358	-6,309	350071
VK506.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003574	-6,359	322090
VK317.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,006917	-6,365	55019
VK275.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004543	-6,368	162386
vik_84005.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003495	-6,388	317583
VK18.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003904	-6,39	229661
VK334.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003876	-6,395	193837
VK516.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003598	-6,436	339147
VK33.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003941	-6,485	249304
VK258.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003666	-6,49	293114
VK488.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003727	-6,498	276519
VK405.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00368	-6,514	292862
VK555.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,0038	-6,515	306810

H1	H2	X	O	D	Z	#snps
VK274.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,007296	-6,53	63502
VK363.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003828	-6,539	329537
VK370.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003768	-6,544	326922
VK323.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003459	-6,549	337088
VK481.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003547	-6,563	349764
VK170.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003661	-6,565	321043
VK178.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003866	-6,568	260822
VK386.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003696	-6,569	328701
VK320.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003485	-6,576	333260
VK207.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00422	-6,579	221384
VK141.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003854	-6,591	316415
VK342.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003598	-6,598	347431
VK485.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004075	-6,61	235998
VK295.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00421	-6,611	195897
VK364.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003585	-6,615	355158
VK479.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003598	-6,622	380916
VK34.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003688	-6,648	318613
VK348.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003728	-6,655	287957
VK176.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,00658	-6,67	70456
VK289.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003954	-6,701	246856
VK480.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003925	-6,706	270049
VK308.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003637	-6,706	351635
VK160.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003822	-6,706	363258
VK388.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003874	-6,708	295052
VK484.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003783	-6,762	322411
VK497.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00368	-6,782	351556
VK483.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003627	-6,785	380858
VK404.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003783	-6,815	348533
VK344.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003767	-6,836	290459
VK392.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003924	-6,882	295633
VK223.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00456	-6,899	151603
VK263.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003806	-6,909	340032
VK509.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003882	-6,91	337394
VK319.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004372	-6,924	187031
VK477.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003791	-6,924	313539
VK254.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004496	-6,924	188763
VK278.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004305	-6,927	218114
VK478.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003909	-6,933	363404
VK108.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00414	-6,933	246346
VK482.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00394	-6,934	303320
VK87.SG	Finland_Saami_IA.SG	Russia_Bolshoy	Yoruba.DG	-0,007157	-6,939	70225
VK524.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00365	-6,947	352519
VK510.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003791	-6,954	357716
vik_urm160.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003945	-6,973	349525
VK396.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003972	-7,007	318605
VK505.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003997	-7,015	305628
VK543.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004235	-7,034	286352
VK138.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004707	-7,042	145338
VK290.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003865	-7,045	336772
VK553.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003925	-7,07	332104
VK530.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004139	-7,072	268428
VK147.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003972	-7,074	270081
VK445.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004054	-7,081	341544
VK257.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004236	-7,111	291495
VK387.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003839	-7,114	314122
VK487.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003807	-7,116	390388
VK528.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00389	-7,117	356076
VK533.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003617	-7,137	451914
VK397.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004069	-7,145	340480
VK286.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004496	-7,147	243925
VK35.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004104	-7,16	292666
VK514.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00395	-7,162	312993
VK352.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003894	-7,172	309712
VK327.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003889	-7,172	314884
VK394.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00413	-7,174	248393
VK296.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004698	-7,181	175650
VK456.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003967	-7,2	333175
VK174.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004178	-7,205	279281
VK393.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004126	-7,229	315596
VK167.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004255	-7,233	276347
VK493.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003845	-7,241	387006
VK402.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003816	-7,278	355791
VK172.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004022	-7,315	318757
VK395.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003956	-7,327	348549
VK297.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004469	-7,354	223452
VK343.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004062	-7,359	328926
VK498.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004001	-7,361	324967
VK127.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004505	-7,365	223303
VK288.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004441	-7,37	244500
VK99.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004108	-7,402	272914
VK419.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004071	-7,418	333697
VK403.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004102	-7,451	357039
VK95.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003971	-7,451	353797
VK406.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003944	-7,453	333895
VK264.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004354	-7,469	290121
VK512.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003923	-7,492	384542
VK525.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004217	-7,512	294341
VK157.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004322	-7,512	282398
VK317.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004217	-7,515	318752
VK415.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004111	-7,522	332768
VK540.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004381	-7,528	265748
VK547.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003886	-7,545	451102
VK205.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004294	-7,571	315378

H1	H2	X	O	D	Z	#snps
VK369.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004398	-7,583	302929
VK260.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004292	-7,585	273134
VK221.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004007	-7,587	391811
VK372.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004206	-7,589	340154
VK473.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004189	-7,593	350088
VK256.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004256	-7,607	342722
VK202.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004039	-7,608	307577
VK399.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003988	-7,608	376130
VK401.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,0043	-7,616	328801
VK358.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00439	-7,631	286127
VK474.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004203	-7,654	364582
VK329.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004201	-7,659	321689
VK551.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004039	-7,661	411917
VK262.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004531	-7,662	322954
VK69.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004419	-7,674	256809
VK443.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003974	-7,694	399593
vik_stg026.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004545	-7,706	222014
VK486.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003905	-7,728	382282
vik_84001.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004056	-7,738	445349
VK414.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004487	-7,741	336577
VK220.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004313	-7,746	388087
VK53.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004448	-7,752	286209
VK548.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003937	-7,771	439316
vik_stg021.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004045	-7,772	443326
VK336.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004345	-7,785	329105
VK389.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004321	-7,812	317180
VK552.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004073	-7,831	345940
VK123.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004484	-7,831	267676
VK219.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004146	-7,834	362066
VK42.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00412	-7,85	456222
VK230.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,003969	-7,866	410517
VK545.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004199	-7,877	378802
VK294.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004351	-7,881	301194
VK335.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004334	-7,883	304621
vik_grt036.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004213	-7,901	403891
VK201.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004515	-7,904	325028
VK122.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004438	-7,935	333358
VK400.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004416	-7,939	299066
VK102.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00418	-7,94	441934
VK15.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004465	-7,943	280972
VK526.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004196	-7,949	389785
VK173.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004426	-7,964	325549
VK544.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004347	-7,985	353106
VK301.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004833	-7,998	234309
VK328.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004465	-7,999	320959
VK166.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004127	-8,043	438588
VK285.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005112	-8,055	207384
VK398.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004428	-8,085	331159
VK489.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004216	-8,086	371536
VK281.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004316	-8,091	392760
VK70.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00414	-8,122	454130
VK496.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004369	-8,146	394798
VK349.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004646	-8,148	322077
VK322.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004607	-8,149	320312
VK491.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004275	-8,174	351071

H1	H2	X	O	D	Z	#snps
VK326.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004655	-8,176	334063
VK324.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004308	-8,177	343061
VK58.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004326	-8,183	447095
VK303.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004161	-8,186	411451
VK98.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00429	-8,193	420223
VK154.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004226	-8,21	412199
VK444.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004939	-8,223	251100
VK316.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004267	-8,231	343655
VK274.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004586	-8,237	370078
VK259.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00472	-8,243	320765
VK279.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004326	-8,246	411445
VK446.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004319	-8,259	362912
VK177.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004682	-8,291	296338
VK273.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004723	-8,293	313317
VK353.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00483	-8,334	329673
VK306.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004833	-8,339	295991
VK261.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00475	-8,35	301880
VK368.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00473	-8,368	317651
VK346.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004553	-8,376	333333
VK361.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004717	-8,452	324215
VK143.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004848	-8,46	297255
VK168.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004534	-8,475	318854
VK330.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004811	-8,493	295412
VK422.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00466	-8,498	315782
VK357.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004579	-8,516	345930
VK145.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,00474	-8,53	307936
VK218.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005295	-8,537	209486
VK266.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,005012	-8,545	243906
VK429.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004433	-8,551	423775
VK448.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004467	-8,564	398934
vik_grt035.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004375	-8,574	441552
VK101.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004553	-8,582	351612
VK385.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004631	-8,588	360207
VK128.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004755	-8,625	340233
VK337.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004467	-8,642	395667
VK549.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004536	-8,685	375108
VK110.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004617	-8,717	338090
VK333.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004883	-8,719	318654
VK468.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004609	-8,762	430350
VK265.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004811	-8,777	313732
VK40.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004677	-8,801	393261
VK111.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0,004931	-8,807	290347
VK355.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.00487	-8.829	312490
VK433.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.004606	-8.839	401231
VK87.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.004849	-9.05	408768
VK442.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.004902	-9.152	320171
VK542.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.00495	-9.277	329170
VK345.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.005393	-9.452	304993
VK365.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.005506	-9.51	253278
VK176.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.004836	-9.513	413773
VK332.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.005216	-9.56	354839
VK150.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.00528	-9.571	300002
VK84.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.005404	-9.596	307858
VK350.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.005485	-9.798	357015
VK146.SG	Finland_Levanluhta	Russia_Bolshoy	Yoruba.DG	-0.005451	-10.048	318672