

Genotypes	Couples		SNPs		Het-het	Relatedness				Z	P	Remarks
	Subset	N	Subset	MAF		Mates		Non-mates				
						mean	s.d.	mean	s.d.			
Hap2, Phased	all	27	all	≥5%	.5	0.00185	n/a	n/a	n/a	n/a	<0.001	Reported
						0.00185	0.003	0.00003	0.002	0.80	<0.001	Replication
						0.00150	0.001	0.00004	0.002	0.90	0.007	Median
						0.00185	0.003	0.00003	0.002	0.80	0.00006	100,000 trials
						0.00185	0.003	0.00003	0.002	0.80	0.00010	All in MAF
						<b>0.00185</b>	<b>0.003</b>	<b>0.00003</b>	<b>0.002</b>	<b>0.80</b>	<b>0.00002</b>	
						0.00175	0.003	-0.00001	0.002	0.77	0.00011	
						0.00179	0.003	0.00001	0.002	0.76	0.00011	
						0.00168	0.003	-0.00002	0.002	0.73	0.00021	
						0.00167	0.003	0.00004	0.002	0.71	0.00026	
						0.00157	0.003	0.00001	0.002	0.68	0.00044	
						0.00161	0.003	0.00002	0.002	0.67	0.00062	
						0.00150	0.003	0.00000	0.002	0.64	0.00096	
						<b>0.00270</b>	<b>0.004</b>	<b>0.00004</b>	<b>0.003</b>	<b>0.77</b>	<b>0.00006</b>	
						0.00267	0.004	0.00003	0.004	0.75	0.00009	
						0.00257	0.004	-0.00001	0.003	0.74	0.00017	
0.00253	0.004	-0.00001	0.004	0.71	0.00024							
0.00245	0.004	0.00006	0.003	0.69	0.00028							
0.00243	0.004	0.00004	0.004	0.67	0.00043							
0.00233	0.004	0.00003	0.004	0.66	0.00064							
0.00230	0.004	0.00002	0.004	0.63	0.00113							
0.00248	0.004	0.00002	0.003	0.71	0.00035							
0.00205	0.004	0.00003	0.004	0.56	0.00356							
0.00186	0.004	-0.00012	0.004	0.56	0.01088							
0.00145	0.004	-0.00003	0.003	0.44	0.03377							
0.00109	0.004	-0.00004	0.003	0.33	0.12554							
0.00111	0.004	-0.00003	0.003	0.35	0.09169							
0.00165	0.005	-0.00005	0.004	0.42	0.01648							
0.00178	0.005	-0.00005	0.004	0.49	0.00659							
Hap2, unphased	all	27	all	≥1%	1	0.00205	0.004	0.00003	0.004	0.56	0.00356	Aggregate mean, s.d., P, Z
						0.00186	0.004	-0.00012	0.004	0.56	0.01088	
						0.00145	0.004	-0.00003	0.003	0.44	0.03377	
Hap3, unphased	3-only	28	all	≥1%	1	0.00109	0.004	-0.00004	0.003	0.33	0.12554	One-tailed P
						0.00111	0.004	-0.00003	0.003	0.35	0.09169	
						0.00165	0.005	-0.00005	0.004	0.42	0.01648	

**Table S3. Detailed results for autosomal relatedness in Yoruban couples.** The format follows that of Table S2.