TOPMed		#HCHS/SOL						
MAC	#Variants	polymorphic	#QC+	avgR ²	#MEGA	#MEGA_QC+	avgEstR ²	avgTrueR ²
	5 1,818,306	830,932	763,653	80.6%	1172	1071	76.4%	54.0%
	6 8,127,408	2,967,730	2,476,304	76.0%	3603	3082	75.1%	56.7%
	7 6,038,334	2,503,086	2,091,439	76.2%	3376	2823	74.8%	56.6%
	8 4,657,557	2,143,361	1,792,887	76.5%	3444	2917	75.3%	58.1%
	9 3,714,229	1,863,641	1,563,270	76.7%	3202	2678	75.3%	60.1%
1	0 3,034,091	1,640,207	1,378,429	77.0%	3199	2672	75.0%	59.4%
1	1 2,533,108	1,458,534	1,230,608	77.2%	3103	2594	76.3%	62.3%
1	2 2,158,188	1,310,316	1,109,078	77.5%	2829	2341	75.8%	62.2%
1	3 1,862,539	1,185,008	1,005,752	77.7%	2756	2267	75.8%	64.0%
1	4 1,625,131	1,077,115	919,620	77.9%	2759	2297	75.9%	63.3%
1	5 1,432,061	983,423	841,897	78.1%	2665	2256	76.3%	65.3%
1	6 1,276,423	905,196	777,668	78.4%	2558	2119	76.2%	66.1%
1	7 1,146,048	835,581	720,865	78.5%	2369	1963	77.2%	65.6%
1	8 1,036,400	774,868	671,247	78.7%	2409	1981	77.2%	67.5%
1	9 942,107	719,813	626,646	79.0%	2247	1902	77.0%	66.6%
2	0 864.490	673.914	588,149	79.1%	2146	1828	76.7%	66.5%

S7 Table. Imputation quality for overall reference panel rare variants (20 or less MAC) in TOPMed freeze 5b in Hispanic Community Health Study/Study of Latinos (HCHS/SOL)

MAC, minor allele count; #Variants, total number of variants with a given MAC in TOPMed freeze 5b; #HCHS/SOL polymorphic, number of these variants polymorphic in HCHS/SOL imputation results; #QC+, number of these variants that are well imputed in HCHS/SOL; avgR², average estimated R² for imputed variants; #MEGA, number of variants with this MAC overlapping the MEGA array; #MEGA_QC+, number of variants with this MAC overlapping the MEGA array; #MEGA array which passed imputation quality control; avgEstR², average estimated R² for imputed variants which overlap MEGA (standard imputation software metric calculated based on the ratio of observed variance in imputed dosages over expected variance based on allele frequencies); avgTrueR², true correlation between imputed genotypes and genotypes from available direct genotyping