

**Supplemental Table S8.** Accuracy statistics for imputation of the African (AFR) specific variant genotypes from The GTEx Project using the 1000 Genomes panel as the reference. MAF range and mean/median/standard deviation (S.D.) of genotype R2 are shown in the columns.

POPULATION	PROTOCOL	MAF	MEAN R2	MEDIAN	S.D.
AFR	Central	[0,0.001]	0.416217	0	0.475308
AFR	Unphased (No augment)	[0,0.001]	0.395108	0	0.467364
AFR	Unphased (Augmented)	[0,0.001]	0.417922	0	0.473056
AFR	Phased (Augmented)	[0,0.001]	0.383034	0	0.466335
AFR	Phased (No augment)	[0,0.001]	0.359067	0	0.460305
AFR	RESHAPE	[0,0.001]	0.369465	0	0.465017
AFR	Central	(0.001,0.01]	0.753639	1	0.344961
AFR	Unphased (No augment)	(0.001,0.01]	0.710121	1	0.355575
AFR	Unphased (Augmented)	(0.001,0.01]	0.735934	1	0.345326
AFR	Phased (Augmented)	(0.001,0.01]	0.729266	1	0.349617
AFR	Phased (No augment)	(0.001,0.01]	0.692133	0.832	0.364197
AFR	RESHAPE	(0.001,0.01]	0.720457	1	0.362455
AFR	Central	(0.01,0.05]	0.857691	0.9306	0.192332
AFR	Unphased (No augment)	(0.01,0.05]	0.81554	0.8771	0.211638
AFR	Unphased (Augmented)	(0.01,0.05]	0.836495	0.9045	0.201589
AFR	Phased (Augmented)	(0.01,0.05]	0.838318	0.8991	0.195218
AFR	Phased (No augment)	(0.01,0.05]	0.804484	0.8652	0.213216
AFR	RESHAPE	(0.01,0.05]	0.838018	0.9152	0.209977
AFR	Central	(0.05,1]	0.941084	0.9819	0.107367
AFR	Unphased (No augment)	(0.05,1]	0.908965	0.9554	0.126116
AFR	Unphased (Augmented)	(0.05,1]	0.926491	0.9702	0.116397
AFR	Phased (Augmented)	(0.05,1]	0.928442	0.97	0.112487
AFR	Phased (No augment)	(0.05,1]	0.89557	0.948	0.136814
AFR	RESHAPE	(0.05,1]	0.933297	0.9805	0.120092