

**Supplemental Table S11.** Accuracy statistics for imputation of the East Asian (EAS) 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.
EAS	Central	[0,0.001]	0.104799	0	0.29939
EAS	Unphased (No augment)	[0,0.001]	0.110967	0	0.30535
EAS	Unphased (Augmented)	[0,0.001]	0.11277	0	0.307319
EAS	Phased (Augmented)	[0,0.001]	0.106624	0	0.300197
EAS	Phased (No augment)	[0,0.001]	0.092152	0	0.281445
EAS	RESHAPE	[0,0.001]	0.08051	0	0.264959
EAS	Central	(0.001,0.01]	0.423259	0.1648	0.455185
EAS	Unphased (No augment)	(0.001,0.01]	0.378932	0.1141	0.43005
EAS	Unphased (Augmented)	(0.001,0.01]	0.396901	0.1654	0.435286
EAS	Phased (Augmented)	(0.001,0.01]	0.399023	0.1987	0.435486
EAS	Phased (No augment)	(0.001,0.01]	0.362646	0.0045	0.428411
EAS	RESHAPE	(0.001,0.01]	0.383936	0	0.446291
EAS	Central	(0.01,0.05]	0.72632	0.90465	0.342828
EAS	Unphased (No augment)	(0.01,0.05]	0.613577	0.6656	0.351359
EAS	Unphased (Augmented)	(0.01,0.05]	0.653855	0.7488	0.343819
EAS	Phased (Augmented)	(0.01,0.05]	0.662333	0.7628	0.338237
EAS	Phased (No augment)	(0.01,0.05]	0.603952	0.6656	0.352843
EAS	RESHAPE	(0.01,0.05]	0.696481	0.8716	0.35544
EAS	Central	(0.05,1]	0.939134	0.98405	0.121855
EAS	Unphased (No augment)	(0.05,1]	0.897857	0.9512	0.145866
EAS	Unphased (Augmented)	(0.05,1]	0.918886	0.9686	0.134592
EAS	Phased (Augmented)	(0.05,1]	0.921825	0.9683	0.128867
EAS	Phased (No augment)	(0.05,1]	0.884987	0.9462	0.157176
EAS	RESHAPE	(0.05,1]	0.931654	0.9823	0.134589