

Table S3 Details on major external resources integrated into RVS. *TCGA uses self-reported ethnicities.

Study	Version	Samples	Ethnicities	Reference
1000 Genomes	Phase 3, v5.20130502	2,504	Five major groups: African, Ad Mixed American, East Asian, South Asian, European; 26 subpopulations	[?]
ESP6500	V2 SSA137 (dbSNP 138)	6,503	African American, European American	[?]
ExAC	Release 0.3	63,352	African/African American, American, East Asian, Finnish, Non-Finnish Europeans, South Asian	[?]
TCGA*		4,224	African, American Indian, Asian, Hispanic/Latino, Native Hawaiian, White	[?]
dbNSFP	v2.5	—	—	[?]
ClinVar	Release 2015-02-03	—	—	[?]
COSMIC	v71 10-21-14	—	—	[?]
SwissVar	Downloaded: 2015/03	—	—	[?]
HGMD	2015.1	—	—	[?]
ENSEMBL	v78	—	—	[?]
RefSeq	Release 68	—	—	[?]