

Table 6S. Performance of consensus-based prediction models on the training set TS270.

Methods ^a	Consensus ^b	Number of vectors ^c	MCC
MutaCYP + PP2(HumVar) + PP2(HumDiv) + SIFT	SMV	207	0.65
MutaCYP + PP2(HumVar) + PP2(HumDiv)	SMV	270	0.64
MutaCYP + PP2(HumVar) + SIFT	SMV	207	0.66
MutaCYP + PP2(HumDiv) + SIFT	SMV	207	0.65
MutaCYP + PP2(HumVar)	SMV	270	0.71
MutaCYP + PP2(HumDiv)	SMV	270	0.64
MutaCYP + SIFT	SMV	207	0.65
PP2(HumVar) + PP2(HumDiv) + SIFT	SMV	207	0.63
PP2(HumVar) + PP2(HumDiv)	SMV	270	0.57
PP2(HumVar) + SIFT	SMV	207	0.62
PP2(HumDiv) + SIFT	SMV	207	0.56
MutaCYP + PP2(HumVar) + PP2(HumDiv) + SIFT	Union	207	0.61
MutaCYP + PP2(HumVar) + PP2(HumDiv)	Union	270	0.64
MutaCYP + PP2(HumVar) + SIFT	Union	207	0.67
MutaCYP + PP2(HumDiv) + SIFT	Union	207	0.61
MutaCYP + PP2(HumVar)	Union	270	0.71
MutaCYP + PP2(HumDiv)	Union	270	0.64
MutaCYP + SIFT	Union	207	0.65
PP2(HumVar) + PP2(HumDiv) + SIFT	Union	207	0.56
PP2(HumVar) + PP2(HumDiv)	Union	270	0.57
PP2(HumVar) + SIFT	Union	207	0.62
PP2(HumDiv) + SIFT	Union	207	0.56

^aPP2(HumVar) and PP2(HumDiv) – PolyPhen-2 trained on HumVar and HumDiv data, respectively.

^bSMV – simple majority voting; for consensuses with the even number of methods the even vote was in favor of the deleterious class.

^cSIFT predictions miss 63 mutations in TS270, hence the reduced set for evaluation of a consensus model containing SIFT.