$\label{eq:table 2.} \textbf{Table 2.} Prediction of molecular change of substitutions by MutPred.$

Variant ID	Mutation	Probability of deleterious mutation	Features
rs375095163	E308K	0.882	-
rs52804924	P299L	0.839	Gain of Helix ($Pr = 0.31 P = 5.5e-03$)
			Altered Ordered interface ($Pr = 0.25 P = 0.03$)
			Loss of allosteric site at Y302 ($Pr = 0.21 P = 0.04$)
			Altered Transmembraneprotein ($Pr = 0.16 P = 0.01$)
			Altered Metal binding ($Pr = 0.14 P = 0.04$)
rs760199460	Daooli	0.071	
	D298H	0.874	Altered Ordered interface ($Pr = 0.24 P = 0.04$)
			Altered Transmembraneprotein ($Pr = 0.23 P = 2.2e-03$)
			Loss of allosteric site at Y302 ($Pr = 0.19 P = 0.05$)
			Altered Metal binding ($Pr = 0.18 P = 0.04$)
rs121913562	C271F	0.927	Altered Transmembraneprotein ($Pr = 0.28 P = 4.6e-04$)
	02711	0.921	Loss of Helix ($Pr = 0.28 P = 0.03$)
			Altered ordered interface ($Pr = 0.25 P = 0.02$)
			Gain of sulfatation at Y268 ($Pr = 0.03 P = 0.02$)
rs1057517991	C271R	0.952	Altered Transmembraneprotein ($Pr = 0.29 P = 2.6e-04$)
			Loss of Helix ($Pr = 0.29 P = 0.02$)
			Gain of stand $(Pr = 0.28 P = 8.9e-03)$
			Gain of loop ($Pr = 0.27 P = 0.02$)
			Altered ordered interface ($Pr = 0.26 P = 9.7e-03$)
			Loss of sulfatation at Y268 ($Pr = 0.03 P = 0.02$)
rs1435358988	P260L	0.843	Loss of Strand ($Pr = 0.30 P = 1.9e-03$)
		0.010	Gain of Helix ($Pr = 0.29$) $P = 0.01$)
			Altereted ordered interface ($Pr = 0.27 P = 9.3e-03$)
			Alteretedtransmembraneprotein ($Pr = 0.18 P = 8.0e-03$)
			Altereted Metal binding ($Pr = 0.04 P = 0.04$)
rs1333658154	T246N	0.885	Altered Transmembraneprotein ($Pr = 0.30 P = 0.02$)
			Gain of Helix ($Pr = 0.27 P = 0.05$)
			Loss of Stand ($Pr = 0.26 P = 0.03$)
			Loss of Catalytic site at K242 ($Pr = 0.14 P = 0.03$)
			Loss of methylationat K242 ($Pr = 0.11 P = 0.04$)
			Gain of N-linked glycosylation at T246 ($Pr = 0.04 P = 0.02$)
rs868309222	G243R	0.956	Gain of Helix ($Pr = 0.32 P = 2.2e-03$)
			Altered Transmembraneprotein ($Pr = 0.29 P = 0.03$)
			Altered Ordered interface ($Pr = 0.29 P = 3.3e-03$)
			Loss of Stand ($Pr = 0.29 P = 3.3e-03$)
			Loss of Catalytic site at K242 ($Pr = 0.15 P = 0.02$)
			Loss of methylationat K242 ($Pr = 0.11 P = 0.04$)
			Loss of GPI-anchor amidation at N240 ($Pr = 0.05 P = 4.8e-0$
rs1191554117	C196Y	0.914	Altered Transmembraneprotein ($Pr = 0.37 P = 9.7e-06$)
	01701	0.711	Altered Ordered interface ($Pr = 0.27 P = 6.6e-03$)
1150222200		0.046	
rs1159323398	W174C	0.946	Gain of Helix ($Pr = 0.35 P = 5.3e-04$)
			Altered Ordered interface ($Pr = 0.32 P = 3.4e-03$)
			Loss of strand ($Pr = 0.31 P = 1.1e-03$)
			Altered Transmembraneprotein ($Pr = 0.19 P = 6.3e-03$)
rs768916374	Y157S	0.915	Altered Ordered interface ($Pr = 0.48 P = 2.7e-04$)
	110/10	0.715	Altered Transmembraneprotein ($Pr = 0.34 P = 4.4e-05$)
			1 ,
			Loss of allosteric site at Y157 ($Pr = 0.30 P = 4.3e-03$)
			Altered Metal binding ($Pr = 0.22 P = 0.02$)
			Altered DNA binding ($Pr = 0.14 P = 0.05$)
rs766665118	T150I	0.834	Altered Disordered interface ($Pr = 0.32 P = 0.02$)
			Altered Transmembraneprotein ($Pr = 0.29 P = 1.9e-04$)
			Altered Ordered interface ($Pr = 0.26 P = 0.01$)
rs768806551	DIACT	0.005	Loss of allosteric site at R147 ($Pr = 0.26 P = 0.01$)
	D126Y	0.925	Altered Ordered interface ($Pr = 0.41 P = 2.5e-04$)
			Altered Transmembraneprotein ($Pr = 0.32 P = 7.3e-05$)
			Gain of Strand (Pr = 0.28 P = 7.1e-03)
			Loss of Helix ($Pr = 0.27 P = 0.04$)
			Altered Metal binding ($Pr = 0.14$ $P = 0.04$)
1500022252			Gain of sulfation at D126 ($Pr = 0.02 P = 0.04$)
1 #0000 # 5	P 0 0 7	0.010	
rs1598932350	D90G	0.918	Loss of Helix ($Pr = 0.29 P = 0.01$)
rs1598932350	D90G	0.918	Loss of Helix ($Pr = 0.29 P = 0.01$) Altered Transmembraneprotein ($Pr = 0.10 P = 0.05$)
rs1598932350 rs1215552316	D90G H76Y	0.918	
			Altered Transmembraneprotein ($Pr = 0.10 P = 0.05$)Altered Ordered interface ($Pr = 0.39 P = 4.1e-04$)
			Altered Transmembraneprotein ($Pr = 0.10 P = 0.05$)