

Supplementary Table 1: Result of selected pathogenic nsSNPs according to all prediction tools used

TOOLS	Mutation	SIFT		PolyPhen2.0		SNP & GO		PHD-SNP		PROVEAN		I.Mutant		MUpuro		Consurf		MutPred		TM-Align		CS
		P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S	P	S			
rs1036483919	I130T*	1	0	1	0.571	1	10	0	5	1	-3.79	1	0.43	1	-1.911	1	6	1	0.740	1	0.27	9
rs587780343	C371F*	1	0	1	0.999	1	10	1	7	1	-10.088	1	1.96	1	0.860	1	8	1	0.930	0	0.06	9
rs587780345	V181M**	1	0	1	0.998	1	10	0	3	1	-2.856	1	0.17	1	-0.62	1	7	1	0.694	0	0.02	8
rs587780345	V182M*	1	0	1	0.999	1	10	0	4	1	-2.748	1	0.16	1	0.361	1	8	1	0.834	1	0.27	9
rs587780347	E237K**	1	0.03	1	0.991	1	9	1	2	1	-3.217	1	1.49	1	-1.028	0	5	1	0.769	0	0.01	8
rs587780347	E236K*	1	0.03	1	0.451	1	10	1	9	1	-3.865	1	2.73	1	-0.84	1	9	1	0.934	0	0.06	9
rs587780346	T206P*	1	0	1	0.999	1	10	1	8	1	-5.864	1	2.72	1	-1.54	1	9	1	0.939	0	0.02	9
rs193922331	S263P	1	0	0	0.044	1	10	1	4	0	-1.728	1	0.14	1	-0.46	0	5	1	0.662	0	0.02	6

S: Score; P: Prediction. The values in P: 0 indicates neutral; 1 indicated damaged, CS: cumulative score.

***Highly pathogenic nsSNPs by more than 8 tools, **highly pathogenic nsSNPs by at least 8 tools,**