

	Gene_Symbol	ID	Ref_Transcript	Exon	Nucleotide_Change	Amino_Acid_Change	Gene_Type	1000g2015aug_all	Pathogenic_Analysis	clinvar	MutRatio	Mutation_Type	dbsnp	PathSNP	MutInNorm	1000Genome	MutInData	1000g2015aug_all	ESP6500si	Inhouse	ExAC_ALL	ExAC_EAS	SIFT	SIFT_Predict	PolyPhen_2	PolyPhen_2_Predict	MutationTaster	MutationTaster_Predict	GERP++	GERP++_Predict	SPIDEX	REVEL_score	MCAP_score	MCAP_pred	InterVar	Highest-MAF	Mygeno_InterACMG	Pathogenic_Analysis
Family A	MTHFR	chr1-11855368	NM_005957	exon6	c. 818A>G	p. K273R	het	-	Uncertain	-	0. 52	SNV	-	#N/A	#N/A	#N/A	#N/A	-	-	-	-	-	0. 059	Tolerated	0. 038	Benign	1	Disease_causing	3. 53	Conserved	-0. 0865	0. 368	0. 071252519	P	Uncertain	-	PM2	Uncertain
	CYP1B1	chr2-38302213	NM_000104	exon2	c. 319C>G	p. L107V	het	0. 000399361	Uncertain	-	0. 55	SNV	rs56339482	#N/A	#N/A	chr2-38302213	#N/A	0. 000399361	-	0. 0021739	0. 0006	0. 0097	-	-	1	Probably_damaging	0. 997	Disease_causing	2. 73	Conserved	0. 0907	0. 647	0. 783094831	P	Uncertain	0. 0097	PS1	Uncertain
	GDF6	chr8-97172666	NM_001001557	exon1	c. 255G>T	p. P85P	het	0. 00359425	Uncertain	-	0. 52	SNV	rs112296824	#N/A	#N/A	chr8-97172666	#N/A	0. 00359425	0. 0041	0. 0057	0. 0015	0. 0051	-	-	-	-	-	-	-	-	-	-	-	Benign	0. 0057	BP7	Uncertain	
	EPG5	chr18-43496539	NM_020964	exon18	c. 3248C>T	p. S1083L	het	0. 014976	Uncertain	-	0. 45	SNV	rs78339727	#N/A	#N/A	chr18-43496539	#N/A	0. 014976	0. 0208	0. 0286	0. 029	0. 0021	0. 019	Damaging	0. 771	Possibly_damaging	0. 999	Disease_causing	5. 78	Conserved	-0. 2802	0. 184	-	-	Benign	0. 029	BS1	Uncertain
	CRYBB2	chr22-25623876	NM_000496	exon4	c. 230G>T	p. G77V	het	-	Uncertain	-	0. 39	SNV	-	#N/A	#N/A	#N/A	#N/A	-	-	-	-	-	0	Damaging	0. 999	Probably_damaging	1	Disease_causing	5. 08	Conserved	0. 5789	0. 957	0. 157318302	P	Uncertain	-	PM2;PP3	Likely pathogenic
Family B	POMGNT1	chr1-46655561	NM_001243766	exon20	c. 1750G>A	p. D584N	het	-	Uncertain	-	0. 53	SNV	-	#N/A	#N/A	#N/A	#N/A	-	-	-	-	-	0. 389	Tolerated	0. 079	Benign	1	Disease_causing	5. 92	Conserved	-0. 2323	0. 077	0. 015190102	B	Uncertain	-	PM2;BP1	Uncertain
	FOXE3	chr1-47882145	NM_012186	exon1	c. 158C>T	p. P53L	het	0. 00658946	Uncertain	-	0. 6	SNV	rs534479543	#N/A	#N/A	#N/A	#N/A	0. 00658946	-	0. 0114	-	-	0. 159	Tolerated	0. 013	Benign	1	Polymorphism	2. 25	Conserved	-	0. 113	-	-	Benign	0. 0114	0	Uncertain
	PAX6	chr11-31811460 31811462	NM_001258464	-	c. *21_*20delAA	-	het	-	Uncertain	-	0. 5	unknown	rs759391101	#N/A	#N/A	#N/A	#N/A	-	-	-	0. 0009	0. 0008	-	-	-	-	-	-	-	-	-	-	-	Uncertain	0. 0009	PM2	Uncertain	
	CRYBB2	chr22-25623876	NM_000496	exon4	c. 230G>A	p. G77D	het	-	Uncertain	-	0. 45	SNV	-	#N/A	#N/A	#N/A	#N/A	-	-	-	-	-	0	Damaging	0. 999	Probably_damaging	1	Disease_causing	5. 08	Conserved	1. 3267	0. 968	0. 219654258	P	Uncertain	-	PM2;PP3	Likely pathogenic
Family C	BFSP2	chr3-133119306	NM_003571	exon1	c. 379C>G	p. Q127E	het	0. 00139776	Uncertain	-	0. 41	SNV	rs185816798	#N/A	#N/A	chr3-133119306	#N/A	0. 00139776	-	0. 0108696	0. 0008	0. 0115	0. 235	Tolerated	0. 021	Benign	0. 989	Disease_causing	3. 81	Conserved	-	0. 227	-	-	Benign	0. 0115	BS1	Uncertain
	BEST1	chr11-61719298	NM_004183	exon2	c. 20G>A	p. S7N	het	0. 000199681	Likely pathogenic	-	0. 57	SNV	rs199508634	#N/A	#N/A	chr11-61719298	#N/A	0. 000199681	-	-	1. 65E-05	0. 0002	0. 561	Tolerated	0. 006	Benign	1	Disease_causing	-1. 72	Nonconserved	0. 1244	0. 346	0. 013177856	B	Uncertain	0. 0002	PS1;PM2;PM5;PM5	Likely pathogenic
	MIP	chr12-56848079	NM_012064	exon1	c. 319G>A	p. V107I	het	0. 0219649	Uncertain	-	0. 5	SNV	rs74641138	#N/A	#N/A	chr12-56848079	#N/A	0. 0219649	0. 019	0. 0065217	0. 0253	0. 0395	0. 543	Tolerated	0. 012	Benign	1	Disease_causing	4. 29	Conserved	-	0. 233	-	-	Benign	0. 0395	PM1;BS1	Uncertain
	CRYGD	chr2-208986446 208986447	NM_006891	exon3	c. 475delG	p. A159Pfs*9	het	-	Likely pathogenic	-	0. 55	deletion	-	#N/A	#N/A	#N/A	#N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Uncertain	-	PVS;PM2	Likely pathogenic