Gene	[Chromosome:	[REF/ALT]	rs#	Exonic	Cyto	Reference	Sequence	Predicted	Region	gnomAD	pLI score	Family	Proband	Father	Mother	Origin	Sanger sequencing results summary	Phenotype
	Position]			function	band		variant (hg19)	protein change				ID	call	call	call			
VPS13D a	1:12557600	C/T		stopgain	1p36.22	NM_018156	c.C12634T	p.Q4212X	exon67	NA	1.0000	#46	C/T	C/C	c/c	De novo	Proband result confirmed; Parents were not tested due to insufficient amount of DNA	Unilateral microphthalmia with accompanying malformations
XKR4	8:56015062	C/G		stopgain	8q12.1	NM_052898	c.C14G	p.S5X	exon1	NA	0.9776	#54	C/G	NA	C/C	Unknown	Trios were NOT tested due to no remaining DNA for proband	Unilateral microphthalmia, isolated
CHD7 b	8:61735063	C/T		stopgain	8q12.2	NM_017780	c.C2959T	p.R987X	exon12	NA	1.0000	#55	C/T	C/C	C/C	De novo	Trio results confirmed	Unilateral microphthalmia, isolated
CHD7	8:61750761	С/Т	rs587783442	stopgain	8q12.2	NM_017780	c.C4480T	p.R1494X	exon19	NA	1.0000	#20	C/T	c/c	NA	Unknown	Proband result confirmed; Parents were not tested due to insufficient amount of DNA	Unilateral microphthalmia with accompanying malformations
LRP5	11:68191161	C/T		stopgain	11q13.2	NM_001291902	c.C1489T	p.R497X	exon14	NA	0.9984	#17	C/T	C/T	C/C	Paternal	Proband failed PCR; Parent results confirmed	Bilateral microphthalmia, isolated
NUMA1	11:71726895	G/A		stopgain	11q13.4	NM_006185	c.C1654T	p.Q552X	exon15	NA	1.0000	#45	G/A	G/A	G/G	Paternal		Bilateral microphthalmia, isolated
TUBGCP3	13:113181728	G/T		stopgain	13q34	NM_001286277	c.C1376A	p.S459X	exon12	NA	0.9525	#16	G/T	G/T	G/G	Paternal		Unilateral microphthalmia, isolated
FAM192A	16:57206739	G/A		stopgain	16q13	NM_001354078	c.C175T	p.Q59X	exon3	NA	0.9441	#64	G/A	G/G	G/A	Maternal		Unilateral microphthalmia, isolated
KRT31	17:39553461	C/A		stopgain	17q21.2	NM_002277	c.G331T	p.E111X	exon1	NA	0.9285	#61	C/A	C/C	C/A	Maternal	Trios were NOT tested due to insufficient amount of DNA for all samples	Unilateral microphthalmia, isolated

Abbreviations: ALT, alternate; A/M, anophthalmia/microphthalmia; gnomAD, Genome Aggregation Database; hg19: human genome 19; NA: not available; NM: mRNA; pLI, probability of being loss-of-function intolerant; REF, reference.

a de novo not confirmed by Sanger sequencing (proband result was confirmed, but parent samples were not available)

b de novo confirmed by Sanger sequencing