

Supplemental table 1. Altered genes expression of signaling pathways in the mutant retina

Gene symbol	Gene name	Forward primer	Reverse primer	Fold change*
Hes1	hairy and enhancer of split 1 (Drosophila)	tgccagctgataatggagaa	ccatgataggctttgatgacttt	-3.697424278
Notch1	Notch gene homolog 1 (Drosophila)	ctggaccccatggacatc	aggatgactgcacacattgc	-1.61365847
Hes5	hairy and enhancer of split 5 (Drosophila)	atgctcagtccaaggagaa	tagtctgggtgcaggcttt	2.123177388
Dll4	delta-like 4 (Drosophila)	aggtgccacttcggttacac	gggagagcaaatggctgata	-1.268633385
Gli2	GLI-Kruppel family member GLI2	gcagactgcaccaaggagta	cgtaggatgttccattgttga	-1.03361875
Gli3	GLI-Kruppel family member GLI3	agcagaaggagctgagcaac	gcttgctgagatgtcattg	1.105495039
RhoA	ras homolog gene family, member A	gaatgacgagcacacgagac	tcctgttccatatctctgc	2.291615393
Ctnnb1	catenin (cadherin associated protein), beta 1	aagccggccattgtagaag	agtcgctgacttgggtctgt	1.133072722
Cdc42	cell division cycle 42 homolog (S. cerevisiae)	acaacaacaaattcccatcg	ttgcctgcagatcaaaaa	1.014230746
Prickle1	prickle homolog 1 (Drosophila)	atggattccttggcgttgc	tgacggctcttgcttgc	-1.080430022

* negative fold changes were derived from negative reciprocal function applied to ratios <1.

P-value

0.00666236
0.18029774
0.14018843
0.03339738
0.12095797
0.19412446
0.01990519
0.07563442
0.44929939
0.07880842