

WT	AGGAGGCTCCAGAGAGACGTGTTTCAGTGCTCTGCGGGAC-TTG	GGGGCACATGGCTGGCGCTA	-----CGGTGGCGGTGGGTGGTTTGG
Mut1	AGGAGGCTCCAGAGAGACGTGTTTCAGTGCTCT	-----GTGGGGCACATGGCTGGCGCTA	-----CGGTGGCGGTGGGTGGTTTGG
Mut1	AGGAGGCTCCAGAGAGACGTGTTTCAGTGCTCT	-----GTGGGGCACATGGCTGGCGCTA	-----CGGTGGCGGTGGGTGGTTTGG
Mut1	AGGAGGCTCCAGAGAGACGTGTTTCAGTGCTCT	-----GTGGGGCACATGGCTGGCGCTA	-----CGGTGGCGGTGGGTGGTTTGG
Mut2	AGGAGGCTCCAGAGAGACGTGTTTCAGTGCTC	-----TGGGGCACATG	-----GGTGGGTGGTTTGG
Mut2	AGGAGGCTCCAGAGAGACGTGTTTCATTGCTC	-----TGGGGCACATG	-----GGTGGGTGGTTTGG
Mut2	AGGAGGCTCCAGAGAGACGTGTTTCAGTGCTC	-----TGGGGCACATG	-----GGTGGGTGGTTTGG
Mut3	AGGAGGCTCCAGAGAGACGTGTTTCAGTGCTCTGCGGGAC	TTTGTGGGGCACATGGCTGGCGCTAGCACATGGCTGGCGCACATGGCTGGTGGGTGGTTTGG	
Mut3	AGGAGGCTCCAGAGAGACGTGTTTCAGTGCTCTGCGGGAC	TTTGTGGGGCACATGGCTGGCGCTAGCACATGGCTGGCGCACATGGCTGGTGGGTGGTTTGG	
Mut3	AGGAGGCTCCAGAGAGACGTGTTTCAGTGCTCTGCGGGAC	TTTGTGGGGCACATGGCTGGCGCTAGCACATGGCTGGCGCACATGGCTGGTGGGTGGTTTGG	

Figure S6. The CRISPR-induced indel mutations in the 6th exon of *kcnj13* were validated by Sanger Sequencing. Genomic DNA were extracted from the caudal fins of F₁ generation fish that were genotyped for Dhi2059. PCRs were performed using primers that flank the target region, then cloned into pJET1.2 vector for single-molecule sequencing. The PAM sequences of CR113 and CR134 are highlighted in yellow and cyan, respectively.