

S5 Table. Primer sequences for qPCR, *in situ* hybridization, and site-directed mutagenesis.

Primer	Sequence (5'->3')	Species
<i>hARHGEF2-F</i>	ACCTTCATCCCCCTTCCAGAT	human
<i>hARHGEF2-R</i>	GGCAGGAAAGCAAGAAGAGA	human
<i>hARHGEF2- F</i>	CCCTCATCTGCCCAACCTG	human
<i>hARHGEF2- R</i>	CAAGGCGGTGTTGTTCTTCA	human
<i>hRP11- F</i>	GCACCACGTCCAATGACAT	human
<i>hRP11- R</i>	TCATGAGTGGTCCTGTGTCC	human
<i>hARHGEF2- F</i>	CATCTTTCCTACCCTGACAAGCCTTCAGTGG	human
<i>hARHGEF2- R</i>	CCACTGAAGGCTTGTTCAGGGTAGGAAAGATG	human
<i>Arhgef2-F</i>	TCCCTTATTGATGAAGGTGTAGAAG	mouse
<i>Arhgef2-R</i>	GTCTCGAGCATAACAGCTCCTTATAG	mouse