

Supplementary Information

Table S1. Primer sequences used to construct miR-183 family/Atoh1-HA bifunctional cassette.

Splice donor/acceptor	Sequence	Location
Forward	gcggtcgacgtaatctagaggatccctcgagtactaactggtacctcttc	
Reverse	gcaagcttctgcaggatatcaaaaaaaaaagaagaggtaccagttagtactc	
miR-183 family		
183-96 Forward	gcactagtgggtgtaggacctccagga	Chr6:30169792-30169810
183-96 Reverse	tccagactatgggtccggatcctggctgttcaccagggtagggtg	Chr6:30169333-30169357
182 Forward	cctggtgaacagccaggatccggaccatagtctggaccttgtgtt	Chr6: 30166079-30166102
182 Reverse	gcctcgagcgcccaccctctgccactg	Chr6: 30165809-30165828
Math1-HA		
Forward	cgaattcgccaccatgtcccgctgctgcatgcagaag	
Reverse	cgcgcggccgcctaagcgtaatctggaacatcgatgggtaactggcctcatcagagtcactgtaatg	

Table S2. Sequences used to introduce Atoh1 mutation.

Atoh1 mutation primers	Sequence
Forward	ggaggctggcagcaatcgcaaggggaacgg
Reverse	ccgtcccttgcgattgctgccagcctcc

Table S3. Primers used to amplify GFP from pAAV2.1-CMV-eGFP3-WPRE.

GFP primers	Sequence
Forward	cactagtgccaccatggtgagcaagggcgag
Reverse	gcgcggccgcttactgtacagctcgatccatgccgagag

Table S4. Primers containing sequences complementary to miRNA of interest for creation of miRNA sensors.

Primers	Sequence
miR96 sponge	
Forward	gggctcgagagcaaaaatgtgctagtgccaaacccgggaattcgtt
Reverse	ggggcgccgcttggcactagcacattttgcttctaggtttaaacg
miR182 sponge	
Forward	gggctcgagcggctctgagttctaccattgccaaacccgggaattcgtt
Reverse	ggggcgccgcttggcaatggtagaactcacaccgtctaggtttaaacg
miR183 sponge	
Forward	gggctcgagagtgaattctaccagtgccatacccggaattcgtt
Reverse	ggggcgccgctatggcactggtagaattcacttctaggtttaaacg
miR9 sponge	
Forward	gggctcgagtcatacagctagataaccaaagaccgggaattcgtt
Reverse	ggggcgccgctctttggttatctagctgtatgatctaggtttaaacg