**Supplemental data**

Table S1 *Primers used in this study.*

|  |  |
| --- | --- |
| Gene | Sequence (5’-3’) |
| CDYL-F | GCCGGTCGGAGCTTTATTG |
| CDYL-R | CGGAGATGTACCTTTCCCGTT |
| CTNNB1-F | CATCTACACAGTTTGATGCTGCT |
| CTNNB1-R | GCAGTTTTGTCAGTTCAGGGA |
| EPHA2-FEPHA2-R | TGGCTCACACACCCGTATGGTCGCCAGACATCACGTTG |
| GJA1-F | CAATCTCTCATGTGCGCTTCT |
| GJA1-R | GGCAACCTTGAGTTCTTCCTCT |
| IL6ST-F | CGGACAGCTTGAACAGAATGT |
| IL6ST-R | ACCATCCCACTCACACCTCA |
| JAG1-FJAG1-R | GTCCATGCAGAACGTGAACG GCGGGACTGATACTCCTTGA  |
| MSX1-F | ACACAAGACGAACCGTAAGCC |
| MSX1-R | CACATGGGCCGTGTAGAGTC |
| NOTCH1-FNOTCH1-R | GAGGCGTGGCAGACTATGC CTTGTACTCCGTCAGCGTGA |
| PLA2G4A-F | ATGGATGAAACTCTAGGGACAGC |
| PLA2G4A-R | CTGGGCATGAGCAAACTTCAA |
| TGFB1-F | CAATTCCTGGCGATACCTCAG |
| TGFB1-R | GCACAACTCCGGTGACATCAA |
| SPHK1-F | GGCTGCTGTCACCCATGAA |
| SPHK1-R | TCACTCTCTAGGTCCACATCAG  |
| VANGL2-F | ACCGCTCTAAGAGTCGAGATG  |
| VANGL2-R | GTTACTACTGTCGTCGTTTCCC |
| GAPDH-F | TGACTTCAACAGCGACACCCA |
| GAPDH-R | CACCCTGTTGCTGTAGCCAAA |