

| Gene Name | Forward primer | | | | | | |
|---------------------|----------------|----|-----|---------------------------|--------|----|-----|
| | Length | Tm | %GC | Sequence | Length | Tm | %GC |
| <i>ARID1B</i> | 20 | 59 | 50 | GATCAACATGGCGACAACA | 20 | 60 | 55 |
| <i>ARID2</i> | 20 | 59 | 55 | CGACAGAGGGACTTGCATT | 21 | 59 | 52 |
| <i>ARID4B</i> | 21 | 58 | 48 | AACCCAGAGATTCGTTTTCC | 20 | 58 | 50 |
| <i>CHD6</i> | 20 | 59 | 60 | AGACACCCTGCAAGGACACC | 22 | 60 | 50 |
| <i>CHD7</i> | 19 | 58 | 58 | TCGTGCTCGGGAAGTATCG | 20 | 59 | 60 |
| <i>CRMP1</i> | 21 | 58 | 48 | GAACAAGGGATTCCTCCAAAAC | 20 | 58 | 55 |
| <i>H6PD</i> | 24 | 60 | 46 | GGTGGATAGATGCAGAAACAAGGA | 27 | 60 | 41 |
| <i>JARID2exon5</i> | 26 | 60 | 42 | GTGTATTTTGAAGCTCTCAGGATGA | 23 | 59 | 43 |
| <i>JMJD1A/KDM3A</i> | 26 | 58 | 38 | AGGTGACAAAACTTAGTTGGTTCAG | 21 | 58 | 38 |
| <i>JMJD1C</i> | 20 | 59 | 60 | CATCCTCCGATCTGGGTCAG | 21 | 58 | 52 |
| <i>SMARCA2</i> | 19 | 59 | 58 | ATCGGTGGGTGGACATGGT | 20 | 60 | 50 |
| <i>CDH2</i> | 20 | 59 | 60 | GGGACTCGCACCAGGAGTAA | 20 | 59 | 60 |
| <i>DCX</i> | 20 | 60 | 65 | GAGAGGGAGGCACTCTTGGC | 24 | 59 | 38 |
| <i>GRIK2</i> | 20 | 58 | 60 | GCAGAAGGCAGTCAGTGCTG | 22 | 58 | 45 |
| <i>NRXN1</i> | 19 | 59 | 63 | GAGAGGGTGCCAGGAAAGG | 21 | 59 | 48 |
| <i>NRXN1</i> | 21 | 59 | 52 | TTAACGATGCCCTACAGGTG | 21 | 59 | 57 |
| <i>SNTG2</i> | 21 | 58 | 52 | GGAGATGAGGATGACCCAACA | 25 | 60 | 40 |
| <i>SHANK3</i> | 21 | 59 | 57 | AGCCTATCATGTGGACCCCTC | 20 | 59 | 50 |
| <i>PI4KA</i> | 20 | 58 | 55 | GGGCTGACCTGAAACACACA | 22 | 59 | 45 |
| <i>GRIK3</i> | 22 | 59 | 55 | GCCTCCTCCCAATAAGTAAGG | 21 | 59 | 62 |
| <i>STXBP1</i> | 21 | 59 | 57 | ACGACCTGTGGATAGCACTGC | 22 | 59 | 45 |
| <i>IL1RAPL1</i> | 22 | 59 | 54 | GGTCTGGAGACTTTGAAGAGC | 21 | 59 | 62 |
| <i>MEFC2</i> | 24 | 58 | 42 | GACCTTCAAATGGGAAGAAATACC | 30 | 58 | 27 |
| <i>NEFM</i> | 24 | 59 | 46 | CTTAGAAAACCTCTGGAGGGTGAA | 24 | 59 | 46 |
| <i>FREM2</i> | 20 | 58 | 60 | CCTCCGCCTCATAAGGAGTG | 20 | 59 | 55 |
| <i>MAP2</i> | 23 | 60 | 52 | AACCAAGCCTTGTAGTACCTGGC | 23 | 59 | 48 |
| <i>UBE2A</i> | 20 | 59 | 60 | CATCCTGGCTGGTCCTTCAC | 21 | 59 | 43 |

Reverse primer

| Sequence |
|--------------------------------|
| CGGATAATGGTTGCACTGGC |
| TGTGTTTTACCAGAGAGCCC |
| TTTTGTTTCCCCTCCAGGTG |
| GCTTGAAATGGGCTTCTGTCTG |
| GGTGAGTTTCAGGGTGTCCG |
| TCACAAGCTGGTACGATGGC |
| TATGAATGTGTAAGTCTGCTGGAGGTCTT |
| ACTGGCATGAAGATGAAGCATTG |
| TTTGATGCTGGGTTTCCATT |
| ACAGTGGGAAAGGCTTTCTCC |
| TGCTGGCAAAGACAAAGGG |
| ACACACTCGCAGACGCTCAC |
| TGTATTTAGCCCGAAGTTCCAATT |
| TTACAGTTCGCTGGGTAACAA |
| GCTTCTTTCAAGGGTCCGA |
| CTGCGTTGGTACTCTTCTGC |
| TGCTAATATTTCACTCCCTGGTTCA |
| AAGAGCAAACCCAGCAGGTG |
| TGAAGTACAAACATTGGGCTGG |
| CCTAACCTCTCTCCGAGCTGC |
| CCAGAGTGAACGCATCATCAAT |
| GGCGTAGAGACCACTGTCCTG |
| AAATGACATTCCACTTAAATAACAGATGAT |
| CCTTGGGTTTCTGAATCTTACTGG |
| CAGATGGCAGCAGCAGAAGA |
| GCAACTAAACCCCACTCATCCTT |
| TCCCATGCCTCCTTCAAAT |