**Oligonucleotides used for ChIP-qPCR**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  ASSOCIATED GENE | PRIMER NUMBER | SEQUENCE | REGION AMPLIFIED (Mar. 2006 (hg18) assembly) | PCR PRODUCT SIZE (bp) |
| RAC2 | ADS3477ADS3478 | GTGTGGAGGCTGGTGAGGTCTTGGAGAACAGCCTCTGG | chr22:35970204+35970484 | 281 |
| RACGAP1 | ADS3479ADS3480 | CAAAGGTGGCCATTTTGACTTAGTCCCGCAGACAGTGAGA | chr12:48705672+48705829 | 158 |
| RHOF | ADS3481ADS3482 | TTCCTGCCTCAGAGGATGTCGTGGCTCTCAGAGGCTGAAT | chr12:120712286+120712527 | 242 |
| KIF20A | ADS3483ADS3484 | TAAGTGCGAATCCACGACAGGAAGCCTGCAGCTACCAATC | chr5:137542496+137542624 | 129 |

**Oligonucleotides used for RT-qPCR**

|  |  |  |  |
| --- | --- | --- | --- |
| **GENE** | **PRIMER NUMBER** | **STRAND** | **SEQUENCE** |
| RAC2 | ADS3485ADS3486 | FORWARDREVERSE | GTCTTCCTC ATCTGCTTCTCTATTTCACCGAGTCA ATCTCC |
| RACGAP1 | ADS3503ADS3504 | FORWARDREVERSE | TTTGTGTCCCAG ACTTCTCCCTGTGATTTCTGCTGCTTCC |
| RHOF | ADS3487ADS3488 | FORWARDREVERSE | TCATCAAGTGGTTCCCTGAGAAG ACGTCCTCCACATTCTC |
| KIF20A | ADS3489ADS3490 | FORWARDREVERSE | AGGAAGATCAGGGTTGTGTCTGACTCCATATGTATAGATGAGCC |
| FLNA | ADS3495ADS3496 | FORWARDREVERSE | AGTCTCAGTCAAGTTCAACGAGCACAGCATACTTATCTTGGTC |
| ABHD2 | ADS3491ADS3492 | FORWARDREVERSE | CTACAACTTCCTCATGGCTGGAACATAAATCCTGTGCAGGT |

**Supplementary Table S2: Oligonucleotides used for ChIP- and RT-qPCR**