|  |  |  |  |
| --- | --- | --- | --- |
| Cloning | Symbol | Forward primer (5’-3’) | Reverse primer (5’-3’) |
|  | YAP1 | TCGGTCGACATGGATCCCGGGCAGC | GAGAGATCTCTATAACCATGTAAGA |
|  | SMAD3 | CGAGGTACCATGTCGTCCATCCTGCC | CCCGCGGCCGCCTAAGACACACTGGAACA |

|  |  |  |  |
| --- | --- | --- | --- |
| Site directed  mutagenesis | Mutation | Forward primer (5’-3’) | Reverse primer (5’-3’) |
|  | MUT1 | ACAGAGCAGGGCTAATAAAAGGCAGGCAAAAGACGGA | TCCGTCTTTTGCCTGCCTTTTATTAGCCCTGCTCTGT |
|  | MUT2 | GCATTGCAGCTGCCTCTTTTATTGAGTTGGAGACGGAT | ATCCGTCTCCAACTCAATAAAAGAGGCAGCTGCAATGC |

|  |  |  |  |
| --- | --- | --- | --- |
| ChIP-qPCR | Symbol | Forward primer (5’-3’) | Reverse primer (5’-3’) |
|  | Primer1 | ACTGGGAGTGTGGGTGAGA | GCCGAAGAGAGAAGGGACCC |
|  | Primer2 | GGCATCGGGACAGAGCAGG | AATTTGGGGTCCTCAGATACCC |
|  | Primer3 | GAATCTGACTGGGGCATTGC | CCGTCCCAGCCCATCCGT |

|  |  |  |  |
| --- | --- | --- | --- |
| RT-qPCR | Symbol | Forward primer (5’-3’) | Reverse primer (5’-3’) |
|  | MIR497HG | CTTACCCAAGGTTCCATCG | CTGCCATCCAGTCCTCAA |
|  | E2F4 | CACCACCAAGTTCGTGTCCC | GCGTACAGCTAGGGTGTCA |
|  | GAPDH | GCATCCTGGGCTACACTGAG | GTCAAAGGTGGAGGAGTGGG |
|  | miR-497 | GCAGCAGCACACTGTG | AACAACCAACACAACCCAAC |
|  | miR-195 | AGGGTAGCAGCACAGAAAT | AACAACCAACACAACCCAAC |
|  | U6 | CTCGCTTCGGCAGCACA | AACGCTTCACGAATTTGCGT |