**Supplementary Table 7. Primers**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **App.** | **Species** | **gene** | **Forward start** | **Forward primer (5’-3’)** | **Reverse start** | **Backward primer (5’-3’)** |
| expression | human | GAPDH |  | CATCTTCTTGTGCAGTGCCAG |  | GGCAACAATCTCCACTTTGCC |
| expression | human | ACTB |  | ccttcaacaccccagccatgtacg |  | ggcacagtgtgggtgaccccgtc |
| expression | human | DPY30 |  | ATGAAGGTAGATCTCCAGTCTTTGCC |  | GGGATTTGGTGGTCTTTCCTTTG |
| expression | human | WDR5 |  | AATTCAGCCCGAATGGAGAGT |  | GGATATTCCCAGCTTGTGACC |
| expression | human | ASH2L |  | GTCGCAAATGCAACAGGGG |  | GGCTCAACTGTCGGAGCAG |
| expression | human | MYC(A) |  | GGCTCCTGGCAAAAGGTCA |  | AGTTGTGCTGATGTGTGGAGA |
| expression | human | MYC(B) |  | ACAGCATACATCCTGTCCGTCCAA |  | TGTTCTCGTCGTTTCCGCAACAAG |
| expression | human | MAX(A) |  | GGGCCCAAATCCTAGACAAA |  | CGCTTGAGGTCGTCAATATCT |
| expression | human | MAX(B) |  | AACGTAGGGACCACATCAAAG |  | TCTGTGGCTTTGTCTAGGATTT |
| expression | human | HRAS |  | CTTCCTGTGTGTGTTTGCCATC |  | CAGCCAGGTCACACTTGTTC |
| expression | mouse | Gapdh |  | CATCTTCTTGTGCAGTGCCAG |  | GGCAACAATCTCCACTTTGCC |
| expression | mouse | Actb |  | ccttcaacaccccagccatgtacg |  | ggcacagtgtgggtgaccccgtc |
| expression | mouse | Dpy30 |  | ACCCTCACTCTGAGTACGGG |  | GGACTGTAGATCCACCTTCTGT |
| expression | mouse | Myc |  | CCACCAGCAGCGACTCTGA |  | TGCCTCTTCTCCACAGACACC |
| expression | mouse | Bcl2 |  | GGAGGATTGTGGCCTTCTTT |  | GTTCAGGTACTCAGTCATCCAC |
| expression | mouse | Bcl-xL |  | TCTGTCTTCAGAAGGCTTGTTC |  | GCCTTGAACTTCCGATCCTT |
| expression | mouse | Birc5 |  | AACCCGATAGAGGAGCATAGA |  | GCTCTCTGTCTGTCCAGTTTC |
| expression | mouse | c-Myc |  | CCACCAGCAGCGACTCTGA |  | TGCCTCTTCTCCACAGACACC |
| expression | mouse | FasL |  | GAAGAAGGACCACAACACAAATC |  | CAGGTGGAAGAGCTGATACATT |
| expression | mouse | Max |  | TACGCACCAGCAAGACATT |  | TGCAGTTGGGCACTTGAT |
| expression | mouse | Mcl1 |  | GAACTGGACGGCTGCGA |  | TAGGTCGTCCTCTTCCTCCTC |
| expression | mouse | Mt1 |  | CTGCGCCTGCAAGAACT |  | CAGCCCTGGGCACATTT |
| expression | mouse | Xiap |  | ATCCGGGAGCAGCTATCTAT |  | GACTTGACTCATCCTCCGTATTATC |
|  |
| ChIP | human | NCL | TSS +624 | AAGTCTCGCGCGATTAGTG | TSS +528 | GCTCAGTGACTCTGTCTTTCC |
| ChIP | human | NUDT3 | TSS +400 | AAGCTCAAGTCGAACCAGAC | TSS +341 | TGCGGAAACACAGGCAT |
| ChIP | human | YDJC | TSS +792 | CGTGGTTAGTGATCCCAGTTT  | TSS +707 | GAGGAGCACGTCCTTTCAC |
| ChIP | human | RAD23B | TSS +862 | CCTGGTTAGCCGCTTAGTTC | TSS +915 | GGCAAACGGAACCTGATACT |
| ChIP | human | RPS8 | TSS -25 | GCGCTCAGAAACAACGTAAAG | TSS +36 | CTGGAAAGAGAAACCGCAAAG |
| ChIP | human | DUS3L | TSS +500 | AGGCTCCTCTAGAGAATGGTG | TSS +492 | GCGACTCACTGACGCTTAAT  |
| ChIP | human | TNFRSF8 | TSS -70 | AGTCATCTCTGCACGTGTTT | TSS +10 | CCGAGGTTTCAGCCTTAGTT |
| ChIP | human | TERT | TSS +670 | CAGCGACATGCGGAGAG | TSS +779 | AAGGCCAGCACGTTCTTC |
| ChIP | human | BAZ1A | TSS +1553 | GCCTCTTCTTGGTGACTAACT | TSS +1500 | CGACTTCTTCCTCACTGATCTC |
| ChIP | human | MBLAC2 | TSS +610 | GTTTCACCCTTCCCTGAGTAAA | TSS +532 | CTCAGAATCTCTACACGATGCC |
| ChIP | human | GTF3A | TSS +393 | AGCGCGTTCAGCTTTGA | TSS +466 | CATGGATATCAAGGTCGCAGAA |
| ChIP | human | SLC38A | TSS +297 | CATCAAACTGCCGAGGGTAAA | TSS +236 | CCTCCGGAAATAAAGGGAAAGG |
| ChIP | human | MBTD1 | TSS +359 | TTCAAGTCGGTGGACTTCTG | TSS +278 | GCTGCTTTGGATGACCTCTA |
| ChIP | human | LTV1 | TSS +170 | CTTCCGGTAATACCTTGGCTAC | TSS +269 | GGAGACTGTAACTTGCAAAGAATG |
| ChIP | human | PPAN | TSS +179 | ACAGTCAGGGAGGGTAAGG | TSS +259 | CGGCGACGAGAGACAAAG |
| ChIP | human | KDM6B | TSS +274 | GGACCTCCCTTCTATCTCCTATAA | TSS +390 | CTTGCAAACTCCCTCTTCATTTC |
| ChIP | human | SPG7 | TSS -224 | ATACAAGGCCGGCTTCAAA | TSS -139 | CCTGAGCCCGTCTACCT |
| ChIP | human | DGKA | TSS -673 | TCGCGAGTAACTGGGACTA  | TSS -591 | ATTGAGACCATCCTGGCTAAC |
| ChIP | human | MREG | TSS -69 | CTGTGTGCTTGTGTGAGTTG | TSS -134 | ATCCCATAAGGAACCAAGGG |
| ChIP | human | OR2J3 | TSS +149 | GGCCTCATCTGGAAGTAGTTATC |  | GTCCAGGTATGACAGGATGATG |
| ChIP | mouse | Intergenic | Chr8: 72,806,101 | AAGGGGCCTCTGCTTAAAAA | 72,806,240 | AGAGCTCCATGGCAGGTAGA |
| ChIP/ATAC/DHS | mouse | Wdr5 (P1) | TSS -254 | ACCAAGAGGTTTCCCAACAGTCCT | TSS -92 | ACTGGTGTTCGGTAACTGCAGACT |
| ChIP | mouse | Wdr5 (P2) | TSS +373 | CACTGGGAGTGGAATTCTCTG | TSS +486 | CTAGGACACAAATGAGGGTTGT |
| ChIP/ATAC/DHS | mouse | Cad | TSS -388 | GCCATGTCGCAGCCAAGAAGATTT | TSS -307 | CAATGGCCGCTTCAGCCTTAAACA |
| ChIP/ATAC/DHS | mouse | Rpl167 | Koche et al, 2011 | GGCAGCTGAGAGGATGTAGG |  | GGCTAGGACCACAAGGGTTT |
| ChIP/ATAC/DHS | mouse | Actb | TSS +142 | AGGATCACTCAGAACGGACACCAT | TSS +234 | TACACGCTAGGCGTAAAGTTGGCT |
| ChIP/ATAC/DHS | mouse | Gapdh | TSS +236 | CTTCGGGCCACGCTAATCTCATTT | TSS +320 | AACTCACCCGTTCACACCGACCTT |
| ChIP/ATAC/DHS | mouse | Postn | Koche et al, 2011 | TATGCTCTGCTGCTGCTGTT |  | AACAAGCCAGGGACTTACCC |
| ChIP | mouse | Mt1 | TSS -215 | GGAAAGGAGAAGCTGAGGTTAC | TSS -120 | CTATCGCTGCTCTGGAGTTTAC |
| ChIP | mouse | Mt1 | TSS -49 | GAGCCAGTCGTGCCAAAG | TSS +77 | TCCAGCCCACGCATAGT |
| ChIP | mouse | Mt1 | TSS +110 | CGGACTCGTCCAACGACTATAA | TSS +206 | GCTACGGAGTAAGTGAGGAGAA |
| ChIP | mouse | Mt1 | TSS +176 | TGAGTACCTTCTCCTCACTTACT | TSS +277 | ACCAAGGATCGGGAGTCTTA |
| ChIP | mouse | Mt1 | TSS +710 | CCCTCATGCTGTCTTCTTTCT | TSS +820 | GTGTCCCAACTCACTCTTCTT |
| ChIP | mouse | Olfr725 | TSS +346 | ATGAGTCGCCGTGTGTGTATCACT | TSS +466 | TGTCCACCTGGTTAGGACCACAAA |

Koche RP, Smith ZD, Adli M, Gu H, Ku M, Gnirke A, et al. Reprogramming factor expression initiates widespread targeted chromatin remodeling. Cell stem cell. 2011;8(1):96–105.