Table S7. Primers used in MNase-qPCR

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| Name of primer set | Primer name | Sequence (5’ to 3’) |
| chr17-1 | chr17-1for | TGC GAA TTT CCA TGG GTT AT |
| chr17-1Rev | GTC AAC ATT GGC TGA AGC TG |
| chrX-1 | chrX-1for | GTC TTG ACC ACA TGT GAC TGG |
| chrX-1Rev | AGC TGG TCT AAG CCG ATC AA |
| ZNFX1-NC1, #1 | chr20ChIP\_47895161F | TTC AGG AAG CCA TTC GTT CT |
| chr20ChIP\_47895291R | TGG AGT TTC CAC TCA CCA CA |
| ZNFX1-NC1, #2 | ZFAS-119F | GCTATTGTCCTGCCCGTAAG |
| NFAS196R | GACCAGAGGTCTCCAACGAA |
| ZNFX1-NC1, #3 | NFAS-185F | AGA CCT CTG GTC CTC CCT TC |
| NFAS-280R | CCT ATT TGG GGT CAG AGA CG |
| ZNFX1-NC1, #4 | ZFAS-318F | AAA AGC CAC TGC CTT CTG C |
| NFAS-400R | GTCGATCTGATGGGGAAAAA |
| ZNFX1-NC1, #5 | NFAS-381F | TTTTTCCCCATCAGATCGAC |
| NFAS-479R | ACGGTCAGAAACGAACAAGG |
| PRMT5,  #1 | PRMT5L\_36F | GTCGCCTTAACAACCAGAGC |
| PRMT5L\_107R | ATTGGCAGGAAAAGCCACT |
| PRMT5,  #2 | PRMT5L\_89F | AGTGGCTTTTCCTGCCAAT |
| PRMT5L\_160R | ACCAGACCCTGAGATTGGTG |
| PRMT5,  #3 | PRMT5L\_134F | ATGGATCCACCAATCTCAGG |
| PRMT5L\_213R | AACGGCGTTCTTCAGATAGAC |
| PRMT5,  #4 | PRMT5L\_143F | CCAATCTCAGGGTCTGGTTC |
| PRMT5L\_220R | GTCTCTCAACGGCGTTCTTC |
| PRMT5,  #5 | PRMT5R\_50F | GCTGCGTGAGCATTTTGTAA |
| PRMT5R\_128R | TCTGATAATGAAAGCGTGAAGA |
| PRMT5,  #6 | PRMT5R\_124F | TCAGATCCTGAGTCGGTTGG |
| PRMT5R\_184R | GGGTAGTTACGGGAAAAGCTG |
| PRMT5,  #7 | PRMT5R\_182F | CCCTCAAAAGTGTTTTTCTTGTG |
| PRMT5R\_255R | CACCAGCCATTAACCCAGTT |
| WDR74  #1 | WDR74\_32F | CCCTAACTGATCGAAATCTTCC |
| WDR74\_97R | WDRAACGGTGCACTCTCCCTTC |
| WDR74  #2 | WDR74\_65F | GTTGTTCTCTCCCCGAAGG |
| WDR74\_129R | ACGCATCGACCTGGTATTG |
| WDR74  #3 | WDR74\_88F | GTGCACCGTTCCTGGAAGTA |
| WDR74\_162R | GGAGATGGAATAGGAGCTTGC |
| MAD1L1 #1 | MAD1L1\_3F | CCC CCA TAC CAT TCT CAT CT |
| MAD1L1\_72R | GGG AAA CCA TCC CTG TGA TT |
| MAD1L1 #2 | MAD1L1\_20F | TCT ATT GTG GGA AGG ACA CG |
| MAD1L1\_95R | TCA CGA CCA CGA GAA TGG TA |
| MAD1L1 #3 | MAD1L1\_76F | TAC CAT TCT CGT GGT CGT GA |
| MAD1L1\_154R | AGA ATG AGA GCC AAG CCA AA |
| MAD1L1 #4 | MAD1L1\_109F | GAT CTG ATT TTA TAA GGG GTT TCC |
| MAD1L1\_190R | GGC AAA AGG CAC ATC TTA CA |
| MAD1L1 #5 | MAD1L1\_132F | CCC TTT GGC TTG GCT CTC |
| MAD1L1\_208R | CTC ACA ATC ATG GCA GCA G |
| MAD1L1 #6 | MAD1L1\_312F | TCC AAA GGA TCA TAT ATA ACA GAA AA |
| MAD1L1\_400R | TTC GTT CTT TCA TCA GGT ATT TTG |