**Supplementary File 1** Primer sequences for CHIP

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| **Binding site** | **Score** | **Primer Sequence** | **Length (bp)** |
| GGGGAATGCT | 4.03 | 5`CCTAATGCCCCCCTACAGAG  | 221 |
| 3`TTTCAGGCACCCTCATACCA  |
| GGTAAATTCT  | 4.46 | 5`GGGAGAAAGAGCAGCCATAC  | 201 |
| 3`ACAAACCCAAGACAAAACGG |
| CTCACTTTCC | 5.27 | 5`GGAAAGAGAAGTCTGCCGCT  | 91 |
| 3`TACAGGGGAGGAAAGTGAGG  |
| GGGGCTTGAC | 5.07 | 5`TCCTCCCCTGTAAGGTCTGG | 131 |
| 3`TCTCAGTGGCTTCCTGTTCA  |
| TCGACTTCCC | 5.68 | 5`GAACAGGAAGCCACTGAGA | 331 |
| 3`GCAGAAAGGAGGGGTGAGTC |