**SUPPLEMENTAL METHODS**

The following primers were used for PCR analysis of DNA obtained by ChIP:

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| --- | --- | --- |
| MLH 1 | SetA-f | agaaaggccgcaaggggagaggag |
| SetA-r | gctactgcccgctaccta |
| SetB-f | cgctgaagggtggggctggatgg |
| SetB-r | gtctagatgctcaacggaagtgc |
| CDO1 | SetA-f | tcttggacttattttcacctagcc |
| SetA-r | tgcgaaaattgaggatggat |
| SetB-f | ctgaacctgatttgtgtgtgc |
| SetB-r | gtgccgaaacgtaaggatgt |
| SFRP1 | SetA-f | aagtttgggaggccaagg |
| SetA-r | atgcccccgctaattttt |
| SetB-f | ggactgcgccttttgtcc |
| SetB-r | ctctgcgccctgttctcc |
| SOX17 | SetA-f | gcagttccttggaagtaaactagg |
| SetA-r | aacataccgagcgtccattc |
| SetB-f | gtgatgggtgagcggaaag |
| SetB-r | gagggagatctgggactcct |
| MYC | Forward | ccgcctgcgatgatttatac |
| Reverse | gctccctctcaaaccctctc |