

Table SI. siRNA sequences used in the present study.

| Target | Sequence (5'-3') |
|----------|---|
| siDNMT1 | Sense: GAAGAGACGUAGAGUUACATT Antisense: UGU AACUCUACGUCUCUUCTT |
| siDNMT3A | Sense: GCCUGGAGCCACCAGAAGATT Antisense: UCUUCUGGUGGCUCCAGGCTT |
| siDNMT3B | Sense: CCAAGCGCCUCAAGACAAATT Antisense: UUUGUCUUGAGGCGCUUGGTT |
| siNC | Sense: UUCUCCGAACGUGUCACGUTT Antisense: ACGUGACACGUUCGGAGAATT |

si, short interfering RNA; DNMT, DNA methyltransferase; NC, negative control.

Table SII. Primer sequences used for reverse transcription-quantitative PCR.

| Gene | Sequence (5'-3') |
|----------------|--|
| HOXD1 | F: C TTCAGCACGTTTCGAGTGGAT R: TGACTTGCGTGTCATTCAGGT |
| DNMT1 | F: TCAAAACCGCTGTATCTAGCAAG R: AGAACCAGTGGGCGTGAAAC |
| DNMT3A | F: CTGGGTCATGTGGTTCGGA R: TCGTAGATGGCTTTGCGGT |
| DNMT3B | F: GTTGGGCATAAAGGTAGGAAAGT R: TCCGCCAATCACCAAGTCA |
| BMP2 | F: GCCAAACACAAACAGCGGAA R: GGGAGCCACAATCCAGTCAT |
| BMP6 | F: TCATTGCACCCAAGGGCTAT R: GCACGGTTTGGGGACATACT |
| β -actin | F: CTTAGTTGCGTTACACCCTTTCT R: TGCTGTCACCTTCACCGTTC |
| GAPDH | F: GAACGGGAAGCTCACTGG R: GCCTGCTTCACCACCTTCT |

HOX, homeobox; DNMT, DNA methyltransferase; BMP, bone morphogenetic protein; F, forward; R, reverse.

Table SIII. Primers used for targeted bisulfite sequencing.

| Gene | Sequence (5'-3') |
|---------|--|
| HOXD1-1 | F: GTCTCTACTAAAAATACAAAAAATTAGCCGGGCATAGTG R: CAATTATACTATAACCAATCAAATAAAATCCTAAA |
| HOXD1-2 | F: GAAATATTAAAGGAAGTTGGAAAGTTTG R: TTCTACTCCATCAAATAAATACTACATC |
| HOXD1-3 | F: GACGTGCTCAGCTTGGCACCCAAGTTCTG R: TTCGTAGGCCCCCTCCAGGGTGC ACT |

HOX, homeobox; F, forward; R, reverse.

Table SIV. Primers used for chromatin immunoprecipitation-quantitative PCR.

| Gene | Segment | Sequence (5'-3') |
|-------------------|---------------------|---|
| HOXD1 promoter F1 | -2,000 to -1,801 bp | F: ATAGTGGTGGGCGCCTGTAG R: TAAGTGCAGTGGCGCGATC |
| HOXD1 promoter F2 | -1,800 to -1,501 bp | F: GCAAAATCAAGATTGAAGGGC R: CCAGTAGAGGGTGGATGCCTA |
| HOXD1 promoter F3 | -1,500 to -1,201 bp | F: GCTGTGATGGGCGCCTATT R: GGTAACCGAGGTTTTATCATTG |
| HOXD1 promoter F4 | -1,200 to -901 bp | F: TTTATTTCCCGTCTCTCTACACTC R: TCGTCTCTTGTGAGTGAAATCTG |
| HOXD1 promoter F5 | -900 to -601 bp | F: GATTCTTTATTCCAACAACCCAGC R: TTGTGGCGGCGTGATGAG |
| HOXD1 promoter F6 | -600 to -301 bp | F: AGGATAACATCAGCGCCA R: TGGAAAAGGTTAAATGGGAGC |
| HOXD1 promoter F7 | -300 to -1 bp | F: AGCGTCCAGTCCTGCCTTT R: AAGTTAGCCAAAGCAGCCCA |

HOX, homeobox; F, forward; R, reverse.