

Supplementary information, Table S1 shRNA sequences

NAMES	SEQUENCES
Control-shRNA	CTTGTGAAGCTTCTAGGAG
Ovol2-shRNA-1	GCATGTGAACAGTGACCAT
Ovol2-shRNA-2	GGAGGACCTGTATCTGCAT
Ovol2-shRNA-3	CCATCCAGGGAGCACATTT

Supplementary information, Table S2 Primer sequences (5' → 3') for QPCR

GENES	5' PRIMERS	3' PRIMERS
<i>Ovol2</i>	GATTCACAACCTGTGACCTTTGTG	GTACGTGCCTCTTCAGGTC
<i>Ovol2A</i>	GGAGAGAGGATCCCACCATG	GTCGCGGAGCAGACAGCCCAGGCTC
<i>Ovol2B</i>	GCCTGGAAGTGGGTGGAA	TGTGCCCTCGTCTTGCCTC
<i>Ovol2C</i>	GGGCGGATGGCTAGGGTT	GCCACGGCAGTTTGACC
<i>Rex1</i>	CAGTTCGTCCATCTAAAAAGGGAGG	TCTTAGCTGCTTCCTGAACAATGCC
<i>CRTR1</i>	ATGCTGTGGAGTTTTTGTGGG	CAATCTGCACCCGAAAAGGC
<i>Oct4</i>	AGTTGGCGTGGAGACTTTGC	CAGGGCTTTCATGTCCTGG
<i>Nanog</i>	TTGCTTACAAGGGTCTGCTACT	ACTGGTAGAAGAATCAGGGCT
<i>Sox1</i>	GCACACAGCGTTTTCTCGG	ACATCCGACTCCTCTTCCC
<i>Pax6</i>	GCAGATGCAAAAAGTCCAGGTG	CAGGTTGCGAAGAACTCTGTTT
<i>Six3</i>	CCGGAAGAGTTGTCCATGTTC	CGACTCGTGTTTGTGATGGC
<i>MAP2</i>	AAAGTTGCCTCCAGTTCCATTT	TCTTTGATTCCGTGGGCATTT
<i>T</i>	CTCGGATTCACATCGTGAGAG	AAGGCTTTAGCAAATGGGTTGTA
<i>Mixl1</i>	ACGCAGTGCTTTCCAAACC	CCCGCAAGTGGATGTCTGG
<i>Flk1</i>	GGGTCGATTTCAAACCTCAATGT	AGAGTAAAGCCTATCTCGCTGT
<i>Sox17</i>	CGAGCCAAAGCGGAGTCTC	TGCCAAGGTCAACGCCTTC
<i>Gata6</i>	TTGCTCCGGTAACAGCAGTG	GTGGTCGCTTGTGTAGAAGGA
<i>Gata4</i>	CCCTACCCAGCCTACATGG	ACATATCGAGATTGGGGTGTCT
<i>Gapdh</i>	TGTGATGGGTGTGAACCACGAGAA	CTGTGGTCATGAGCCCTTCCACAA

Supplementary information, Table S3 Primer sequences (5' → 3') for ChIP assay

NAMES	5' PRIMER	3' PRIMER
BRE	CAAGGTAGGGTGTCTGACTCTGC	TGCAGGAGTGGCGGGCTAGTC
Ctrl	GACCACCGAGATTCCAGAAA	ACAAGCCACAGGTTCTCTGC