

Table S2. Primer sequences for ChIP-PCR

Primer name	Primer sequence	Amplicon size	Number of cycles	Annealing temperature	Q solution added
ACTN1-FRWD	CTCTCATTGGGAATTCCTGG	135 bp	31	51°C	no
ACTN1-REV	AGGTGGTGTACATGAGCTG				
ARNT2-FRWD	CCTTCAGCGACATCAGACAA	216 bp	31	51°C	no
ARNT2-REV	CGCTGAGCGAGAGAAAAGTT				
BMP4-FRWD	TTGACCAGCTACAGAATCG	126 bp	30	53°C	yes
BMP4-REV	CGCTCCGAGGTTAGAACAG				
BMP7-FRWD	TACAAGTCCGGAGAGCGAGT	120 bp	31	55°C	yes
BMP7-REV	AGATCGGAAAGGGGTTTGT				
BMPER-FRWD	CTAGTACGCCCTCGGTCC	227 bp	30	53°C	no
BMPER-REV	AGTTGCTCTCAGCGGGTTAG				
EGR3-FRWD	AGAGCTAGAGGAGATCCGGG	230 bp	28	55°C	yes
EGR3-REV	GAACTTGCATCTCTCAGGGG				
ERBB2-FRWD	AGAAAAGTGAAGCTGGGAGCA	165 bp	34	55°C	no
ERBB2-REV	GGCAATCTCAGCTCCACAA				
FGFR2-FRWD	GCATTCATCCACTCCTCCAT	261 bp	30	55°C	no
FGFR2-REV	TTTGGAGTTTTCTCCGAGA				
FGFR3-FRWD	ACTGGGACAGAGGAGACCCT	174 bp	31	55°C	yes
FGFR3-REV	CTTACGAACCGTCCACTTC				
FYN-FRWD	AAATAGGAATTGGCTTGGGG	249 bp	31	55°C	yes
FYN-REV	GGGAGGTTCCAGAAATAGGC				
HEYL-FRWD	GTAAGACAGGGTGGAGCGAG	219 bp	30	53°C	yes
HEYL-REV	CCTCCAGCTGAACTGTCCTC				
HHAT-FRWD	ACACACACACACACCACG	280 bp	31	57°C	yes
HHAT-REV	AAAGGCTGCCACGACTTAAC				
HOXD4-FRWD	GAGGACTCCATTTCCACAGC	106 bp	29	53°C	yes
HOXD4-REV	AAAGGTTCTCCCTTGCCACT				
LEF1-FRWD	TCAGTCATCCCGAAGAGGAG	295 bp	27	55°C	no
LEF1-REV	GCCACCCTTAGCCATAGAA				
NAB1-FRWD	GCCAAGTTTCTGAAAGCCAC	103 bp	28	51°C	no
NAB1-REV	GCTGAGTCTCCGCTTTCTTC				
NAB2-FRWD	CACCTCCTTTGCCACTAA	237 bp	30	51°C	no
NAB2-REV	CCGAGAGAGAAGACGTGGAG				
PAX2-FRWD	TCCCGAGATGGGTATCAGAG	181 bp	27	55°C	no
PAX2-REV	TTGGTTGCTTTCCCTCATC				
PAXIP-FRWD	CCACCGCTAGTACTTGACC	141 bp	30	53°C	yes
PAXIP-REV	GGCAGTAGGCAGAGCTACGA				
PBX1-FRWD	GCAGGTGAGGAGCACGTTAT	248 bp	27	53°C	no
PBX1-REV	CGGCTGGTTAAGCCAATAGA				
PBX2-FRWD	CAAGACATCGGGGACATTCT	260 bp	32	55°C	yes
PBX2-REV	AGGAGGGAGTGAGACCACCT				
PLXNB1-FRWD	CAGAAGAAAATGGTCTCGGG	134 bp	29	55°C	no

PLXNB1-REV	CAGCTACCAGGCCTGACCTA				
PTCH1-FRWD	CCGAAGATTTAAGGTGGCAA	193 bp	30	55°C	no
PTCH1-REV	GGAGGGAGCCAAAGTAAAGG				
REST-FRWD	TTTGAGATACTGTGGCTCG	212 bp	36	51°C	no
REST-REV	GGGAAGTTTCAGGACCG				
SALL1-FRWD	CCCATTCGTGAGTGTTCT	239 bp	35	53°C	yes
SALL1-REV	CCTTCCTGGGTCCTCTCT				
SCX-FRWD	GCCAGGAGAGAAAGCCTCT	257 bp	27	55°C	no
SCX-REV	CCGAGCAGTGCCTTTATAGC				
SEMA6D-FRWD	GGAGATCTAGGGGAGCGACT	270 bp	30	55°C	no
SEMA6D-REV	TGGGCGACTGTCTTACCTCT				
SIX2-FRWD	GAAAAGAGGGGGACAGAAGG	298 bp	30	55°C	no
SIX2-REV	AGGGGATAGACATCTCGGGT				
SIX4-FRWD	AGGAGGAAAAGAAAGCTGGG	260 bp	27	55°C	no
SIX4-REV	GCGAGGAGACGGTGTATTGT				
SLIT3-FRWD	ACACGCTCAATAAGTTGGGG	229 bp	30	55°C	no
SLIT3-REV	TAATGGACCCCTCATACCCA				
SMAD3-FRWD	CCAAGTCTACGTTTCACGCA	285 bp	25	55°C	no
SMAD3-REV	AGTGCCTGTCCCTGTGAGT				
SMAD4-FRWD	ACCACATCCGGGTAATTTCA	112 bp	35	53°C	yes
SMAD4-REV	ACTGGGACCCTCCCTGCT				
SMAD6-FRWD	CTTTGCCTCTCTGGCTTG	101 bp	27	55°C	no
SMAD6-REV	ACGCCATTTTATTAGCCC				
SMAD7-FRWD	AGAGTCTCCGAGGAAGAGGC	144 bp	29	53°C	yes
SMAD7-REV	CACAGGCTAGTGTGGGGG				
SMO-FRWD	AGACAGCTTCGATCTCCAGG	188 bp	33	53°C	no
SMO-REV	CGGAGGCTACTTAGGCGAC				
SOX11-FRWD	CACCTTCTGGGTCATTTGCT	251 BP	30	51°C	no
SOX11-REV	TGAGCAGCCACGTTAAACAG				
SPRY2-FRWD	AGCGAGTCGCAGCTTTTAG	186 bp	30	51°C	no
SPRY2-REV	ATAGCCCTCCACCTCACTT				
STAU1-FRWD	TGGGTCTGGCACACTGATAA	175 bp	27	53°C	no
STAU1-REV	CCCTTCGTCACTCACTTCGT				
SULF2-FRWD	CTTTTCGTCCTCCTCCCTC	129 bp	30	55°C	no
SULF2-REV	CCCTGTGAAAGCGGATAAAA				
VEGFA-FRWD	AACGGCAGTGACAGCAAAG	267 bp	32	55°C	no
VEGFA-REV	AGTCACCGCACGTACGATCT				
ZFR-FRWD	CAACATGACCCTGAAAGGCT	261 bp	31	50°C	no
ZFR-REV	CTTTGGAAAGGGGAGGAGAC				
ZYX-FRWD	CGCTTAGACCGAGGAGTGTC	195 bp	31	55°C	yes
ZYX-REV	GGAAAGGATTCACCTTGGGC				

Primer sequences used in ChIP-PCR experiments together with PCR reaction conditions. Each PCR was optimized for amplification within the linear range. Supplementation with Q solution (Qiagen) in the PCR reaction mixture is noted when used.