

Table S1. Oligonucleotide sequences**ChIP primers for E-Cadherin locus**

Position, in kb relative to E-cadherin TSS	Forward primer sequence	Reverse primer sequence
-4.4	AGGAGGATTGCCTGAAAGT	GAGAGACGGAGAAGGAACAA
-2.6	AAGAAAGCAACGCTCCAAAG	AGGGCGAGGACTCTGGTATT
-0.1	CGCACTACTGAGTTCCAAG	GTCAGGACCCCTCCACATACC
1.7	AAGGCAAGAGGACCAGGTTT	CCCAGAAAAGGGATTGTGTGT
3.6	AACCGAGGATTGTGACCTTG	GGATATGCTTGGGTAGTGGA
7.8 (primer pair A)	GAAGCCTTTCCTTTCCATT	ACCCTTCTAAGGCACAGCA
7.8 (primer pair B)	CAGCAAACAGTCAAACAG	TTTCTAAGGCACAGCAAACC
9.5	AGGTGGGAAGGAAACCAGTC	CAGGTTTCATCTTCAGGCACA

ChIP primers for *Cldn4* locus

Position, in kb relative to <i>Cldn4</i> TSS	Forward primer sequence	Reverse primer sequence
-0.1	GTGATACTGGCGGGTGACTC	GGGACCAGTTTCTCTGGATTTC
2.8	ACAGGGAAGGGTCTGTGTG	GGTCTTGATCCTGGCTGA

Real-time RT-PCR primers

Gene	Forward primer sequence	Reverse primer sequence
β -Actin (mouse, rat, human, dog)	TTCAACACCCAGCCATGTA	GTGGTGGTGAAGCTGTAGCC
<i>Grhl1</i> (mouse)	AAATTTCGGATGAAGAACGA	TCAGCTTAGCAGGAGGAGGA
<i>Grhl2</i> (mouse, rat, human, dog)	CAAAGCAAGTGACAGCCAAG	CCTTGTTGAGGTAGGTATGG
<i>Grhl2</i> (mouse)	ACCATCGGGAACATTGAAGA	TCCGGTCTCTGTAGGTTTG
<i>Grhl3</i> (mouse)	GCCTACCTCAACAAGGGTCA	TGCCTGCTCCACAGTCATAG
E-cadherin (mouse, rat, human, dog)	AAGGGCTTGATTTTGAGG	AGATGGGGGCTTCATTAC
E-cadherin (mouse)	CGTCCATGTGTGACTGTG	GGAGCCACATCATTTGAGT
<i>Cldn4</i> (mouse)	GCCGTCTATGGGACTACAG	GGTTGTAGAAGTCGCGGATG

Primers used for genotyping

DNA fragment	Forward primer sequence	Reverse primer sequence
Grhl2-LacZ1 mutant allele (500 bp)	AAAGGCATCAAGGTGTGAGC	GTGCGCATAGTGGCTTGAAT
Grhl2-LacZ1 wildtype allele (621 bp)	CACGTAGACGAGCTCTGTGG	GTGGGCAGTTGGTGTGAG
Grhl2-LacZ4 mutant allele (261 bp)	TGCATGCTGAACTCTGGAGGTGGT	ACTTCCGGAGCGATCTCAAACCTCTC
Grhl2-LacZ4 wildtype allele (396 bp)	TGCATGCTGAACTCTGGAGGTGGT	ACAGCTCAGCACATGAAGCATCATG

Primers for production of riboprobes

Gene	Forward primer sequence	Reverse primer sequence (including T7 promoter sequences)
E-cadherin	ATCGCTACACCATCGTCAG	GGCCAGTGAATTGTAATACGACTCACTATAGGG AGGCGGTATGAGGCTGTGGTTCTC
<i>Cldn4</i>	TGCTTCTCTCAGTGGTAGGG	GGCCAGTGAATTGTAATACGACTCACTATAGGG AGGCGGTAAGGAGCCATGTGGA

Primers for 3C assay

Primer	Primer sequence	Distance from <i>Bgl</i> II site
Control reverse (cr)	ATTCTCTCTTTCCGCCATATGTA	124 bp
Promoter reverse (pr)	TTTGTITTTGTTGTTGTCTTTT	86 bp
Enhancer reverse (er)	AGAGTGGTGAATCCCTGTATATCAA	50 bp

Oligos for Splinkerette (SPLK) PCR

Oligo	Oligo sequence
SPLK adaptor A	CGAAGAGTAACCGTTGCTAGGAGAGACCGTGGCTGAATGAGACTGGTGTGACACTAGTGG
SPLK adaptor B	GATCCCACTAGTGTGACACCAAGTCTCTAATTTTTTTTTTCAAAAAAA
SPLK forward primer outer	CGAAGAGTAACCGTTGCTAGGAGAGACC
SPLK reverse primer outer	GCTCTGTCTCCAGTCTCCTCCAC
SPLK forward primer nested	GTGGCTGAATGAGACTGGTGTGAC
SPLK reverse primer nested	ACACACTCCAACCTCCGAAACTC