

Supporting Information

Monnier et al. 10.1073/pnas.1310201110

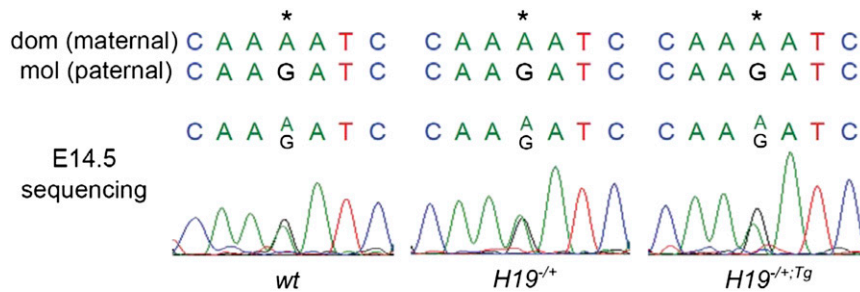


Fig. S1. *Dcn* is not imprinted in E14.5 limb muscles. Allele-specific expression analysis of *Dcn* detected by RT-PCR and sequencing in WT, *H19*^{-/-}, and *H19*^{-/-;Tg} E14.5 limb muscle samples. Maternal (*dom*, *domesticus*) and paternal (*mol*, *molossinus*) sequences are indicated. Stars indicate polymorphisms between the *domesticus* and *molossinus* alleles.

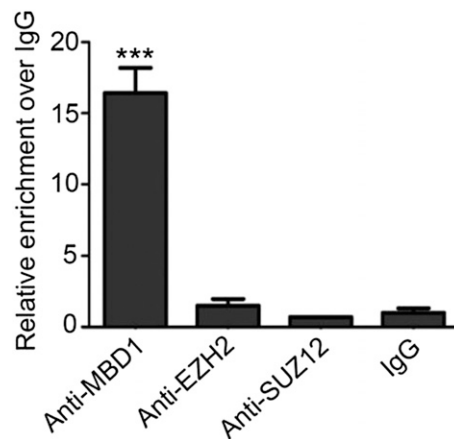


Fig. S2. RNA immunoprecipitation (RIP) analysis. RNA immunoprecipitation with an antibody to MBD1, EZH2, and SUZ12 indicate binding to *H19* in WT mouse embryo fibroblasts. The enrichment of RNA over a random IgG, measured by RT-qualitative PCR (qPCR), is shown.

Table S2. Primer sequences

	Forward	Reverse
ChIP and RIP		
<i>Igf2</i> DMR	TGGATTTTGCAATTGGTGTC	TGGCCAAGTCCTTTTCTTT
<i>Cdkn1c</i> DMR	AGGGAGTCTAAAGGGCTGGT	TTGAACACGGTCTGTGGAAA
<i>Slc38a4</i> DMR	GGGAACTGACCGTGGAGTA	GCCTTTTCAGCTGTCTGTCC
<i>Peg1</i> DMR	AGGATGGGCGGGTTAGAG	AGAAGAAGCACCGGGATGT
<i>H19</i> RNA	GGAGACTAGGCCAGGTCTC	GCCCATGGTGTTCAGAAGGC
<i>Igf2</i> mRNA	GGTGCTTCTCATCTCTTTGG	CGACGGTTGGCACGGCTTGA
RT-qPCR		
<i>H19</i>	GGAGACTAGGCCAGGTCTC	GCCCATGGTGTTCAGAAGGC
<i>Igf2</i>	GGTGCTTCTCATCTCTTTGG	CGACGGTTGGCACGGCTTGA
<i>Cdkn1c</i>	AACTCCAGCAGGATGTGCC	CATCCACTGCAGACGACCAG
<i>Slc38a4</i>	ACTGTGGCAATACTCTCGCTCTA	ATCCAAATGCTTTCTGCCCAAT
<i>Dcn</i>	CATCTTCGAGTGGTGCAAGTGT	GCAGGTCTAGCAAGGTTGTGC
<i>Gtl2</i>	CGAGGACTTCACGCACAACAC	CCACGCAGGATTCAGATGATG
<i>Dlk1</i>	ACTTGCGTGGACCTGGAGAA	CTGTTGGTTGCGGCTACGAT
<i>Mbd1</i>	AACTGAGCTCTCCCTTAAAGG	TGACTGCTGCCACTCCTCTG
<i>Peg1</i>	CAACAATGACGGCAACCTGGT	TCTGAATTTCTTCTTTGATTAAT
<i>Igf2r</i>	GCACAGAATCCAGACTAGCATT	CCTCCTTATCAGCTTTAAATAT
<i>Gnas</i>	AGCGCGAGGCCAACAAAA	GTGCGTGGCCCCGGTAGA
<i>Sdha</i>	TTCCGTGTGGGGAGTGTATTGC	AGGTCTGTGTTCCAAACCATTCC
<i>Tfr</i>	GCAGATGAAGAAGAAAATGCCG	TTACAATAGCCCAGGTAGCCACTC
<i>Actb</i>	TATTGGCAACGAGCGGTTCC	GGCATAGAGGTCTTACGGATGTC
<i>Igf2</i> intron 1	CCACTTTGTGTGCACTCTGC	TCTACACTCGCTTCCCCAAG
<i>Peg1</i> intron 1	GACGTGGGTCGTGTAGGTTT	CAAATGGGGCTGCAATTACT
<i>Slc38a4</i> intron 1	GGTCTCGGAACTGTGTAGGG	CCTGCCCTGGTTTACTTCAC
Allele-specific expression		
<i>Igf2</i>	GGAGATGTCCAGCAACCATC	CTGAAGCAATGACATGCCAC
<i>Peg1</i>	GATTCGCAACAATGACGGC	ATCCAGAATCGACACTGTGG
<i>Dcn</i>	GATTTTCCACCCGACACAAC	TCTCCAGGAACTTCGTGTCC
<i>Slc38a4</i>	ACACGGGATGGAGTTCAGAC	ATCGGTGCTGTGTGAATGAA
<i>Dlk1</i>	CGTCTTCTCAACAAGTGCG	AGATCTCCTCATCACCAGCC
<i>Gtl2</i>	TTGCACATTTCTGTGGGAC	AAGCACCATGAGCCACTAGG
<i>Cdkn1c</i>	GACGATGGAAGAACTCTGGG	AGCGTACTCCTTGCACATGG