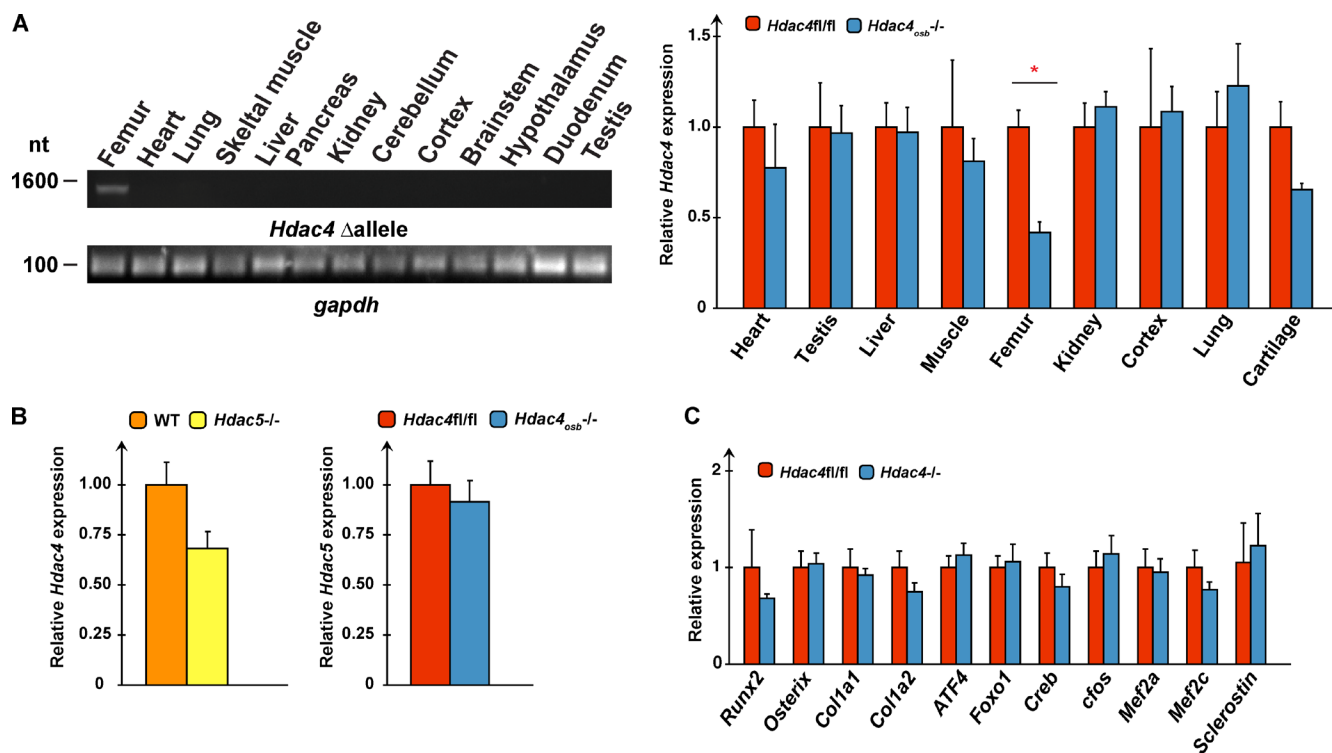


Obri et al., <http://www.jcb.org/cgi/content/full/jcb.201403138/DC1>

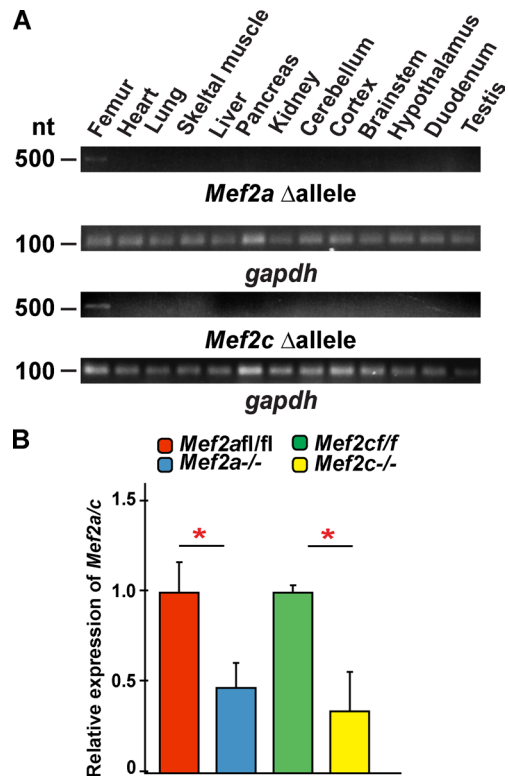


Figure S2. **Osteoblast-specific deletion of *Mef2a* and *Mef2c*.** (A) Detection of the mutated allele of *Mef2a* or *Mef2c* by PCR in genomic DNA isolated from tissues of *Mef2a*^{osb}^{-/-} or *Mef2c*^{osb}^{-/-} mice. PCR for *gapdh* was used as a loading control. (B) Analysis of the deletion efficiency of the *Mef2a* or *Mef2c* alleles, respectively, with the *Runx2-cre* transgene in *Mef2a*^{osb}^{-/-} ($n = 4$) or *Mef2c*^{osb}^{-/-} ($n = 5$) bone marrow osteoblasts. Results are given as means \pm SEM. *, $P < 0.05$ by Student's t test.

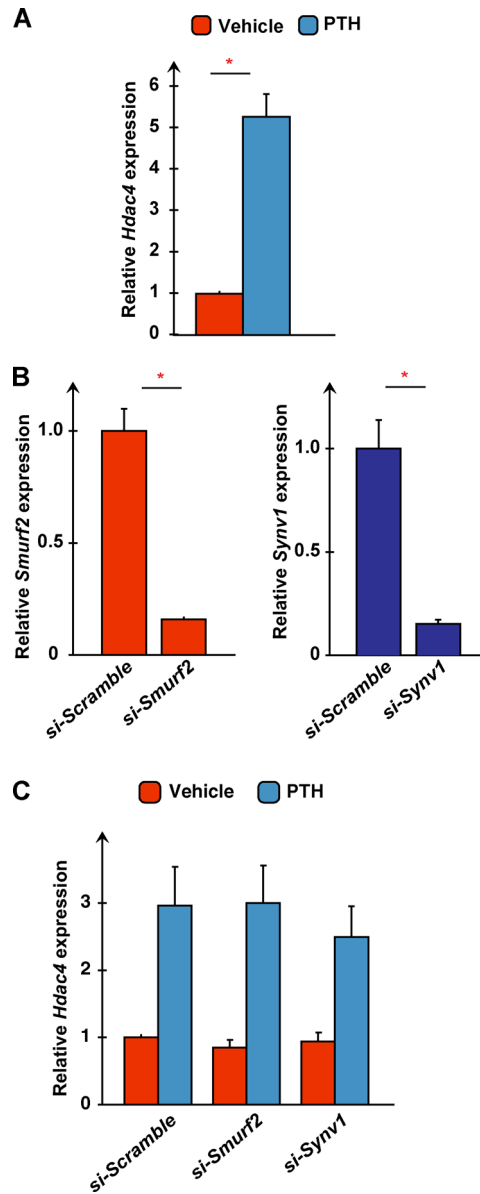


Figure S3. **PTH regulation of *Hdac4* expression is independent of *Smurf2* or *Synv1* inactivation.** (A) Analysis of the expression of *Hdac4* in vehicle- or 10 nM PTH-treated WT osteoblasts for 2 h. Results are represented as a fold change compared with vehicle-treated WT osteoblasts. (B) Analysis of the expression of *Smurf2* and *Synv1* in primary osteoblasts transfected with either *Smurf2* (left) or *Synv1* (right) siRNA. Results are represented as a fold change compared with levels in scrambled siRNA-transfected cells. (C) Analysis of *Hdac4* expression in scrambled-, *Smurf2*-, or *Synv1* siRNA-transfected osteoblasts treated with vehicle or 10 nM PTH for 2 h. Results are represented as fold changes compared with levels seen in vehicle-treated scrambled siRNA-transfected cells. Results are given as means \pm SEM. *, $P < 0.05$ by Student's *t* test.

Table S1. **Primers used in this study**

Gene name	Primers
<i>Hdac9</i>	5'-CGCCACCGACCCCTGAATCG-3' and 5'-GCCAGCGTGCTCTGAGGCAA-3'
<i>Hdac7</i>	5'-TTCCTTCCATTGTATCCTACCCGG-3' and 5'-CAGAGCGACTGTGAGACGGCGA-3'
<i>Hdac5</i>	5'-GTCAAAGGAGCCACGCCAGG-3' and 5'-TTGGGGTGCTGTGGGAGGGAA-3'
<i>Hdac4</i>	5'-CCTTGACCAGAGCTCCACCCC-3' and 5'-GGTTGAGGAGGCTGACACCCCA-3'
<i>Rank1</i>	5'-AAGATGCGACGTACTTTGGG-3' and 5'-CGTGGGCCATGTCTCTTAGT-3'
<i>Opg</i>	5'-GAAAGACCTGCAAATCGAGC-3' and 5'-TTGTGAAGCTGTGCAGGAAC-3'
<i>Mef2a</i>	5'-AGTACCGGCAGTGCAAGTGGGA-3' and 5'-CCTGGTGGCGGGGAGACTTT-3'
<i>Mef2b</i>	5'-CGCCCGCCTCACTTTCGACC-3' and 5'-GGCTTCTGAGGTGCCCAATCCC-3'
<i>Mef2c</i>	5'-GCCGCACGAGAGCCGGACAA-3' and 5'-AGCTGGGAGGTGGAACAGCACAC-3'
<i>Mef2d</i>	5'-TTCGCTGTTCCCGTCGGAGC-3' and 5'-GGCTGCTGGGTGGTGATCAGG-3'
<i>Runx2</i>	5'-CAGCGTCAACACCATCATT-3' and 5'-CAGACCAGCAGCACTCCATA-3'
<i>Osterix</i>	5'-AGCTGCAAGCTCTCTGTAACC-3' and 5'-CCTCTCGACCCGACTGCAGAT-3'
<i>Col1a1</i>	5'-TGTTCACTTTGTGGACCTC-3' and 5'-TCAAGCATACCTCGGGTTTC-3'
<i>Col1a2</i>	5'-GAAGGGGATCTCGGGGTTG-3' and 5'-GGGAATGCCTCTGCGATGAC-3'
<i>Foxo1</i>	5'-GCTGCAATGGTATGGTAGGA-3' and 5'-GTCACAGTCCAAGCGCTCAAT-3'
<i>Creb</i>	5'-CTGCCTCAGGCGATGTACAAAC-3' and 5'-CTGTTCTTATTAGACGGACC-3'
<i>c-fos</i>	5'-ATTTGACTGGAGGTGCCTG-3' and 5'-CACGTTGCTGATGCTCTTAGC-3'
<i>Smurf2</i>	5'-GTCAGGTCCCAGCGACATAG-3' and 5'-TAGGCACTCGTGATCATGC-3'
<i>Smurf1</i>	5'-ACGACTGGAAGTCCAACACC-3' and 5'-CAGAGCCTGAAGCCTTGA-3'
<i>Btrc</i>	5'-CCCCAAGTACATCACCTC-3' and 5'-CAGCTTGTGCCCATTTAGG-3'
<i>Stub1</i>	5'-CTTCTACCGGCGGTCCAG-3' and 5'-GAGACCTACCCTGCTCAGACC-3'
<i>Wwp1</i>	5'-CCATCAGGGTGGGAACAGAG-3' and 5'-GCTGCCAGGTTGTTTCTG-3'
<i>Wwp2</i>	5'-ACCAGTCTTCGAGTGCTTCG-3' and 5'-GCTGGCTCCTGTATCATCCC-3'
<i>Atf4</i>	5'-ATGGCGCTTTCACGAAATC-3' and 5'-ACTGGTCAAGGGGTCATCAA-3'
<i>Sclerostin</i>	5'-AGCCTTCAGGAATGATGCCAC-3' and 5'-TTTGGCGTCATAGGGATGGT-3'
<i>Cbl</i>	5'-GCGGTTGTGTCAAACCCAAA-3' and 5'-AAGAGGCTGATAGTCTGCTTAGT-3'
<i>Fbx15</i>	5'-GCCCCTGGAATCTGTGGAC-3' and 5'-GGAGGGGAGCAAGAACCAG-3'
<i>Rbx1</i>	5'-GCGGCGATGTGGATA-3' and 5'-GTTGGCCTGACATTCGATACA-3'
<i>Ich</i>	5'-TGGGTAGTCTGACCATGAAATCT-3' and 5'-GGGTAACAATAACTGTGAGGG-3'