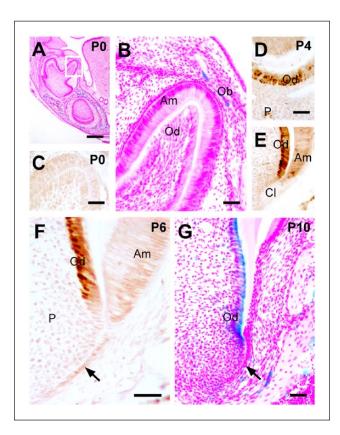
Wntless Regulates Dentin Apposition and Root Elongation in the Mandibular Molar

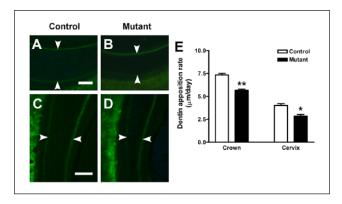
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Appendix



Appendix Figure 1. OC-Cre recombinase expressions in the mandibular first molars of *OC-Cre;R26R* double-transgenic mouse during early postnatal development. (**A–C**) No LacZ and Cre expression was observed in the developing tooth germ at P0. (**D–F**) At P4 and P6, Cre recombinase was expressed in crown odontoblasts. (**G**) Strong LacZ expression was found in the odontoblasts of developing roots at P10. (B) is enlarged from the box in (A). Arrows indicate Hertwig's epithelial root sheath. Am, ameloblasts; Od, odontoblasts; P, pulp; Cl, cervical loop; Ob, osteoblasts. Scale bars: 300 μ m (A), 100 μ m (B, G), 40 μ m (C–F).

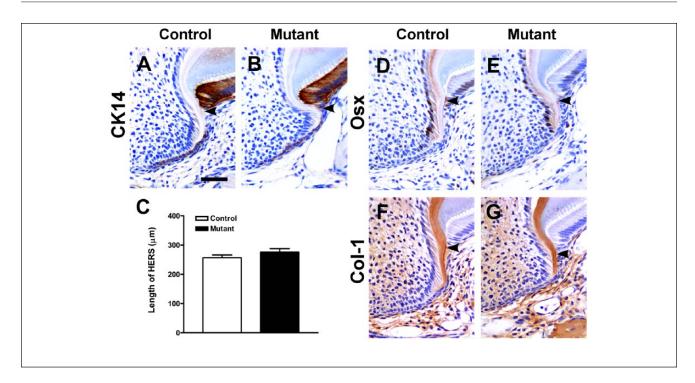


Appendix Figure 2. Determination of dentin apposition rate by double fluorescence labeling in crown and cervix of the mandibular first molar of control and *OC-Cre*;*Wls*^{*CO/CO*} mice (n = 3, in each genotype). *P < 0.05 and **P < 0.01. The white arrowheads indicate fluorochrome labeling. Scale bars: 100 µm (**A–D**).

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Appendix Figure 3. Immunohistochemical localization of CK14, Osx, and Col-1 in the developing roots of mandibular first molar of control and *OC-Cre*;*Wls*^{CO/CO} mice at P8. (**A**, **B**) CK14. (**C**) No difference in Hertwig's epithelial root sheath (HERS) length between control and mutant mice at P8 (P > 0.05, n = 3, in each genotype). (**D–E**) Osx. (**F**, **G**) Col-1. The black arrows indicate HERS, and black arrowheads indicate presumptive borders of the crown and root. Scale bars: 100 μ m (A–F).