

Figure S1. Study design (schematic). (A) Design and results of protein microarray analysis. (B) Overview of OPG expression during tooth development. (C) Study evaluating the effect of OPG on prenatal tooth development. (D) *In vitro* and *in vivo* studies. (E) Underlying mechanism for the influence of OPG on prenatal tooth development. OPG, osteoprotegerin.

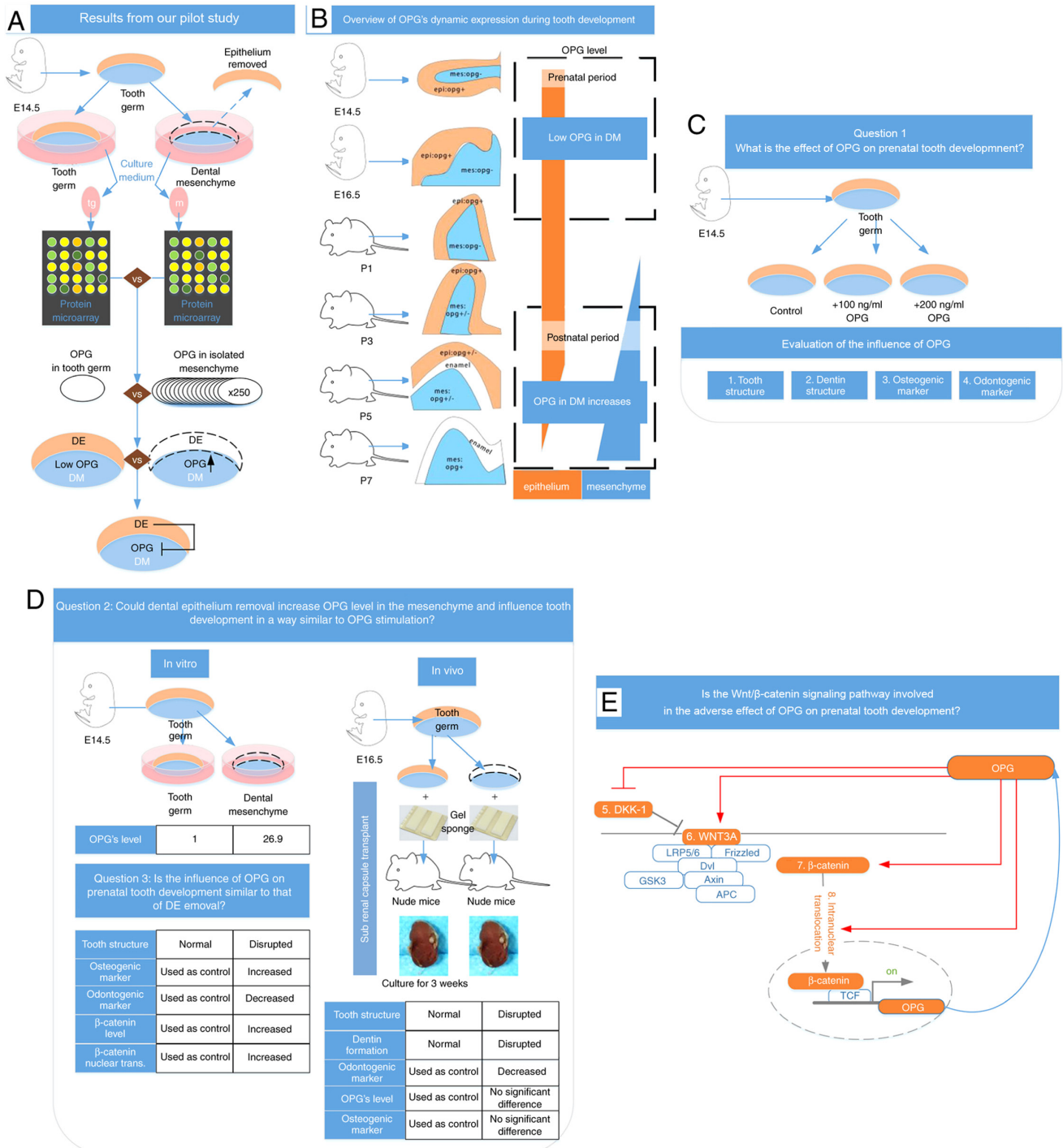


Table SI. Primers for qRT-PCR analysis.

Gene target	Sequences
ALP	F: 5'-GCCCTCTCCAAGACATATA-3' R: 5'-CCATGATCACGTTCGATATCC-3'
DSPP	F: 5'-TGAAGAAGGCGACAGTACCC-3' R: 5'-TCACTTTCGTCACTTCCGTTAG-3'
GAPDH	F: 5'-CTACCCCAATGTGTCCGTCG-3' R: 5'-TGAGGTCCACCACCCTGTTGC-3'
OCN	F: 5'-TTGTGCTGGGGTGGTTTCTG-3' R: 5'-AGCCTTCCCAACCCCTATT-3'
OPG	F: 5'-CTCCTGGACATCATTGAATGGAC-3' R: 5'-AGTTTCTGGGTCATAATGCAAGT-3'
OPN	F: 5'-GCCTGTTTGGCATTGCCTCCTC-3' R: 5'-CACAGCATTCTGTGGCGCAAGG-3'
RUNX2	F: 5'-GCACAAACATGGCCAGATTCA-3' R: 5'-AAGCCATGGTGCCCGTTAG-3'
β -catenin	F: 5'-AAGGCGTGGCAACATAC-3' R: 5'-GTCCTGAAGAGGGAAGT-3'
WNT3A	F: 5'-CATGCACCTCAAGTGCAAATG-3' R: 5'-TGAGGAAATCCCGATGGT-3'
DKK-1	F: 5'-ATTCCAACGCTATCAAGAACC-3' R: 5'-CCAAGGTGCTATGATCATTACC-3'

ALP, alkaline phosphatase; DSPP, dentin sialophosphoprotein; OCN, osteocalcin; OPG, osteoprotegerin; OPN, osteopontin; RUNX2, runt-related transcription factor 2; F, forward; R, reverse.