

Table S1. Cell proliferation index in *K14-Cre;Shh^{cln}* and control palatal shelves at E13.5

	1	2	3	4
CK-PE	0.3696±0.03910	0.3728±0.03530	0.3727±0.02652	0.3466±0.02205
MT-PE	0.1968±0.03670*	0.3929±0.02548	0.3261±0.01549*	0.3540±0.02367
CK-PM	0.3221±0.02357	0.3981±0.05611	0.4002±0.03461	0.4162±0.05256
MT-PM	0.3018±0.03391	0.4100±0.05984	0.3153±0.03648*	0.2135±0.02806*

*Mutant samples with a significant difference in cell proliferation index from the control samples ($P<0.05$). Data were expressed as ratios of BrdU-labeled nuclei to total cell nuclei \pm s.d. Data were recorded from 10 continuous frontal sections through the E13.5 palatal shelves anterior to the maxillary first molar tooth germs in comparable positions in control and *K14-Cre;Shh^{cln}* mutant embryos. CK-PE, control palatal epithelium; MT-PE, *K14-Cre;Shh^{cln}* mutant palatal epithelium; CK-PM, control palatal mesenchyme; MT-PM, mutant palatal mesenchyme.