Developmental roles of FUSE Binding Protein 1 (*Fubp1*) in tooth morphogenesis

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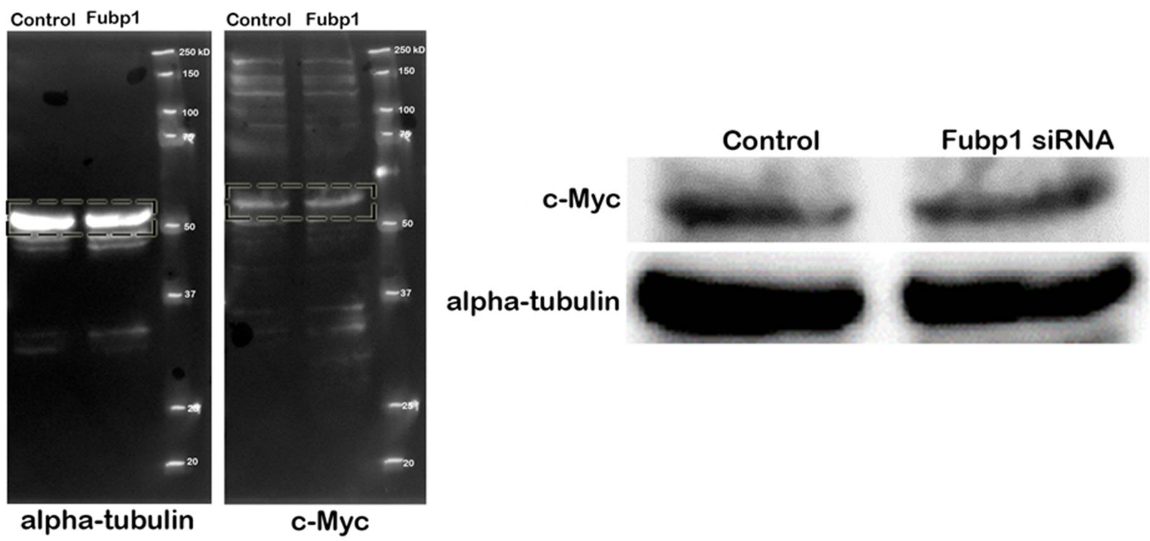
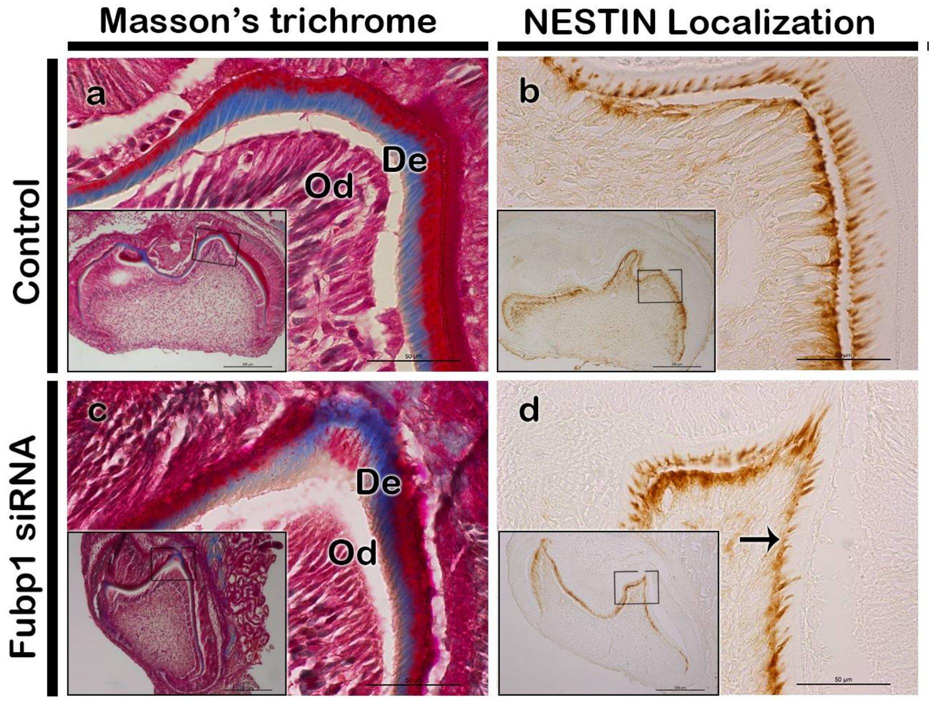
n=8	c-Myc positive cells				Ki67 positive cells			
	Control		Fubp1 siRNA		Control		Fubp1 siRNA	
	IEE	OEE	IEE	OEE	IEE	OEE	IEE	OEE
AVERAGE	6	8	23	19	17	23	32	28
STDEV	0.69	1.21	1.09	0.96	0.96	1.36	1.22	1.71
***p*-value**	0.23	0.17			0.06	0.24		

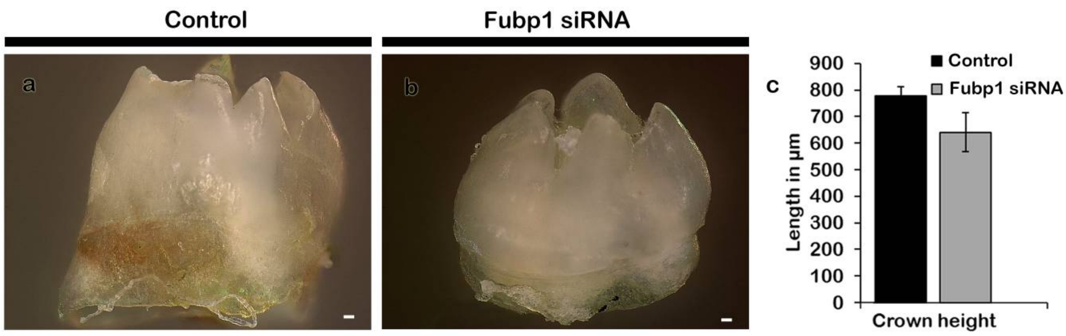
Supplementary Figure S1. Statistical analysis of c-Myc and Ki67 positive cells. Statistical analysis shows increased and decreased c-Myc and Ki67 positive cell numbers along the IEE and OEE respectively in the *Fubp1* knock-down specimen. OEE, outer enamel epithelium; IEE, inner enamel epithelium.



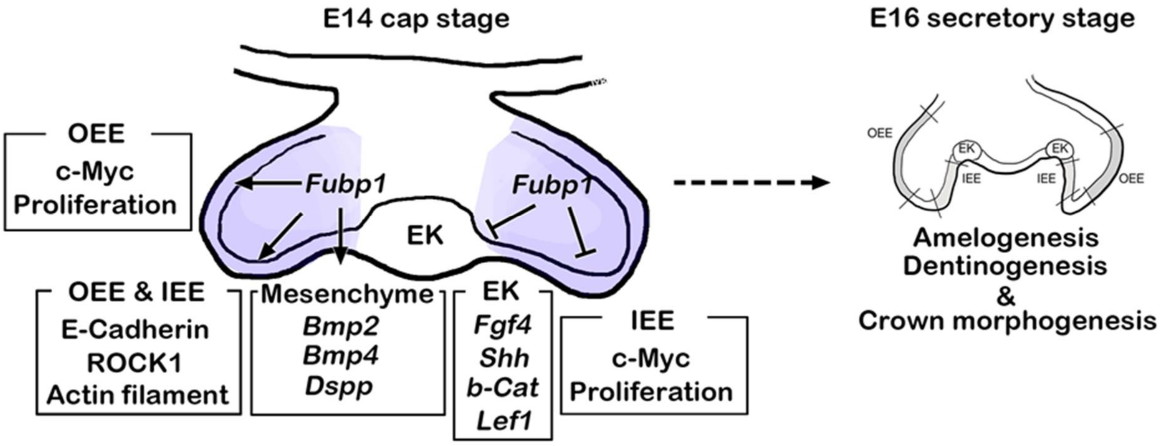
Supplementary Figure S2. Protein expression level in *Fubp1* knock-down tooth. Western blot shows no obvious changes in the protein expression level of c-Myc after *Fubp1* knock-down at E14 for 48 h. Dotted boxes demarcate the cropped regions for discussion in this study.



Supplementary Figure S3. One-week renal calcified tooth. Masson's trichrome staining showing one week renal calcified teeth (a, c). The localization of NESTIN is abrogated and weaker along the odontoblast layer and its processes in the *Fubp1* knock-down tooth (arrow, d) when compared with the control (b). Square box indicates an enlarged view (a-d). De; dentin, Od; odontoblast. Scale bars: 50 µm (a-d).



Supplementary Figure S4. Altered crown height in *Fubp1* knock-down tooth. Three-week renal calcified tooth showing decreased crown height in the *Fubp1* knock-down tooth compared with control (a-c). Scale bars 100 µm (a- b). Statistical analysis shows the decreased crown height in the *Fubp1* knock-down tooth compared with the control (N=5) (c).



Supplementary Figure S5. Schematic diagram for developmental function of *Fubp1* at cap stage. Purple color indicates expression pattern of *Fubp1* in developing tooth germ at E14. Arrows and blunt arrows indicate the activation and inhibition respectively.

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