Supplementary Table 2. 55 genes associated with tooth agenesis

Gene symbol(s)	Description	OMIM	References
ANOS1	anosmin 1	300836	[1]
ANTXR1	anthrax toxin receptor 1	606410	[2]
AXIN2	axin 2	604025	[3]
BCOR	BCL6 corepressor	300485	[4]
BMP4	bone morphogenetic protein 4	112262	[5, 6]
CHD7	chromodomain helicase DNA binding protein 7	608892	[7]
CLCN7	chloride voltage-gated channel 7	602727	[8]
DKK1	dickkopf WNT signaling pathway inhibitor 1	605189	[9]
DSP	desmoplakin	125647	[10]
EDA	ectodysplasin A	300451	[11]
EDAR	ectodysplasin A receptor	604095	[12]
EDARADD	ectodysplasin A receptor associated via death domain	606603	[13]
EVC1	EvC ciliary complex subunit 1	604831	[14, 15]
EVC2	EvC ciliary complex subunit 2	607261	[16]
FGFR1	fibroblast growth factor receptor 1	136350	[17]
FGFR2	fibroblast growth factor receptor 2	176943	[18]
FOXC1	forkhead box C1	601090	[19]
GLI2	GLI family zinc finger 2	165230	[20]
GLI3	GLI family zinc finger 3	165240	[20]
GREM2	gremlin 2, DAN family BMP antagonist	608832	[21]
GRHL2	grainyhead like transcription factor 2	608576	[22]
IFT122	intraflagellar transport 122	606045	[23]
IFT43	intraflagellar transport 43	614068	[24]
IKBKG	inhibitor of nuclear factor kappa B kinase regulatory subunit gamma	300248	[25]
IRF6	interferon regulatory factor-6	607199	[26]
KCTD1	potassium channel tetramerization domain containing 1	613420	[27]
KDM6A	lysine demethylase 6A	300128	[28, 29]
KMT2D	lysine methyltransferase 2D	602113	[29]
KREMEN1	kringle containing transmembrane protein 1	609898	[30]
LAMA3	laminin subunit alpha 3	600805	[7]
LAMB3	laminin subunit beta 3	150310	[4]
LRP6	LDL receptor related protein 6	603507	[31]
LTBP3	latent transforming growth factor beta binding protein 3	602090	[32]
MSX1	msh homeobox 1	142983	[33]
NFKBIA	NFKB inhibitor alpha	164008	[34]
PAX9	paired box 9	167416	[35]
PITX2	paired like homeodomain 2	601542	[36]

POLR3A	RNA polymerase III subunit A	614258	[37, 38]
POLR3B	RNA polymerase III subunit B	614366	[38]
PTCH1	patched 1	601309	[39]
SIX3	SIX homeobox 3	603714	[40]
SHH	sonic hedgehog signaling molecule	600725	[40]
SMOC2	SPARC related modular calcium binding 2	607223	[41]
TBCE	tubulin folding cofactor E	604934	[42]
TBX22	T-box transcription factor 22	300307	[43]
TGIF1	transforming growth factor beta induced factor homeobox 1	602630	[40]
TGFB3	transforming growth factor beta 3	190230	[6]
TP63	tumor protein p63	603273	[44]
TRAF6	TNF receptor associated factor 6	602355	[45]
TSPEAR	thrombospondin type laminin G domain and EAR repeats	612920	[4]
UBR1	ubiquitin protein ligase E3 component n-recognin 1	605981	[46]
WDR19	WD repeat domain 19	608151	[24]
WDR35	WD repeat domain 35	613602	[24]
WNT10A	Wnt family member 10A	606268	[47]
WNT10B	Wnt family member 10B	601906	[48]

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