

Table S1. Genes involved in limb development and formation

Gene	Name	BTA (ARS-UCD1.2)	Reference(s)
<i>IHH</i>	indian hedgehog signaling molecule	2	https://omia.org/OMIA000006/9031/ ; https://omim.org/entry/112500 ; https://omim.org/entry/607778
<i>NPPC</i>	natriuretic peptide C	2	https://omim.org/entry/600296
<i>SHOX</i>	short stature homeobox	2	https://omia.org/OMIA002013/9796/ ; https://omim.org/entry/312865
<i>ITGA10</i>	integrin subunit alpha 10	3	https://omia.org/OMIA001886/9615/
<i>COL9A2</i>	collagen type IX alpha 2 chain	3	https://omia.org/OMIA001523/9615/ ; https://omim.org/entry/614284
<i>COL11A1</i>	collagen type XI alpha 1 chain	3	https://omim.org/entry/120280
<i>DDR2</i>	discoidin domain receptor tyrosine kinase 2	3	https://omim.org/entry/191311
<i>SLC13A1</i>	solute carrier family 13 member 1	4	https://omia.org/OMIA001400/9940/ ; https://omia.org/OMIA001315/9615/
<i>COL2A1</i>	collagen type II alpha 1 chain	5	https://omia.org/OMIA001926/9823/ ; https://omia.org/OMIA001926/9913/ ; https://omim.org/entry/200610
<i>SUOX</i>	sulfite oxidase	5	https://omia.org/OMIA000059/9913/
<i>EVC2</i>	EvC ciliary complex subunit 2	6	https://omia.org/OMIA000187/9913/ ; https://omim.org/entry/225500
<i>FGFR3</i>	fibroblast growth factor receptor3	6	https://omia.org/OMIA001703/9913/ ; https://omia.org/OMIA001703/9940/ ; https://omim.org/entry/134934
<i>COMP</i>	cartilage oligomeric matrix protein	7	https://omim.org/entry/600310
<i>SLC26A2</i>	solute carrier family 26 member 2	7	https://omim.org/entry/606718
<i>HAPLN1</i>	hyaluronan and proteoglycan link protein 1	7	https://omim.org/entry/115435
<i>NPR2</i>	natriuretic peptide receptor 2	8	https://omim.org/entry/108961
<i>COL10A1</i>	collagen type X alpha 1 chain	9	https://omia.org/OMIA001718/9823/ ; https://omim.org/entry/120110
<i>COL9A1</i>	collagen type IX alpha 1 chain	9	https://omim.org/entry/120210
<i>BMP4</i>	bone morphogenetic protein 4	10	https://omim.org/entry/112262
<i>GREM1</i>	gremlin 1, DAN family BMP antagonist	10	https://omia.org/OMIA001061/9925/ ; https://omim.org/entry/603054
<i>FMN1</i>	formin 1	10	https://omia.org/OMIA001061/9925/ ; https://omim.org/entry/136535
<i>MATN3</i>	matrilin 3	11	https://omim.org/entry/602109
<i>GDF5</i>	growth differentiation factor 5	13	https://omim.org/entry/601146
<i>COL9A3</i>	collagen type IX alpha 3 chain	20	https://omia.org/OMIA001522/9615/ ; https://omim.org/entry/120140
<i>ACAN</i>	aggrecan	21	https://omia.org/OMIA001271/9796/ ; https://omia.org/OMIA001271/9913/ ; https://omia.org/OMIA000702/9031/ ; https://omim.org/entry/155760
<i>COL11A2</i>	collagen type XI alpha 2 chain	23	https://omia.org/OMIA001772/9615/ ; https://omim.org/entry/120290
<i>MOCS1</i>	molybdenum cofactor synthesis 1	23	https://omia.org/OMIA001541/9913/
<i>FGF4</i>	fibroblast growth factor 4	29	https://omia.org/OMIA002133/9615/ ; https://omim.org/entry/164980