



Table S1. Primers used for SYBR Green real-time RT-PCR.

Description (Gene Name)	Primers (Fw, Forward; Rv, Reverse)	bp	Accession Number
<i>Osterix</i> (<i>Sp7</i>)	Fw: 5'-CTCGTCTGACTGCCTGCCTAG-3' Rv: 5'-GCGTGGATGCCTGCCTTGTA-3'	84	NM_130458.3
<i>Collagen 1a1</i> (<i>Col1a1</i>)	Fw: 5'-TGTCCCAACCCCCAAAGAC-3' Rv: 5'-CCCTCGACTCCTACATCTTCTGA-3'	92	NM_007742.3
<i>Osteocalcin</i> (<i>Bglap</i>)	Fw: 5'-CCGGGAGCAGTGTGAGCTTA-3' Rv: 5'-AGGCGGTCTCAAGCCATACT-3'	68	NM_007541.3
<i>Sox9</i> (<i>Sox9</i>)	Fw: 5'-CCTTCAACCTTCCTCACTACAGC-3' Rv: 5'-GGTGGAGTAGAGCCCTGAGC-3'	131	NM_011448.4
<i>Aggrecan</i> (<i>aggrecan</i>)	Fw: 5'-CGCCACTTTCATGACCGAGA-3' Rv: 5'-TCATTCAGACCGATCCACTGGTAG-3'	146	NM_007424.2
<i>Collagen 2a1</i> (<i>Col2a1</i>)	Fw: 5'-CCTCCGTCTACTGTCCACTGA-3' Rv: 5'-ATTGGAGCCCTGGATGAGCA-3'	121	NM_001113515.2
<i>Flk1</i> (<i>Kdr</i>)	Fw: 5'-GGCGGTGGTGACAGTATCTT-3' Rv: 5'-CTCGGTGATGTACACGATGC-3'	198	NM_010612.2
<i>Nkx2.5</i> (<i>Nkx2.5</i>)	Fw: 5'-CAGTGGAGCTGGACAAAGCC-3' Rv: 5'-TAGCGACGGTTCTGGAACCA-3'	217	NM_008700.2
<i>Isl1</i> (<i>Isl1</i>)	Fw: 5'-GCGCTCATGAAGGAGCAACTA-3' Rv: 5'-TGATGCTGCGTTTCTTGTC-3'	103	NM_021459.4
<i>PDGFRα</i> (<i>Pdgfra</i>)	Fw: 5'-TACATCATCCCCCTGCCAGA-3' Rv: 5'-AAGGTTATCCCGAGGAGGCT-3'	270	NM_001083316.2
<i>Meox1</i> (<i>Meox1</i>)	Fw: 5'-GGAAGGAGAGGACAGCCTTC-3' Rv: 5'-CCCTTCACACGTTTCCACTT-3'	178	NM_010791.3
<i>Tbx6</i> (<i>Tbx6</i>)	Fw: 5'-CCTGACTCTCCTGCCACTG-3' Rv: 5'-CCTCTTCACACGGGCATCC-3'	339	NM_011538.2
<i>GAPDH</i> (<i>Gapdh</i>)	Fw: 5'-TGCACCACCAACTGCTTAG-3' Rv: 5'-GGATGCAGGGATGATGTTC-3'	177	NM_001289726.1

Table S2. Primers used for semi-quantitative RT-PCR.

Description (Gene Name)	Primers (Fw, Forward; Rv, Reverse)	bp	Ann Temp	Cycles	Accession Number
<i>Ncam</i> (<i>Ncam1</i>)	Fw: 5'-CTCCCTGCCTCCAACCATCATC-3' Rv: 5'-TCTCGTCATCTTCCTCCTCGTTCTC-3'	359	65 °C	32	NM_001081445.1
<i>Brachyury</i> (<i>T</i>)	Fw: 5'-CCAGCTCTAAGGAACCACCG-3' Rv: 5'-TGTCCACGAGGCTATGAGGA-3'	450	61 °C	36	NM_009309.2
<i>Nanog</i> (<i>Nanog</i>)	Fw: 5'-AGGGTCTGCTACTGAGATGCTCTG-3' Rv: 5'-CAACCACTGGTTTTTCTGCCACCG-3'	363	70 °C	30	NM_028016.3
<i>Oct3/4</i> (<i>Oct3/4</i>)	Fw: 5'-TCTTTCCACCAGGCCCGGCTC-3' Rv: 5'-TGCGGGCGGACATGGGGAGATCC-3'	224	67 °C	35	NM_013633.3

<i>GAPDH</i> (<i>Gapdh</i>)	Fw: 5'-CACCATGGAGAAGGCCGGGG-3' Rv: 5'-GACGGACACATTGGGGGTAG-3'	418	60 °C	26	NM_001289726.1
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Ann Temp: annealing temperature.

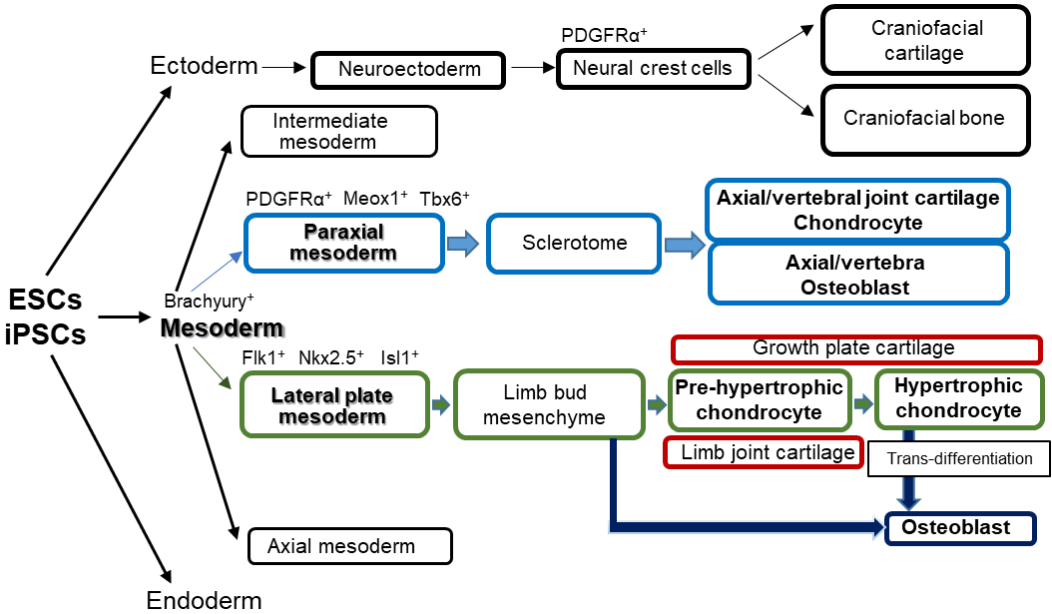


Figure S1. Schematic diagram of establishment of osteoblast and chondrocyte lineages from pluripotent stem cells. The diagram is produced by reference articles [20,35,43].