

**Stem Cell Reports, Volume 14**

**Supplemental Information**

**Expansion of Bone Precursors through Jun as a Novel Treatment for  
Osteoporosis-Associated Fractures**

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## FACS Antibodies

Antigen	Manufacturer	Catalog#	Conjugation	Dilution
CD45	Biologend	103110	Pe-Cy5	1:200
Ter119	eBioscience	15592183	Pe-Cy5	1:200
Tie2	eBioscience	14598785	AF680	1:50
CD51	BD	551187	PE	1:50
CD105	eBioscience	13105185	Biotin	1:50
6c3	Biologend	108312	APC	1:100
CD90.1	eBioscience	47090082	A780	1:100
CD90.2	eBioscience	47090282	A780	1:100
Streptavidin	eBioscience	25431782	Pe-Cy7	1:100
Live			PI	1:400

## Antibodies for immunohistochemistry

Antigen	Manufacturer	Catalog#	Dilution
HRP	abcam	ab205718	1:200
JUN	abcam	ab31419	1:100

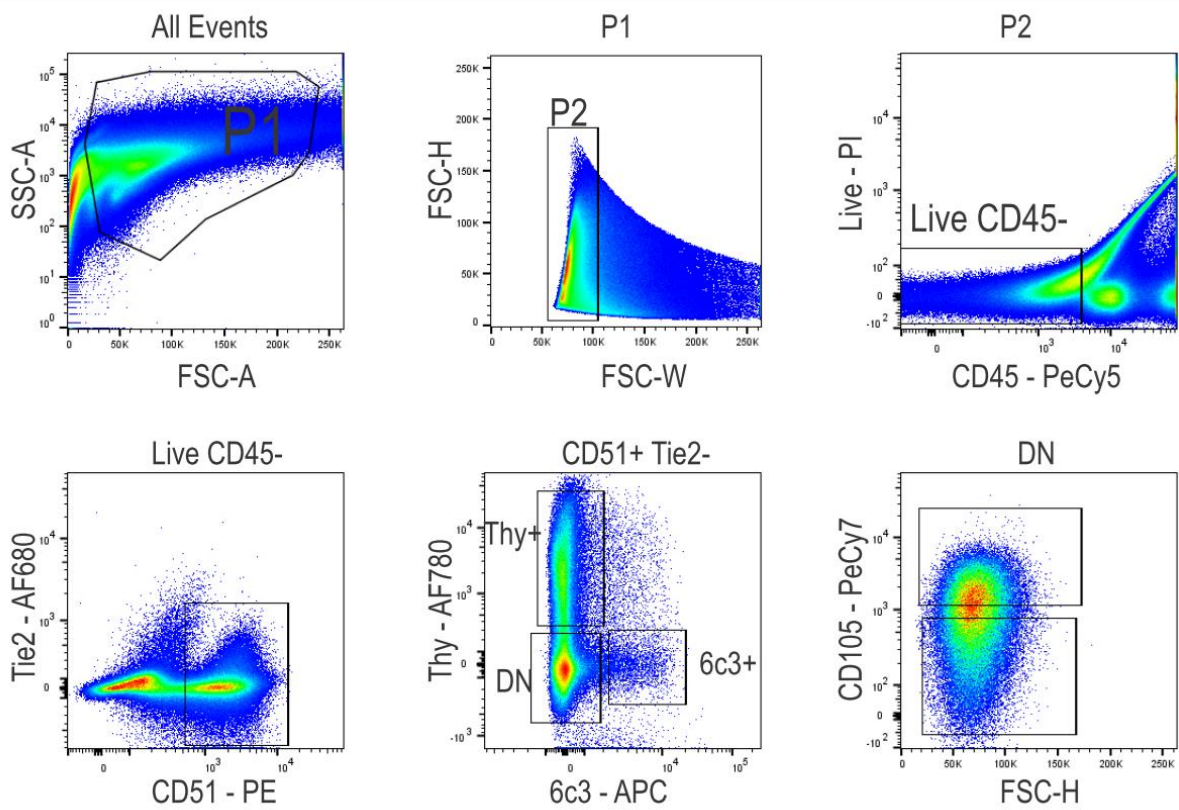
## Primers

Gene	Primer#	Sequence
Rose26	Rosa A	AAAGTCGCTCTGAGTTGTTAT
	Rosa B	GCGAAGAGTTTGTCTCAACC
	Rosa C	GGAGCGGGAGAAATGGATATG
Jun	ColA	GCACAGCATTGCGGACATGC
	ColB	CCCTCCATGTGTGACCAAGG
	ColC	GCAGAAGCGCGGCCGTCTGG
Cre	Osx1	GCAGCCTTCCAGAAGCAGAGC
	Osx2	GCTGTCACTTGGTCGTGGCA
	Osx3	TGCCACGACCAAGTGACAGC
	Osx4	CCAGGTTACGGATATAGTTCATG

## Accession numbers

Gene	GenBank#	Accession#
mJUN	CM000219.2	CM000219

Supplementary Table 1. Antibodies and primer related to figures 1, 2, and 3.



Supplementary Figure 1. Gating strategy for osteoprogenitors.