

**Table S1. DataSets from GEO**

Cell Line	GEO Accession	Experiment Summary	Samples	No.
<b>Primary Early Osteoblast (EOB)</b>	GSE2332	Profiling FACS Sorted Calvarial Osteoblast Cultures: Day 7 (pOBCol3.6GFP) and Day 17 (pOBCol2.3GFP)	Cells were grown in DMEM/10%FCS for 7 days, media exchanged on day 2 and day 5.	3
<b>Primary Late Osteoblast (LOB)</b>	GSE2332	Profiling FACS Sorted Calvarial Osteoblast Cultures: Day 7 (pOBCol3.6GFP) and Day 17 (pOBCol2.3GFP)	From day 7 cells were grown in presence of Asc acid and bGP until day17	3
<b>MC3T3</b>	GDS679	Response of calvarial MC3T3-1b cells to osteogenic stimulus (beta-glycerophosphate (GP), ascorbic acid (AA) and bone morphogenic protein 2 (BMP-2)) for 0, 1 and 3 days. Notch, Wnt and TGF- $\beta$ signaling pathways are activated in osteogenesis.	Day0	3
<b>APC Dendritic Cell</b>	GSE702	the gene expression repertoire of antigen presenting dendritic cells	FLT3+/CD11b+ Dendritic cell (DC) progenitor-sample2	5
<b>Osteoclast</b>	GDS766	Analysis of the role of c-Fos and Nfat in osteoclastogenesis by expression profiling of osteoclastogenic splenocytes lacking c-Fos but with an active Nfatc4. Active Nfatc4 introduced into cells by retroviral gene transfer. Osteoclastogenesis restored by active Nfatc4 in splenocytes lacking c-Fos.	Fos+/+ bone-marrow derived osteoclastogenic co-culture	1
<b>Macrophage</b>	GDS325	Bone marrow-derived macrophages from mice that had received fetal liver cells from SOCS3+/+ or SOCS3-/- embryos analyzed. Macrophages either unstimulated, or stimulated for 100 or 400 minutes with 10 ng/ml IL-6.	wt bone marrow-derived macrophages	2
<b>C3H10T1/2</b>	GDS951	Analysis of differentiated C3H10T1/2 fibroblasts treated with 10 nM 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) and/or 10 nM EGF. Prior to treatment, cells induced to differentiate into adipocytes with IDMB hormone. EGF increases effectiveness of TCDD in suppressing hormone-induced adipogenesis.	untreated C3H10T1/2 mesenchymal stem cell line	3
<b>mFibroblast</b>	GDS405	Examination of genes induced during the integrated stress response (ISR). ISR induced by tunicamycin or AP20187 in fibroblasts carrying mutations in ATF4 and PERK (ISR signaling molecules), and in eIF2alpha mutant or wildtype PERK-expressing fibroblasts.	WT mouse fibroblast cell line	4
<b>T Cell</b>	GDS237	Examination of highly purified, ex vivo isolated thymic T cell precursors. Expression profiles of consecutive stages of thymocyte development.	all	41
<b>B Cell</b>	GDS44	Gene expression profiles of five consecutive stages of B cell development. Flow-cytometrically purified or ex vivo-isolated cells examined.	all	28
<b>NIH3T3</b>	GDS767	Analysis of gene expression in NIH3T3 overexpressing RNA-dependent serine/threonine protein kinase (PKR) controlled by a tetracycline repressible promoter.	all	2