

Supplemental Table 3. Gene sets enriched in irradiated Oct-1 deficient vs. normal primary MEFs using Gene Set Enrichment Analysis (GSEA)

Symbol; Gene title	Probeset	Accession	Rank in Gene list	Rank enrichment score
Set 1. Reactive oxygen species (up-regulated in mutant)				
Normalized enrichment score=1.65; P-value=<10⁻³				
Prdx2; peroxiredoxin 2	1430979_a_at	AK011963	4	0.3794
Gpx3; glutathione peroxidase 3	1449106_at	NM_008161	56	0.4891
Sepp1; selenoprotein P, plasma, 1	1452141_a_at	BC001991	85	0.5821
Aox1; aldehyde oxidase	1419435_at	NM_009676	218	0.6417
Set 2. p53 down-regulated (down-regulated in mutant)				
Normalized enrichment score=-1.61; P-value=0.028				
Col18a1; procollagen, type XVIII, alpha 1	1418237_s_at	NM_009929	22335	0.0156
Cdc6; cell division cycle 6 homolog	1417019_a_at	NM_011799	22102	-0.1213
Col18a1; procollagen, type XVIII, alpha 1	1426955_at	D17546	21955	-0.2317
Fosl2; fos-like antigen 2	1422931_at	NM_008037	21299	-0.3076
Apba2; amyloid beta (A4) precursor protein-binding, family A, member 2	1427288_at	BE952331	20525	-0.3488
Pura; purine rich element binding protein A	1449934_at	NM_008989	20251	-0.3946
Ppat; Phosphoribosyl pyrophosphate amidotransferase	1428543_at	AV305746	19664	-0.4219
Slc19a1; solute carrier family 19 (sodium/hydrogen exchanger), member 1	1448132_at	NM_031196	19252	-0.4486

Additional explanatory material is present at <http://www.broad.mit.edu/gsea>