

Supplementary Table S5. Genes up regulated by OxR with a fold change > 1.25 and p<0.01

Gene symbol	Gene name	FC	P value
Response to OxR			
<i>Alas2</i>	Aminolevulinic acid synthase 2, erythroid	2.1	0.0013
<i>Ankrd37</i>	Ankyrin repeat domain 37	1.6	0.0008
<i>Beta-s</i>	Hemoglobin subunit beta-1-like	2.1	0.0009
<i>Chrdl1</i>	Chordin-like 1	1.9	0.0017
<i>Cish</i>	Cytokine inducible SH2-containing protein	1.7	0.0094
<i>Edn1</i>	Endothelin 1	1.3	0.0067
<i>Gm5226</i>		2	0.0007
<i>Hba-a1</i>	Hemoglobin alpha, adult chain 1	1.9	0.0045
<i>Hba-a2</i>	Hemoglobin alpha, adult chain 2	1.9	0.0073
<i>Hbb-b1</i>	Hemoglobin, beta adult major chain	2	0.0017
<i>Hbb-b2</i>	Hemoglobin, beta adult minor chain	1.9	0.0005
<i>Slc25a37</i>	Solute carrier family 25, member 37	1.3	0.0003
<i>Slc4a1</i>	Solute carrier family 4 (anion exchanger), member 1	1.5	0.0006
Signalling			
<i>1300014I06Rik</i>	PX domain containing 1	1.4	0.0020
<i>Enc1</i>	Ectodermal-neural cortex 1	1.3	0.0087
<i>Hic1</i>	Hypermethylated in cancer 1	1.3	0.0042
<i>Htra3</i>	HtrA serine peptidase 3	1.4	0.0076
<i>Ras16</i>	Regulation of G-protein signalling 16	1.3	0.0082
<i>Tmem198</i>	Transmembrane protein 198	1.3	0.0021
Adipocyte cytoskeleton and matrix proteins			
<i>Has2</i>	Hyaluronan synthase 2	1.3	0.0095
<i>St6galnac5</i>	ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl	1.5	0.0044
<i>Zdhhc22</i>	Zinc finger, DHCC-type containing 22	2.1	0.0013
<i>Tubb3</i>	Tubulin, beta 3 class III	1.4	0.0049
Inflammation			
<i>Darc</i>	Duffy blood group, chemokine receptor	1.3	0.0008
<i>Fam46c</i>	Family with sequence similarity 46, member C	1.4	0.0070
<i>Tnfsf9</i>	Tumor necrosis factor (ligand) superfamily, member C	1.3	0.0091
Oxidative stress defence			
<i>Gstm1</i>	Gluthathione S-transferase, mu 1	1.5	0.0023
<i>Gstm4</i>	Gluthathione S-transferase, mu 4	1.4	0.0024
Miscellaneous			
<i>Gnat2</i>	Guanine nucleotide binding protein, alpha transducing 2	1.3	0.0058
<i>Prpf4b</i>	PRP4 pre-mRNA processing factor 4 homolog B (yeast)	1.3	0.0026
Unknown			
<i>2700081O15Rik</i>		1.3	0.0084
<i>4930415C11Rik</i>		1.4	0.0013
<i>chr1:107866276-107887102 R</i>		1.3	0.0059
<i>chr8:106037800-106070025 F</i>		1.3	0.0044
<i>chr8:74431707-74442440 F</i>		1.3	0.0008
<i>chr10:69819062-69871640 F</i>		1.3	0.0052
<i>chr14:28218945-28241903 R</i>		1.3	0.0019
<i>chr17:47006033-47023558 R</i>		1.3	0.0020
<i>Ensmust00000073543</i>		1.3	0.0066
<i>Fam171b</i>		1.3	0.0076
<i>Gm10447</i>		1.3	0.0021
<i>Gm16516</i>		1.3	0.0005
<i>Gm9992</i>		1.7	0.0001

Processes are shown in the order as presented in Figure 3. Categorized transcripts per process were subsequently sorted based on alphabetical order.