

Supplemental Table 3. List of genes highly susceptible to epigenetic dysregulation (3 months of age).

Category	H3K27me3 (log2 fold)	Gene expression (log2 fold change)		Category	H3K27me3 (log2 fold)	Gene expression (log2 fold change)	
Gene	E12KO /WT	E12KO /WT	*P	Gene	E12KO /WT	E12KO /WT	*P
<b>Cyp2a4</b>	-2.115	7.976	0.001	<b>Ptp4a3</b>	-0.828	1.524	0.001
<b>Cyp2b13</b>	-2.112	4.745	0.001	<b>Selm</b>	-0.824	1.899	0.001
<b>Scd2</b>	-2.107	3.080	0.001	<b>Nck2</b>	-0.759	1.361	0.001
<b>Cotl1</b>	-2.094	0.885	0.001	<b>Tmem86a</b>	-0.749	1.476	0.001
<b>Cyp2b9</b>	-1.838	7.157	0.001	<b>Meis1</b>	-0.714	1.240	0.001
<b>Cyp2c69</b>	-1.823	3.539	0.001	<b>Rgs2</b>	-0.709	1.803	0.001
<b>Cyp3a44</b>	-1.813	4.045	0.001	<b>Rnf145</b>	-0.691	0.855	0.001
<b>Hao2</b>	-1.757	7.254	0.001	<b>Src</b>	-0.681	1.613	0.001
<b>Oxct1</b>	-1.569	1.670	0.001	<b>Tead1</b>	-0.627	1.432	0.001
<b>Prex1</b>	-1.525	1.412	0.001	<b>Tspan17</b>	-0.600	1.333	0.003
<b>Cyp2c40</b>	-1.512	3.919	0.001	<b>Smoc2</b>	-1.048	1.042	0.003
<b>Add3</b>	-1.500	0.878	0.001	<b>Tnfaip8</b>	-0.867	1.007	0.005
<b>Me2</b>	-1.403	1.411	0.001	<b>Ssbp4</b>	-1.626	1.037	0.006
<b>Sult2a2</b>	-1.392	4.937	0.001	<b>Slc1a5</b>	-1.761	1.034	0.007
<b>Wtip</b>	-1.348	1.416	0.001	<b>Tsc22d4</b>	-0.591	0.766	0.010
<b>Adrb2</b>	-1.311	2.269	0.001	<b>Dleu2</b>	-0.855	0.865	0.015
<b>Slc25a4</b>	-1.286	3.301	0.001	<b>Apol10a</b>	-0.719	3.343	0.022
<b>Gbp7</b>	-1.256	0.959	0.001	<b>Hsd3b1</b>	-1.936	4.242	0.025
<b>Ctgf</b>	-1.144	2.027	0.001	<b>Ezr</b>	-1.287	0.670	0.027
<b>Krt23</b>	-1.083	3.499	0.001	<b>A1bg</b>	-1.729	6.160	0.055
<b>Coll1a2</b>	-1.021	1.534	0.001	<b>Fam70a</b>	-0.616	3.725	0.059
<b>Gbp3</b>	-1.019	1.611	0.001	<b>Rhoc</b>	-1.060	0.582	0.062
<b>Ppic</b>	-0.930	2.035	0.001	<b>Anxa2</b>	-1.365	0.512	0.068
<b>Setd7</b>	-0.887	1.017	0.001	<b>Pld1</b>	-1.108	0.529	0.088
<b>Golm1</b>	-0.860	1.476	0.001	<b>Sult2a1</b>	-2.267	6.611	0.521
<b>Fads3</b>	-0.834	1.495	0.001				

\* FDR-adjusted *P*-value by Cuffdiff