

Table 2. Genes down-regulated in *Parp-1*^{-/-} ES cells

Accession No.	Fold change ^{a)}			Symbol	Chromosome	Gene description
	W vs H	J1 vs 210-58	J1 vs 226-47			
Cell cycle/cell proliferation/cell death						
AW122355	3.2	5.2	2.3	<i>Prkcbp1</i>	2	Protein kinase C binding protein 1
AF067395	2.9	2.9	2.9	<i>Bnip3l</i>	14	BCL2/adenovirus E1B 19kDa-interacting protein
AI842277	2.7	2.3	3.2	<i>Igfbp3</i>	11	Insulin-like growth factor binding protein 3
U95826	2.2	2.5	1.9	<i>Ccng2</i>	5	Cyclin G2
Cell structure/cell adhesion						
U16741	4.1	6.3	3.1	<i>Capza2</i>	6	Capping protein (actin filament) muscle Z-line, alpha 2
AI132380	3.6	3.1	4.3	<i>Fndc3a</i>	14	Fibronectin type III domain containing 3a
AI505453	2.9	2.5	3.4	<i>Myh9</i>	15	Myosin, heavy polypeptide 9, non-muscle
AW208938	2.4	3.2	2.0	<i>Pkp2</i>	16	Plakophilin 2
M76124	2.4	2.2	2.6	<i>Tacstd1</i>	17	Tumor-associated calcium signal transducer 1
Metabolism						
U73820	5.5	5.2	5.8	<i>Galnt1</i>	18	Polypeptide GalNAc transferase-T1 (ppGaNTase-T1)
AI841270	3.4	2.4	6.4	<i>Gstm1</i>	3	Glutathione S-transferase, mu 1
AV308550	2.6	4.1	1.9	<i>Piga</i>	x	Phosphatidylinositol glycan, class A
AI851912	2.3	2.2	2.5	<i>Rps27</i>	3	Ribosomal protein S27
AI852144	2.1	2.9	1.7	<i>Pbep-pending</i>	12	Pre-B-cell colony-enhancing factor
U65986	2.1	1.9	2.5	<i>Anxa11</i>	14	Annexin A11
D50264	2.1	1.4	4.1	<i>Pigf</i>	17	Phosphatidylinositol glycan, class F
AF031486	2.0	2.0	2.0	<i>Sms</i>	x	Spermidine synthase
AI845882	2.0	2.5	1.7	<i>Acyp1</i>	12	Acylphosphatase1, erythrocyte (common) type
Protein biosynthesis/degradation						
AI852581	3.0	3.0	3.1	<i>Ide</i>	19	Insulin degrading enzyme
AI414051	3.0	1.8	9.1	<i>Usp24</i>	4	Ubiquitin specific protease 24
AW121012	2.9	2.8	2.8	<i>Rnf19</i>	15	Ring finger protein 19
X92665	2.9	2.5	3.4	<i>Ube2e1</i>	14	Ubiquitin-conjugating enzyme UbcM3
AW048882	2.2	2.8	1.8	<i>Iars</i>	13	Isoleucine-tRNA synthetase
AA867340	2.2	1.9	2.6	<i>Psme4</i>	11	Proteasome (prosome, macropain) activator subunit
AB024427	2.2	2.3	2.1	<i>Rnf11</i>	4	Ring finger protein 11
Signaling						
AI846023	4.6	2.8	13.1	<i>Arl7</i>	1	ADP-ribosylation factor-like 7
AA260005	2.8	2.7	2.8	<i>Pawr</i>	10	PPKC, apoptosis, WT1, regulator
AI317205	2.6	2.4	2.7	<i>Map3k1</i>	13	Mitogen activated protein kinase kinase kinase 1
AF035644	2.3	2.0	2.7	<i>Ptp4a2</i>	4	Protein tyrosine phosphatase 4a2
M21019	2.3	1.9	2.9	<i>Rras</i>	7	Harvey rat sarcoma oncogene, subgroup R
AI194248	2.2	2.5	1.9	<i>Csnk2a1</i>	2	Casein kinase II, alpha 1 polypeptide
AI854006	2.0	2.0	2.1	<i>Set</i>	2	SET translocation
D83921	2.0	1.9	2.1	<i>Ebaf</i>	1	Endometrial bleeding associated factor
Transcription/replication						
X14206	9.9	8.4	12.0	<i>Adprt1</i>	1	Poly(ADP-ribose) polymerase 1
M99167	3.0	6.2	2.0	<i>Hnrpa1</i>	15	Heterogeneous nuclear ribonucleoprotein A1
AW107922	2.8	3.7	2.2	<i>Sox11</i>	12	SRY-containing gene 11
AI849135	2.5	2.5	2.5	<i>Foxo3a</i>	10	Forkhead box 03a
Y07836	2.5	2.3	2.8	<i>Bhlhb2</i>	6	Basic-helix-loop-helix domain containing, class B2
X74760	2.5	2.3	2.7	<i>Notch3</i>	17	Notch gene homolog 3, (Drosophila)
AI447783	2.1	2.4	1.9	<i>Helb</i>	10	Helicase (DNA) B
X94694	2.1	2.7	1.7	<i>Tcfap2c</i>	2	Transcription factor AP-2, gamma
AF077861	2.1	2.2	2.1	<i>Id2</i>	12	Inhibitor of DNA binding 2
AI605405	2.0	1.9	2.2	<i>Phf13</i>	4	PHD finger protein 13
D78382	2.0	1.7	2.6	<i>Tob1</i>	11	Transducer of ErbB2.1
Transport						
AV356315	4.1	5.5	3.3	<i>Lman1</i>	18	Lectin, mannose-binding, 1
AV298789	2.9	2.6	3.2	<i>Ranbp5</i>	14	Ran binding protein 5
D88315	2.2	2.2	2.2	<i>Hiat1</i>	3	Hippocampus abundant gene transcript 1
Unknown						
AI845617	3.5	3.5	3.4	<i>2610019A05Rik</i>	11	Hypothetical protein
AI852287	3.2	3.3	3.2	<i>Ankrd28</i>	14	Ankyrin repeat domain 28
AI836771	3.0	2.8	3.3	<i>2900008M13Rik</i>	15	Unknown EST
AA684456	2.9	2.1	4.5	<i>2310015N07Rik</i>	7	Hypothetical protein
AI848435	2.8	1.9	4.8	<i>C78339</i>	13	Unknown EST
AW123157	2.7	2.5	3.1	<i>1700051E09Rik</i>	11	Hypothetical protein
AW124843	2.6	3.1	2.3	<i>C85108</i>	4	Unknown EST
AA710439	2.6	2.0	3.6	<i>6230421P05Rik</i>	16	Unknown EST
AI853444	2.5	1.8	3.9	<i>2610042L04Rik</i>	14	Hypothetical protein
AI853444	2.2	2.1	2.3	<i>2610042L04Rik</i>	14	Hypothetical protein
AW121353	2.1	1.6	3.1	<i>Lrrc8</i>	2	Luciferin rich repeat containing 8
AI037493	2.1	1.5	3.4	<i>Tbc1d15</i>	10	TBC1 domain family, member 15
AI461803	2.1	2.2	1.9	<i>1300006C19Rik</i>	9	Hypothetical protein
AW049969	2.0	2.0	2.1	<i>C330005L02Rik</i>	9	Hypothetical protein
AI847483	2.0	2.0	2.0	<i>Tmem41b</i>	7	Transmembrane protein 41B

^{a)}W, wild-type cells (J1); H, *Parp-1*^{-/-} ES cells (210-58 and 226-47).