

Supplementary Table S2. Differentially regulated genes in SUM149PT overexpressing EN1.

GENES UP-REGULATED			
GENE ID	GENE SYMBOL	FOLD CHANGE	GENE NAME
2570	GABRR2	6.2985	gamma-aminobutyric acid (GABA) receptor, rho 2
6373	CXCL11	5.3025	chemokine (C-X-C motif) ligand 11
11082	ESM1	5.2902	endothelial cell-specific molecule 1
1437	CSF2	5.1778	colony stimulating factor 2 (granulocyte-macrophage)
84674	CARD6	5.1515	caspase recruitment domain family, member 6
5473	PPBP	4.8810	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)
969	CD69	4.8182	CD69 molecule
140690	CTCFL	3.9577	CCCTC-binding factor (zinc finger protein)-like
5328	PLAU	3.9267	plasminogen activator, urokinase
26053	AUTS2	3.7451	autism susceptibility candidate 2
29785	CYP2S1	3.7201	cytochrome P450, family 2, subfamily S, polypeptide 1
51561	IL23A	3.5431	interleukin 23, alpha subunit p19
4907	NT5E	3.5105	5'-nucleotidase, ecto (CD73)
3170	FOXA2	3.4862	forkhead box A2
3885	KRT34	3.4172	keratin 34
3037	HAS2	3.3519	hyaluronan synthase 2
151254	ALS2CR11	3.3273	amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 11
3641	INSL4	3.3211	insulin-like 4 (placenta)
6447	SCG5	3.2868	secretogranin V (7B2 protein)
79589	RNF128	3.2577	ring finger protein 128
118429	ANTXR2	3.1932	anthrax toxin receptor 2
53836	GPR87	3.1492	G protein-coupled receptor 87
54627	KIAA1383	3.1449	KIAA1383
7850	IL1R2	3.1347	interleukin 1 receptor, type II
6372	CXCL6	3.0234	chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)
1009	CDH11	2.9554	cadherin 11, type 2, OB-cadherin (osteoblast)
84419	C15orf48	2.9349	chromosome 15 open reading frame 48
5744	PTH1H	2.9316	parathyroid hormone-like hormone
50486	G0S2	2.9201	G0/G1switch 2
81029	WNT5B	2.8879	wingless-type MMTV integration site family, member 5B
57214	KIAA1199	2.8845	KIAA1199
3589	IL11	2.8745	interleukin 11
4674	NAP1L2	2.8603	nucleosome assembly protein 1-like 2
55107	ANO1	2.8547	anoctamin 1, calcium activated chloride channel
149111	CNIH3	2.8448	cornichon homolog 3 (Drosophila)
114801	TMEM200A	2.8076	transmembrane protein 200A

1305	COL13A1	2.7352	collagen, type XIII, alpha 1
29126	CD274	2.7201	CD274 molecule
6567	SLC16A2	2.7038	solute carrier family 16, member 2 (monocarboxylic acid transporter 8)
3576	IL8	2.6882	interleukin 8
53831	GPR84	2.6858	G protein-coupled receptor 84
4688	NCF2	2.6721	neutrophil cytosolic factor 2
139411	PTCHD1	2.6565	patched domain containing 1
64648	SPANXD	2.6329	SPANX family, member E; SPANX family, member D
11174	ADAMTS6	2.6027	ADAM metalloproteinase with thrombospondin type 1 motif, 6
4153	MBL2	2.5767	mannose-binding lectin (protein C) 2, soluble (opsonic defect)
151258	SLC38A11	2.5524	solute carrier family 38, member 11
6351	CCL4	2.5140	chemokine (C-C motif) ligand 4
84189	SLITRK6	2.5053	SLIT and NTRK-like family, member 6
8862	APLN	2.4967	apelin
5055	SERPINB2	2.4938	serpin peptidase inhibitor, clade B (ovalbumin), member 2
57829	ZP4	2.4880	zona pellucida glycoprotein 4
80215	C21orf96	2.4817	chromosome 21 open reading frame 96
3157	HMGCS1	2.4794	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 1 (soluble)
203859	ANO5	2.4774	anoctamin 5
57458	TMCC3	2.4594	transmembrane and coiled-coil domain family 3
51066	C3orf32	2.4509	chromosome 3 open reading frame 32
64663	SPANXC	2.4504	SPANX family, member C
3689	ITGB2	2.4116	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)
27147	DENND2A	2.3977	DENN/MADD domain containing 2A
558	AXL	2.3894	AXL receptor tyrosine kinase
64232	MS4A5	2.3743	membrane-spanning 4-domains, subfamily A, member 5
185	AGTR1	2.3620	angiotensin II receptor, type 1
639	PRDM1	2.3620	PR domain containing 1, with ZNF domain
54796	BNC2	2.3349	basonuclin 2
3294	HSD17B2	2.3107	hydroxysteroid (17-beta) dehydrogenase 2
5999	RGS4	2.2947	regulator of G-protein signaling 4
22822	PHLDA1	2.2815	pleckstrin homology-like domain, family A, member 1
256979	SUNC1	2.2799	Sad1 and UNC84 domain containing 1
1026	CDKN1A	2.2789	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
9915	ARNT2	2.2579	aryl-hydrocarbon receptor nuclear translocator 2
26585	GREM1	2.2527	gremlin 1, cysteine knot superfamily, homolog (<i>Xenopus laevis</i>)
9173	IL1RL1	2.2475	interleukin 1 receptor-like 1
3932	LCK	2.2460	lymphocyte-specific protein tyrosine kinase
64407	RGS18	2.2405	regulator of G-protein signaling 18
283316	CD163L1	2.2243	CD163 molecule-like 1
1308	COL17A1	2.2243	collagen, type XVII, alpha 1

344558	SH3RF3	2.2232	SH3 domain containing ring finger 3
4314	MMP3	2.2199	matrix metalloproteinase 3 (stromelysin 1, progelatinase)
84364	ARFGAP2	2.2076	ADP-ribosylation factor GTPase activating protein 2
7122	CLDN5	2.2038	claudin 5
144406	WDR66	2.1987	WD repeat domain 66
3936	LCP1	2.1987	lymphocyte cytosolic protein 1 (L-plastin)
23209	MLC1	2.1873	megalencephalic leukoencephalopathy with subcortical cysts 1
220	ALDH1A3	2.1785	aldehyde dehydrogenase 1 family, member A3
56131	PCDHB4	2.1772	protocadherin beta 4
7422	VEGFA	2.1660	vascular endothelial growth factor A
7462	LAT2	2.1610	linker for activation of T cells family, member 2
6751	SSTR1	2.1550	somatostatin receptor 1
57580	PREX1	2.1497	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1
7429	VIL1	2.1460	villin 1
157310	PEBP4	2.1455	phosphatidylethanolamine-binding protein 4
29881	NPC1L1	2.1411	NPC1 (Niemann-Pick disease, type C1, gene)-like 1
11009	IL24	2.1356	interleukin 24
23743	BHMT2	2.1214	betaine-homocysteine methyltransferase 2
272	AMPD3	2.1165	adenosine monophosphate deaminase (isoform E)
8876	VNN1	2.1116	vanin 1
284467	FAM19A3	2.1116	family with sequence similarity 19 (chemokine (C-C motif)-like), member A3
256691	MAMDC2	2.1094	MAM domain containing 2
1960	EGR3	2.0888	early growth response 3
10242	KCNMB2	2.0869	potassium large conductance calcium-activated channel, subfamily M, beta member 2
93953	ACRC	2.0818	acidic repeat containing
27071	DAPP1	2.0753	dual adaptor of phosphotyrosine and 3-phosphoinositides
5053	PAH	2.0724	phenylalanine hydroxylase
256076	COL29A1	2.0722	collagen, type XXIX, alpha 1
84953	MICALCL	2.0610	MICAL C-terminal like
2335	FN1	2.0562	fibronectin 1
9582	APOBEC3B	2.0491	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B
23090	ZNF423	2.0477	zinc finger protein 423
164668	APOBEC3H	2.0477	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3H
6580	SLC22A1	2.0430	solute carrier family 22 (organic cation transporter), member 1
56953	NT5M	2.0359	5',3'-nucleotidase, mitochondrial
80380	PDCD1LG2	2.0350	programmed cell death 1 ligand 2
881	CCIN	2.0296	calicin
374918	IGFL1	2.0246	IGF-like family member 1
8647	ABCB11	2.0228	ATP-binding cassette, sub-family B (MDR/TAP), member 11

2828	GPR4	2.0162	G protein-coupled receptor 4
122786	FRMD6	2.0139	FERM domain containing 6
200150	PLD5	2.0104	phospholipase D family, member 5
1901	S1PR1	2.0093	sphingosine-1-phosphate receptor 1
90576	ZNF799	2.0056	zinc finger protein 799
91120	ZNF682	2.0046	zinc finger protein 682
GENES DOWN REGULATED			
GENE ID	GENE SYMBOL	FOLD CHANGE	GENE NAME
51438	MAGEC2	0.1109	melanoma antigen family C, 2
4948	OCA2	0.2298	oculocutaneous albinism II
26223	FBXL21	0.2321	F-box and leucine-rich repeat protein 21
143662	MUC15	0.2393	mucin 15, cell surface associated
5179	PENK	0.2576	proenkephalin
8424	BBOX1	0.2719	butyrobetaine (gamma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1
64881	PCDH20	0.2835	protocadherin 20
9627	SNCAIP	0.2914	synuclein, alpha interacting protein
1580	CYP4B1	0.2946	cytochrome P450, family 4, subfamily B, polypeptide 1
22914	KLRK1	0.2951	killer cell lectin-like receptor subfamily K, member 1

Genes listed are those with a more than 2-fold change either up- or down-regulated.