

Supplementary Table 1

18S rRNA

forward; 5'-ATGCTCTTAGCTGAGTGTCCCG-3'

reverse; 5'-ATTCCTAGCTGCGGTATCCAGG-3'

hnRNP A2/B1

forward; 5'-GCTGTAGCAAGAGAGGAATCTGGA-3'

reverse; 5'-GCTTCTTCACAGTTACATGAGCCC-3'

hnRNP A1

forward; 5'-TTTGACGACCATGACTCCGTG-3'

reverse; 5'-ACTTCGACCTCTTTGGCTGGA-3'

fibronectin

forward; 5'-CCCAACTGGCATTGACTTTT-3'

reverse; 5'-CTCGAGGTCTCCCACTGAAG-3'

E-cadherin

forward; 5'-CGGGAATGCAGTTGAGGATC-3'

reverse; 5'-AGGATGGTGTAAGCGATGGC-3'

Snai1

forward; 5'-ACCACTATGCCGCGCTCTT-3'

reverse; 5'-GGTCGTAGGGCTGCTGGAA-3'

Twist

forward; 5'-TGTCCGCGTCCCACTAGC-3'

reverse; 5'-TGTCCATTTTCTCCTTCTCTGGA-3'

ZEB1

forward; 5'-AGCAGTGAAAGAGAAGGGAATGC-3'

reverse; 5'-GGTCCTCTTCAGGTGCCTCAG-3'

Primers for 18s rRNA, hnRNP A2/B1, hnRNP A1 and fibronectin were designed using Primer Express Software for Real-Time PCR (Applied Biosystems).

E-Cadherin [1], Snai1 [2], Twist [3], ZEB1 [4] primers sequences were obtained from published reports.

1. Wang, X., et al., *Kruppel-like factor 8 induces epithelial to mesenchymal transition and epithelial cell invasion*. Cancer Res, 2007. **67**(15): p. 7184-93.
2. Medici, D., E.D. Hay, and B.R. Olsen, *Snail and Slug promote epithelial-mesenchymal transition through beta-catenin-T-cell factor-4-dependent expression of transforming growth factor-beta3*. Mol Biol Cell, 2008. **19**(11): p. 4875-87.
3. Rosivatz, E., et al., *Differential expression of the epithelial-mesenchymal transition regulators snail, SIP1, and twist in gastric cancer*. Am J Pathol, 2002. **161**(5): p. 1881-91.
4. Clarhaut, J., et al., *ZEB-1, a repressor of the semaphorin 3F tumor suppressor gene in lung cancer cells*. Neoplasia, 2009. **11**(2): p. 157-66.

Supplementary Table 2 (1/5)

	A549 siA - A549 EV	fold change	ID	Symbol	Entrez Gene Name
1	-4.69	-25.78	201650_at	KRT19	keratin 19
2	-3.20	-9.19	227623_at	CACNA2D1	calcium channel, voltage-dependent, subunit alpha-2/delta-1
3	-2.68	-6.41	202833_s_at	SERPINA1	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1
4	-2.64	-6.23	201667_at	GJA1	gap junction protein, alpha 1, 43kDa
5	-2.50	-5.64	207057_at	SLC16A7	solute carrier family 16, member 7 (monocarboxylic acid transporter 2)
6	-2.46	-5.51	1563933_a_at	PLD5	phospholipase D family, member 5
7	-2.46	-5.50	203999_at	SYT1	synaptotagmin I
8	-2.28	-4.85	1555123_at	ST6GAL2	ST6 beta-galactosamide alpha-2,6-sialyltransferase 2
9	-2.21	-4.62	227478_at	SETBP1	SET binding protein 1
10	-2.19	-4.57	218718_at	PDGFC	platelet derived growth factor C
11	-2.19	-4.55	209909_s_at	TGFB2	transforming growth factor, beta 2
12	-2.11	-4.32	212607_at	AKT3	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
13	-2.11	-4.32	211719_x_at	FN1	fibronectin 1
14	-2.09	-4.26	204112_s_at	HNMT	histamine N-methyltransferase
15	-2.07	-4.21	226743_at	SLFN11	schlafen family member 11
16	-2.05	-4.15	216623_x_at	TOX3	TOX high mobility group box family member 3
17	-1.94	-3.82	203895_at	PLCB4	phospholipase C, beta 4
18	-1.81	-3.52	213240_s_at	KRT4	keratin 4
19	-1.81	-3.51	206002_at	GPR64	G protein-coupled receptor 64
20	-1.79	-3.45	204105_s_at	NRCAM	neuronal cell adhesion molecule
21	-1.78	-3.43	221577_x_at	GDF15	growth differentiation factor 15
22	-1.77	-3.40	219795_at	SLC6A14	solute carrier family 6 (amino acid transporter), member 14
23	-1.75	-3.37	227253_at	CP	ceruloplasmin (ferroxidase)
24	-1.73	-3.32	204036_at	LPAR1	lysophosphatidic acid receptor 1
25	-1.72	-3.29	209031_at	CADM1	cell adhesion molecule 1
26	-1.67	-3.18	237435_at	DKK1	Dickkopf-related protein 1
27	-1.65	-3.14	203799_at	CD302	CD302 molecule
28	-1.65	-3.14	238877_at	EYA4	eyes absent homolog 4 (Drosophila)
29	-1.65	-3.14	209993_at	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1
30	-1.56	-2.95	225932_s_at	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1
31	-1.55	-2.93	1556638_at	PAX7	paired box 7
32	-1.53	-2.89	232060_at	ROR1	receptor tyrosine kinase-like orphan receptor 1
33	-1.52	-2.87	228176_at	S1PR3	sphingosine-1-phosphate receptor 3
34	-1.52	-2.86	223551_at	PKIB	protein kinase (cAMP-dependent, catalytic) inhibitor beta
35	-1.49	-2.80	225611_at	MAST4	microtubule associated serine/threonine kinase family member 4
36	-1.47	-2.77	213712_at	ELOVL2	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 2
37	-1.47	-2.77	227180_at	ELOVL7	ELOVL family member 7, elongation of long chain fatty acids (yeast)
38	-1.47	-2.77	205258_at	INHBB	inhibin, beta B
39	-1.46	-2.75	232318_s_at	LOC121838	hypothetical LOC121838
40	-1.42	-2.68	219789_at	NPR3	natriuretic peptide receptor C/guanylate cyclase C (atrionatriuretic peptide receptor C)
41	-1.42	-2.68	229014_at	FLJ42709	hypothetical LOC441094
42	-1.41	-2.66	205891_at	ADORA2B	adenosine A2b receptor

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43	-1.39	-2.61	230836_at	ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4
44	-1.37	-2.58	228776_at	GJC1	gap junction protein, gamma 1, 45kDa
45	-1.34	-2.53	209505_at	NR2F1	nuclear receptor subfamily 2, group F, member 1
46	-1.33	-2.52	213960_at	NTRK3	neurotrophic tyrosine kinase, receptor, type 3
47	-1.31	-2.48	203414_at	MMD	monocyte to macrophage differentiation-associated
48	-1.29	-2.45	209894_at	LEPR	leptin receptor
49	-1.29	-2.44	212942_s_at	KIAA1199	KIAA1199
50	-1.28	-2.43	212192_at	KCTD12	potassium channel tetramerisation domain containing 12
51	-1.27	-2.42	231270_at	CA13	carbonic anhydrase XIII
52	-1.27	-2.41	213429_at	BIC-C	Protein bicaudal C homolog 1
53	-1.27	-2.40	218854_at	DSE	dermatan sulfate epimerase
54	-1.24	-2.36	205968_at	KCNS3	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 3
55	-1.22	-2.33	205081_at	CRIP1	cysteine-rich protein 1 (intestinal)
56	-1.22	-2.32	209277_at	TFPI2	tissue factor pathway inhibitor 2
57	-1.22	-2.32	224942_at	PAPPA	pregnancy-associated plasma protein A, pappalysin 1
58	-1.21	-2.31	219973_at	ARSL	arylsulfatase family, member J
59	-1.17	-2.25	237254_at	SLC5A11	solute carrier family 5 (sodium/glucose cotransporter), member 11
60	-1.13	-2.19	227388_at	TUSC1	tumor suppressor candidate 1
61	-1.13	-2.19	202508_s_at	SNAP25	synaptosomal-associated protein, 25kDa
62	-1.12	-2.17	203632_s_at	GPRC5B	G protein-coupled receptor, family C, group 5, member B
63	-1.10	-2.15	225782_at	MSRB3	methionine sulfoxide reductase B3
64	-1.10	-2.14	227889_at	LPCAT2	lysophosphatidylcholine acyltransferase 2
65	-1.10	-2.14	223868_s_at	WVVOX	WW domain containing oxidoreductase
66	-1.07	-2.10	213664_at	SLC1A1	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1
67	-1.04	-2.05	208861_s_at	ATR1X	alpha thalassemia/mental retardation syndrome X-linked (RAD54 homolog, S. cerevisiae)
68	-1.03	-2.04	225368_at	HIPK2	homeodomain interacting protein kinase 2
69	-1.02	-2.02	225946_at	RASSF8	Ras association (RalGDS/AF-6) domain family (N-terminal) member 8
70	-1.01	-2.02	202620_s_at	PLD2	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2
71	-1.01	-2.01	229199_at	SCN9A	sodium channel, voltage-gated, type IX, alpha subunit
72	-1.00	-2.00	210933_s_at	FSCN1	fascin homolog 1, actin-bundling protein (Strongylocentrotus purpuratus)
73	-0.99	-1.99	201540_at	FHL1	four and a half LIM domains 1
74	-0.99	-1.98	218182_s_at	CLDN1	claudin 1
75	-0.99	-1.98	204049_s_at	PHACTR2	phosphatase and actin regulator 2
76	-0.94	-1.92	227405_s_at	FZD8	frizzled homolog 8 (Drosophila)
77	-0.93	-1.91	219686_at	STK32B	serine/threonine kinase 32B
78	-0.91	-1.88	225615_at	IFFO27	intermediate filament family orphan 2
79	-0.90	-1.86	229553_at	PGM2L1	phosphoglucomutase 2-like 1
80	-0.89	-1.85	212223_at	IDS	iduronate 2-sulfatase
81	-0.89	-1.85	212092_at	PEG10	paternally expressed 10
82	-0.88	-1.84	225601_at	HMGB3	high-mobility group box 3
83	-0.84	-1.79	225580_at	MRPL50	mitochondrial ribosomal protein L50
84	-0.82	-1.77	201060_x_at	STOM	stomatin
85	-0.78	-1.72	210540_s_at	B4GALT4	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4

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86	-0.78	-1.71	203221_at	TLE1	transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)
87	-0.77	-1.70	225869_s_at	UNC93B1	unc-93 homolog B1 (C. elegans)
88	-0.77	-1.70	206756_at	CHST7	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7
89	-0.76	-1.69	205259_at	NR3C2	nuclear receptor subfamily 3, group C, member 2
90	-0.73	-1.66	219296_at	ZDHHC13	zinc finger, DHHC-type containing 13
91	-0.72	-1.65	228359_at	UBASH3B	ubiquitin associated and SH3 domain containing, B
92	-0.71	-1.64	227164_at	SFRS1	splicing factor, arginine/serine-rich 1
93	-0.71	-1.64	217853_at	TNS3	tensin 3
94	-0.71	-1.63	201462_at	SCRN1	secernin 1
95	-0.71	-1.63	228489_at	TM4SF18	transmembrane 4 L six family member 18
96	-0.69	-1.62	241198_s_at	C11ORF70	chromosome 11 open reading frame 70
97	-0.69	-1.61	222610_s_at	S100PBP	S100P binding protein
98	-0.66	-1.58	209772_s_at	CD24	CD24 molecule
99	-0.66	-1.58	219888_at	SPAG4	sperm associated antigen 4
100	-0.66	-1.58	212148_at	PBX1	pre-B-cell leukemia homeobox 1
101	-0.64	-1.56	212196_at	IL6ST	interleukin 6 signal transducer (gp130, oncostatin M receptor)
102	-0.64	-1.56	213247_at	SVEP1	sushi, von Willebrand factor type A, EGF and pentraxin domain containing 1
103	-0.63	-1.55	205794_s_at	NOVA1	neuro-oncological ventral antigen 1
104	-0.63	-1.55	225478_at	MFHAS1	malignant fibrous histiocytoma amplified sequence 1
105	-0.63	-1.55	225093_at	UTRN	utrophin
106	-0.62	-1.54	200696_s_at	GSN	gelsolin (amyloidosis, Finnish type)
107	-0.62	-1.54	204833_at	ATG12	ATG12 autophagy related 12 homolog (S. cerevisiae)
108	-0.61	-1.53	204508_s_at	CA12	carbonic anhydrase XII
109	-0.61	-1.53	219195_at	PPARGC1A	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha
110	-0.61	-1.52	207480_s_at	MEIS2	Meis homeobox 2
111	-0.61	-1.52	207543_s_at	P4HA1	prolyl 4-hydroxylase, alpha polypeptide I
1	0.60	1.52	215559_at	ABCC6	ATP-binding cassette, sub-family C (CFTR/MRP), member 6
2	0.61	1.53	202016_at	MEST	mesoderm specific transcript homolog (mouse)
3	0.65	1.57	226490_at	NHSL1	NHS-like 1
4	0.65	1.57	219398_at	CIDEC	cell death-inducing DFFA-like effector c
5	0.65	1.57	202598_at	S100A13	S100 calcium binding protein A13
6	0.65	1.57	211557_x_at	SLCO2B1	solute carrier organic anion transporter family, member 2B1
7	0.68	1.60	36545_s_at	SFI1	Sfi1 homolog, spindle assembly associated (yeast)
8	0.69	1.61	206291_at	NTS	neurotensin
9	0.69	1.62	203071_at	SEMA3B	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B
10	0.71	1.63	204955_at	SRPX	sushi-repeat-containing protein, X-linked
11	0.72	1.65	208606_s_at	WNT4	wingless-type MMTV integration site family, member 4
12	0.73	1.66	218322_s_at	ACSL5	acyl-CoA synthetase long-chain family member 5
13	0.74	1.67	218774_at	DCPS	decapping enzyme, scavenger
14	0.74	1.67	1557122_s_at	GABRB2	gamma-aminobutyric acid (GABA) A receptor, beta 2
15	0.74	1.67	218677_at	S100A14	S100 calcium binding protein A14
16	0.78	1.72	202454_s_at	ERBB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
17	0.85	1.80	224997_x_at	H19	H19, imprinted maternally expressed transcript (non-protein coding)

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18	0.86	1.81	217513_at	C17ORF60	chromosome 17 open reading frame 60
19	0.86	1.82	1552546_a_at	LETM2	leucine zipper-EF-hand containing transmembrane protein 2
20	0.89	1.85	220048_at	EDAR	ectodysplasin A receptor
21	0.91	1.88	207122_x_at	SULT1A2	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2
22	0.91	1.88	209473_at	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1
23	0.91	1.88	238741_at	FAM83A	family with sequence similarity 83, member A
24	0.91	1.88	202869_at	OAS1	2',5'-oligoadenylate synthetase 1, 40/46kDa
25	0.92	1.89	235245_at	TMEM92	transmembrane protein 92
26	0.93	1.90	227759_at	PCSK9	proprotein convertase subtilisin/kexin type 9
27	0.93	1.91	209607_x_at	SULT1A3	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3
28	0.98	1.97	213714_at	CACNB2	calcium channel, voltage-dependent, subunit beta 2
29	0.98	1.98	211916_s_at	MYO1A	myosin IA
30	0.99	1.99	206456_at	GABRA5	gamma-aminobutyric acid (GABA) A receptor, alpha 5
31	1.00	2.00	203615_x_at	SULT1A1	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1
32	1.01	2.01	202367_at	CUX1	cut-like homeobox 1
33	1.01	2.01	1558680_s_at	PDE1A	phosphodiesterase 1A, calmodulin-dependent
34	1.04	2.06	214934_at	ATP9B	ATPase, class II, type 9B
35	1.05	2.07	232448_at	OC100132234	similar to hCG2020055
36	1.05	2.08	221731_x_at	VCAN	versican
37	1.17	2.25	202718_at	IGFBP2	insulin-like growth factor binding protein 2, 36kDa
38	1.21	2.31	211184_s_at	USH1C	Usher syndrome 1C (autosomal recessive, severe)
39	1.28	2.43	205506_at	VIL1	villin 1
40	1.31	2.48	219543_at	PBLD	phenazine biosynthesis-like protein domain containing
41	1.31	2.49	208921_s_at	SRI	sorcin
42	1.38	2.61	222712_s_at	MUC13	mucin 13, cell surface associated
43	1.40	2.64	216470_x_at	PRSS1	protease, serine, 1 (trypsin 1)
44	1.43	2.69	219959_at	MOCOS	molybdenum cofactor sulfuryase
45	1.45	2.74	229744_at	SSFA2	sperm specific antigen 2
46	1.52	2.87	210619_s_at	HYAL1	hyaluronoglucosaminidase 1
47	1.56	2.95	219155_at	PITPNC1	phosphatidylinositol transfer protein, cytoplasmic 1
48	1.59	3.01	225978_at	RIMKLB	ribosomal modification protein rimK-like family member B
49	1.63	3.08	208146_s_at	CPVL	carboxypeptidase, vitellogenic-like
50	1.65	3.14	217564_s_at	CPS1	carbamoyl-phosphate synthetase 1, mitochondrial
51	1.73	3.31	236738_at	LOC401097	Similar to LOC166075
52	1.76	3.39	238657_at	UBXN10	UBX domain protein 10
53	1.80	3.47	225491_at	SLC1A2	solute carrier family 1 (glial high affinity glutamate transporter), member 2
54	1.82	3.52	210064_s_at	UPK1B	uroplakin 1B
55	2.00	4.01	206837_at	ALX1	ALX homeobox 1
56	2.13	4.39	208170_s_at	TRIM31	tripartite motif-containing 31
57	2.21	4.62	207463_x_at	PRSS3	protease, serine, 3
58	2.29	4.88	211848_s_at	CEACAM7	carcinoembryonic antigen-related cell adhesion molecule 7
59	2.33	5.01	207761_s_at	METTL7A	methyltransferase like 7A
60	2.39	5.23	226281_at	DNER	delta/notch-like EGF repeat containing

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61	2.85	7.19	244403_at	CRB1	crumbs homolog 1 (Drosophila)
62	3.03	8.17	205399_at	DCLK1	doublecortin-like kinase 1

Supplementary Table 3

Biological Functions	Number of Genes	Probability
a) Molecular and Cellular Functions		
Cellular Movement	27	7.23×10^{-5}
Amino Acid Metabolism	7	1.03×10^{-4}
Small molecule biochemistry	28	1.03×10^{-4}
Cellular Development	28	2.17×10^{-4}
Cell Death	39	3.07×10^{-4}
b) Diseases/Disorders		
Genetic Disorder	73	1.76×10^{-7}
Cancer	64	2.71×10^{-7}
Gastrointestinal Disease	24	4.6×10^{-6}
Neurological Disease	47	2.43×10^{-5}
Cardiovascular Disease	19	5.55×10^{-5}
c) Physiological System Development and Function		
Organ Development	25	3.8×10^{-5}
Nervous System Development and Function	39	2.17×10^{-4}
Embryonic Development	15	4.98×10^{-4}
Tissue Development	21	4.98×10^{-4}
Cardiovascular System Development and Function	13	8.84×10^{-4}

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6	-2.11	-4.32	212607_at	AKT3	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)
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22	-1.29	-2.45	209894_at	LEPR	leptin receptor
23	-1.29	-2.44	212942_s_at	KIAA1199	KIAA1199
24	-1.27	-2.41	213429_at	BIC-C	Protein bicaudal C homolog 1
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27	-1.22	-2.32	224942_at	PAPPA	pregnancy-associated plasma protein A, pappalysin 1
28	-1.10	-2.14	223868_s_at	VWVOX	VW domain containing oxidoreductase
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32	-1.01	-2.02	202620_s_at	PLOD2	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2
33	-1.01	-2.01	229199_at	SCN9A	sodium channel, voltage-gated, type IX, alpha subunit
34	-1.00	-2.00	210933_s_at	FSCN1	fascin homolog 1, actin-bundling protein (Strongylocentrotus purpuratus)
35	-0.99	-1.98	218182_s_at	CLDN1	claudin 1
36	-0.89	-1.85	212092_at	PEG10	paternally expressed 10
37	-0.76	-1.69	205259_at	NR3C2	nuclear receptor subfamily 3, group C, member 2
38	-0.71	-1.64	227164_at	SFRS1	splicing factor, arginine/serine-rich 1
39	-0.66	-1.58	209772_s_at	CD24	CD24 molecule
40	-0.66	-1.58	212148_at	PBX1	pre-B-cell leukemia homeobox 1
41	-0.64	-1.56	212196_at	IL6ST	interleukin 6 signal transducer (gp130, oncostatin M receptor)
42	-0.62	-1.54	200696_s_at	GSN	gelsolin (amyloidosis, Finnish type)
43	-0.61	-1.52	207543_s_at	P4HA1	prolyl 4-hydroxylase, alpha polypeptide I
44	0.61	1.53	202016_at	MEST	mesoderm specific transcript homolog (mouse)
45	0.69	1.61	206291_at	NTS	neurotensin
46	0.69	1.62	203071_at	SEMA3B	sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B

Supplementary Table 4 (2/2)

47	0.73	1.66	218322_s_at	ACSL5	acyl-CoA synthetase long-chain family member 5
48	0.74	1.67	1557122_s_at	GABRB2	gamma-aminobutyric acid (GABA) A receptor, beta 2
49	0.74	1.67	218677_at	S100A14	S100 calcium binding protein A14
50	0.78	1.72	202454_s_at	ERBB3	v-erb-b2 erythroblastic leukemia viral oncogene homolog 3 (avian)
51	0.85	1.80	224997_x_at	H19	H19, imprinted maternally expressed transcript (non-protein coding)
52	0.86	1.82	1552546_a_at	LETM2	leucine zipper-EF-hand containing transmembrane protein 2
53	0.91	1.88	207122_x_at	SULT1A2	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2
54	0.98	1.98	211916_s_at	MYO1A	myosin 1A
55	0.99	1.99	206456_at	GABRA5	gamma-aminobutyric acid (GABA) A receptor, alpha 5
56	1.00	2.00	203615_x_at	SULT1A1	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1
57	1.01	2.01	202367_at	CUX1	cut-like homeobox 1
58	1.05	2.08	221731_x_at	VCAN	versican
59	1.17	2.25	202718_at	IGFBP2	insulin-like growth factor binding protein 2, 36kDa
60	1.28	2.43	205506_at	VIL1	villin 1
61	1.38	2.61	222712_s_at	MUC13	mucin 13, cell surface associated
62	1.52	2.87	210619_s_at	HYAL1	hyaluronoglucosaminidase 1
63	1.80	3.47	225491_at	SLC1A2	solute carrier family 1 (glial high affinity glutamate transporter), member 2
64	2.29	4.88	211848_s_at	CEACAM7	carcinoembryonic antigen-related cell adhesion molecule 7