

NPAS1 Regulates Branching Morphogenesis in Embryonic Lung

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ONLINE DATA SUPPLEMENT

Table E1. Sequences of Oligonucleotide Primers and Probes Used for Real-Time QRT-PCR

Gene	Forward primer	Reverse primer	Probe (5'-FAM/3'-TAMRA)
NPAS1	5'-tggtggacacccctgagatt-3'	5'-ggacttcatgctggacaaagaa-3'	5'-aagccagccccaccgaggcat-3'
ARNT	5'-cagtcttccatgaggatgtgcat- 3'	5'-acaggggtccacggagctagtagtac- 3'	5'-acgaaggctggtcatctgcccgcacat-3'
SIM2	5'-gtgcatggctgtgacacctt-3'	5'-acagcagccggtagtagtttgg-3'	5'-ccgatatgcacaccacctctgtgctgg- 3'
b-actin	5'-aggatcactattggcaacga- 3'	5'-aggattccataccaagaaggaa- 3'	5'-tccgatgcctgaggctctttcc-3'

Table E2. Sequences of Oligonucleotide Primers Used for Validation QRT-PCR

Using Taqman Primer/Probe

	Primer	Sequence	Start	Stop	Tm
Claudin 11 (NM_008770)	Forward	CATGGCCACTGGTCTCTACCA	330	350	60
	Reverse	GGCTCTACAAGCCTGCACGTA	408	388	59
TGF-beta induced 68 kDa (NM_9369)	Forward	AAGCTGGCCTCGATACTCATCT	1235	1256	58
	Reverse	GGGACACCATCTTTGAACACAGA	1319	1297	60
Myocardin (transcript variant A: NM_145136, variant B: NM_146386)	Forward	CAATTGGATAGTGCCAAGACTGAA	442	465	59
	Reverse	GAGGCTTGGAGAATGTGCATAGT	539	517	58
RBPsh (NM_009035)	Forward	CTATGGCAACAGCGATGACATT	521	542	59
	Reverse	GACTGCTTCTTTTTGGAGGGTTT	601	579	59
transducin-like enhancer of split 1 (NM_011599)	Forward	ACCCTTCTTCTCCACATGCAA	1615	1635	58
	Reverse	GCAGACGGTTTTTGCAATTCC	1683	1662	59
Npas1 (NM_008718)	Forward	TGGTGGACACCCCTGAGATT	731	750	59
	Reverse	GGACTTCATGCGGACAAAGAA	822	802	58
Beta-actin (NM_007393)	Forward	AGGTCATCACTATTGGCAACGA	737	758	59
	Reverse	AGGATTCCATACCCAAGAAGGAA	814	792	58

TABLE E3**GENES DOWN-REGULATED BY NPAS1-ANTISENSE**

Accession #	LOG(FC)	FC	T test	ID
1415871_at	0.555807703	3.595900807	0.017077292	TGF beta-induced 68 kDa
1416003_at	0.560230913	3.632711538	0.001909861	claudin 11
1416173_at	0.72561732	5.316395971	0.045941624	pescadillo homolog 1
1416200_at	0.675478094	4.736724154	0.016833455	RIKEN
1416290_a_at	0.715190028	5.190270926	0.023816238	proteasome, 26S subunit, ATPase, 4
1416295_a_at	0.706192489	5.083847198	0.000547142	IL-2R gamma chain
1416319_at	0.823833703	6.665514888	0.037253303	ESTs
1416454_s_at	0.749168946	5.61266273	0.018498288	actin, alpha 2, smooth muscle, aorta
1416652_at	0.651771334	4.485091776	0.0463564	asporin precursor
1416779_at	0.839399081	6.908743685	0.048441006	serum deprivation response
1416919_a_at	0.789537602	6.159388565	0.043925623	nephronophtisiss 1 (juvenile)
1417012_at	0.647369305	4.439860296	0.044565055	syndecan 2
1417143_at	0.882145658	7.623346467	0.021520591	endothelial differentiation, G protein-coupled receptor
1417396_at	0.771231925	5.905163479	0.01487454	podocalyxin-like
1417862_at	0.562131792	3.648646528	0.034681551	unknown
1417963_at	0.640779764	4.373002891	0.035305854	phospholipid transfer protein
1418088_a_at	0.799721879	6.305534105	0.019106652	syntaxin 8
1418095_at	0.421017277	2.636436266	0.005111278	small muscle protein, X-linked
1418114_at	0.716505654	5.206017869	0.04723583	RBPsh
1418503_at	0.82364835	6.662670715	0.036862	Hspa9a
1418783_at	0.745802559	5.569324958	0.024439104	MTR1
1418887_a_at	0.818296779	6.581074074	0.037340093	chromosome 11, ESTs
1419467_at	0.693185093	4.933840357	0.012471336	RIKEN
1419486_at	0.793194352	6.211469421	0.021489003	Foxc1
1419912_s_at	0.842443824	6.957349561	0.037001738	ESTs
1420340_at	0.737206057	5.46016865	0.047384454	RIKEN
1420903_at	0.820976599	6.621808221	0.029423856	sialyltransferase 7
1420982_at	0.736161795	5.44705543	0.014412076	Caper-pending
1420993_at	0.679389724	4.779579877	0.038197888	B3Gnt5
1421209_s_at	0.79990965	6.308260943	0.036657558	inhibitor of kappaB kinase gamma
1421383_at	0.723586741	5.291596748	0.01274649	RIKEN
1421426_at	0.588189352	3.874265261	0.038936711	hedgehog-interacting protein
1421825_at	0.727987146	5.345485379	0.01205894	beta site APP cleaving enzyme
1421960_at	0.648847963	4.455002608	0.000830201	adenylate cyclase 3
1422208_a_at	0.825649601	6.693443491	0.017752072	guanine nucleotide binding protein, beta 5
1422268_a_at	0.701503884	5.02925764	0.01022198	ribosomal protein S6 kinase, 70kD, polypeptide 2
1422340_a_at	0.591460078	3.903552978	0.012172558	actin, gamma 2, smooth muscle, enteric
1422472_at	0.707343024	5.097333204	0.041471559	peroxisomal biogenesis factor 13
1422639_at	0.559949395	3.630357507	0.037493614	calcitonin-related polypeptide beta
1422640_at	0.709830808	5.126616225	0.018736917	protocadherin beta 9
1422717_at	0.755026499	5.688876409	0.032567263	acid phosphatase 1, soluble

1422885_at	0.73002863	5.370672006	0.024996341	small nuclear ribonucleoprotein SM D3 (SNRNP core protein D3_
1423032_at	0.758258453	5.731370091	0.013032017	RIKEN
1423047_at	0.829071118	6.746384939	0.028037924	Toll-interacting protein
1423068_at	0.721569446	5.267074318	0.013019361	selective LIM binding factor
1423280_at	0.816473658	6.553505343	0.01121385	superior cervical ganglia, neural specific 10
1423306_at	0.845523467	7.006860428	0.030229269	EST
1423503_at	0.812692469	6.496694864	0.014378471	junction CAM 3
1423505_at	0.441889685	2.766238907	0.002011854	transgelin
1423537_at	0.768492079	5.868026668	0.002843886	brain abundant, membrane attached signal protein 2 (Basp2)
1423851_a_at	0.714759768	5.185131415	0.00845283	unknown
1424044_at	0.786571228	6.117461257	0.030463987	unknown
1424077_at	0.811368511	6.476919676	0.010029557	unknown
1424140_at	0.833531493	6.816029994	0.02577673	unknown
1424193_at	0.818228592	6.580040884	0.042418008	unknown
1424375_s_at	0.723643236	5.292285143	0.025152772	unknown
1424481_s_at	0.769132298	5.876683451	0.024939623	unknown
1424579_at	0.671158037	4.689840113	0.040311754	similar to solute carrier family 35
1425028_a_at	0.708218634	5.107620644	0.031187429	tropomyosin 2, beta
1425508_s_at	0.81005802	6.45740491	0.02234907	ADP-ribosylation factor related protein 1
1425519_a_at	0.635265205	4.317826676	0.014155794	unknown
1425551_at	0.614520165	4.116424597	0.031778902	huntingtin interacting protein 1 related
1425605_a_at	0.763451033	5.8003077	0.014563837	LMBR1 long form
1425694_at	0.733878721	5.418495548	0.042437427	Tbx5 (t-box transcription factor)
1425934_a_at	0.784709757	6.091296749	0.024506113	beta-1,4-galactosyltransferase 4
1425978_at	0.670321701	4.680817419	0.041677336	myocardin
1426236_a_at	0.804359278	6.37322539	0.006427183	glutamine synthetase
1426613_a_at	0.79397211	6.222603231	0.037239534	U2 small nuclear ribonucleoprotein B
1426933_at	0.828971514	6.744837865	0.033277662	RIKEN
1427050_at	0.761737866	5.77747222	0.032225222	unknown
1427109_at	0.705932947	5.080809909	0.046347806	glutamate receptor, ionotropic, NMD3B (Grin 3b)
1427239_at	0.82877647	6.741809393	0.034416582	WD repeat domain 10
1427325_s_at	0.745704276	5.568064735	0.017918668	unknown
1427541_x_at	0.80997548	6.456177762	0.035381293	RHAMM
1427940_s_at	0.768445293	5.867394554	0.035157841	c-myc binding protein
1428074_at	0.638126734	4.346370393	0.021021061	RIKEN
1428191_s_at	0.843592761	6.975779764	0.03355135	RIKEN
1428390_at	0.824617765	6.67755948	0.042539426	RIKEN
1428452_at	0.832288025	6.796542315	0.017317575	60S ribosomal protein L37A
1429126_at	0.79914494	6.297163079	0.04033797	RIKEN
1429583_at	0.481785835	3.03239544	0.002634741	Purkinje cell protein L2
1430092_at	0.550693571	3.553804809	0.003857339	synaptojanin 2
1431059_x_at	0.764771822	5.817974621	0.026322907	homolog to HIV-1 transcriptional elongation factor TAT cofactor SF1
1431938_a_at	0.805376022	6.388163479	0.025519005	phosphomannomutase 2
1432097_a_at	0.702874692	5.045157075	0.019428151	DNA cross-link repair protein

1432130_a_at	0.665624337	4.630462133	0.038317736	RIKEN
1432426_a_at	0.669392305	4.670811116	0.00263827	ubiquitin conjugating enzyme E2
1433471_at	0.739381492	5.487587933	0.020671276	ESTs
1434033_at	0.812080918	6.487552992	0.03210405	transducin-like enhancer of split
1434190_at	0.722468827	5.277993206	0.045881499	EST
1434575_at	0.757252708	5.718112658	0.001776588	ubiquitin conjugating enzyme E2
1434709_at	0.736343025	5.44932895	0.045520165	unknown
1434901_at	0.89035024	7.768733801	0.049057408	ESTs
1435026_at	0.706430374	5.086632645	0.031195058	ESTs
1435089_at	0.725530368	5.315331662	0.03926095	unknown
1435113_x_at	0.7239592	5.296136866	0.037465965	Scgn10-like protein
1435170_at	0.738447441	5.475798277	0.017343172	faciogeneital dysplasia homolog
1435565_at	0.717128376	5.213487978	0.027965013	phosphorylase kinase alpha 1
1435578_s_at	0.654399586	4.512316827	0.042949714	inhibitor of DNA binding 4
1435714_x_at	0.768710274	5.870975574	0.018828861	ESTs
1435966_x_at	0.714600746	5.183233167	0.033070791	mitochondrial ribosomal protein L13
1436522_at	0.780968264	6.039044979	0.03089664	RIKEN
1436935_x_at	0.891026265	7.780836061	0.029183884	Chloride channel, nucleotide-sensitive, 1A
1437043_a_at	0.774043584	5.943518018	0.044510303	RIKEN
1437463_x_at	0.619276045	4.161750546	0.004880004	TGF beta-induced 68 kDa
1437592_x_at	0.806229097	6.40072395	0.004335092	RIKEN
1437801_at	0.772266246	5.91924405	0.021086763	testis expressed gene 189
1438083_at	0.61706441	4.140610794	0.006887336	hedgehog-interacting protein
1438202_at	0.76745039	5.853968617	0.016034807	RIKEN
1438312_s_at	0.781079429	6.040590975	0.026220178	N-terminal kinase-like
1438441_at	0.642386584	4.389212269	0.005853115	inhibitor of DN binding 4
1438560_x_at	0.854208767	7.148398697	0.041425249	chaperonin subunit 4 (delta)
1438769_a_at	0.865527728	7.337155571	0.048551626	unknown
1439381_x_at	0.718864053	5.2343656	0.041911054	EST
1441866_s_at	0.814855463	6.529132207	0.039026577	EST
1448123_s_at	0.583133994	3.829428755	0.006227538	TGF beta-induced 68 kDa
1448136_at	0.744862555	5.557283538	0.031673731	ectonucleotide pyrophosphatase phosphodiesterase 2
1448308_at	0.80905779	6.442549883	0.047045334	AP-3, mu-1
1448325_at	0.759570307	5.748708759	0.014026837	myeloid differentiation primary response gene 116
1448490_at	0.687442064	4.869025668	0.025149797	RIKEN
1448545_at	0.705106228	5.071147324	0.002374699	syndecan 2
1448843_at	0.652169852	4.489209282	0.01229729	RIKEN
1448965_at	0.756304223	5.705638119	0.039972136	RIKEN
1449062_at	0.80027705	6.313599803	0.040688118	ketoheokinase
1449336_a_at	0.758926127	5.740188143	0.027347918	serine threonine kinase 2
1449629_s_at	0.78840166	6.143299097	0.019449705	EST
1449823_at	0.708795617	5.114410903	0.024235497	dachshund 2
1449910_at	0.765736374	5.830910481	0.049519917	RIKEN
1450408_at	0.82410407	6.669665754	0.038458448	chloride channel 7
1450496_a_at	0.77099125	5.901891892	0.012551522	RIKEN
1450510_a_at	0.604608931	4.023545628	0.035538568	Cacana 1a (CaV2.1)
1451170_s_at	0.843151804	6.968700571	0.034759202	similar to pM5 protein
1451213_at	0.706895516	5.092083494	0.047451799	peroxisomal biogenesis factor 11b

1451552_at	0.604299173	4.02067688	0.009695562	similar to lipoyltransferase
1451646_at	0.660259586	4.573614816	0.020473519	similar to cdc2 (P34 protein kinase)
1451782_a_at	0.736746278	5.454391129	0.0226129	nucleoside transporter ENT1b
1451790_a_at	0.827184038	6.717134398	0.041388237	tissue factor pathway inhibitor (TFPI)
1451857_a_at	0.761555799	5.775050665	0.045711411	unknown
1451867_x_at	0.761784077	5.778087005	0.029621727	rho GTPase-activating protein 6 isoform 2 (rhgap6)
1451998_at	0.619264448	4.161639413	0.000978413	chromosome 20 ORF
1452074_at	0.672987731	4.70964021	0.043997764	RIKEN
1452083_a_at	0.715583198	5.19497184	0.037516171	praja 1
1452240_at	0.787178365	6.126019362	0.039072771	Bruno-like 4, RNA-binding protein
1452411_at	0.76713032	5.849655899	0.040510182	unknown
1452459_at	0.704691875	5.066311337	0.017084991	unknown
1452668_x_at	0.791642732	6.189317072	0.011545147	rab-2
1452670_at	0.669922669	4.676518632	0.038223952	transient receptor protein 2
1454712_at	0.857099501	7.196138287	0.043488865	fibrosin
1454947_a_at	0.774329765	5.947435827	0.029538142	unknown
1455710_x_at	0.779566601	6.019577502	0.030959074	mature T cell proliferation-1
1455898_x_at	0.713068777	5.16498158	0.011043189	EST
1455991_at	0.856342664	7.183608637	0.046469215	ESTs
1456250_x_at	0.624178932	4.209000062	0.003621908	TGF beta-induced 68 kDa
1456325_at	0.73872303	5.47927415	0.041257032	unknown
1456572_x_at	0.57578553	3.765178156	0.030187583	chaperonin subunit 4 (delta)
1456736_x_at	0.822858362	6.650562243	0.034200775	RIKEN
1460181_at	0.788626115	6.14647493	0.032860255	Scgn10-like protein
1460276_a_at	0.781058005	6.040292991	0.04101277	transmembrane domain protein regulated in adipocytes
1460343_at	0.849906598	7.077935449	0.023221103	neuralized
1460379_at	0.773264467	5.932865012	0.006789992	HoxB4

GENES UP-REGULATED BY NPAS1-ANTISENSE

1417882_at	1.239957855	17.37632196	0.01488677	ESTs
1418265_s_at	1.339727264	21.86388145	0.034191643	interferon regulatory factor 2
1418838_at	1.283748828	19.21979838	0.043971395	similar to ATP-binding cassette, subfamily D, member 1
1428200_a_at	1.247253027	17.67067043	0.031808199	ESTs
1426225_at	1.149523598	14.10988904	0.019049968	retinol binding protein
1427138_at	1.198800785	15.80522871	0.041430979	unknown
1431241_at	1.620800041	41.76380323	0.035103541	RIKEN
1434751_at	1.442172799	27.6804279	0.041518145	iduronate 2-sulfatase
1435527_at	1.70781472	51.02872527	0.024468246	ESTs
1449419_at	1.457037239	28.6442357	0.047586928	RIKEN
1450191_a_at	1.507769222	32.19357612	0.01676823	Sox-13

Table E4: Known Genes Down-Regulated by Npas1 Antisense Treatment

<u>Accession</u>				
<u>#</u>	<u>log(FC)</u>	<u>FC</u>	<u>t-test</u>	<u>ID</u>
1428452_at	0.832288025	6.796542315	0.017317575	60S ribosomal protein L37A
1422717_at	0.755026499	5.688876409	0.032567263	acid phosphatase 1, soluble
1416454_s_at	0.749168946	5.61266273	0.018498288	actin, alpha 2, smooth muscle, aorta
1422340_a_at	0.591460078	3.903552978	0.012172558	actin, gamma 2, smooth muscle, enteric
1421960_at	0.648847963	4.455002608	0.000830201	adenylate cyclase 3
1425508_s_at	0.81005802	6.45740491	0.02234907	ADP-ribosylation factor related protein 1
1448308_at	0.80905779	6.442549883	0.047045334	AP-3, mu-1
1416652_at	0.651771334	4.485091776	0.0463564	asporin precursor
1420993_at	0.679389724	4.779579877	0.038197888	B3Gnt5
1421825_at	0.727987146	5.345485379	0.01205894	beta site APP cleaving enzyme
1425934_a_at	0.784709757	6.091296749	0.024506113	beta-1,4-galactosyltransferase 4
1423537_at	0.768492079	5.868026668	0.002843886	brain abundant, membrane attached signal protein 2 (Basp2)
1452240_at	0.787178365	6.126019362	0.039072771	Bruno-like 4, RNA-binding protein
1450510_a_at	0.604608931	4.023545628	0.035538568	Cacana 1a (CaV2.1)
1422639_at	0.559949395	3.630357507	0.037493614	calcitonin-related polypeptide beta
1420982_at	0.736161795	5.44705543	0.014412076	Caper
1438560_x_at	0.854208767	7.148398697	0.041425249	chaperonin subunit 4 (delta)
1450408_at	0.82410407	6.669665754	0.038458448	chloride channel 7
1436935_x_at	0.891026265	7.780836061	0.029183884	Chloride channel, nucleotide-sensitive, 1A
1416003_at	0.560230913	3.632711538	0.001909861	claudin 11
1427940_s_at	0.768445293	5.867394554	0.035157841	c-myc binding protein
1449823_at	0.708795617	5.114410903	0.024235497	dachshund 2
1432097_a_at	0.702874692	5.045157075	0.019428151	DNA cross-link repair protein
1448136_at	0.744862555	5.557283538	0.031673731	ectonucleotide pyrophosphatasephosphodiesterase 2
1417143_at	0.882145658	7.623346467	0.021520591	endothelial differentiation G protein-coupled receptor
1435170_at	0.738447441	5.475798277	0.017343172	faciogeneital dysplasia homolog
1454712_at	0.857099501	7.196138287	0.043488865	fibrosin
1419486_at	0.793194352	6.211469421	0.021489003	Foxc1
1427109_at	0.705932947	5.080809909	0.046347806	glutamate receptor, ionotropic, NMD3B (Grin 3b)
1426236_a_at	0.804359278	6.37322539	0.006427183	glutamine synthetase
1422208_a_at	0.825649601	6.693443491	0.017752072	guanine nucleotide binding protein, beta 5
1438083_at	0.61706441	4.140610794	0.006887336	hedgehog-interacting protein
1431059_x_at	0.764771822	5.817974621	0.026322907	HIV-1 transcriptional elongation factor TAT cofactor TAT-SF1

Table E4: Known Genes Down-Regulated by Npas1 Antisense Treatment

<u>Accession</u>				
<u>#</u>	<u>log(FC)</u>	<u>FC</u>	<u>t-test</u>	<u>ID</u>
1460379_at	0.773264467	5.932865012	0.006789992	HoxB4
1418503_at	0.82364835	6.662670715	0.036862	Hspa9a
1425551_at	0.614520165	4.116424597	0.031778902	huntingtin interacting protein 1 related
1416295_a_at	0.706192489	5.083847198	0.000547142	IL-2R gamma chain
1435578_s_at	0.654399586	4.512316827	0.042949714	inhibitor of DNA binding 4
1421209_s_at	0.79990965	6.308260943	0.036657558	inhibitor of kappaB kinase gamma
1423503_at	0.812692469	6.496694864	0.014378471	junction CAM 3
1449062_at	0.80027705	6.313599803	0.040688118	ketoheokinase
1425605_a_at	0.763451033	5.8003077	0.014563837	LMBR1 long form
1455710_x_at	0.77956601	6.019577502	0.030959074	mature T cell proliferation-1
1435966_x_at	0.714600746	5.183233167	0.033070791	mitochondrial ribosomal protein L13
1418783_at	0.745802559	5.569324958	0.024439104	MTR1
1448325_at	0.759570307	5.748708759	0.014026837	myeloid differentiation primary response gene 116
1425978_at	0.670321701	4.680817419	0.041677336	myocardin
1416919_a_at	0.789537602	6.159388565	0.043925623	nephronophtisiss 1 (juvenile)
1460343_at	0.849906598	7.077935449	0.023221103	neuralized
1438312_s_at	0.781079429	6.040590975	0.026220178	N-terminal kinase-like
1451782_a_at	0.736746278	5.454391129	0.0226129	nucleoside transporter ENT1b
1451213_at	0.706895516	5.092083494	0.047451799	peroxisomal biogenesis factor 11b
1422472_at	0.707343024	5.097333204	0.041471559	peroxisomal biogenesis factor 13
1416173_at	0.72561732	5.316395971	0.045941624	pescafillo homolog 1
1417963_at	0.640779764	4.373002891	0.035305854	phospholipid transfer protein
1431938_a_at	0.805376022	6.388163479	0.025519005	phosphomannomutase 2
1435565_at	0.717128376	5.213487978	0.027965013	phosphorylase kinase alpha 1
1417396_at	0.771231925	5.905163479	0.01487454	podocalyxin-like
1452083_a_at	0.715583198	5.19497184	0.037516171	praja 1
1416290_a_at	0.715190028	5.190270926	0.023816238	proteasome, 26S subunit, ATPase, 4
1422640_at	0.709830808	5.126616225	0.018736917	protocadherin beta 9
1429583_at	0.481785835	3.03239544	0.002634741	Purkinje cell protein L2
1452668_x_at	0.791642732	6.189317072	0.011545147	rab-2
1418114_at	0.716505654	5.206017869	0.04723583	RBP_{suh}
1427541_x_at	0.80997548	6.456177762	0.035381293	RHAMM
1451867_x_at	0.761784077	5.778087005	0.029621727	rho GTPase-activating protein 6 isoform 2 (rhgap6)

Table E4: Known Genes Down-Regulated by Npas1 Antisense Treatment

<u>Accession</u>					
<u>#</u>	<u>log(FC)</u>	<u>FC</u>	<u>t-test</u>	<u>ID</u>	
1422268_a_at	0.701503884	5.02925764	0.01022198	ribosomal protein S6 kinase, 70kD, polypeptide 2	
1460181_at	0.788626115	6.14647493	0.032860255	Scgn10-like protein	
1423068_at	0.721569446	5.267074318	0.013019361	selective LIM binding factor	
1449336_a_at	0.758926127	5.740188143	0.027347918	serine threonine kinase 2	
1416779_at	0.839399081	6.908743685	0.048441006	serum deprivation response	
1420903_at	0.820976599	6.621808221	0.029423856	sialyltransferase 7	
1451646_at	0.660259586	4.573614816	0.020473519	similar to cdc2 (P34 protein kinase)	
1451552_at	0.604299173	4.02067688	0.009695562	similar to lipoyltransferase	
1451170_s_at	0.843151804	6.968700571	0.034759202	similar to pM5 protein	
1424579_at	0.671158037	4.689840113	0.040311754	similar to solute carrier family 35	
1422885_at	0.73002863	5.370672006	0.024996341	small nuclear ribonucleoprotein SM D3 (SNRNP core protein D3_	
1423280_at	0.816473658	6.553505343	0.01121385	superior cervical ganglia, neural specific 10	
1430092_at	0.550693571	3.553804809	0.003857339	synaptojanin 2	
1448545_at	0.705106228	5.071147324	0.002374699	syndecan 2	
1418088_a_at	0.799721879	6.305534105	0.019106652	syntaxin 8	
1425694_at	0.733878721	5.418495548	0.042437427	Tbx5 (t-box transcription factor)	
1437801_at	0.772266246	5.91924405	0.021086763	testis expressed gene 189	
1456250_x_at	0.624178932	4.209000062	0.003621908	TGF beta-induced 68 kDa	
1451790_a_at	0.827184038	6.717134398	0.041388237	tissue factor pathway inhibitor (TFPI)	
1423047_at	0.829071118	6.746384939	0.028037924	Toll-interacting protein	
1434033_at	0.812080918	6.487552992	0.03210405	transducin-like enhancer of split	
1452670_at	0.669922669	4.676518632	0.038223952	transient receptor protein 2	
1460276_a_at	0.781058005	6.040292991	0.04101277	transmembrane domain protein regulated in adipocytes	
1425028_a_at	0.708218634	5.107620644	0.031187429	tropomyosin 2, beta	
1426613_a_at	0.79397211	6.222603231	0.037239534	U2 small nuclear ribonucleoprotein B	
1434575_at	0.757252708	5.718112658	0.001776588	ubiquitin conjugating enzyme E2	
1427239_at	0.82877647	6.741809393	0.034416582	WD repeat domain 10	