

Supp Table 3: Common underexpressed genes in murine NOTCH transgenic and human CCRCC

Human gene	Gene description	probe ID	log2 FC in RCC	p-value	FDR	Mous e gene	log2 FC in Notch	p-value	FDR
CALB1	calbindin 1, 28kDa	205626_s_at	-7.327139282	1.21273E-10	1.84E-08	Calb1	-4.154902175	0.000396994	0.00990886
ALDOB	aldolase B, fructose-bisphosphate	204704_s_at	-6.724713476	2.64443E-14	2.36E-12	Aldob	-2.523562246	0.000739153	0.01299297
DIO1	deiodinase, iodothyronine, type I	206457_s_at	-6.673181437	1.0697E-13	1.08E-10	Dio1	-2.167407676	5.34096E-05	0.00504473
NPHS2	nephrosis 2, idiopathic, steroid-resistant (podocin)	220424_at	-6.634518174	1.07258E-06	1.47E-05	Nphs2	-2.362921172	4.65072E-06	0.0037192
CALB1	calbindin 1, 28kDa	205625_s_at	-6.192214591	1.65451E-09	1.31E-07	Calb1	-4.154902175	0.000396994	0.00990886
ALDOB	Aldolase B, fructose-bisphosphate	214424_s_at	-5.828761804	2.4311E-06	2.68E-05	Aldob	-2.523562246	0.000739153	0.01299297
HPD	4-hydroxyphenylpyruvate dioxygenase	206024_at	-5.817646483	1.14565E-07	2.89E-06	Hpd	-3.237879771	0.003954113	0.0330476
SLC12A1	solute carrier family 12 (sodium/potassium/chloride transporters), member 1	220281_at	-5.529017201	1.45568E-08	2.81E-07	Slc12a1	-2.714956038	0.000295024	0.0088131
ALDOB	aldolase B, fructose-bisphosphate	217238_s_at	-5.312656416	8.84786E-07	5.99E-06	Aldob	-2.523562246	0.000739153	0.01299297
ALDOB	aldolase B, fructose-bisphosphate	211357_s_at	-5.272954381	1.58889E-06	1.24E-05	Aldob	-2.523562246	0.000739153	0.01299297
SLC13A3	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3	205244_s_at	-5.121525821	4.30792E-10	5.82E-08	Slc13a3	-4.789157929	0.000387269	0.00979781
ALDOB	aldolase B, fructose-bisphosphate	204705_x_at	-5.104182235	1.07516E-06	5.81E-06	Aldob	-2.523562246	0.000739153	0.01299297
KCNJ1	potassium inwardly-rectifying channel, subfamily J, member 1	210402_at	-5.065607215	1.13789E-08	5.92E-07	Kcnj1	-1.012408513	0.004065203	0.03355651
SLC7A8	solute carrier family 7 (amino acid transporter, L-type),	216604_s_at	-4.719179147	2.62145E-06	2.73E-05	Slc7a8	-2.559691378	6.33995E-05	0.00520985
PAH	phenylalanine hydroxylase	205719_s_at	-4.665204128	4.6369E-06	2.06E-05	Pah	-6.607867512	0.000101334	0.00594537
SLC13A3	solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3	205243_at	-4.545081674	2.36466E-09	1.91E-07	Slc13a3	-4.789157929	0.000387269	0.00979781
DPEP1	dipeptidase 1 (renal)	205983_at	-4.540218444	1.48803E-08	6.29E-07	Dpep1	-3.737832966	6.1372E-05	0.00519049
ALDOB	Aldolase B, fructose-bisphosphate	214423_x_at	-4.443677914	1.07603E-07	2.57E-06	Aldob	-2.523562246	0.000739153	0.01299297
ALDOB	Aldolase B, fructose-bisphosphate	216600_x_at	-4.326058711	9.19769E-08	2.71E-06	Aldob	-2.523562246	0.000739153	0.01299297
SFRP1	secreted frizzled-related protein 1	202037_s_at	-4.307506495	9.56301E-09	4.81E-07	Sfrp1	-1.998849954	0.001719076	0.0204781
ABAT	4-aminobutyrate aminotransferase	209459_s_at	-4.280004024	1.40539E-11	6.90E-10	Abat	-2.141716716	0.001326203	0.0177235
G6PC	glucose-6-phosphatase, catalytic subunit	206952_at	-4.25441816	2.59167E-08	6.32E-07	G6pc	-4.970835115	0.00018673	0.00729651
ABAT	4-aminobutyrate aminotransferase	209460_at	-4.026082171	4.63645E-10	3.37E-08	Abat	-2.141716716	0.001326203	0.0177235
SLC22A6	solute carrier family 22 (organic anion transporter), member 6	210343_s_at	-3.734692175	4.27761E-07	3.29E-06	Slc22a6	-5.514613636	0.000215078	0.00776123
SFRP1	secreted frizzled-related protein 1	202036_s_at	-3.71608146	1.28973E-08	5.49E-07	Sfrp1	-1.998849954	0.001719076	0.0204781
AFM	afamin	206840_at	-3.680195964	2.0458E-06	2.26E-05	Afm	-1.323073005	0.000205274	0.00762322
SLC34A1	solute carrier family 34 (sodium phosphate), member 1	217530_at	-3.657563907	4.93544E-09	3.29E-07	Slc34a1	-4.729474165	0.000684974	0.01251166
SLC12A3	solute carrier family 12 (sodium/chloride transporters),	215274_at	-3.591731681	2.12751E-06	2.51E-05	Slc12a3	-2.378798902	0.000804958	0.01346632
ACY1	aminoacylase 1	202740_at	-3.52996596	1.43706E-06	1.48E-05	Acy1	-3.810938171	0.000149341	0.00686204
SLC7A8	solute carrier family 7 (amino acid transporter, L-type),	216603_at	-3.50135712	8.80096E-06	6.72E-05	Slc7a8	-2.559691378	6.33995E-05	0.00520985
SLC7A9	solute carrier family 7 (cationic amino acid transporter, y+ system), member 9	220135_s_at	-3.419087122	8.92704E-08	1.47E-06	Slc7a9	-2.032082405	0.000259005	0.00835159
SLC34A1	solute carrier family 34 (sodium phosphate), member 1	208177_at	-3.393586085	4.50617E-07	8.32E-06	Slc34a1	-4.729474165	0.000684974	0.01251166
DAO	D-amino-acid oxidase	206878_at	-3.229362754	8.23412E-08	2.67E-06	Dao	-1.312971282	0.005626652	0.0408125
HAO2	hydroxyacid oxidase 2 (long chain)	220801_s_at	-3.22088954	3.08403E-06	2.21E-05	Hao2	-4.190618591	0.000470409	0.01061291
DNAJC12	Dnaj (Hsp40) homolog, subfamily C, member 12	218976_at	-3.068937455	2.58011E-08	2.12E-06	Dnajc12	-3.774675046	0.000109936	0.00610446
SLC4A1	solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)	205592_at	-3.054903207	8.07268E-07	1.46E-05	Slc4a1	-2.052832415	9.89555E-06	0.00399921

SLC7A7	solute carrier family 7 (cationic amino acid transporter, y+ system), member 7	204588_s_at	-2.911156184	1.40019E-06	2.94E-05 Slc7a7	-2.787936445	0.000489983	0.01084138
RAB11FIP3	RAB11 family interacting protein 3 (class II)	214999_s_at	-2.893617415	4.52678E-06	2.64E-05 Rab11fip3	-1.365744513	0.001478867	0.0188713
SLC22A8	solute carrier family 22 (organic anion transporter), member	221298_s_at	-2.890094577	0.00010526	0.000436 Slc22a8	-5.408202582	1.66363E-05	0.00399921
ASS1	argininosuccinate synthase 1	207076_s_at	-2.878108565	4.50673E-06	3.49E-05 Ass1	-3.190494402	0.000182721	0.00726704
PAH	phenylalanine hydroxylase	217583_at	-2.873036819	1.9904E-06	2.28E-05 Pah	-6.607867512	0.000101334	0.00594537
GPD1	glycerol-3-phosphate dehydrogenase 1 (soluble)	213706_at	-2.846257652	9.09527E-08	1.62E-06 Gpd1	-2.703401934	0.000195673	0.00747941
GLYAT	glycine-N-acyltransferase	222083_at	-2.793171359	5.26227E-07	6.32E-06 Glyat	-2.775284127	5.55084E-05	0.00504473
FBP1	fructose-1,6-bisphosphatase 1	209696_at	-2.785920116	1.51302E-06	1.2E-05 Fbp1	-3.683001593	0.001039426	0.01553997
SLC22A6	solute carrier family 22 (organic anion transporter), member	216599_x_at	-2.764024385	5.49296E-06	3.82E-05 Slc22a6	-5.514613636	0.000215078	0.00776123
PTH1R	parathyroid hormone 1 receptor	205911_at	-2.717437398	1.92027E-06	1.5E-05 Pth1r	-3.189467848	0.001803538	0.02098794
CHRD1	chordin-like 1	209763_at	-2.695817088	0.000746717	0.000973 Chrd1	-1.551697526	0.002026811	0.02232253
SLC7A8	solute carrier family 7 (amino acid transporter, L-type),	216092_s_at	-2.688880165	1.13037E-07	9.86E-07 Slc7a8	-2.559691378	6.33995E-05	0.00520985
HPGD	hydroxyprostaglandin dehydrogenase 15-(NAD)	203914_x_at	-2.646579139	1.90555E-05	5.64E-05 Hpgd	-1.10454782	0.007798116	0.04992863
SORD	sorbitol dehydrogenase	201562_s_at	-2.597415076	5.88235E-06	3.57E-05 Sord	-2.899485981	0.00070392	0.01266473
CYP4A11	cytochrome P450, family 4, subfamily A, polypeptide 11	207407_x_at	-2.508655668	0.000139417	0.000255 Cyp4a10	-3.113713092	0.001664018	0.0201257
ALDH6A1	Aldehyde dehydrogenase 6 family, member A1	221590_s_at	-2.452457617	4.61373E-06	3.63E-05 Aldh6a1	-1.982446182	0.002939215	0.02771009
ALDH4A1	aldehyde dehydrogenase 4 family, member A1	211552_s_at	-2.451854091	3.55945E-06	3.03E-05 Aldh4a1	-1.871531749	0.000617472	0.0119983
ALDH6A1	aldehyde dehydrogenase 6 family, member A1	221588_x_at	-2.43038225	1.31974E-07	2.71E-06 Aldh6a1	-1.982446182	0.002939215	0.02771009
MTPP	microsomal triglyceride transfer protein	205675_at	-2.381743055	2.07322E-06	2.14E-05 Mttp	-1.787608103	0.007654339	0.04934436
SLC5A2	solute carrier family 5 (sodium/glucose cotransporter),	207771_at	-2.369914513	6.51085E-06	5.75E-05 Slc5a2	-4.481132468	0.00096016	0.0148466
HPGD	hydroxyprostaglandin dehydrogenase 15-(NAD)	211548_s_at	-2.338315697	0.000170246	0.000333 Hpgd	-1.10454782	0.007798116	0.04992863
GLYAT	glycine-N-acyltransferase	206930_at	-2.251862638	0.000115628	0.00027 Glyat	-2.775284127	5.55084E-05	0.00504473
ACOT11	acyl-CoA thioesterase 11	214763_at	-2.235072924	2.08749E-08	7.65E-07 Acot11	-1.484420453	0.002724147	0.02654531
MYOM2	myomesin (M-protein) 2, 165kDa	205826_at	-2.226808239	2.87241E-08	4.24E-07 Myom2	-1.022969828	0.001887245	0.02148727
ALDH6A1	aldehyde dehydrogenase 6 family, member A1	221589_s_at	-2.197672077	6.42495E-08	3.76E-06 Aldh6a1	-1.982446182	0.002939215	0.02771009
PEPD	peptidase D	202108_at	-2.175452759	4.93677E-06	3.29E-05 Pepd	-1.830872752	0.00081598	0.01353218
ALDH6A1	aldehyde dehydrogenase 6 family, member A1	204290_s_at	-2.164829783	0.000148148	0.000334 Aldh6a1	-1.982446182	0.002939215	0.02771009
ACOX2	acyl-CoA oxidase 2, branched chain	205364_at	-2.157286716	4.24816E-07	5.23E-06 Acox2	-3.323489082	0.000511292	0.01103198
SLC22A7	solute carrier family 22 (organic anion transporter), member	220554_at	-2.123265366	6.69618E-07	1.15E-05 Slc22a7	-5.38965353	0.000136788	0.00663221
PVALB	parvalbumin	205336_at	-2.071074968	1.77356E-05	0.000134 Pvalb	-3.407752865	0.000102082	0.00597367
SLC7A8	solute carrier family 7 (amino acid transporter, L-type),	202752_x_at	-2.061690129	8.66591E-07	7.42E-06 Slc7a8	-2.559691378	6.33995E-05	0.00520985
SLC5A12	solute carrier family 5 (sodium/glucose cotransporter),	214389_at	-2.059312363	0.001985295	0.002203 Slc5a12	-2.630201033	0.000505479	0.01096844
IGFBP5	insulin-like growth factor binding protein 5	203424_s_at	-2.016426495	0.001373013	0.00285 Igfbp5	-2.01297437	0.000192901	0.0074173
CLCNKB	chloride channel Kb	205985_x_at	-1.986423828	1.48856E-05	0.000106 Clcnka	-1.498197801	0.002695267	0.02639828
NOX4	NADPH oxidase 4	219773_at	-1.985932929	1.00045E-05	4.27E-05 Nox4	-1.836920876	1.4268E-05	0.00399921
AMT	aminomethyltransferase	204294_at	-1.984117211	2.99369E-06	2.49E-05 Amt	-1.110657963	0.001876592	0.02143619
ABAT	4-aminobutyrate aminotransferase	206527_at	-1.972762668	1.67185E-09	1.47E-07 Abat	-2.141716716	0.001326203	0.0177235
CYP4A22	cytochrome P450, family 4, subfamily A, polypeptide 22	217319_x_at	-1.959585017	0.000253232	0.000499 Cyp4a12a	-5.927144395	0.000758456	0.01314909
PC	pyruvate carboxylase	204476_s_at	-1.951680563	1.60867E-05	7.49E-05 Pcx	-2.936516419	0.000643936	0.01220115
SFRP1	secreted frizzled-related protein 1	202035_s_at	-1.950635315	1.81174E-06	2.25E-05 Sfrp1	-1.998849954	0.001719076	0.0204781
GPD1	glycerol-3-phosphate dehydrogenase 1 (soluble)	204997_at	-1.945175954	3.02007E-05	0.00017 Gpd1	-2.703401934	0.000195673	0.00747941
DCXR	dicarbonyl/L-xylulose reductase	217973_at	-1.92999478	0.000543646	0.001279 Dcxr	-1.473091894	0.005709134	0.04113796
PPP1R1A	protein phosphatase 1, regulatory (inhibitor) subunit 1A	205478_at	-1.926097455	0.002032775	0.00296 Ppp1r1a	-1.944112825	8.24168E-05	0.00550813
KCNJ1	potassium inwardly-rectifying channel, subfamily J, member 1	210403_s_at	-1.920189654	8.67325E-05	0.000386 Kcnj1	-1.012408513	0.004065203	0.03355651
UPB1	ureidopropionase, beta	220507_s_at	-1.919958983	0.001119121	0.001647 Upb1	-3.146214492	0.000319018	0.00907159
SLC25A10	solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10	218275_at	-1.896727107	3.93002E-06	2.91E-05 Slc25a10	-2.494497366	5.53936E-06	0.00377545
FMO5	flavin containing monooxygenase 5	205776_at	-1.89634525	0.000633072	0.001136 Fmo5	-2.082342555	0.003104012	0.028708

SOSTDC1	sclerostin domain containing 1	213456_at	-1.886628644	0.002071986	0.003314	Sostdc1	-1.559017285	0.000178036	0.00715825
DHRS1	dehydrogenase/reductase (SDR family) member 1	213279_at	-1.873816782	5.29913E-07	7.48E-06	Dhrs1	-1.182946361	0.00140414	0.01832742
HGD	homogentisate 1,2-dioxygenase	214307_at	-1.852508581	1.1107E-06	1.56E-05	Hgd	-4.511245368	0.000551881	0.01140818
ALDH8A1	aldehyde dehydrogenase 8 family, member A1	220148_at	-1.844164291	0.004232756	0.003887	Aldh8a1	-3.11470589	0.001226715	0.01705625
BDH1	3-hydroxybutyrate dehydrogenase, type 1	211715_s_at	-1.844019384	3.06204E-07	6.22E-06	Bdh1	-1.411641265	0.001098585	0.01600453
EGF	epidermal growth factor	206254_at	-1.842241373	0.002390176	0.004549	Egf	-5.882192793	1.39404E-05	0.00399921
KCNJ15	potassium inwardly-rectifying channel, subfamily J, member	210119_at	-1.819943033	3.30414E-05	0.0008	Kcnj15	-2.008560667	0.004146306	0.03386576
ENTPD5	ectonucleoside triphosphate diphosphohydrolase 5	205757_at	-1.796919366	4.444E-07	5.86E-06	Entpd5	-2.104759878	0.001000389	0.01520399
SLC17A1	solute carrier family 17 (sodium phosphate), member 1	206872_at	-1.785722299	0.004117746	0.005322	Slc17a1	-3.113719826	0.000112638	0.00617555
HADH	hydroxyacyl-CoA dehydrogenase	201036_s_at	-1.784130475	1.68508E-08	4.11E-07	Hadh	-1.754518619	8.6021E-05	0.00562239
IVD	isovaleryl-CoA dehydrogenase	216958_s_at	-1.774471608	9.18733E-07	1.32E-05	Ivd	-1.70380368	0.00038394	0.00979519
PTGER3	prostaglandin E receptor 3 (subtype EP3)	210375_at	-1.769011176	0.00145229	0.002086	Ptger3	-2.309612315	0.000973167	0.01498773
SULT1C2	sulfotransferase family, cytosolic, 1C, member 2	211470_s_at	-1.754939097	0.00024948	0.000412	Sult1c2	-2.5396222	0.000774335	0.01326978
SELENBP1	selenium binding protein 1	214433_s_at	-1.743712894	3.48784E-06	3.65E-05	Selenbp1	-2.463021452	0.001099907	0.01601037
SLC22A7	solute carrier family 22 (organic anion transporter), member	212662_s_at	-1.730918862	0.000143966	0.000498	Slc22a7	-5.38965353	0.000136788	0.00663221
PPP1R16B	protein phosphatase 1, regulatory (inhibitor) subunit 16B	41577_at	-1.7234205	0.000484942	0.00117	Ppp1r16b	-1.850744883	0.000779457	0.01329374
QDPR	quinoid dihydropteridine reductase	209123_at	-1.716109811	3.73123E-07	4.66E-06	Qdpr	-1.708300911	0.000465627	0.01057855
SUOX	sulfite oxidase	204067_at	-1.699400538	2.1762E-06	2.06E-05	Suox	-2.503000307	6.32595E-06	0.00381621
CASR	calcium-sensing receptor	210577_at	-1.682483493	5.87292E-06	5.09E-05	Casr	-2.184904289	2.49048E-05	0.00426538
PCCA	propionyl CoA carboxylase, alpha polypeptide	203860_at	-1.673003462	4.41215E-05	0.000156	Pcca	-1.578279345	7.20455E-05	0.00537404
ALDH4A1	aldehyde dehydrogenase 4 family, member A1	203722_at	-1.671807451	0.002274422	0.003798	Aldh4a1	-1.871531749	0.000617472	0.0119983
PDE1A	phosphodiesterase 1A, calmodulin-dependent	208396_s_at	-1.652569943	0.000356871	0.000767	Pde1a	-1.678909423	0.001611346	0.01974978
PPP1R16B	protein phosphatase 1, regulatory (inhibitor) subunit 16B	212750_at	-1.646410415	0.000137171	0.00045	Ppp1r16b	-1.850744883	0.000779457	0.01329374
GNPDA1	glucosamine-6-phosphate deaminase 1	202382_s_at	-1.642565179	3.53315E-07	4.50E-06	Gnpda1	-1.352053267	7.51125E-05	0.00540239
FMO1	flavin containing monooxygenase 1	205666_at	-1.619178525	0.001344098	0.004401	Fmo1	-1.807041559	0.002456246	0.02495115
APOM	apolipoprotein M	205682_x_at	-1.617419412	0.001451753	0.00198	Apom	-3.129770901	0.000126897	0.00648825
USP2	ubiquitin specific peptidase 2	207213_s_at	-1.617366422	0.000100937	0.000407	Usp2	-1.567347068	0.002753083	0.02669377
ADH1C	alcohol dehydrogenase 1C (class I), gamma polypeptide	206262_at	-1.615864839	0.00034841	0.001093	Adh1	-1.648838987	0.003268909	0.02952758
HAGH	hydroxyacylglutathione hydrolase	205012_s_at	-1.601916745	2.09156E-05	0.000129	Hagh	-1.09956772	0.000358541	0.00940595
AHCYL2	adenosylhomocysteinase-like 2	212814_at	-1.601455095	4.85407E-05	0.000174	Ahcyl2	-1.963618538	7.22751E-05	0.00537962
MACROD1	MACRO domain containing 1	219188_s_at	-1.594356096	1.10204E-05	9.42E-05	MacroD1	-1.05934651	0.001385646	0.01826509
APOM	apolipoprotein M	214910_s_at	-1.580705081	0.003096197	0.003773	Apom	-3.129770901	0.000126897	0.00648825
ATP6V1B1	ATPase, H+ transporting, lysosomal 56/58kDa, V1 subunit B1	205473_at	-1.574423393	5.22045E-07	9.73E-06	Atp6v1b1	-1.388477997	0.004873641	0.03742991
HMGCL	3-hydroxymethyl-3-methylglutaryl-CoA lyase	202772_at	-1.569200852	3.31223E-05	0.000149	Hmgcl	-1.548500143	0.000304176	0.00886913
LRRC19	leucine rich repeat containing 19	220376_at	-1.549372596	0.00629781	0.006738	Lrrc19	-2.515620887	0.003100222	0.02869873
PCCB	propionyl CoA carboxylase, beta polypeptide	212694_s_at	-1.541722171	0.000260767	0.000935	Pccb	-1.138025351	0.001211491	0.01695455
CYP4A11	cytochrome P450, family 4, subfamily A, polypeptide 11	211231_x_at	-1.536796967	2.14008E-09	1.72E-07	Cyp4a10	-3.113713092	0.001664018	0.0201257
ARL4D	ADP-ribosylation factor-like 4D	203586_s_at	-1.535481283	3.45549E-09	2.28E-07	Arl4d	-1.068820283	0.001864335	0.02135059
PKLR	pyruvate kinase, liver and RBC	222078_at	-1.524988011	0.000807859	0.001259	Pklr	-1.148267141	0.001215269	0.01697177
APOO	apolipoprotein O	221620_s_at	-1.511444298	8.7945E-06	6.18E-05	Apoo	-1.796602391	0.001304336	0.01758703
FOLR1	folate receptor 1 (adult)	204437_s_at	-1.498872039	0.0284102	0.030354	Folr1	-2.551735971	0.000662371	0.0123387
HADH	hydroxyacyl-CoA dehydrogenase	211569_s_at	-1.493726017	0.00431899	0.006219	Hadh	-1.754518619	8.6021E-05	0.00562239
FMO5	flavin containing monooxygenase 5	215300_s_at	-1.488247466	0.000433869	0.001247	Fmo5	-2.082342555	0.003104012	0.028708
PTGER3	prostaglandin E receptor 3 (subtype EP3)	213933_at	-1.485209873	0.003200292	0.004227	Ptger3	-2.309612315	0.000973167	0.01498773
SORD	sorbitol dehydrogenase	201563_at	-1.485082722	0.001086867	0.002115	Sord	-2.899485981	0.00070392	0.01266473
SLC46A3	solute carrier family 46, member 3	214719_at	-1.484572779	0.000165096	0.000309	Slc46a3	-1.877036337	0.000335525	0.00918334
PINK1	PTEN induced putative kinase 1	209019_s_at	-1.479868677	8.23598E-07	6.61E-06	Pink1	-1.103277295	0.006095131	0.04294016
SLC22A13	solute carrier family 22 (organic anion transporter), member	207444_at	-1.470823156	6.52715E-07	1.11E-05	Slc22a13	-2.566232578	9.56357E-05	0.00586611
SLC26A4	solute carrier family 26, member 4	206529_x_at	-1.467914427	0.000459122	0.001182	Slc26a4	-3.376771807	4.76368E-06	0.0037192

BTD	biotinidase	204167_at	-1.45890614	2.36203E-06	1.34E-05 Btd	-1.522971298	2.14534E-05	0.0040153
COL4A3	collagen, type IV, alpha 3 (Goodpasture antigen)	222073_at	-1.451153536	0.016006296	0.019942 Col4a3	-1.469912699	0.000377879	0.00970095
DNASE1	deoxyribonuclease I	210165_at	-1.417964146	0.00058768	0.00178 Dnase1	-4.671175586	1.6512E-05	0.00399921
CYP24A1	cytochrome P450, family 24, subfamily A, polypeptide 1	206504_at	-1.414010992	0.008265023	0.013007 Cyp24a1	-1.510049363	0.007120465	0.04723016
AQP3	aquaporin 3 (Gill blood group)	39248_at	-1.399608907	0.001659832	0.001901 Aqp3	-2.517495519	0.001668169	0.02015487
ODC1	ornithine decarboxylase 1	200790_at	-1.398713305	0.000515497	0.001323 Odc1	-2.602420378	0.000168874	0.00704225
TREH	trehalase (brush-border membrane glycoprotein)	207378_at	-1.397424582	0.00026027	0.000614 Treh	-3.247663186	3.99535E-05	0.00484593
PIK3C2G	phosphoinositide-3-kinase, class 2, gamma polypeptide	215129_at	-1.39375725	1.88293E-05	0.000133 Pik3c2g	-3.418040021	1.00463E-05	0.00399921
TBC1D13	TBC1 domain family, member 13	218596_at	-1.391369094	4.36453E-07	5.07E-06 Tbc1d13	-1.258200184	0.000196285	0.00747941
KMO	kynurenine 3-monooxygenase (kynurenine 3-hydroxylase)	205307_s_at	-1.386286333	0.00367475	0.00493 Kmo	-2.715927539	0.0041161	0.03379207
AQP7	aquaporin 7	206955_at	-1.363651	4.01309E-07	5.94E-06 Aqp7	-1.371670339	0.000307009	0.00890683
ACADSB	acyl-CoA dehydrogenase, short/branched chain membrane associated guanylate kinase, WW and PDZ domain containing 2	205355_at	-1.36103382	0.000325589	0.000696 Acadsb	-1.375378643	0.001192572	0.01680943
MAGI2	3-hydroxyisobutyryl-CoA hydrolase	209737_at	-1.359881807	0.010555344	0.015948 Magi2	-1.291076419	0.000576431	0.01160877
HIBCH	TBC1 domain family, member 13	213374_x_at	-1.357921262	0.000125807	0.000405 Hibch	-1.714143897	0.00038465	0.00979519
TBC1D13	N-acetyltransferase 8B (GCN5-related, putative,	44696_at	-1.299975324	2.32073E-06	1.42E-05 Tbc1d13	-1.258200184	0.000196285	0.00747941
NAT8B	aquaporin 6, kidney specific	206964_at	-1.280371919	0.013948512	0.013619 Cml1	-4.881253657	2.03494E-06	0.0037192
AQP6	solute carrier family 2 (facilitated glucose transporter),	216219_at	-1.279410557	5.698E-05	0.000224 Aqp6	-2.275537265	0.001733419	0.02055372
SLC2A2	PDZ domain containing 3	206535_at	-1.278439676	0.014363411	0.013487 Slc2a2	-3.262860473	3.04666E-05	0.00448409
PDZD3	Dnaj (Hsp40) homolog, subfamily C, member 6	220303_at	-1.272795376	4.6708E-06	2.52E-05 Pdzd3	-2.043494721	0.002138392	0.02307684
DNAJC6	serum/glucocorticoid regulated kinase 2	204720_s_at	-1.26470978	0.001280433	0.016236 Dnajc6	-1.970810033	0.000828564	0.01364324
SGK2	UDP glucuronosyltransferase 2 family, polypeptide B28	220357_s_at	-1.257151492	8.20754E-06	5.02E-05 Sgk2	-3.144518601	3.77257E-05	0.00478125
UGT2B28	phytanoyl-CoA 2-hydroxylase	211682_x_at	-1.253569549	0.000458596	0.005564 Ugt2b37	-5.804949298	6.96329E-05	0.00537274
PHYH	emopamil binding protein (sterol isomerase)	203335_at	-1.251983761	4.15818E-05	0.000154 Phyh	-2.321044983	0.000258218	0.00834168
EBP	claudin 10	202735_at	-1.248341327	1.88252E-06	2.54E-05 Ebp	-1.667550145	9.66442E-05	0.00588053
CLDN10	chromosome 21 open reading frame 33	205328_at	-1.242757043	0.007108696	0.008036 Cldn10	-1.559497136	0.000229642	0.00794339
C21orf33	aconitase 2, mitochondrial	202217_at	-1.241093341	0.000159099	0.000484 D10Jhu81	-1.249032992	0.000637102	0.01212133
ACO2	pyroglutamyl-peptidase I	200793_s_at	-1.233882984	0.012386773	0.016372 Aco2	-1.098117997	0.000134722	0.00660499
PGPEP1	solute carrier family 12 (potassium/chloride transporters),	219891_at	-1.211257358	0.000206447	0.000424 Pgpep1	-1.236920716	0.002344674	0.02433588
SLC12A6	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 11 (GalNAc-T11)	220740_s_at	-1.189946827	4.86563E-05	0.000209 Slc12a6	-1.466748455	0.001812725	0.02103908
GALNT11	phosphate cytidyltransferase 2, ethanolamine	219013_at	-1.187466061	0.000147103	0.000352 Galnt11	-3.504490232	2.12609E-05	0.0040153
PCYT2	acyl-CoA dehydrogenase family, member 10	209577_at	-1.179916808	4.81557E-05	0.000273 Pcyt2	-1.269096513	9.76142E-05	0.00588053
ACAD10	N-acylaminoacyl-peptide hydrolase	219986_s_at	-1.179189227	1.46259E-06	1.35E-05 Acad10	-1.922867795	7.91865E-05	0.00545212
APEH	ubiquinol-cytochrome c reductase core protein I	201284_s_at	-1.175206544	0.006183912	0.015073 Apeh	-1.897000253	1.5312E-05	0.00399921
UQCRC1	solute carrier family 12 (sodium/chloride transporters),	201903_at	-1.171188707	0.00206817	0.004994 Uqcrc1	-1.123251981	6.47745E-06	0.00381621
SLC12A3	homogentisate 1,2-dioxygenase	208354_s_at	-1.163375126	6.70235E-05	0.000334 Slc12a3	-2.378798902	0.000804958	0.01346632
HGD	glyoxylate reductase/hydroxypyruvate reductase	214308_s_at	-1.146382972	0.019406774	0.033105 Hgd	-4.511245368	0.000551881	0.01140818
GRHPR	chloride channel 5	214864_s_at	-1.135399114	0.000350799	0.000926 Grhpr	-1.872401341	0.000323686	0.00910302
CLCN5	phospholipase C, beta 1 (phosphoinositide-specific)	206704_at	-1.129812392	0.000599926	0.000934 Clcn5	-1.638146087	0.000283037	0.00870652
PLCB1	aldehyde dehydrogenase 3 family, member A2	215687_x_at	-1.126499614	7.14989E-05	0.00032 Plcb1	-2.110467204	6.08883E-05	0.00517476
ALDH3A2	solute carrier family 22 (organic anion transporter), member	202053_s_at	-1.124159636	0.000618054	0.001114 Aldh3a2	-1.473562728	0.000336105	0.00919199
SLC22A7	ketohexokinase (fructokinase)	221661_at	-1.109317052	0.000714748	0.002096 Slc22a7	-5.38965353	0.000136788	0.00663221
KHK	aconitase 1, soluble	205175_s_at	-1.106343156	0.003042404	0.003613 Khk	-3.177435931	0.000180415	0.00720005
ACO1	transmembrane and coiled-coil domains 3	207071_s_at	-1.105675481	0.0001015	0.000351 Aco1	-1.336825778	0.00064611	0.01221468
TMCO3	ATPase, H+ transporting, lysosomal 34kDa, V1 subunit D	220240_s_at	-1.105274885	0.000233427	0.000735 Tmco3	-1.866187262	0.000157579	0.00689852
ATP6V1D	ATP5S-like	214923_at	-1.104436955	4.82756E-06	3.88E-05 Atp6v1d	-1.301714937	0.000510373	0.01103198
ATP5SL	pyridoxamine 5'-phosphate oxidase	218038_at	-1.098833237	1.41707E-07	2.58E-06 Atp5sl	-1.04949825	7.8639E-05	0.00545212
PNPO		218511_s_at	-1.097552485	2.38864E-05	0.000161 Pnpo	-1.549224149	0.000291813	0.00878845

FAM107A	family with sequence similarity 107, member A	207547_s_at	-1.088629413	1.4514E-08	1.15E-06	Fam107a	-2.210317407	0.000744377	0.01302585
ENPP1	ectonucleotide pyrophosphatase/phosphodiesterase 1	205066_s_at	-1.088224603	0.004271147	0.005833	Enpp1	-1.522179212	0.004123354	0.0338235
MLX	MAX-like protein X	217910_x_at	-1.08439792	4.35034E-10	5.38E-08	Mlx	-1.121140758	0.001336694	0.01780558
MGAT3	mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase	208058_s_at	-1.081878236	2.05865E-06	2.28E-05	Mgat3	-1.448695556	0.003976683	0.03312473
CRAT	carnitine O-acetyltransferase	205843_x_at	-1.080696101	2.40255E-06	1.92E-05	Crat	-1.078575154	0.000805107	0.01346632
PKLR	pyruvate kinase, liver and RBC	210451_at	-1.078660794	0.000354206	0.000672	Pklr	-1.148267141	0.001215269	0.01697177
AASS	aminoadipate-semialdehyde synthase	210852_s_at	-1.072318729	5.19899E-07	4.71E-06	Aass	-1.788865625	0.006348041	0.04401714
IVD	isovaleryl-CoA dehydrogenase	203682_s_at	-1.054924276	0.000848728	0.001895	Ivd	-1.70380368	0.00038394	0.00979519
GRHPR	glyoxylate reductase/hydroxypyruvate reductase	216308_x_at	-1.037453227	0.003332299	0.00606	Grhpr	-1.872401341	0.000323686	0.00910302
LRPAP1	low density lipoprotein receptor-related protein associated	201186_at	-1.036533295	2.18356E-05	0.00023	Lrpap1	-1.768365403	0.00010744	0.0060728
SLC22A18	solute carrier family 22, member 18	204981_at	-1.032945824	0.008732394	0.019058	Slc22a18	-2.495895935	0.00044834	0.01040497
ALDH3A2	aldehyde dehydrogenase 3 family, member A2	202054_s_at	-1.032452069	0.00267155	0.003308	Aldh3a2	-1.473562728	0.000336105	0.00919199
FH	fumarate hydratase	214170_x_at	-1.030190241	1.20059E-06	1.26E-05	Fh1	-1.273506143	2.1489E-05	0.0040153
GRHPR	glyoxylate reductase/hydroxypyruvate reductase	201347_x_at	-1.019540397	0.005102723	0.008647	Grhpr	-1.872401341	0.000323686	0.00910302
DAPK2	death-associated protein kinase 2	206324_s_at	-1.017683748	3.58285E-06	3.92E-05	Dapk2	-1.213032438	0.000569319	0.01155113
GATM	glycine amidinotransferase (L-arginine:glycine	216733_s_at	-1.011210348	0.026266913	0.028375	Gatm	-4.01088539	0.00017515	0.00714491
ITIH2	inter-alpha (globulin) inhibitor H2	204987_at	-1.009697141	1.39668E-06	2.02E-05	Itih2	-2.024938428	0.000611129	0.01194089
ABHD14A	abhydrolase domain containing 14A	210006_at	-1.007922499	0.005118241	0.00943	Abhd14a	-1.671688267	0.000543374	0.01133035
CASR	calcium-sensing receptor	211384_s_at	-1.006016981	3.40553E-07	6.43E-06	Casr	-2.184904289	2.49048E-05	0.00426538
ALDH7A1	aldehyde dehydrogenase 7 family, member A1	208950_s_at	-1.002408048	0.001848593	0.002726	Aldh7a1	-2.689588996	4.78502E-05	0.00494666
MAGI2	membrane associated guanylate kinase, WW and PDZ domain containing 2	207702_s_at	-1.00014011	0.015209202	0.02013	Magi2	-1.291076419	0.000576431	0.01160877