

Article title:

Lactobacillus paracasei and *Lactobacillus plantarum* Strains Downregulate Proinflammatory Genes in an *Ex Vivo* System of Cultured Human Colonic Mucosa

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Online Resource 1: Comparison Control samples (cultured colon tissue) vs. DF samples (directly frozen colon tissue)

probe set	gene	Accession	EntrezGene	Description	fold change	P value
204614_at	SERPINB2: serpin peptidase inhibitor, clade B (ovalbumin), member 2	NM_002575	5055	g4505594	47,35	0,002051
204475_at	MMP1: matrix metalloproteinase 1 (interstitial collagenase)	NM_002421	4312	g13027798	40,94	0,004923
201169_s_at	BHLHB2: basic helix-loop-helix domain containing, class B, 2	BG326045	8553	Hs.171825.0	36,67	0,008539
206026_s_at	TNFAIP6: tumor necrosis factor, alpha-induced protein 6	NM_007115	7130	g6005905	29,49	0,000673
202859_x_at	IL8: interleukin 8	NM_000584	3576	g10834977	26,53	0,000799
216236_s_at	SLC2A14 /// SLC2A3: solute carrier family 2 (facilitated glucose transporter), member 3 /// solute carrier family 2 (facilitated glucose transporter), member 14	AL110298	144195 /// 6515	Hs.7594.2	20,31	0,006174
218507_at	HIG2: hypoxia-inducible protein 2	NM_013332	29923	g7019408	19,95	0,00442
243797_at	STK17B: serine/threonine kinase 17b	AW070323	9262	Hs.88297.0	19,91	0,002246
215034_s_at	TM4SF1: transmembrane 4 L six family member 1	AI189753	4071	Hs.306643.0	15,35	0,004105
213338_at	TMEM158: transmembrane protein 158	BF062629	25907	Hs.35861.0	13,66	0,001406
241031_at	NLF1: nuclear localized factor 1	BE218239	145741	Hs.202656.0	12,7	0,003261
209387_s_at	TM4SF1: transmembrane 4 L six family member 1	M90657	4071	g186803	12,14	0,00367
202464_s_at	PFKFB3: 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3	NM_004566	5209	g4758899	11,76	0,009321
204015_s_at	DUSP4: dual specificity phosphatase 4	BC002671	1846	g12803670	11,5	0,005996
209732_at	CLEC2B: C-type lectin domain family 2, member B	BC005254	9976	g13528920	11,18	0,00372
222646_s_at	ERO1L: ERO1-like (S. cerevisiae)	AW268365	30001	Hs.25740.0	10,79	0,00747

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207510_at	BDKRB1: bradykinin receptor B1	NM_000710	623	g4502390	10,58	0,006484
217997_at	PHLDA1: pleckstrin homology-like domain, family A, member 1	AI795908	22822	Hs.82101.0	10,46	0,006402
231124_x_at	LY9: lymphocyte antigen 9	AI524095	4063	Hs.111339.0	10,08	0,001776
227697_at	SOCS3: suppressor of cytokine signaling 3	AI244908	9021	Hs.311405.0	10,06	0,002741
210479_s_at	RORA: RAR-related orphan receptor A	L14611	6095	g348240	9,88	0,003666
210426_x_at	RORA: RAR-related orphan receptor A	U04897	6095	g451563	9,1	0,000614
216841_s_at	SOD2: superoxide dismutase 2, mitochondrial	X15132	6648	Hs.318885.1	9,05	0,000627
1568768_s_at	BRE: brain and reproductive organ-expressed (TNFRSF1A modulator)	AW080339	9577	Hs2.390621.1	8,9	0,006655
210517_s_at	AKAP12: A kinase (PRKA) anchor protein (gravin) 12	AB003476	9590	g2081606	8,79	0,004854
228082_at	ASAM: adipocyte-specific adhesion molecule	BF056275	79827	Hs.135121.0	8,67	0,005955
201626_at	INSIG1: insulin induced gene 1	BG292233	3638	Hs.56205.0	8,14	0,008763
205681_at	BCL2A1: BCL2-related protein A1	NM_004049	597	g4757839	8,14	0,005796
226834_at	Transcribed locus	BG112263		Hs.28462.0	7,94	0,001846
209606_at	PSCDBP: pleckstrin homology, Sec7 and coiled-coil domains, binding protein	L06633	9595	g431327	7,56	0,000822
210664_s_at	TFPI: tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	AF021834	7035	g4103170	7,49	0,002818
226497_s_at	CDNA FLJ35153 fis, clone PLACE6010765	AA149648		Hs.22968.0	7,48	0,006645
201666_at	TIMP1: TIMP metalloproteinase inhibitor 1	NM_003254	7076	g4507508	7,42	0,009464
219155_at	PITPNC1: phosphatidylinositol transfer protein, cytoplasmic 1	NM_012417	26207	g6912623	7,18	0,002508
201667_at	GJA1: gap junction protein, alpha 1, 43kDa	NM_000165	2697	g4755136	7,15	0,000745
1554283_at	CCRN4L: CCR4 carbon catabolite repression 4-like (<i>S. cerevisiae</i>)	BC021963	25819	Hs2.352352.1	7,09	0,002046
227963_at	Transcribed locus	BF515913		Hs.293354.0	6,97	0,001069
217741_s_at	ZFAND5: zinc finger, AN1-type domain 5	AW471220	7763	Hs.3776.0	6,95	0,002953
221577_x_at	GDF15: growth differentiation factor 15	AF003934	9518	g2290971	6,93	0,00593
210029_at	INDO: indoleamine-pyrrole 2,3 dioxygenase	M34455	3620	g185790	6,77	0,004939
227337_at	ANKRD37: ankyrin repeat domain 37	AA886870	353322	Hs.107381.1	6,73	0,00431
200800_s_at	HSPA1A /// HSPA1B: heat shock 70kDa protein 1A /// heat shock 70kDa protein 1B	NM_005345	3303 /// 3304	g5579469	6,66	0,004495
202948_at	IL1R1: interleukin 1 receptor, type I	NM_000877	3554	g4504658	6,03	0,00952
209386_at	TM4SF1: transmembrane 4 L six family member 1	AI346835	4071	Hs.3337.0	5,99	0,000549
201858_s_at	SRGN: serglycin	J03223	5552	g190419	5,93	0,009568
215446_s_at	LOX: lysyl oxidase	L16895	4015	Hs.102267.3	5,78	0,004408
212501_at	CEBPB: CCAAT/enhancer binding protein (C/EBP), beta	AL564683	1051	Hs.99029.0	5,7	0,007938
231766_s_at	COL12A1: collagen, type XII, alpha 1	U73778	1303	Hs.101302.0	5,7	0,006859
203887_s_at	THBD: thrombomodulin	NM_000361	7056	g4507482	5,66	0,006192

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206683_at	ZNF165: zinc finger protein 165	NM_003447	7718	g4508000	5,66	0,004904
204271_s_at	EDNRB: endothelin receptor type B	M74921	1910	g182275	5,56	0,001755
1557257_at	BCL10: B-cell CLL/lymphoma 10	AA994334	8915	Hs2.135715.1	5,51	0,001428
212902_at	SEC24A: SEC24 related gene family, member A (S. cerevisiae)	BE645231	10802	Hs.211612.0	5,5	0,000435
209544_at	RIPK2: receptor-interacting serine-threonine kinase 2	AF027706	8767	g3123886	5,46	0,005686
225265_at	RBMS1: RNA binding motif, single stranded interacting protein 1	AI580100	5937	Hs.239870.1	5,45	0,001314
212813_at	JAM3: junctional adhesion molecule 3	AA149644	83700	Hs.55016.1	5,34	0,001075
229414_at	PITPNC1: phosphatidylinositol transfer protein, cytoplasmic 1	AI676095	26207	Hs.30514.0	5,23	0,009742
36711_at	MAFF: v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian)	AL021977	23764	4848734_RC	5,22	0,001453
212154_at	SDC2: syndecan 2	AI380298	6383	Hs.1501.0	5,19	0,009799
226034_at	Homo sapiens, clone IMAGE:3881549, mRNA	BE222344		Hs.166975.4	4,94	0,000361
205193_at	MAFF: v-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian)	NM_012323	23764	g6912489	4,92	0,007278
224215_s_at	DLL1: delta-like 1 (Drosophila)	AF196571	28514	g6180181	4,92	0,008734
204298_s_at	LOX: lysyl oxidase	NM_002317	4015	g4505008	4,86	0,006232
226347_at	Hs.268231.0	AI754928		Hs.268231.0	4,84	0,000702
213943_at	TWIST1: twist homolog 1 (acrocephalosyndactyly 3; Saethre-Chotzen syndrome) (Drosophila)	X99268	7291	Hs.66744.0	4,82	0,007531
212758_s_at	ZEB1: zinc finger E-box binding homeobox 1	AI373166	6935	Hs.232068.2	4,77	0,007637
204363_at	F3: coagulation factor III (thromboplastin, tissue factor)	NM_001993	2152	g10518499	4,76	0,002975
212764_at	ZEB1: zinc finger E-box binding homeobox 1	AI806174	6935	Hs.232068.2	4,76	0,000532
215806_x_at	TARP /// TRGC2 /// TRGV9: T cell receptor gamma constant 2 /// T cell receptor gamma variable 9 /// TCR gamma alternate reading frame protein	M13231	445347 /// 6967 ///	Hs.274509.1	4,63	0,008402
201170_s_at	BHLHB2: basic helix-loop-helix domain containing, class B, 2	NM_003670	8553	g4503298	4,6	0,006134
213415_at	CLIC2: chloride intracellular channel 2	AI768628	1193	Hs.54570.0	4,56	0,003295
221881_s_at	CLIC4: chloride intracellular channel 4	AI638420	25932	Hs.25035.1	4,55	0,003947
209191_at	TUBB6: tubulin, beta 6	BC002654	84617	g12803638	4,54	0,002421
209882_at	RIT1: Ras-like without CAAX 1	AF084462	6016	g4234917	4,52	0,005573
200788_s_at	PEA15: phosphoprotein enriched in astrocytes 15	NM_003768	8682	g4505704	4,47	0,002449
209355_s_at	PPAP2B: phosphatidic acid phosphatase type 2B	AB000889	8613	g2467299	4,44	0,007166
203574_at	NFIL3: nuclear factor, interleukin 3 regulated	NM_005384	4783	g4885516	4,42	0,001073
213258_at	TFPI: tissue factor pathway inhibitor (lipoprotein-associated coagulation inhibitor)	BF511231	7035	Hs.288582.0	4,42	0,004053
220330_s_at	SAMSN1: SAM domain, SH3 domain and nuclear localization signals 1	NM_022136	64092	g11545870	4,41	0,008911
214247_s_at	DKK3: dickkopf homolog 3 (Xenopus laevis)	AU148057	27122	Hs.278503.1	4,39	0,005787
213310_at	EIF2C2: Eukaryotic translation initiation factor 2C, 2	AI613483	27161	Hs.324504.1	4,36	0,007043

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201881_s_at	ARIH1: ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophila)	NM_005744	25820	g9966762	4,34	0,005564
202129_s_at	RIOK3: RIO kinase 3 (yeast)	AW006290	8780	Hs.209061.0	4,34	0,000698
204698_at	ISG20: interferon stimulated exonuclease gene 20kDa	NM_002201	3669	g6857799	4,34	0,005161
219540_at	ZNF267: zinc finger protein 267	AU150728	10308	Hs.145498.0	4,31	0,003077
210260_s_at	TNFAIP8: tumor necrosis factor, alpha-induced protein 8	BC005352	25816	g13529163	4,25	0,001561
243918_at	Transcribed locus	AI459554		Hs.161286.0	4,2	0,004997
212689_s_at	JMJD1A: jumonji domain containing 1A	AA524505	55818	Hs.321707.0	4,18	0,006977
201300_s_at	PRNP: prion protein (p27-30) (Creutzfeldt-Jakob disease, Gerstmann-Strausler-Scheinker syndrome, fatal familial insomnia)	NM_000311	5621	g4506112	4,16	0,005317
212196_at	IL6ST: Interleukin 6 signal transducer (gp130, oncostatin M receptor)	AW242916	3572	Hs.71968.0	4,16	0,003375
227080_at	ZNF697: zinc finger protein 697	AW003092	90874	Hs.22437.0	4,16	0,001601
208296_x_at	TNFAIP8: tumor necrosis factor, alpha-induced protein 8	NM_014350	25816	g7657123	4,15	0,004896
219134_at	ELTD1: EGF, latrophilin and seven transmembrane domain containing 1	NM_022159	64123	g11545907	4,15	0,002081
205014_at	FGFBP1: fibroblast growth factor binding protein 1	NM_005130	9982	g4826753	4,14	0,009759
206577_at	VIP: vasoactive intestinal peptide	NM_003381	7432	g4507896	4,12	0,00875
225557_at	AXUD1: AXIN1 up-regulated 1	AI091372	64651	Hs.6607.0	4,11	0,002849
226348_at	Hs.268231.0	AK026764		Hs.268231.0	4,11	0,000278
222033_s_at	FLT1: Fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor)	AA058828	2321	Hs.138671.2	4,09	0,003331
212646_at	RFTN1: raftlin, lipid raft linker 1	D42043	23180	Hs.79123.1	4,03	0,000803
210538_s_at	BIRC3: baculoviral IAP repeat-containing 3	U37546	330	g1145290	4,02	0,003457
226633_at	RAB8B: RAB8B, member RAS oncogene family	AI807023	51762	Hs.95388.0	3,97	0,004072
201147_s_at	TIMP3: TIMP metalloproteinase inhibitor 3 (Sorsby fundus dystrophy, pseudoinflammatory)	BF347089	7078	Hs.245188.0	3,96	0,00443
201878_at	ARIH1: ariadne homolog, ubiquitin-conjugating enzyme E2 binding protein, 1 (Drosophila)	N25546	25820	Hs.181461.0	3,89	0,000355
205239_at	AREG /// LOC727738: amphiregulin (schwannoma-derived growth factor) /// similar to Amphiregulin precursor (AR) (Colorectum cell-derived growth factor) (CRDGF)	NM_001657	374 /// 727738	g4502198	3,88	0,003812
222343_at	BCL2L11: BCL2-like 11 (apoptosis facilitator)	AA629050	10018	Hs.50760.0	3,88	0,002542
202842_s_at	DNAJB9: DnaJ (Hsp40) homolog, subfamily B, member 9	AL080081	4189	g5262493	3,87	0,003024
201865_x_at	NR3C1: nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor)	AI432196	2908	Hs.75772.0	3,78	0,009133
202202_s_at	LAMA4: laminin, alpha 4	NM_002290	3910	g9845494	3,78	0,008419
201105_at	LGALS1: lectin, galactoside-binding, soluble, 1 (galectin 1)	NM_002305	3956	g6006015	3,77	0,006336
227099_s_at	LOC387763: hypothetical LOC387763	AW276078	387763	Hs.127824.0	3,76	0,004533
215127_s_at	RBMS1: RNA binding motif, single stranded interacting protein 1	AL517946	5937	Hs.241567.3	3,75	0,007578

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219489_s_at	NXN: nucleoredoxin	NM_017821	64359	g8923408	3,72	0,006188
201250_s_at	SLC2A1: solute carrier family 2 (facilitated glucose transporter), member 1	NM_006516	6513	g5730050	3,71	0,006447
205932_s_at	MSX1: msh homeobox 1	NM_002448	4487	g4505266	3,71	0,008203
218268_at	TBC1D15: TBC1 domain family, member 15	NM_022771	64786	g12232450	3,71	0,000989
225698_at	C5orf26: chromosome 5 open reading frame 26	BF314746	114915	Hs.12082.0	3,71	0,008224
224657_at	ERRFI1: ERBB receptor feedback inhibitor 1	AL034417	54206	Hs.11169.2	3,69	0,000093
201761_at	MTHFD2: methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methenyltetrahydrofolate cyclohydrolase	NM_006636	10797	g13699869	3,67	0,007627
209060_x_at	NCOA3: nuclear receptor coactivator 3	Ai438999	8202	Hs.225977.1	3,66	0,002962
201616_s_at	CALD1: caldesmon 1	AL577531	800	Hs.325474.0	3,64	0,009343
205453_at	HOXB2: homeobox B2	NM_002145	3212	g4504464	3,64	0,0065
201860_s_at	PLAT: plasminogen activator, tissue	NM_000930	5327	g4505860	3,61	0,006044
218871_x_at	GALNACT-2: chondroitin sulfate GalNAcT-2	NM_018590	55454	g8923965	3,61	0,008641
217028_at	CXCR4: chemokine (C-X-C motif) receptor 4	AJ224869	7852	Hs.89414.1	3,6	0,004842
218723_s_at	C13orf15: chromosome 13 open reading frame 15	NM_014059	28984	g7662650	3,6	0,005398
204194_at	BACH1: BTB and CNC homology 1, basic leucine zipper transcription factor 1	NM_001186	571	g4502352	3,59	0,008108
222989_s_at	UBQLN1: ubiquilin 1	NM_013438	29979	Hs.9589.0	3,56	0,002118
223310_x_at	PNPLA8: patatin-like phospholipase domain containing 8	AF217519	50640	g7688980	3,55	0,006044
1555355_a_at	ETS1: v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	BC017314	2113	Hs2.18063.2	3,52	0,009753
205349_at	GNA15: guanine nucleotide binding protein (G protein), alpha 15 (Gq class)	NM_002068	2769	g4504038	3,51	0,004418
204284_at	PPP1R3C: protein phosphatase 1, regulatory (inhibitor) subunit 3C	N26005	5507	Hs.303090.0	3,43	0,009448
228080_at	LAYN: layilin	BE856341	143903	Hs.133015.0	3,39	0,008871
203499_at	EPHA2: EPH receptor A2	NM_004431	1969	g4758277	3,33	0,007549
211764_s_at	UBE2D1: ubiquitin-conjugating enzyme E2D 1 (UBC4/5 homolog, yeast)	BC005980	7321	g13543662	3,33	0,006007
218472_s_at	PELO: pelota homolog (Drosophila)	NM_015946	53918	g7705599	3,24	0,007529
205269_at	LCP2: lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)	Ai123251	3937	Hs.2488.0	3,23	0,002939
212722_s_at	JMJD6: jumonji domain containing 6	AK021780	23210	Hs.72660.0	3,21	0,009956
202286_s_at	TACSTD2: tumor-associated calcium signal transducer 2	J04152	4070	Hs.23582.0	3,18	0,004999
202670_at	MAP2K1: mitogen-activated protein kinase kinase 1	Ai571419	5604	Hs.3446.0	3,15	0,002213
208290_s_at	EIF5: eukaryotic translation initiation factor 5	NM_001969	1983	g4503542	3,15	0,008403
202208_s_at	ARL4C: ADP-ribosylation factor-like 4C	BC001051	10123	g12654450	3,11	0,004748
222763_s_at	WDR33: WD repeat domain 33	AW161711	55339	Hs.48541.0	3,11	0,005599

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200669_s_at	UBE2D2 /// UBE2D3: ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast) /// ubiquitin-conjugating enzyme E2D 3 (UBC4/5 homolog, yeast)	NM_003340	7322 /// 7323	g4507776	3,1	0,000683
203313_s_at	TGIF1: TGFB-induced factor homeobox 1	NM_003244	7050	g4507472	3,08	0,007673
222792_s_at	CCDC59: coiled-coil domain containing 59	AI201880	29080	Hs.90527.0	3,05	0,006708
1554149_at	CLDND1: claudin domain containing 1	BC013610	56650	Hs2.107393.2	3,04	0,003903
208433_s_at	LRP8: low density lipoprotein receptor-related protein 8, apolipoprotein e receptor	NM_017522	7804	g8923799	3,01	0,007139
225803_at	FBXO32: F-box protein 32	AW006123	114907	Hs.61661.0	3,01	0,001405
210236_at	PPFIA1: protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 1	U22815	8500	g930340	2,99	0,003277
202558_s_at	STCH: stress 70 protein chaperone, microsomal-associated, 60kDa	NM_006948	6782	g5902125	2,98	0,009532
204337_at	RGS4: regulator of G-protein signaling 4	AL514445	5999	Hs.227571.0	2,98	0,00752
205180_s_at	ADAM8: ADAM metalloproteinase domain 8	NM_001109	101	g4557252	2,97	0,007672
221482_s_at	ARPP-19: cyclic AMP phosphoprotein, 19 kD	BC003418	10776	g13097335	2,94	0,007422
219474_at	C3orf52: chromosome 3 open reading frame 52	NM_024616	79669	g13375833	2,93	0,001776
230258_at	GLIS3: GLIS family zinc finger 3	AI277316	169792	Hs.107924.0	2,92	0,007393
210074_at	CTSL2: cathepsin L2	AF070448	1515	g3228671	2,91	0,005616
221763_at	JMJD1C: jumonji domain containing 1C	AI694023	221037	Hs.6685.0	2,86	0,000433
223586_at	ARNTL2: aryl hydrocarbon receptor nuclear translocator-like 2	AF256215	56938	g11345222	2,86	0,009433
225034_at	LOC286167: hypothetical protein LOC286167	AI885015	286167	Hs.293696.0	2,85	0,005581
221510_s_at	GLS: glutaminase	AF158555	2744	g5690371	2,82	0,004562
205013_s_at	ADORA2A: adenosine A2a receptor	NM_000675	135	g5921991	2,81	0,00599
200598_s_at	HSP90B1: heat shock protein 90kDa beta (Grp94), member 1	AI582238	7184	Hs.82689.0	2,8	0,007257
204491_at	PDE4D: phosphodiesterase 4D, cAMP-specific (phosphodiesterase E3 dunce homolog, Drosophila)	R40917	5144	Hs.172081.0	2,78	0,001135
205270_s_at	LCP2: lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)	NM_005565	3937	g7382491	2,75	0,006386
226991_at	NFATC2: Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2	AA489681	4773	Hs.102248.0	2,72	0,009195
202006_at	PTPN12: protein tyrosine phosphatase, non-receptor type 12	NM_002835	5782	g4506286	2,71	0,005359
212588_at	PTPRC: protein tyrosine phosphatase, receptor type, C	Y00062	5788	Hs.170121.1	2,69	0,005448
201844_s_at	RYBP: RING1 and YY1 binding protein	W84482	23429	Hs.7910.0	2,68	0,005257
202693_s_at	STK17A: serine/threonine kinase 17a	AW194730	9263	Hs.9075.0	2,68	0,005441
213003_s_at	CEBPD: CCAAT/enhancer binding protein (C/EBP), delta	BF061054	1052	Hs.76722.1	2,68	0,006724
202769_at	CCNG2: cyclin G2	AW134535	901	Hs.79069.0	2,66	0,00813
226863_at	FAM110C: family with sequence similarity 110, member C	AI674565	642273	Hs.8379.0	2,66	0,001469
203973_s_at	CEBPD: CCAAT/enhancer binding protein (C/EBP), delta	NM_005195	1052	g4885130	2,65	0,002806

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200868_s_at	ZNF313: zinc finger protein 313	NM_018683	55905	g8923897	2,63	0,002712
209306_s_at	SWAP70: SWAP-70 protein	AI139569	23075	Hs.153026.0	2,59	0,001975
214866_at	PLAUR: plasminogen activator, urokinase receptor	X74039	5329	Hs.179657.2	2,59	0,006346
222548_s_at	MAP4K4: mitogen-activated protein kinase kinase kinase 4	AL561281	9448	Hs.6631.0	2,59	0,003305
225032_at	FNDC3B: fibronectin type III domain containing 3B	AI141784	64778	Hs.299883.1	2,56	0,001325
209481_at	SNRK: SNF related kinase	AF226044	54861	g9295326	2,55	0,006101
227200_at	Hs.105636.0	AI871408		Hs.105636.0	2,55	0,009548
225750_at	CDNA FLJ14162 fis, clone NT2RM4002504	BE966748		Hs.10949.0	2,54	0,004894
200985_s_at	CD59: CD59 molecule, complement regulatory protein	NM_000611	966	g10835164	2,52	0,002276
212365_at	MYO1B: myosin IB	BF215996	4430	Hs.121576.0	2,5	0,00573
227371_at	BAIAP2L1: BAI1-associated protein 2-like 1	AA496034	55971	Hs.23449.1	2,5	0,006517
203108_at	GPRC5A: G protein-coupled receptor, family C, group 5, member A	NM_003979	9052	g12056470	2,49	0,006935
201325_s_at	EMP1: epithelial membrane protein 1	NM_001423	2012	g4503558	2,48	0,002734
209501_at	CDR2: cerebellar degeneration-related protein 2, 62kDa	AL582414	1039	Hs.75124.0	2,47	0,000957
223611_s_at	LNK1: ligand of numb-protein X 1	AI738919	84708	Hs.66295.1	2,47	0,008215
205100_at	GFPT2: glutamine-fructose-6-phosphate transaminase 2	NM_005110	9945	g4826741	2,46	0,006286
219774_at	CCDC93: coiled-coil domain containing 93	NM_019044	54520	g9506632	2,46	0,001265
222602_at	UBE1L2: ubiquitin-activating enzyme E1-like 2	AW296050	55236	Hs.59838.0	2,45	0,007434
223070_at	SELK: selenoprotein K	AF085359	58515	g5114052	2,45	0,00861
201266_at	TXNRD1: thioredoxin reductase 1	NM_003330	7296	g4507746	2,42	0,004514
208936_x_at	LGALS8: lectin, galactoside-binding, soluble, 8 (galectin 8)	AF074000	3964	g5577965	2,41	0,006612
200799_at	HSPA1A: heat shock 70kDa protein 1A	NM_005345	3303	g5579469	2,4	0,001112
201830_s_at	NET1: neuroepithelial cell transforming gene 1	NM_005863	10276	g5031938	2,38	0,000339
226153_s_at	CNOT6L: CCR4-NOT transcription complex, subunit 6-like	AW514857	246175	Hs.183085.0	2,38	0,008171
230156_x_at	CHD2: Chromodomain helicase DNA binding protein 2	AI933049	1106	Hs.287864.0	2,38	0,004532
211458_s_at	GABARAPL1 /// GABARAPL3: GABA(A) receptor-associated protein like 1 /// GABA(A) receptors associated protein like 3	AF180519	23710 /// 23766	g13241283	2,34	0,00569
218319_at	PEL1: pellino homolog 1 (Drosophila)	NM_020651	57162	g11037062	2,34	0,007093
226227_x_at	C20orf199 /// TALDO1: transaldolase 1 /// chromosome 20 open reading frame 199	BF185165	441951 /// 6888	Hs.284158.4	2,33	0,003824
1557055_s_at	LOC643837: hypothetical protein LOC643837	BC042880	643837	Hs2.436154.1	2,33	0,005924
212241_at	Gcom1 /// GRINL1A /// LOC339970: glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A /// GRINL1A combined protein /// similar to glutamate receptor, ionotropic, N-methyl D-aspartate-like 1A isoform 1	AI632774	145781 /// 339970	Hs.6283.0	2,32	0,009382
224967_at	UGCG: UDP-glucose ceramide glucosyltransferase	W72338	7357	Hs.23703.0	2,32	0,007458

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224915_x_at	C20orf199 /// TALDO1: transaldolase 1 /// chromosome 20 open reading frame 199	AV756131	441951 /// 6888	Hs.284158.1	2,31	0,003834
201862_s_at	LRRFIP1: leucine rich repeat (in FLII) interacting protein 1	NM_004735	9208	g4758689	2,3	0,003027
209102_s_at	HBP1: HMG-box transcription factor 1	AF019214	26959	g2460168	2,29	0,002986
219426_at	EIF2C3: eukaryotic translation initiation factor 2C, 3	NM_024852	192669	g13376274	2,22	0,009136
202949_s_at	FHL2: four and a half LIM domains 2	NM_001450	2274	g4503722	2,15	0,004854
203542_s_at	KLF9: Kruppel-like factor 9	AI690205	687	Hs.150557.0	2,13	0,007894
208093_s_at	NDEL1: nudE nuclear distribution gene E homolog (A. nidulans)-like 1	NM_030808	81565	g13540599	2,11	0,006112
214438_at	HLX: H2.0-like homeobox	M60721	3142	Hs.74870.0	2,1	0,008139
201984_s_at	EGFR: epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian)	NM_005228	1956	g4885198	2,09	0,008883
217834_s_at	SYNCRIP: synaptotagmin binding, cytoplasmic RNA interacting protein	NM_006372	10492	g5453805	2,08	0,006848
211969_at	HSP90AA1: heat shock protein 90kDa alpha (cytosolic), class A member 1	BG420237	3320	Hs.289088.4	2,05	0,007843
1569030_s_at	NUB1: negative regulator of ubiquitin-like proteins 1	BC034716	51667	Hs2.380685.2	1,99	0,001811
204601_at	N4BP1: Nedd4 binding protein 1	NM_014664	9683	g7662203	1,97	0,001577
205263_at	BCL10: B-cell CLL/lymphoma 10	AF082283	8915	g4092066	1,96	0,004385
212008_at	UBXD2: UBX domain containing 2	N29889	23190	Hs.77495.0	1,96	0,006132
224956_at	NUFIP2: nuclear fragile X mental retardation protein interacting protein 2	AI743689	57532	Hs.24336.0	1,95	0,00989
212900_at	SEC24A: SEC24 related gene family, member A (S. cerevisiae)	AJ131244	10802	Hs.211612.0	1,94	0,000982
200984_s_at	CD59: CD59 molecule, complement regulatory protein	X16447	966	Hs.119663.0	1,93	0,002762
227408_s_at	SNX25: sorting nexin 25	AW008976	83891	Hs.42768.2	1,92	0,003327
200919_at	PHC2: polyhomeotic homolog 2 (Drosophila)	NM_004427	1912	g4758241	1,9	0,006242
221654_s_at	USP3: ubiquitin specific peptidase 3	AF077040	9960	g4689127	1,8	0,004615
200958_s_at	SDCBP: syndecan binding protein (syntenin)	NM_005625	6386	g5032082	1,78	0,003583
232033_at	USP37: ubiquitin specific peptidase 37	BE670098	57695	Hs.324696.0	1,77	0,007972
201845_s_at	RYBP: RING1 and YY1 binding protein	AB029551	23429	g6714542	1,75	0,002653
200694_s_at	DDX24: DEAD (Asp-Glu-Ala-Asp) box polypeptide 24	NM_020414	57062	g13787212	1,71	0,003422
177_at	PLD1: phospholipase D1, phosphatidylcholine-specific	U38545	5337	U38545	-1,79	0,00571
228959_at	CDNA clone IMAGE:5262734	AI676241		Hs.296031.0	-1,82	0,004494
203775_at	SLC25A13: solute carrier family 25, member 13 (citrin)	NM_014251	10165	g7657580	-1,84	0,005585
227116_at	Transcribed locus	AI934828		Hs.190044.0	-1,85	0,007773
218313_s_at	GALNT7: UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 7 (GalNAc-T7)	NM_017423	51809	g8393408	-1,89	0,004957
208920_at	SRI: sorcin	AV752215	6717	Hs.300741.0	-1,93	0,004063
202850_at	ABCD3: ATP-binding cassette, sub-family D (ALD), member 3	NM_002858	5825	g10947125	-1,95	0,003292

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218138_at	MKKS: McKusick-Kaufman syndrome	NM_018848	8195	g9055271	-1,95	0,005579
224596_at	SLC44A1: solute carrier family 44, member 1	AI634866	23446	Hs.179902.1	-1,97	0,006011
244052_at	CBR4: carbonyl reductase 4	AI469277	84869	Hs.128016.0	-1,97	0,009068
209385_s_at	PROSC: proline synthetase co-transcribed homolog (bacterial)	AL136616	11212	g12052757	-1,99	0,008512
203359_s_at	MYCBP: c-myc binding protein	AL525412	26292	Hs.78221.0	-2,02	0,007442
209459_s_at	ABAT: 4-aminobutyrate aminotransferase	AF237813	18	g9963907	-2,08	0,007911
203974_at	HDHD1A: haloacid dehalogenase-like hydrolase domain containing 1A	NM_012080	8226	g6912345	-2,09	0,008874
239363_at	Transcribed locus	BE328720		Hs.280651.0	-2,11	0,005038
218888_s_at	NETO2: neuropilin (NRP) and tolloid (TLL)-like 2	NM_018092	81831	g8922419	-2,15	0,007655
202772_at	HMGCL: 3-hydroxymethyl-3-methylglutaryl-Coenzyme A lyase (hydroxymethylglutaricaciduria)	NM_000191	3155	g4504426	-2,19	0,008995
219547_at	COX15: COX15 homolog, cytochrome c oxidase assembly protein (yeast)	NM_004376	1355	g4758035	-2,21	0,005642
220161_s_at	EPB41L4B: erythrocyte membrane protein band 4.1 like 4B	NM_019114	54566	g9506568	-2,25	0,007866
229426_at	COX5A: cytochrome c oxidase subunit Va	BF196691	9377	Hs.181028.2	-2,25	0,001161
224989_at	Full-length cDNA clone CS0DE011YO20 of Placenta of Homo sapiens (human)	AI824013		Hs.122489.0	-2,26	0,009242
204779_s_at	HOXB7: homeobox B7	NM_004502	3217	g4758551	-2,31	0,007854
218186_at	RAB25: RAB25, member RAS oncogene family	NM_020387	57111	g9966860	-2,31	0,005598
213333_at	MDH2: malate dehydrogenase 2, NAD (mitochondrial)	AL520774	4191	Hs.111076.1	-2,33	0,00178
225371_at	GLE1L: GLE1 RNA export mediator-like (yeast)	AI638714	2733	Hs.169363.1	-2,38	0,003202
1553954_at	ALG14: asparagine-linked glycosylation 14 homolog (<i>S. cerevisiae</i>)	BU682208	199857	Hs2.124005.1	-2,45	0,006578
202217_at	C21orf33: chromosome 21 open reading frame 33	NM_004649	8209	g5031690	-2,47	0,00498
213169_at	SEMA5A: sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A	BG109855	9037	Hs.49476.0	-2,47	0,001627
221817_at	DOLPP1: dolichyl pyrophosphate phosphatase 1	AI684664	57171	Hs.21701.0	-2,52	0,007867
209711_at	SLC35D1: solute carrier family 35 (UDP-glucuronic acid/UDP-N-acetylgalactosamine dual transporter), member D1	N80922	23169	Hs.82635.0	-2,55	0,003596
219388_at	GRHL2: grainyhead-like 2 (<i>Drosophila</i>)	NM_024915	79977	g13376381	-2,65	0,005785
236548_at	GIPC2: GIPC PDZ domain containing family, member 2	AL044570	54810	Hs.147975.0	-2,69	0,005518
201886_at	WDR23: WD repeat domain 23	NM_025230	80344	g13489107	-2,74	0,006444
219709_x_at	C16orf24: chromosome 16 open reading frame 24	NM_023933	65990	g13027599	-2,75	0,00832
222886_at	Hs.18740.0	AK025762		Hs.18740.0	-2,75	0,006308
206698_at	XK: X-linked Kx blood group (McLeod syndrome)	NM_021083	7504	g10835266	-2,76	0,003018
225286_at	ARSD: arylsulfatase D	AI741110	414	Hs.19978.5	-2,84	0,008708
226041_at	NAPE-PLD: N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D	BF382393	222236	Hs.210706.0	-2,92	0,004125

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1552257_a_at	TLL12: tubulin tyrosine ligase-like family, member 12	NM_015140	23170	Hs.82563.1	-2,99	0,00784
218272_at	FLJ20699: hypothetical protein FLJ20699	NM_017931	55020	g8923627	-3,02	0,007276
225846_at	RBM35A: RNA binding motif protein 35A	BF001941	54845	Hs.24743.1	-3,07	0,000518
223183_at	AGPAT3: 1-acylglycerol-3-phosphate O-acyltransferase 3	AI928403	56894	Hs.284123.0	-3,09	0,003678
228400_at	SHROOM3: shroom family member 3	AW025141	57619	Hs.27196.0	-3,11	0,002418
205709_s_at	CDS1: CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 1	NM_001263	1040	g4502756	-3,16	0,001627
225623_at	KIAA1737: KIAA1737	AI621225	85457	Hs.22452.0	-3,19	0,006238
225536_at	TMEM54: transmembrane protein 54	AL545105	113452	Hs.109748.0	-3,24	0,009014
218916_at	ZNF768: zinc finger protein 768	NM_024671	79724	g13375931	-3,25	0,006702
229852_at	NMNAT1: nicotinamide nucleotide adenylyltransferase 1	AW779092	64802	Hs.58251.0	-3,36	0,006675
209635_at	AP1S1: adaptor-related protein complex 1, sigma 1 subunit	BC003561	1174	g13097710	-3,44	0,004161
226185_at	CDNA: FLJ23044 fis, clone LNG02454	AK026697		Hs.52620.2	-3,46	0,000729
210608_s_at	FUT2: fucosyltransferase 2 (secretor status included)	BC001899	2524	g12804894	-3,58	0,002925
206149_at	CHP2: calcineurin B homologous protein 2	NM_022097	63928	g11545810	-3,89	0,006678
236219_at	TMEM20: transmembrane protein 20	AI452512	159371	Hs.134069.0	-4,81	0,00259
222760_at	ZNF703: zinc finger protein 703	BG290193	80139	Hs.288042.0	-6,03	0,004193