

## Supplementary Table S1. Affymetrix microarray analysis

Expression profiles of four inflammatory HCA (IHCA) were compared to those of four non-tumour livers (NTL). Data are expressed as the mean-fold difference in gene expression in IHCA relative to NTL.

Unigene ID	Ensembl Gene ID	Gene Symbol	Fold change ratio IHCA/NTL	P-value
Hs.75498	ENSG00000115009	CCL20	219.8	3.7E-04
Hs.494337	ENSG00000135052	GOLPH2	129.0	3.1E-05
Hs.382202	ENSG00000133048	CHI3L1	103.3	5.2E-04
Hs.49407	ENSG00000115386	REG1A	100.4	2.7E-04
Hs.306834	ENSG00000119782	FKBP1B	84.5	1.4E-04
Hs.368632	ENSG00000170214	ADRA1B	57.9	5.0E-06
Hs.332053	ENSG00000173432	SAA1	33.1	1.2E-04
Hs.148909	ENSG00000134121	CHL1	30.2	3.8E-04
Hs.44532	ENSG00000197402	UBD	30.2	4.0E-07
Hs.131269	ENSG00000118849	RARRES1	29.9	1.0E-03
Hs.183114	ENSG00000088756	ARHGAP28	28.3	0.0E+00
Hs.13349	ENSG00000163531	NFASC	21.0	5.7E-14
Hs.21422	ENSG00000091129	NRCAM	20.2	1.0E-07
Hs.407882	ENSG00000143450	OAZ3	20.0	1.7E-04
Hs.407856	ENSG00000164266	SPINK1	17.4	4.8E-04
Hs.943	ENSG00000008517	NK4	16.8	1.0E-04
Hs.431099	ENSG00000162366	MAP17	16.4	2.5E-06
Hs.466804	ENSG00000188257	PLA2G2A	15.2	1.0E-06
Hs.238756	ENSG00000177791	MYOZ1	12.6	0.0E+00
Hs.208600	ENSG00000160183	TMPRSS3	11.7	4.1E-04
Hs.531682	ENSG00000108602	ALDH3A1	11.0	6.7E-07
Hs.546335	ENSG00000138028	CGREF1	10.2	8.6E-06
Hs.268785	ENSG00000068366	ACSL4	10.2	7.5E-05
Hs.50640	ENSG00000185338	SOCS1	9.8	2.8E-04
Hs.14415	ENSG00000171311	EXOSC1	9.8	8.2E-09
Hs.127799	ENSG00000023445	BIRC3	9.1	2.7E-05
Hs.440848	ENSG00000110799	VWF	8.9	3.4E-04
Hs.385861	ENSG00000122550	KLHL7	8.2	1.4E-08
Hs.546468	ENSG00000179038	LOC94431	8.1	0.0E+00
Hs.513316	ENSG00000103199	ZNF500	8.0	4.0E-07
Hs.2704	ENSG00000176153	GPX2	7.9	7.5E-06
Hs.435735	ENSG00000138074	SLC5A6	7.6	5.0E-07
Hs.76452	ENSG00000132693	CRP	7.3	5.6E-04
Hs.56319	ENSG00000101441	CST4	7.2	3.6E-04
Hs.522373	ENSG00000148180	GSN	7.2	9.3E-06
Hs.350321	ENSG00000165731	RET	7.1	7.9E-06
Hs.2303	ENSG00000130427	EPO	6.8	2.1E-07
Hs.404568	ENSG00000107521	HPS1	6.7	4.7E-08
Hs.95162		KCNQ1OT1	6.7	1.2E-07
Hs.486031	ENSG00000112249	ASCC3	6.2	2.2E-05
Hs.258326	ENSG00000103528	LOC51760	6.2	4.4E-04
Hs.190043	ENSG00000130150	MOSPD2	6.1	2.0E-06
Hs.493275	ENSG00000137397	TRIM31	6.0	7.2E-07
Hs.502759	ENSG00000149541	B3GAT3	6.0	1.5E-07
Hs.227817	ENSG00000140379	BCL2A1	5.9	4.3E-04
Hs.295626	ENSG00000131355	EMR3	5.7	0.0E+00
Hs.479766	ENSG00000134851	TPARL	5.6	1.6E-04
Hs.151220	ENSG00000129116	KIAA0992	5.5	1.6E-04
Hs.250281	ENSG00000158296	SLC13A3	5.2	1.9E-06
Hs.441783	ENSG00000185567	C14orf78	5.1	1.8E-05
Hs.293130	ENSG00000112303	VNN2	4.9	1.7E-05
Hs.130989	ENSG00000111319	SCNN1A	4.8	9.5E-04
Hs.437083	ENSG00000114388	TUSC4	4.7	0.0E+00
Hs.443160	ENSG00000176920	FUT2	4.6	3.2E-04
Hs.269128	ENSG00000170145	PPP2R1B	4.6	1.9E-04
Hs.352018	ENSG00000168394	TAP1	4.6	7.3E-04
Hs.36566	ENSG00000106683	LIMK1	4.5	1.4E-05
Hs.470457	ENSG00000082438	COBL1	4.4	3.3E-04
Hs.502328	ENSG00000026508	CD44	4.4	8.9E-04
Hs.129708	ENSG00000125735	TNFSF14	4.3	5.9E-04
Hs.517033	ENSG00000198959	TGM2	4.3	2.1E-04
Hs.8261	ENSG00000171621	SSB1	4.2	9.6E-04
Hs.533446	ENSG00000164929	BAALC	4.2	4.9E-04
Hs.155048	ENSG00000187244	LU	4.2	2.0E-04
Hs.380250	ENSG00000163565	IFI16	4.2	3.2E-04
Hs.271955	ENSG00000145779	TNFAIP8	4.1	5.4E-04
Hs.515126	ENSG00000090339	ICAM1	4.0	2.0E-04
Hs.221889	ENSG00000060138	CSDA	4.0	2.1E-05
Hs.190495	ENSG00000136235	GPNMB	4.0	0.0E+00
Hs.501280	ENSG00000166033	PRSS11	3.9	3.6E-06
Hs.268887	ENSG00000164543	STK17A	3.9	8.0E-04
Hs.521973	ENSG00000101940	WDR13	3.9	5.2E-05
Hs.386567	ENSG00000162645	GBP2	3.8	1.2E-04
Hs.351327	ENSG00000140365	COMMD4	3.8	5.3E-15
Hs.487046	ENSG00000112096	SOD2	3.8	3.0E-04
Hs.370725	ENSG00000141447	OSBPL1A	3.7	5.8E-10
Hs.154078	ENSG00000129988	LBP	3.7	1.5E-04
Hs.449009	ENSG00000179403	WARP	3.6	6.0E-06
Hs.464469	ENSG00000101605	MYOM1	3.6	1.6E-04
Hs.443687	ENSG00000115641	FHL2	3.6	9.3E-04
Hs.501778	ENSG00000132274	TRIM22	3.6	3.8E-04
Hs.144496	ENSG00000112699	GMDS	3.5	1.1E-11
Hs.463045	ENSG00000108773	GCN5L2	3.5	3.2E-05
Hs.437599	ENSG00000110756	HPS5	3.4	6.4E-04
Hs.18858	ENSG00000105499	PLA2G4C	3.4	3.4E-07
Hs.491805	ENSG00000198846	TOX	3.4	9.2E-04
Hs.4205	ENSG00000074276	PC-LKC	3.3	7.3E-05
Hs.79411	ENSG00000117748	RPA2	3.3	5.0E-06
Hs.125867	ENSG00000196405	EVL	3.3	1.1E-15

Hs.187284	ENSG00000116183	PAPPA2	3.3	1.4E-07
Hs.462684	ENSG00000173012	DKFZp667M2411	3.2	3.0E-08
Hs.208544	ENSG00000135750	KCNK1	3.2	5.9E-04
Hs.2161	ENSG00000197405	C5R1	3.1	9.0E-04
Hs.94865	ENSG00000197905	TEAD4	3.1	1.7E-04
Hs.408061	ENSG00000166900	FABP5	3.1	8.0E-04
Hs.248116	ENSG00000173578	XCR1	3.0	1.4E-11
Hs.12211	ENSG00000181830	SLC35C1	3.0	9.2E-05
Hs.61635	ENSG00000164647	STEAP	3.0	1.4E-04
Hs.519884	ENSG00000111846	GCNT2	3.0	1.1E-10
Hs.77961	ENSG00000198638	HLA-B	3.0	6.3E-04
Hs.474737	ENSG00000128284	APOL3	3.0	1.5E-04
Hs.138378	ENSG00000196954	CASP4	2.9	2.9E-05
Hs.517070	ENSG00000124107	SLP1	2.9	3.5E-05
Hs.194754	ENSG00000117597	MGC29875	2.9	4.9E-04
Hs.27695	ENSG00000101871	MID1	2.9	4.3E-04
Hs.387856	ENSG00000100154	KIAA1043	2.9	9.8E-05
Hs.129944	ENSG00000164283	ESM1	2.9	9.9E-04
Hs.172684	ENSG00000168899	VAMP5	2.9	8.8E-04
Hs.513141	ENSG00000182054	IDH2	2.8	5.8E-04
Hs.347270	ENSG00000168384	HLA-DPA1	2.8	6.3E-08
Hs.512152	ENSG00000187888	HLA-G	2.8	8.9E-04
Hs.463059	ENSG00000168610	STAT3	2.8	2.8E-04
Hs.115838	ENSG00000103534	TMC5	2.8	4.0E-07
Hs.381167	ENSG0000021355	SERPINB1	2.8	7.4E-04
Hs.440168	ENSG00000172348	DSCR1L1	2.8	7.9E-08
Hs.529493	ENSG00000204657	OR2H2	2.7	6.8E-04
Hs.519972	ENSG00000137403	HLA-F	2.7	5.0E-04
Hs.304475	ENSG0000043462	LCP2	2.7	2.4E-07
Hs.50649	ENSG00000115129	TP53I3	2.7	1.8E-04
Hs.2131	ENSG00000166148	AVPR1A	2.7	2.0E-04
Hs.371021	ENSG00000162511	LAPTM5	2.7	4.5E-11
Hs.514038	ENSG00000132589	FLOT2	2.7	1.9E-04
Hs.74120	ENSG00000148671	C10orf116	2.7	5.8E-07
Hs.471783	ENSG00000132329	RAMP1	2.7	3.9E-06
Hs.459049	ENSG00000136371	MTHFS	2.7	7.3E-05
Hs.107125	ENSG00000130300	PLVAP	2.7	4.7E-04
Hs.513488	ENSG0000013364	MVP	2.6	1.1E-04
Hs.12956	ENSG00000108392	TAX1BP3	2.6	7.6E-05
Hs.352548	ENSG00000126246	FLJ22573	2.6	1.4E-04
Hs.458425	ENSG00000182782	GPR109B	2.6	5.4E-04
Hs.467101	ENSG00000130529	TRPM4	2.6	2.8E-04
Hs.534125	ENSG00000198479	HLA-C	2.6	9.4E-04
Hs.351279	ENSG00000124546	HLA-DMA	2.6	8.2E-04
Hs.482017	ENSG00000197147	TA-LRRP	2.6	6.4E-06
Hs.534392	ENSG00000100196	KDELR3	2.6	1.4E-04
Hs.67928	ENSG00000163435	ELF3	2.6	5.0E-04
Hs.520414	ENSG0000027697	IFNGR1	2.6	3.0E-04
Hs.530988	ENSG00000132950	ZNF237	2.6	1.7E-04
Hs.302963	ENSG00000159674	SPON2	2.6	3.4E-04
Hs.518055	ENSG00000144749	LRIG1	2.6	3.1E-04
Hs.123352	ENSG00000175354	PTPN2	2.6	5.8E-04
Hs.131704	ENSG00000099250	NRP1	2.5	5.5E-11
Hs.459538	ENSG00000184254	ALDH1A3	2.5	8.4E-06
Hs.474596	ENSG00000182541	LIMK2	2.5	4.2E-03
Hs.489615	ENSG00000105835	PBEF1	2.5	9.8E-04
Hs.278430	ENSG00000168482	CYP21A2	2.5	6.8E-06
Hs.409934	ENSG00000206237	HLA-DQB1	2.5	2.3E-06
Hs.520714	ENSG00000086300	SNX10	2.5	3.5E-06
Hs.444301	ENSG00000161280	FLJ10986	2.5	9.9E-04
Hs.509554	ENSG00000100644	HIF1A	2.5	6.8E-04
Hs.387255	ENSG00000140632	N-PAC	2.5	3.0E-04
Hs.511093	ENSG00000137804	NUSAP1	2.5	4.8E-04
Hs.519033	ENSG00000137462	TLR2	2.5	4.8E-04
Hs.368623	ENSG00000152229	PSTPIP2	2.5	2.7E-04
Hs.80658	ENSG00000175567	UCP2	2.5	6.0E-04
Hs.167741	ENSG00000111801	BTN3A3	2.4	3.7E-04
Hs.438419	ENSG00000198246	SLC29A3	2.4	9.4E-08
Hs.246381	ENSG00000129226	CD68	2.4	2.6E-10
Hs.491143	ENSG00000104760	FGL1	2.4	3.5E-04
Hs.301865	ENSG00000080166	DCT	2.4	7.2E-12
Hs.388297	ENSG00000156831	FLJ32440	2.4	1.9E-06
Hs.515536	ENSG00000126458	RRAS	2.4	1.9E-09
Hs.181301	ENSG00000163131	CTSS	2.4	8.1E-07
Hs.323878	ENSG00000115902	SLC1A4	2.4	8.9E-04
Hs.17466	ENSG00000133321	RARRES3	2.4	1.4E-07
Hs.512633	ENSG00000186652	PRG2	2.4	8.0E-04
Hs.525392	ENSG00000054654	SYNE2	2.4	7.8E-04
Hs.7972	ENSG00000018189	RIPX	2.4	5.9E-04
Hs.369201	ENSG00000183087	GAS6	2.4	1.2E-03
Hs.444451	ENSG00000091436	ZAK	2.3	2.8E-04
Hs.163113	ENSG00000178927	MGC4368	2.3	2.7E-04
Hs.102471	ENSG00000112419	PHACTR2	2.3	4.9E-07
Hs.28988	ENSG00000118990	GLRX	2.3	1.4E-04
Hs.400740	ENSG00000119383	PPP2R4	2.3	4.9E-04
Hs.520049	ENSG00000196126	HLA-DRB1	2.3	2.8E-06
Hs.530077	ENSG00000105854	PON2	2.3	1.0E-04
Hs.201641	ENSG00000176788	BASP1	2.3	1.7E-07
Hs.509765	ENSG00000072110	ACTN1	2.3	3.2E-04
Hs.154654	ENSG00000138061	CYP11B1	2.3	7.2E-04
Hs.301921	ENSG00000163823	CCR1	2.3	5.0E-06
Hs.434253	ENSG00000148120	C9orf3	2.3	5.6E-04
Hs.522684	ENSG00000147130	ZNF261	2.3	1.6E-08
Hs.128686	ENSG00000070081	NUCB2	2.3	9.3E-04
Hs.99528	ENSG00000168461	RAB31	2.3	2.3E-07
Hs.495219	ENSG00000148334	PTGES2	2.3	1.3E-09
Hs.309602	ENSG00000137384	TRIM15	2.3	1.0E-03
Hs.522605	ENSG00000165175	MID1IP1	2.3	1.2E-06
Hs.446079	ENSG00000108582	CPD	2.3	3.8E-04
Hs.1706	ENSG00000092098	ISGF3G	2.2	7.4E-07

Hs.488143	ENSG00000106605	BLVRA	2.2	2.7E-04
Hs.482411	ENSG00000198605	SMA4	2.2	2.6E-03
Hs.386793	ENSG00000157566	GPX3	2.2	1.8E-04
Hs.334587	ENSG00000157110	RBPMS	2.2	6.3E-08
Hs.433529	ENSG00000142534	RPS11	2.2	1.2E-04
Hs.89890	ENSG00000173599	PC	2.2	3.2E-04
Hs.173288	ENSG00000198730	SH2BP1	2.2	1.3E-05
Hs.433300	ENSG00000158869	FCER1G	2.2	2.9E-06
Hs.355264	ENSG00000008283	CYB561	2.2	4.5E-04
Hs.280987	ENSG00000113318	MSH3	2.2	7.1E-08
Hs.446574	ENSG00000034510	TMSB10	2.2	1.4E-09
Hs.458414	ENSG00000185885	IFITM1	2.2	1.1E-09
Hs.440932	ENSG00000184640	40057	2.2	1.3E-07
Hs.143703	ENSG00000103966	EHD4	2.2	5.1E-06
Hs.8904	ENSG00000155659	VSIG4	2.2	4.0E-06
Hs.489284	ENSG00000130429	ARPC1B	2.2	9.1E-04
Hs.175473	ENSG00000106992	AK1	2.2	1.3E-04
Hs.438695	ENSG00000134285	FKBP11	2.2	2.1E-07
Hs.520048	ENSG00000168423	HLA-DRA	2.2	1.4E-07
Hs.107393	ENSG00000080822	C3orf4	2.2	3.6E-04
Hs.300834	ENSG00000143641	GALNT2	2.2	3.8E-04
Hs.381081	ENSG00000112082	PSMB9	2.2	8.8E-04
Hs.508716	ENSG00000134871	COL4A2	2.2	4.8E-07
Hs.118110	ENSG00000130303	BST2	2.2	7.3E-04
Hs.180062	ENSG00000168396	PSMB8	2.2	7.2E-05
Hs.211600	ENSG00000118503	TNFALP3	2.2	6.2E-04
Hs.350899	ENSG00000162909	CAPN2	2.2	1.4E-06
Hs.513457	ENSG00000077238	IL4R	2.2	2.7E-05
Hs.73090	ENSG00000077150	NFKB2	2.2	1.0E-04
Hs.546248	ENSG00000117984	CTSD	2.1	3.2E-05
Hs.10649	ENSG00000130775	C1orf38	2.1	7.7E-06
Hs.466791	ENSG00000167601	AXL	2.1	1.0E-05
Hs.75431	ENSG00000162551	ALPL	2.1	2.4E-04
Hs.549038	ENSG00000197499	HLA-A	2.1	5.8E-04
Hs.367992	ENSG00000141401	IMPA2	2.1	9.3E-07
Hs.148178	ENSG00000076864	RAP1GA1	2.1	1.9E-04
Hs.508644	ENSG00000134884	FLJ10154	2.1	2.4E-04
Hs.511397	ENSG00000076706	MCAM	2.1	1.5E-05
Hs.81134	ENSG00000136689	IL1RN	2.1	1.8E-06
Hs.522632	ENSG00000102265	TIMP1	2.1	6.2E-07
Hs.11923	ENSG00000058799	DJ167A19.1	2.1	4.6E-04
Hs.29106	ENSG00000112679	DUSP22	2.1	4.6E-04
Hs.436873	ENSG00000138448	ITGAV	2.1	2.4E-08
Hs.76716	ENSG00000162267	ITIH3	2.1	8.6E-07
Hs.381008	ENSG00000137361	HLA-E	2.1	4.9E-06
Hs.511605	ENSG00000182718	ANXA2	2.1	4.7E-06
Hs.517543	ENSG00000100029	PES1	2.1	8.9E-04
Hs.484047	ENSG00000113645	KIBRA	2.0	4.5E-04
Hs.369397	ENSG00000120708	TGFB1	2.0	1.4E-04
Hs.186486	ENSG00000197442	MAP3K5	2.0	5.6E-08
Hs.376046	ENSG00000186470	BTN3A2	2.0	1.1E-04
Hs.467701	ENSG00000115758	ODC1	2.0	1.6E-06
Hs.50842	ENSG00000068079	IFI35	2.0	7.5E-08
Hs.13640	ENSG00000169855	ROBO1	2.0	5.3E-05
Hs.404289	ENSG00000136842	TMOD1	2.0	8.6E-04
Hs.133397	ENSG00000091409	ITGA6	2.0	1.7E-07
Hs.159430	ENSG00000075420	FNDC3B	2.0	3.0E-06
Hs.166120	ENSG00000185507	IRF7	2.0	2.3E-06
Hs.523696	ENSG00000110042	DTX4	2.0	1.2E-04
Hs.491148	ENSG00000078674	PCM1	2.0	3.2E-06
Hs.81791	ENSG00000164761	TNFRSF11B	2.0	5.8E-04
Hs.404119	ENSG00000104522	TSTA3	2.0	6.5E-04
Hs.23131	ENSG00000140859	KIFC3	2.0	2.9E-04
Hs.421194	ENSG00000169902	TPST1	2.0	4.1E-04
Hs.522412	ENSG00000171159	C9orf16	2.0	9.3E-04
Hs.523852	ENSG00000110092	CCND1	2.0	1.1E-04
Hs.517240	ENSG00000159128	IFNGR2	2.0	4.6E-04
Hs.491767	ENSG00000147507	LYN	1.9	4.8E-06
Hs.140452	ENSG00000105355	M6PRBP1	1.9	2.9E-04
Hs.535499	ENSG00000131759	RARA	1.9	5.1E-07
Hs.343522	ENSG00000058668	ATP2B4	1.9	6.5E-04
Hs.450972	ENSG00000102804	TGFB14	1.9	9.2E-04
Hs.517168	ENSG00000117063	TAGLN2	1.9	5.6E-06
Hs.14601	ENSG00000180353	HCLS1	1.9	1.1E-05
Hs.435765	ENSG00000138792	ENPEP	1.9	6.1E-06
Hs.459855	ENSG00000140650	PMM2	1.9	5.0E-04
Hs.272011	ENSG00000086062	B4GALT1	1.9	9.8E-06
Hs.289092	ENSG00000103187	COTL1	1.9	1.5E-06
Hs.489033	ENSG00000085563	ABCB1	1.9	5.0E-04
Hs.278573	ENSG00000085063	CD59	1.9	5.8E-04
Hs.282594	ENSG00000134389	CFHL5	1.9	8.0E-04
Hs.35947	ENSG00000129071	MBD4	1.9	1.3E-05
Hs.405667	ENSG00000172116	CD8B1	1.9	9.5E-06
Hs.408909	ENSG00000113384	GOLPH3	1.9	5.8E-05
Hs.123232	ENSG00000140025	C14orf143	1.9	1.0E-05
Hs.454534	ENSG00000105698	USF2	1.9	6.9E-04
Hs.517666	ENSG00000100243	DIA1	1.9	3.3E-07
Hs.149239	ENSG00000125266	EFNB2	1.9	9.6E-06
Hs.518301	ENSG00000177311	FLJ35036	1.9	8.8E-04
Hs.369762	ENSG00000176890	TYMS	1.9	4.4E-04
Hs.87752	ENSG00000147065	MSN	1.8	1.4E-07
Hs.515169	ENSG00000104907	FLJ20244	1.8	1.4E-05
Hs.146447	ENSG00000166147	FBN1	1.8	4.8E-06
Hs.473256	ENSG00000130702	LAMA5	1.8	7.8E-06
Hs.498173	ENSG00000166311	SMPD1	1.8	5.8E-05
Hs.534847	ENSG00000166308	C4A	1.7	1.1E-06
Hs.171142	ENSG00000108381	ASPA	-1.5	8.3E-06
Hs.269180	ENSG00000095203	EPB41L4B	-1.6	9.4E-06
Hs.487925	ENSG00000178104	PDE4DIP	-1.7	2.5E-07
Hs.180919	ENSG00000115738	ID2	-1.8	1.3E-06

Hs.499674	ENSG00000165471	MBL2	-1.8	3.0E-06
Hs.552573	ENSG00000164850	GPR30	-1.8	2.5E-04
Hs.235390	ENSG00000121413	FLJ12895	-1.9	9.4E-04
Hs.300863	ENSG00000185513	L3MBTL	-1.9	9.8E-03
Hs.318894	ENSG00000112414	GPR126	-1.9	4.8E-04
Hs.368243	ENSG00000023839	ABCC2	-1.9	7.8E-04
Hs.343911	ENSG00000149547	EI24	-1.9	3.3E-08
Hs.164226	ENSG00000137801	THBS1	-1.9	1.6E-08
Hs.250	ENSG00000158125	XDH	-1.9	7.9E-05
Hs.271264	ENSG00000001084	GCLC	-1.9	8.5E-04
Hs.546303	ENSG00000100380	ST13	-1.9	1.0E-08
Hs.233220	ENSG00000197114	FLJ20406	-1.9	7.6E-06
Hs.287749	ENSG00000109929	SC5DL	-2.0	1.3E-06
Hs.520710	ENSG00000128607	KIAA0265	-2.0	2.6E-04
Hs.11900	ENSG00000197114	ZGPAT	-2.0	9.4E-06
Hs.184507	ENSG00000198338	ZG16	-2.0	9.1E-04
Hs.448520	ENSG00000003989	SLC7A2	-2.0	5.6E-04
Hs.471508	ENSG00000169047	IRS1	-2.0	7.0E-06
Hs.251415	ENSG00000181150	DIO1	-2.0	5.7E-04
Hs.427202	ENSG00000118271	TTR	-2.0	1.2E-04
Hs.161220	ENSG00000139597	CGO18	-2.0	6.9E-04
Hs.149252	ENSG00000021826	CPS1	-2.0	9.5E-04
Hs.169378	ENSG00000107186	MPDZ	-2.0	1.4E-05
Hs.77293	ENSG00000179833	SERTAD2	-2.0	7.8E-04
Hs.94896	ENSG00000096092	TMEM14A	-2.1	1.9E-06
Hs.5243	ENSG00000114023	E2IG5	-2.1	8.8E-04
Hs.408790	ENSG00000185808	DSCR5	-2.1	1.4E-05
Hs.132225	ENSG00000145675	PIK3R1	-2.1	8.6E-04
Hs.335139	ENSG00000136636	KCTD3	-2.1	5.2E-06
Hs.496459	ENSG00000143337	LAP1B	-2.1	5.4E-06
Hs.223858	ENSG00000123454	DBH	-2.1	2.4E-07
Hs.495912	ENSG00000198947	DMD	-2.1	5.4E-06
Hs.107003	ENSG00000100814	CCNB1IP1	-2.1	7.9E-04
Hs.144795	ENSG00000156113	KCNMA1	-2.1	1.5E-05
Hs.7303	ENSG00000144852	NR1I2	-2.1	1.1E-05
Hs.552	ENSG00000145545	SRD5A1	-2.1	2.9E-12
Hs.502176	ENSG00000205213	LGR4	-2.1	1.0E-05
Hs.12393	ENSG00000088451	TGDS	-2.1	6.7E-04
Hs.546304	ENSG00000197165	SULT1A2	-2.1	5.7E-04
Hs.460587	ENSG00000132207	SULT1A3	-2.1	1.3E-08
Hs.102308	ENSG00000121361	KCNJ8	-2.1	1.2E-05
Hs.325404	ENSG00000171759	PAH	-2.2	7.0E-05
Hs.150557	ENSG00000119138	KLF9	-2.2	9.5E-04
Hs.371763	ENSG00000176201	GBA3	-2.2	3.4E-05
Hs.80409	ENSG00000116717	GADD45A	-2.2	6.0E-11
Hs.268700	ENSG00000172828	FLJ21736	-2.2	3.7E-06
Hs.145442	ENSG00000169032	MAP2K1	-2.2	7.4E-04
Hs.156540	ENSG00000166922	SGNE1	-2.2	4.8E-04
Hs.145384	ENSG00000149124	GLYAT	-2.3	6.5E-05
Hs.409368	ENSG00000147654	EBAG9	-2.3	1.5E-04
Hs.407190	ENSG00000096060	FKBP5	-2.3	5.2E-06
Hs.142	ENSG00000196502	SULT1A1	-2.3	1.2E-04
Hs.525205	ENSG00000165795	NDRG2	-2.3	1.9E-04
Hs.326035	ENSG00000120738	EGR1	-2.3	4.7E-11
Hs.500761	ENSG00000141526	SLC16A3	-2.3	1.4E-08
Hs.83190	ENSG00000169710	FASN	-2.3	1.1E-11
Hs.232054	ENSG00000142494	FLJ10847	-2.3	2.6E-04
Hs.478673	ENSG00000196083	IL1RAP	-2.3	2.7E-06
Hs.118681	ENSG00000065361	ERBB3	-2.3	1.2E-06
Hs.160786	ENSG00000130707	ASS	-2.4	7.2E-04
Hs.465337	ENSG00000081913	PLEKHE1	-2.4	5.9E-05
Hs.7921		LOC221362	-2.4	2.9E-04
Hs.160562	ENSG00000017427	IGF1	-2.4	8.7E-04
Hs.136885	ENSG00000127870	RNF6	-2.4	7.1E-08
Hs.80756	ENSG00000145692	BHMT	-2.4	6.6E-04
Hs.327179	ENSG00000124564	SLC17A3	-2.4	6.1E-04
Hs.8361	ENSG00000182704	TSK	-2.4	2.8E-08
Hs.483067	ENSG00000134986	C5orf13	-2.5	5.3E-08
Hs.75231	ENSG00000155380	SLC16A1	-2.5	3.4E-04
Hs.444488	ENSG00000072080	SPP2	-2.5	1.5E-07
Hs.487296	ENSG00000092621	PHGDH	-2.5	4.6E-04
Hs.97270	ENSG00000138640	FAM13A1	-2.6	6.3E-04
Hs.144879	ENSG00000130829	DUSP9	-2.6	1.4E-04
Hs.209128	ENSG00000002822	MAD1L1	-2.6	3.1E-06
Hs.510334	ENSG00000188488	SERPINA5	-2.6	8.2E-04
Hs.149032	ENSG00000196455	PIK3R4	-2.6	5.9E-04
Hs.480218	ENSG00000118777	ABCG2	-2.6	1.8E-04
Hs.25155	ENSG00000173848	NET1	-2.6	2.4E-06
Hs.443874	ENSG00000157103	SLC6A1	-2.7	6.1E-04
Hs.91747	ENSG00000070087	PFN2	-2.7	8.3E-05
Hs.126906	ENSG00000049883	PTCD2	-2.7	9.4E-04
Hs.111944	ENSG00000160870	CYP3A7	-2.7	8.2E-04
Hs.159628	ENSG00000100665	SERPINA4	-2.8	6.2E-04
Hs.143261	ENSG00000092529	CAPN3	-2.8	9.4E-07
Hs.501624	ENSG00000185187	SIGIRR	-2.8	8.7E-04
Hs.155097	ENSG00000104267	CA2	-2.8	5.2E-05
Hs.284712	ENSG00000136881	BAAT	-2.9	2.2E-04
Hs.282624	ENSG00000138109	CYP2C9	-2.9	3.0E-12
Hs.25647	ENSG00000170345	FOS	-2.9	6.3E-12
Hs.528295	ENSG00000008311	AASS	-2.9	1.3E-08
Hs.407966	ENSG00000108479	GALK1	-3.0	7.7E-12
Hs.494261	ENSG00000135069	PSAT1	-3.0	6.0E-04
Hs.8944	ENSG00000163710	PCOLCE2	-3.0	5.9E-04
Hs.302742	ENSG00000198743	MRPS6	-3.1	4.6E-05
Hs.205816	ENSG00000124568	SLC17A1	-3.1	6.2E-04
Hs.444870	ENSG00000115942	ORC2L	-3.1	2.0E-04
Hs.306220	ENSG00000021461	CYP3A43	-3.2	9.8E-04
Hs.212606	ENSG00000135423	GLS2	-3.3	9.1E-15
Hs.197043	ENSG00000117643	MAN1C1	-3.4	1.5E-10
Hs.160976	ENSG00000005187	SAH	-3.4	6.4E-15

Hs.30246	ENSG00000117479	SLC19A2	-3.4	4.8E-04
Hs.524085	ENSG00000036672	USP2	-3.5	6.6E-06
Hs.203717	ENSG00000115414	FN1	-3.5	9.4E-04
Hs.144845	ENSG00000129151	BBOX1	-3.5	1.0E-11
Hs.479898	ENSG00000109193	SULT1E1	-3.5	5.9E-04
Hs.439056	ENSG00000198470	CYP2A6	-3.9	0.0E+00
Hs.485572	ENSG00000120833	SOCS2	-4.3	1.9E-12
Hs.463375	ENSG00000198740	ZNF652	-4.4	3.5E-06
Hs.839	ENSG00000099769	IGFALS	-4.4	2.9E-04
Hs.124112	ENSG00000167165	UGT1A6	-4.4	2.5E-03
Hs.505662	ENSG00000135447	PPP1R1A	-4.5	0.0E+00
Hs.72912	ENSG00000140465	CYP1A1	-4.7	2.6E-14
Hs.87889	ENSG00000100697	DICER1	-4.9	1.9E-03
Hs.127648	ENSG00000173930	SLCO4C1	-5.0	8.9E-04
Hs.144914	ENSG00000124713	GNMT	-5.3	6.3E-04
Hs.169948	ENSG00000177272	KCNA3	-5.4	2.0E-14
Hs.418167	ENSG00000163631	ALB	-5.7	3.0E-11
Hs.150595	ENSG00000095596	CYP26A1	-5.7	1.2E-05
Hs.75678	ENSG00000125740	FOSB	-5.9	3.6E-14
Hs.127826	ENSG00000187266	EPOR	-5.9	2.2E-06
Hs.224171	ENSG00000108515	ENO3	-6.1	0.0E+00
Hs.534364	ENSG00000127831	VIL1	-6.6	4.4E-16
Hs.523332	ENSG00000065154	OAT	-6.8	2.7E-04
Hs.272499	ENSG00000100867	DHRS2	-7.0	1.6E-11
Hs.107474	ENSG00000138386	NAB1	-8.5	1.6E-04
Hs.489786	ENSG00000001626	CFTR	-9.2	8.6E-06
Hs.98280	ENSG00000080709	KCNN2	-11.3	5.7E-05
Hs.351306	ENSG00000168679	SLC16A4	-14.9	1.6E-04
Hs.724	ENSG00000126351	THRA	-17.3	1.0E-07
Hs.234775	ENSG00000171119	NRTN	-19.4	6.7E-10
Hs.307734	ENSG00000196549	MME	-20.4	3.3E-05
Hs.282409	ENSG00000165841	CYP2C19	-21.6	1.8E-05