

Table SI. Clinical characteristics of enrolled subjects.

Accession no.	Source	HBV	Sex	Age (years)
GSM437457	Non-tumor tissue	Positive	Male	50
GSM437458	HCC tissue	Positive	Male	50
GSM437459	HCC tissue	Positive	Male	49
GSM437462	Non-tumor tissue	Positive	Female	30
GSM437463	Non-tumor tissue	Positive	Male	56
GSM437464	HCC tissue	Positive	Male	56
GSM437466	Non-tumor tissue	Positive	Male	52
GSM437467	HCC tissue	Positive	Male	52
GSM437468	HCC tissue	Positive	Male	59
GSM437473	Non-tumor tissue	Positive	Male	60
GSM437474	HCC tissue	Positive	Male	60
GSM437478	HCC tissue	Positive	Male	64
GSM437479	Non-tumor tissue	Positive	Male	50
GSM437480	Non-tumor tissue	Positive	Male	48
GSM437481	Non-tumor tissue	Positive	Male	52
GSM437486	Non-tumor tissue	Positive	Female	48
GSM437487	HCC tissue	Positive	Male	69
GSM437490	Non-tumor tissue	Positive	Male	65
GSM437491	HCC tissue	Positive	Male	66
GSM437492	Non-tumor tissue	Positive	Male	45
GSM437493	HCC tissue	Positive	Male	45
GSM1523339	HCC tissue	Positive	Male	35
GSM1523352	HCC tissue	Positive	Female	21
GSM1523353	HCC tissue	Positive	Female	26
GSM1523354	HCC tissue	Positive	Male	50
GSM1523355	HCC tissue	Positive	Male	59
GSM1523359	HCC tissue	Positive	Male	40
GSM1523361	HCC tissue	Positive	Female	61
GSM1523371	HCC tissue	Positive	Male	26
GSM1523415	HCC tissue	Positive	Male	64
GSM1523419	HCC tissue	Positive	Male	44
GSM2226280	Non-tumor tissue	Positive	Male	42
GSM2226281	Non-tumor tissue	Positive	Male	56
GSM2226282	Non-tumor tissue	Positive	Female	54
GSM2226283	Non-tumor tissue	Positive	Female	41
GSM2226284	Non-tumor tissue	Positive	Female	37
GSM2226285	Non-tumor tissue	Positive	Female	33
GSM2226286	Non-tumor tissue	Positive	Male	52
GSM2226287	Non-tumor tissue	Positive	Male	35
GSM2226288	Non-tumor tissue	Positive	Male	43
GSM2226289	Non-tumor tissue	Positive	Male	44
GSM2226290	Non-tumor tissue	Positive	Female	35
GSM2226291	Non-tumor tissue	Positive	Male	58
GSM2226292	Non-tumor tissue	Positive	Male	43
GSM2226293	Non-tumor tissue	Positive	Male	34
GSM2226294	Non-tumor tissue	Positive	Male	34
GSM2226295	Non-tumor tissue	Positive	Male	58
GSM2226296	Non-tumor tissue	Positive	Male	48
GSM2226297	Non-tumor tissue	Positive	Female	48
GSM2226298	Non-tumor tissue	Positive	Female	33
GSM2226299	Non-tumor tissue	Positive	Male	37
GSM2226300	Non-tumor tissue	Positive	Male	59
GSM2226301	Non-tumor tissue	Positive	Female	37
GSM2226302	Non-tumor tissue	Positive	Female	64
GSM2226303	Non-tumor tissue	Positive	Female	37
GSM2226304	Non-tumor tissue	Positive	Male	45
GSM2226305	Non-tumor tissue	Positive	Female	40
GSM2226306	Non-tumor tissue	Positive	Female	40
GSM2226307	Non-tumor tissue	Positive	Male	60

Table SI. Continued.

Accession no.	Source	HBV	Sex	Age (years)
GSM2226308	Non-tumor tissue	Positive	Female	61
GSM2226309	Non-tumor tissue	Positive	Male	29
GSM2226310	Non-tumor tissue	Positive	Male	44
GSM2226311	Non-tumor tissue	Positive	Male	46
GSM2226312	Non-tumor tissue	Positive	Male	32
GSM2226313	Non-tumor tissue	Positive	Male	33
GSM2226314	Non-tumor tissue	Positive	Male	28
GSM2226315	Non-tumor tissue	Positive	Male	46
GSM2226316	Non-tumor tissue	Positive	Male	51
GSM2226317	Non-tumor tissue	Positive	Male	47
GSM2226318	Non-tumor tissue	Positive	Male	52
GSM2226319	Non-tumor tissue	Positive	Male	44
GSM2226320	Non-tumor tissue	Positive	Female	55
GSM2226321	Non-tumor tissue	Positive	Male	38
GSM2226322	Non-tumor tissue	Positive	Female	56
GSM2226323	Non-tumor tissue	Positive	Male	26
GSM2226324	Non-tumor tissue	Positive	Male	42
GSM2226325	Non-tumor tissue	Positive	Female	39
GSM2226326	Non-tumor tissue	Positive	Female	71
GSM2226327	Non-tumor tissue	Positive	Male	57
GSM2226328	Non-tumor tissue	Positive	Male	33
GSM2226329	Non-tumor tissue	Positive	Male	60
GSM2226330	Non-tumor tissue	Positive	Male	34
GSM2226331	Non-tumor tissue	Positive	Female	42
GSM2226332	Non-tumor tissue	Positive	Male	62
GSM2226333	Non-tumor tissue	Positive	Male	71
GSM2226334	Non-tumor tissue	Positive	Female	48
GSM2226335	Non-tumor tissue	Positive	Male	36
GSM2226336	Non-tumor tissue	Positive	Female	32
GSM2226337	Non-tumor tissue	Positive	Male	66
GSM2226338	Non-tumor tissue	Positive	Male	31
GSM2226339	Non-tumor tissue	Positive	Male	28
GSM2226340	Non-tumor tissue	Positive	Male	30
GSM2226341	Non-tumor tissue	Positive	Male	47
GSM2226342	Non-tumor tissue	Positive	Male	36
GSM2226343	Non-tumor tissue	Positive	Male	43
GSM2226344	Non-tumor tissue	Positive	Male	35
GSM2226345	Non-tumor tissue	Positive	Male	34
GSM2226346	Non-tumor tissue	Positive	Male	43
GSM2226347	Non-tumor tissue	Positive	Female	47
GSM2226348	Non-tumor tissue	Positive	Female	37
GSM2226349	Non-tumor tissue	Positive	Female	53
GSM2226350	Non-tumor tissue	Positive	Male	58
GSM2226351	Non-tumor tissue	Positive	Male	35
GSM2226352	Non-tumor tissue	Positive	Female	33
GSM2226353	Non-tumor tissue	Positive	Male	54
GSM2226354	Non-tumor tissue	Positive	Female	37
GSM2226355	Non-tumor tissue	Positive	Male	27
GSM2226356	Non-tumor tissue	Positive	Male	38
GSM2226357	Non-tumor tissue	Positive	Female	33
GSM2226358	Non-tumor tissue	Positive	Male	58
GSM2226359	Non-tumor tissue	Positive	Male	22
GSM2226360	Non-tumor tissue	Positive	Male	28
GSM2226361	Non-tumor tissue	Positive	Male	41
GSM2226362	Non-tumor tissue	Positive	Male	42
GSM2226363	Non-tumor tissue	Positive	Male	43
GSM2226364	Non-tumor tissue	Positive	Male	24
GSM2226365	Non-tumor tissue	Positive	Male	50
GSM2226366	Non-tumor tissue	Positive	Male	23

Table SI. Continued.

Accession no.	Source	HBV	Sex	Age (years)
GSM2226367	Non-tumor tissue	Positive	Female	38
GSM2226368	Non-tumor tissue	Positive	Male	31
GSM2226369	Non-tumor tissue	Positive	Male	31
GSM2226370	Non-tumor tissue	Positive	Female	28
GSM2226371	Non-tumor tissue	Positive	Male	35
GSM2226372	Non-tumor tissue	Positive	Male	31
GSM2226373	Non-tumor tissue	Positive	Female	44
GSM2226374	Non-tumor tissue	Positive	Male	52
GSM2226375	Non-tumor tissue	Positive	Male	66
GSM2226376	Non-tumor tissue	Positive	Female	36
GSM2226377	Non-tumor tissue	Positive	Male	74
GSM2226378	Non-tumor tissue	Positive	Female	37
GSM2226379	Non-tumor tissue	Positive	Male	53
GSM2226380	Non-tumor tissue	Positive	Female	33
GSM2226381	Non-tumor tissue	Positive	Male	37
GSM2226382	Non-tumor tissue	Positive	Male	29
GSM2226383	Non-tumor tissue	Positive	Male	63
GSM2226384	Non-tumor tissue	Positive	Female	69
GSM2226385	Non-tumor tissue	Positive	Female	71
GSM2226386	Non-tumor tissue	Positive	Male	32
GSM2226387	Non-tumor tissue	Positive	Male	51
GSM2226388	Non-tumor tissue	Positive	Male	34
GSM2226389	Non-tumor tissue	Positive	Male	40
GSM2226390	Non-tumor tissue	Positive	Male	30
GSM2226391	Non-tumor tissue	Positive	Male	36
GSM2226392	Non-tumor tissue	Positive	Female	47
GSM2226393	Non-tumor tissue	Positive	Male	44
GSM2226394	Non-tumor tissue	Positive	Male	35
GSM2226395	Non-tumor tissue	Positive	Male	49
GSM2226396	Non-tumor tissue	Positive	Male	29
GSM2226397	Non-tumor tissue	Positive	Male	29
GSM2226398	Non-tumor tissue	Positive	Male	37
GSM2226399	Non-tumor tissue	Positive	Male	32
GSM2226400	Non-tumor tissue	Positive	Male	26
GSM2226401	Non-tumor tissue	Positive	Male	27
GSM2226402	Non-tumor tissue	Positive	Male	49
GSM2226403	Non-tumor tissue	Positive	Female	61
GSM2233086	HCC tissue	Positive	Male	63
GSM2233087	Non-tumor tissue	Positive	Male	63
GSM2233088	HCC tissue	Positive	Male	35
GSM2233089	Non-tumor tissue	Positive	Male	35
GSM2233090	HCC tissue	Positive	Male	40
GSM2233091	Non-tumor tissue	Positive	Male	40
GSM2233092	HCC tissue	Positive	Male	54
GSM2233093	Non-tumor tissue	Positive	Male	54
GSM2233094	HCC tissue	Positive	Male	50
GSM2233095	Non-tumor tissue	Positive	Male	50
GSM2233096	HCC tissue	Positive	Male	45
GSM2233097	Non-tumor tissue	Positive	Male	45
GSM2233098	HCC tissue	Positive	Female	43
GSM2233099	Non-tumor tissue	Positive	Female	43
GSM2233100	HCC tissue	Positive	Female	67
GSM2233101	Non-tumor tissue	Positive	Female	67
GSM2233102	HCC tissue	Positive	Female	40
GSM2233103	Non-tumor tissue	Positive	Female	40
GSM2233106	HCC tissue	Positive	Female	35
GSM2233107	Non-tumor tissue	Positive	Female	35
GSM2233108	HCC tissue	Positive	Male	54
GSM2233109	Non-tumor tissue	Positive	Male	54

Table SI. Continued.

Accession no.	Source	HBV	Sex	Age (years)
GSM2233110	HCC tissue	Positive	Male	50
GSM2233111	Non-tumor tissue	Positive	Male	50
GSM2233112	HCC tissue	Positive	Male	NA
GSM2233113	Non-tumor tissue	Positive	Male	NA
GSM1329321	HCC tissue	Positive	NA	NA
GSM1329322	HCC tissue	Positive	NA	NA
GSM1329323	HCC tissue	Positive	NA	NA
GSM1329324	HCC tissue	Positive	NA	NA
GSM1329325	HCC tissue	Positive	NA	NA
GSM1329326	HCC tissue	Positive	NA	NA
GSM1329327	HCC tissue	Positive	NA	NA
GSM1329328	HCC tissue	Positive	NA	NA
GSM1329329	HCC tissue	Positive	NA	NA
GSM1329330	HCC tissue	Positive	NA	NA
GSM1329331	HCC tissue	Positive	NA	NA
GSM1329332	HCC tissue	Positive	NA	NA
GSM1329333	HCC tissue	Positive	NA	NA
GSM1329334	HCC tissue	Positive	NA	NA
GSM1329335	HCC tissue	Positive	NA	NA
GSM1329336	HCC tissue	Positive	NA	NA
GSM1329337	HCC tissue	Positive	NA	NA
GSM1329338	HCC tissue	Positive	NA	NA
GSM1329339	HCC tissue	Positive	NA	NA
GSM1329340	HCC tissue	Positive	NA	NA
GSM1329341	HCC tissue	Positive	NA	NA
GSM1329342	HCC tissue	Positive	NA	NA
GSM1329343	HCC tissue	Positive	NA	NA
GSM1329344	HCC tissue	Positive	NA	NA
GSM1329345	HCC tissue	Positive	NA	NA
GSM1329346	HCC tissue	Positive	NA	NA
GSM1329347	HCC tissue	Positive	NA	NA
GSM1329348	HCC tissue	Positive	NA	NA
GSM1329349	HCC tissue	Positive	NA	NA
GSM1329350	HCC tissue	Positive	NA	NA
GSM1329351	HCC tissue	Positive	NA	NA
GSM1329352	HCC tissue	Positive	NA	NA
GSM1329353	HCC tissue	Positive	NA	NA
GSM1329354	HCC tissue	Positive	NA	NA
GSM1329355	HCC tissue	Positive	NA	NA
GSM1329356	HCC tissue	Positive	NA	NA
GSM1329357	HCC tissue	Positive	NA	NA
GSM1329358	HCC tissue	Positive	NA	NA
GSM1329359	HCC tissue	Positive	NA	NA
GSM1329360	Non-tumor tissue	Positive	NA	NA
GSM1329361	Non-tumor tissue	Positive	NA	NA
GSM1329362	Non-tumor tissue	Positive	NA	NA
GSM1329363	Non-tumor tissue	Positive	NA	NA
GSM1329364	Non-tumor tissue	Positive	NA	NA
GSM1329365	Non-tumor tissue	Positive	NA	NA
GSM1329366	Non-tumor tissue	Positive	NA	NA
GSM1329367	Non-tumor tissue	Positive	NA	NA
GSM1329368	Non-tumor tissue	Positive	NA	NA
GSM1329369	Non-tumor tissue	Positive	NA	NA
GSM1329370	Non-tumor tissue	Positive	NA	NA
GSM1329371	Non-tumor tissue	Positive	NA	NA
GSM1329372	Non-tumor tissue	Positive	NA	NA
GSM1329373	Non-tumor tissue	Positive	NA	NA
GSM1329374	Non-tumor tissue	Positive	NA	NA
GSM1329375	Non-tumor tissue	Positive	NA	NA

Table SI. Continued.

Accession no.	Source	HBV	Sex	Age (years)
GSM1329376	Non-tumor tissue	Positive	NA	NA
GSM1329377	Non-tumor tissue	Positive	NA	NA
GSM1329378	Non-tumor tissue	Positive	NA	NA
GSM1329379	Non-tumor tissue	Positive	NA	NA
GSM1329380	Non-tumor tissue	Positive	NA	NA
GSM1329381	Non-tumor tissue	Positive	NA	NA
GSM1329382	Non-tumor tissue	Positive	NA	NA
GSM1329383	Non-tumor tissue	Positive	NA	NA
GSM1329384	Non-tumor tissue	Positive	NA	NA
GSM1329385	Non-tumor tissue	Positive	NA	NA
GSM1329386	Non-tumor tissue	Positive	NA	NA
GSM1329387	Non-tumor tissue	Positive	NA	NA
GSM1329388	Non-tumor tissue	Positive	NA	NA
GSM1329389	Non-tumor tissue	Positive	NA	NA
GSM1329390	Non-tumor tissue	Positive	NA	NA
GSM1329391	Non-tumor tissue	Positive	NA	NA
GSM1329392	Non-tumor tissue	Positive	NA	NA
GSM1329393	Non-tumor tissue	Positive	NA	NA
GSM1329394	Non-tumor tissue	Positive	NA	NA
GSM1329395	Non-tumor tissue	Positive	NA	NA
GSM1329396	Non-tumor tissue	Positive	NA	NA
GSM1329397	Non-tumor tissue	Positive	NA	NA
GSM1329398	Non-tumor tissue	Positive	NA	NA
GSM1329399	Non-tumor tissue	Positive	NA	NA
GSM1329400	Non-tumor tissue	Positive	NA	NA
GSM1329401	Non-tumor tissue	Positive	NA	NA
GSM1329402	Non-tumor tissue	Positive	NA	NA
GSM1329403	Non-tumor tissue	Positive	NA	NA
GSM1329404	Non-tumor tissue	Positive	NA	NA
GSM1329405	Non-tumor tissue	Positive	NA	NA
GSM1329406	Non-tumor tissue	Positive	NA	NA
GSM1329407	Non-tumor tissue	Positive	NA	NA
GSM1329408	Non-tumor tissue	Positive	NA	NA
GSM1329409	Non-tumor tissue	Positive	NA	NA
GSM1329410	Non-tumor tissue	Positive	NA	NA
GSM1329411	Non-tumor tissue	Positive	NA	NA
GSM1329412	Non-tumor tissue	Positive	NA	NA
GSM1329413	Non-tumor tissue	Positive	NA	NA
GSM1329414	Non-tumor tissue	Positive	NA	NA
GSM1329415	Non-tumor tissue	Positive	NA	NA
GSM1329416	Non-tumor tissue	Positive	NA	NA
GSM1329417	Non-tumor tissue	Positive	NA	NA
GSM1329418	Non-tumor tissue	Positive	NA	NA
GSM1329419	Non-tumor tissue	Positive	NA	NA
GSM1329420	Non-tumor tissue	Positive	NA	NA
GSM1329421	Non-tumor tissue	Positive	NA	NA
GSM1329422	Non-tumor tissue	Positive	NA	NA
GSM1329423	Non-tumor tissue	Positive	NA	NA
GSM1329424	Non-tumor tissue	Positive	NA	NA
GSM1329425	Non-tumor tissue	Positive	NA	NA
GSM1329426	Non-tumor tissue	Positive	NA	NA
GSM1329427	Non-tumor tissue	Positive	NA	NA
GSM1329428	Non-tumor tissue	Positive	NA	NA
GSM1329429	Non-tumor tissue	Positive	NA	NA
GSM1329430	Non-tumor tissue	Positive	NA	NA
GSM1329431	Non-tumor tissue	Positive	NA	NA
GSM1329432	Non-tumor tissue	Positive	NA	NA
GSM1329433	Non-tumor tissue	Positive	NA	NA

Table SI. Continued.

Accession no.	Source	HBV	Sex	Age (years)
GSM1329434	Non-tumor tissue	Positive	NA	NA
GSM1329435	Non-tumor tissue	Positive	NA	NA
GSM1329436	Non-tumor tissue	Positive	NA	NA
GSM1329437	Non-tumor tissue	Positive	NA	NA
GSM1329438	Non-tumor tissue	Positive	NA	NA
GSM1329439	Non-tumor tissue	Positive	NA	NA
GSM1329440	Non-tumor tissue	Positive	NA	NA
GSM1329441	HCC tissue	Positive	NA	NA
GSM1329442	HCC tissue	Positive	NA	NA
GSM1329443	HCC tissue	Positive	NA	NA
GSM1329444	HCC tissue	Positive	NA	NA
GSM1329445	HCC tissue	Positive	NA	NA
GSM1329446	HCC tissue	Positive	NA	NA
GSM1329447	HCC tissue	Positive	NA	NA
GSM1329448	HCC tissue	Positive	NA	NA
GSM1329449	HCC tissue	Positive	NA	NA
GSM1329450	HCC tissue	Positive	NA	NA
GSM1329451	Non-tumor tissue	Positive	NA	NA
GSM1329452	Non-tumor tissue	Positive	NA	NA
GSM1329453	Non-tumor tissue	Positive	NA	NA
GSM1329454	Non-tumor tissue	Positive	NA	NA
GSM1329455	Non-tumor tissue	Positive	NA	NA
GSM1329456	Non-tumor tissue	Positive	NA	NA
GSM1329457	Non-tumor tissue	Positive	NA	NA
GSM1329458	Non-tumor tissue	Positive	NA	NA
GSM1329459	Non-tumor tissue	Positive	NA	NA
GSM1329460	Non-tumor tissue	Positive	NA	NA

HCC, human hepatocellular carcinoma; HBV, hepatitis B virus; NA, not available.

Table SII. Top 100 upregulated differentially expressed genes.

Probe ID	Gene	Fold change	Adjusted P-value
206239_s_at	SPINK1	4.567348387	9.90x10 ⁻⁴³
211470_s_at	SULT1C2	3.963534914	1.47x10 ⁻⁶⁴
205815_at	REG3A	3.770039412	1.10x10 ⁻²⁴
209220_at	GPC3	3.752196862	1.99x10 ⁻⁴⁰
201291_s_at	TOP2A	3.555152759	3.85x10 ⁻⁷⁷
206561_s_at	AKR1B10	3.468810343	1.21x10 ⁻²⁴
242881_x_at	DUXAP10	3.301086607	1.01x10 ⁻⁷⁵
204602_at	DKK1	3.048004476	1.88x10 ⁻³⁷
203820_s_at	IGF2BP3	3.043781559	1.76x10 ⁻⁵⁶
238021_s_at	CRNDE	2.985078406	4.63x10 ⁻⁵²
209921_at	SLC7A11	2.980302339	1.66x10 ⁻⁵¹
213194_at	ROBO1	2.947155321	1.69x10 ⁻⁷¹
241418_at	NMRAL1P1	2.911349891	8.91x10 ⁻⁵⁹
223642_at	ZIC2	2.821525207	4.36x10 ⁻⁶⁴
222608_s_at	ANLN	2.787055993	6.53x10 ⁻⁶²
209875_s_at	SPP1	2.758625836	3.14x10 ⁻²³
235004_at	RBM24	2.743050577	1.06x10 ⁻⁵⁷
212551_at	CAP2	2.739651435	9.30x10 ⁻⁹¹
214612_x_at	MAGEA6	2.698311238	6.80x10 ⁻³⁴
202422_s_at	ACSL4	2.663914238	2.38x10 ⁻³³
219918_s_at	ASPM	2.652302575	4.07x10 ⁻⁵²
235763_at	SLC44A5	2.472658451	2.37x10 ⁻³³
207828_s_at	CENPF	2.472581020	2.98x10 ⁻⁷⁸
214710_s_at	CCNB1	2.403923370	1.64x10 ⁻⁵⁶
225681_at	CTHRC1	2.384346752	1.53x10 ⁻²⁵
212531_at	LCN2	2.383664937	3.04x10 ⁻³¹
201890_at	RRM2	2.381259393	3.31x10 ⁻³⁸
33323_r_at	SFN	2.365919617	9.97x10 ⁻³⁶
218009_s_at	PRC1	2.350952594	8.64x10 ⁻⁵⁴
204162_at	NDC80	2.332439517	1.54x10 ⁻⁵⁴
219787_s_at	ECT2	2.313749179	8.57x10 ⁻⁵²
207165_at	HMMR	2.304640216	1.82x10 ⁻⁴⁸
204825_at	MELK	2.298883197	1.43x10 ⁻⁵⁷
203477_at	COL15A1	2.295323078	1.49x10 ⁻³³
203213_at	CDK1	2.271576100	9.42x10 ⁻⁴⁹
206626_x_at	SSX1	2.253448717	3.68x10 ⁻³⁰
207325_x_at	MAGEA1	2.252155461	3.97x10 ⁻⁴²
204720_s_at	DNAJC6	2.236082454	2.40x10 ⁻⁵²
204105_s_at	NRCAM	2.232778933	1.57x10 ⁻³⁸
227892_at	PRKAA2	2.229124796	3.47x10 ⁻⁴⁴
227510_x_at	MALAT1	2.224576694	5.41x10 ⁻¹⁷
201468_s_at	NQO1	2.209490964	2.70x10 ⁻²⁶
205110_s_at	FGF13	2.207535230	1.23x10 ⁻³²
223381_at	NUF2	2.186987390	5.66x10 ⁻⁵⁶
205476_at	CCL20	2.181812965	1.34x10 ⁻²⁰
203755_at	BUB1B	2.178984131	2.76x10 ⁻⁵⁰
218755_at	KIF20A	2.153373571	8.72x10 ⁻⁵²
231265_at	COX7B2	2.150792051	5.69x10 ⁻⁴¹
221558_s_at	LEF1	2.122850025	2.29x10 ⁻³⁸
225612_s_at	B3GNT5	2.117997087	7.16x10 ⁻³¹
221830_at	RAP2A	2.114424031	8.56x10 ⁻⁴²
210467_x_at	MAGEA12	2.103394030	1.54x10 ⁻³⁰
218585_s_at	DTL	2.102692036	2.24x10 ⁻⁴⁰
204641_at	NEK2	2.102002866	8.57x10 ⁻⁵²
222077_s_at	RACGAP1	2.081618410	9.00x10 ⁻⁵³
208079_s_at	AURKA	2.076336333	8.54x10 ⁻⁵²
238732_at	COL24A1	2.069789084	6.19x10 ⁻⁴⁰
204822_at	TTK	2.066771577	2.45x10 ⁻⁴⁷
226545_at	CD109	2.025938851	4.45x10 ⁻³⁴

Table SII. Continued.

Probe ID	Gene	Fold change	Adjusted P-value
212094_at	PEG10	2.016229445	3.69x10 ⁻¹⁵
229947_at	PII5	2.014019560	6.62x10 ⁻⁴⁰
202870_s_at	CDC20	2.012447721	7.80x10 ⁻⁴⁶
227812_at	TNFRSF19	2.011379246	4.09x10 ⁻²⁰
1559316_at	LOC105374676	2.009521085	4.54x10 ⁻³²
227314_at	ITGA2	2.000997265	1.89x10 ⁻⁴⁷
218662_s_at	NCAPG	1.996025542	1.76x10 ⁻⁵²
225275_at	EDIL3	1.993051713	6.62x10 ⁻²⁸
232707_at	ISX	1.972500919	5.81x10 ⁻⁴⁵
236641_at	KIF14	1.968288880	1.80x10 ⁻⁴⁹
205373_at	CTNNA2	1.965428389	1.02x10 ⁻²³
231310_at	TRIM71	1.964000168	4.02x10 ⁻⁴⁰
227226_at	MRAP2	1.960916304	3.21x10 ⁻⁵²
205348_s_at	DYNC1H1	1.938331070	1.13x10 ⁻³⁵
203764_at	DLGAP5	1.932405364	9.78x10 ⁻⁴⁸
206102_at	GINS1	1.927081093	5.67x10 ⁻³⁸
213956_at	CEP350	1.925623129	5.23x10 ⁻²⁷
219148_at	PBK	1.911432600	3.53x10 ⁻³¹
207663_x_at	GAGE3	1.911384548	3.98x10 ⁻²⁰
202705_at	CCNB2	1.909885495	1.65x10 ⁻⁵¹
242488_at	CHRM3	1.909367068	1.21x10 ⁻³⁶
227084_at	DTNA	1.903177347	9.28x10 ⁻²⁴
200648_s_at	GLUL	1.896670809	3.41x10 ⁻²⁵
227740_at	UHMK1	1.888915473	1.24x10 ⁻²⁸
204444_at	KIF11	1.878180440	2.38x10 ⁻⁴⁹
232195_at	GPR158	1.876989895	7.21x10 ⁻⁴⁸
233170_at	LINC00348	1.872338598	1.80x10 ⁻²⁶
204341_at	TRIM16	1.852711615	2.93x10 ⁻²⁹
213924_at	GNAL	1.849607096	7.80x10 ⁻⁴⁶
201656_at	ITGA6	1.841819309	4.55x10 ⁻⁵²
205564_at	PAGE4	1.833245320	5.48x10 ⁻²³
218039_at	NUSAP1	1.832903837	2.07x10 ⁻⁴³
223287_s_at	FOXP1	1.829905989	1.54x10 ⁻³²
226085_at	CBX5	1.828900857	1.15x10 ⁻²⁸
229638_at	IRX3	1.824992304	3.36x10 ⁻³⁰
235521_at	HOXA3	1.824038333	1.10x10 ⁻²⁸
218883_s_at	CENPU	1.820300011	1.08x10 ⁻³³
202095_s_at	BIRC5	1.819813555	5.86x10 ⁻⁴⁸
1559213_at	LINC01419	1.808771106	3.10x10 ⁻³¹
225540_at	MAP2	1.798074857	4.80x10 ⁻³⁴
218355_at	KIF4A	1.793230179	2.02x10 ⁻⁵⁰

Table SIII. Top 100 downregulated differentially expressed genes.

Probe ID	Gene	Fold change	Adjusted P-value
220491_at	HAMP	-4.983632921	4.89x10 ⁻⁶⁰
205866_at	FCN3	-4.729403108	1.63x10 ⁻⁹⁶
222484_s_at	CXCL14	-4.664513026	2.76x10 ⁻¹⁰⁵
205984_at	CRHBP	-4.504769969	5.41x10 ⁻⁸³
207804_s_at	FCN2	-4.498217224	1.69x10 ⁻⁹⁷
207201_s_at	SLC22A1	-4.496482306	9.93x10 ⁻⁶⁸
220496_at	CLEC1B	-4.489579549	1.13x10 ⁻¹¹²
217546_at	MT1M	-4.427062929	4.20x10 ⁻⁶⁴
230478_at	OIT3	-4.401727477	1.29x10 ⁻¹⁰⁶
1559573_at	LINC01093	-4.372165201	7.87x10 ⁻⁸⁹
223699_at	CNDP1	-4.185131569	2.30x10 ⁻⁷³
229476_s_at	THRSP	-4.124366630	2.88x10 ⁻⁵⁶
1559065_a_at	CLEC4G	-4.114961753	1.36x10 ⁻⁹⁹
206354_at	SLCO1B3	-4.081557901	3.55x10 ⁻⁶³
207102_at	AKR1D1	-4.020716573	6.22x10 ⁻⁶⁹
1564706_s_at	GLS2	-4.018224948	3.74x10 ⁻⁷⁰
207608_x_at	CYP1A2	-4.013090089	7.43x10 ⁻⁷⁸
206727_at	C9	-3.961247256	9.82x10 ⁻⁴⁸
209687_at	CXCL12	-3.885309405	1.16x10 ⁻⁶⁰
219014_at	PLAC8	-3.774128748	3.42x10 ⁻⁷²
207995_s_at	CLEC4M	-3.732362194	5.50x10 ⁻⁸⁸
231678_s_at	ADH4	-3.682472263	1.77x10 ⁻⁴⁸
205554_s_at	DNASE1L3	-3.666231016	1.29x10 ⁻⁶⁸
220801_s_at	HAO2	-3.663835833	4.99x10 ⁻⁷⁶
211896_s_at	DCN	-3.625520940	1.19x10 ⁻⁴⁶
220432_s_at	CYP39A1	-3.616388369	2.51x10 ⁻⁶⁴
220116_at	KCNN2	-3.587327181	4.31x10 ⁻⁵⁷
205819_at	MARCO	-3.569710716	5.45x10 ⁻⁷⁶
202992_at	C7	-3.473352727	3.89x10 ⁻⁴³
230135_at	HHIP	-3.458281369	1.29x10 ⁻⁹¹
210328_at	GNMT	-3.412414732	1.25x10 ⁻⁵²
213629_x_at	MT1F	-3.412271922	3.79x10 ⁻⁷²
214478_at	SPP2	-3.405396399	1.74x10 ⁻⁷⁴
205225_at	ESR1	-3.355285624	2.09x10 ⁻⁷⁴
237350_at	TTC36	-3.334397580	7.78x10 ⁻⁸⁴
214320_x_at	CYP2A6	-3.332114585	3.55x10 ⁻⁵⁴
219954_s_at	GBA3	-3.304920162	1.98x10 ⁻⁵⁹
207262_at	APOF	-3.287687923	1.09x10 ⁻⁷²
214621_at	GYS2	-3.272101039	8.61x10 ⁻⁵⁶
206797_at	NAT2	-3.270355860	8.59x10 ⁻⁷⁶
242817_at	PGLYRP2	-3.225627679	2.41x10 ⁻⁵³
205498_at	GHR	-3.223775643	1.20x10 ⁻⁶⁶
237390_at	ADRA1A	-3.213027372	8.85x10 ⁻⁵⁴
204704_s_at	ALDOB	-3.208187451	3.84x10 ⁻⁵⁵
209301_at	CA2	-3.203130234	1.38x10 ⁻⁵⁸
206172_at	IL13RA2	-3.185151095	1.11x10 ⁻⁵²
206210_s_at	CETP	-3.179352566	1.73x10 ⁻⁶⁶
204428_s_at	LCAT	-3.145019681	1.47x10 ⁻⁷⁶
205363_at	BBOX1	-3.135951206	2.16x10 ⁻⁴²
208147_s_at	CYP2C8	-3.115222728	8.68x10 ⁻⁶¹
237765_at	SLC25A47	-3.059884941	4.64x10 ⁻⁹¹
204745_x_at	MT1G	-3.056755948	2.64x10 ⁻⁷⁴
206424_at	CYP26A1	-3.052909242	1.50x10 ⁻⁵⁴
206680_at	CD5L	-3.048289697	1.47x10 ⁻⁶⁵
203914_x_at	HPGD	-3.037191904	1.67x10 ⁻³⁷
222083_at	GLYAT	-3.016429448	4.09x10 ⁻⁶⁰
210521_s_at	FETUB	-3.002923988	3.99x10 ⁻⁴⁴

Table SIII. Continued.

Probe ID	Gene	Fold change	Adjusted P-value
209696_at	FBP1	-2.998761494	3.76x10 ⁻⁷³
205943_at	TDO2	-2.990540265	8.35x10 ⁻⁵⁶
229777_at	CLRN3	-2.976676020	1.94x10 ⁻⁴⁹
1553296_at	ADGRG7	-2.971877106	9.76x10 ⁻⁷³
209541_at	IGF1	-2.941716385	2.62x10 ⁻⁵⁴
212592_at	JCHAIN	-2.930375439	1.50x10 ⁻²⁸
212859_x_at	MT1E	-2.914546966	1.19x10 ⁻⁶⁸
205728_at	TENM1	-2.883518868	1.37x10 ⁻⁴⁷
223784_at	TMEM27	-2.883022716	3.35x10 ⁻⁶³
211138_s_at	KMO	-2.878294769	4.66x10 ⁻⁷⁰
207407_x_at	CYP4A11	-2.876944546	3.05x10 ⁻⁵⁸
207027_at	HGFAC	-2.869011560	6.98x10 ⁻⁵⁸
204955_at	SRPX	-2.866951972	4.20x10 ⁻⁵⁰
225575_at	LIFR	-2.862069105	1.36x10 ⁻⁸¹
209469_at	GPM6A	-2.855427010	3.94x10 ⁻⁵⁰
206461_x_at	MT1H	-2.854121450	2.40x10 ⁻⁷⁶
204326_x_at	MT1X	-2.849534388	1.83x10 ⁻⁶⁶
204999_s_at	ATF5	-2.835003848	2.36x10 ⁻³⁸
1568638_a_at	IDO2	-2.834964635	2.01x10 ⁻⁵⁴
214677_x_at	IGLC1	-2.833877627	5.10x10 ⁻²²
227654_at	FAM65C	-2.833558573	7.74x10 ⁻¹⁰⁷
232449_at	BCO2	-2.832552138	1.24x10 ⁻⁶⁵
209960_at	HGF	-2.820196109	2.07x10 ⁻⁵⁴
207584_at	LPA	-2.814953772	5.40x10 ⁻⁴⁷
228186_s_at	RSPO3	-2.810229499	3.59x10 ⁻⁹⁰
207185_at	SLC10A1	-2.806976103	6.44x10 ⁻⁵⁴
205440_s_at	NPY1R	-2.765034793	4.05x10 ⁻⁸²
206755_at	CYP2B6	-2.764826910	4.83x10 ⁻⁴⁴
206643_at	HAL	-2.756454495	2.82x10 ⁻³⁹
230577_at	LINC00844	-2.753376513	2.02x10 ⁻²⁹
241994_at	XDH	-2.746362957	1.86x10 ⁻⁵⁴
229230_at	SLC51A	-2.729578425	1.63x10 ⁻⁴³
206840_at	AFM	-2.729070946	6.26x10 ⁻⁴⁸
208937_s_at	ID1	-2.725410248	2.15x10 ⁻³³
206380_s_at	CFP	-2.695867885	7.86x10 ⁻⁷⁰
210143_at	ANXA10	-2.679570335	1.64x10 ⁻⁵⁵
225316_at	MFSD2A	-2.675662341	1.47x10 ⁻⁶⁴
210233_at	IL1RAP	-2.645432374	4.08x10 ⁻⁵³
233604_at	FLJ22763	-2.644657391	7.73x10 ⁻⁴⁴
1552280_at	TIMD4	-2.642076802	1.14x10 ⁻³⁶
205695_at	SDS	-2.618475766	2.57x10 ⁻²⁹
205844_at	VNN1	-2.579935361	1.92x10 ⁻²⁷
1431_at	CYP2E1	-2.571116689	1.69x10 ⁻²⁵