

Supplementary Table S3 The probes for which call proportions in all examined tissue samples were less than 90%.

Target ID ^a	Chromosome	Gene symbol	Call proportion (%) ^b
cg24834873	5	<i>ANKRD34B</i>	1.07
cg07811112	15	<i>NA</i>	10.00
cg23699809	8	<i>INTS9</i>	17.86
cg11317459	13	<i>MIPEPP3</i>	18.21
cg15544633	2	<i>LIPT1</i>	18.93
cg14117320	11	<i>PLEKHA7</i>	21.07
cg05341252	6	<i>HLA-DQB1</i>	24.29
cg25985455	20	<i>PSMA7</i>	24.64
cg27627215	8	<i>NA</i>	26.07
cg11866463	21	<i>RCAN1</i>	26.79
cg09476440	1	<i>KIAA1324</i>	30.36
cg07225509	5	<i>GALNT10</i>	31.07
cg22653957	2	<i>ALPPL2</i>	31.43
cg17251423	5	<i>NA</i>	32.86
cg22764591	12	<i>LOC100506844</i>	32.86
cg00749520	19	<i>TMEM238</i>	32.86
cg09307193	14	<i>ACTN1</i>	33.93
cg22681945	1	<i>NA</i>	34.64
cg03391002	12	<i>WSCD2</i>	36.07
cg20060160	1	<i>NMNAT2</i>	36.79
cg18428180	6	<i>KIAA0319</i>	37.14
cg05208607	16	<i>TLDC1</i>	37.50
cg11791288	1	<i>LOC284551</i>	38.93
cg11834635	4	<i>ZFYVE28</i>	38.93
cg06001854	5	<i>SCAMP1</i>	38.93
cg06573709	6	<i>NA</i>	38.93
cg19976037	17	<i>CCDC57</i>	40.00
cg24098252	12	<i>GPR133</i>	40.36
cg16808927	16	<i>WDR90</i>	40.71
cg13004509	11	<i>CCDC67</i>	41.07
cg18845950	6	<i>NA</i>	41.43
cg10804726	17	<i>DNAI2</i>	41.43
cg19235801	10	<i>NA</i>	42.86
cg20908200	20	<i>SNAP25-AS1</i>	42.86
cg04937939	2	<i>NA</i>	43.21
cg03216697	6	<i>HLA-C</i>	44.29
cg02018764	8	<i>NA</i>	45.00
cg01469864	5	<i>CPLX2</i>	45.36
cg05419812	6	<i>NA</i>	45.36
cg04926385	8	<i>NA</i>	45.36
cg10506445	1	<i>NR5A2</i>	46.07
cg08335702	12	<i>MTERFD3</i>	46.43
cg10385522	6	<i>HLA-DRB1</i>	46.79
cg26709433	6	<i>NA</i>	47.14
cg23505044	17	<i>NTN1</i>	47.50
cg14359894	20	<i>RASSF2</i>	47.86
cg05708441	2	<i>NA</i>	48.57

cg15954684	3	NA	48.93
cg02902672	6	<i>HLA-DQB1</i>	49.29
cg17724121	11	<i>HBE1</i>	49.29
cg18442075	17	<i>NKIRAS2</i>	49.29
cg06075393	20	<i>RASSF2</i>	49.29
cg21741515	3	<i>TM4SF19-TCTEXID2</i>	49.64
cg14310877	6	NA	49.64
cg03007623	19	<i>CDKN2D</i>	49.64
cg03271827	4	<i>PCGF3</i>	50.00
cg03959986	17	<i>SRR</i>	50.36
cg18938907	1	<i>GSTM1</i>	50.71
cg01790920	5	<i>IRX1</i>	50.71
cg06559318	6	<i>HLA-DRB6</i>	51.43
cg17831170	6	NA	51.43
cg27362989	6	<i>HLA-DRB5</i>	51.43
cg12546355	7	NA	52.14
cg15048554	12	<i>BTBD11</i>	52.14
cg14803009	2	<i>MSH2</i>	52.50
cg12280242	4	NA	52.50
cg17976473	10	<i>DMBT1</i>	52.50
cg06850186	7	NA	52.86
cg01710670	16	NA	52.86
cg08702834	9	<i>DMRT3</i>	53.21
cg17901463	1	<i>GSTM1</i>	53.57
cg13312387	2	<i>NMUR1</i>	53.57
cg13739333	6	<i>HLA-DRB5</i>	53.57
cg00814186	17	NA	53.57
cg10662395	19	<i>HCN2</i>	53.57
cg14669863	1	<i>HCN3</i>	53.93
cg04777551	6	<i>HLA-DQB1</i>	53.93
cg18500967	7	NA	55.00
cg21164095	1	<i>BAI2</i>	55.36
cg18944924	2	<i>RMDN2</i>	55.36
cg02126896	11	NA	55.36
cg27156510	17	<i>B9D1</i>	55.36
cg16514085	6	<i>HLA-DRB1</i>	55.71
cg08589776	4	NA	56.07
cg00873648	6	NA	56.07
cg23905789	6	<i>HLA-DRB1</i>	56.79
cg01157718	6	NA	57.14
cg26881268	11	NA	57.14
cg10123347	14	<i>DDHD1</i>	57.14
cg01500431	22	<i>GSTTP2</i>	57.14
cg01744396	22	<i>GSTT1</i>	57.14
cg04824771	22	<i>LOC391322</i>	57.14
cg05380919	22	<i>GSTT1</i>	57.14
cg15254640	22	<i>GSTT1</i>	57.14
cg22666875	22	<i>GSTTP1</i>	57.14
cg01474688	2	<i>SP3</i>	57.50
cg16699528	7	<i>PVRIG</i>	57.50
cg07642767	10	NA	57.50
cg01957799	22	<i>GSTT1</i>	57.50

cg08219170	22	<i>GSTT1</i>	57.50
cg12015991	6	<i>HLA-DRB5</i>	57.86
cg11478607	22	<i>GSTT1</i>	57.86
cg24336839	22	<i>GSTT1</i>	57.86
cg00061551	16	<i>ALG1</i>	58.21
cg00256329	17	<i>NXN</i>	58.21
cg12182903	4	<i>NA</i>	58.57
cg14075454	6	<i>HLA-DRB1</i>	58.57
cg18576210	6	<i>HIST1H2AB</i>	58.57
cg20311868	7	<i>WBSCR27</i>	58.57
cg00259849	8	<i>CSMD1</i>	58.57
cg20064778	22	<i>GSTT1</i>	58.57
cg24238852	22	<i>GSTT1</i>	58.57
cg11849573	7	<i>NA</i>	58.93
cg15577010	2	<i>NMUR1</i>	59.29
cg19516921	6	<i>HLA-DRB5</i>	59.29
cg06180910	22	<i>GSTT1</i>	59.29
cg19648023	2	<i>MIR548N</i>	59.64
cg15244290	6	<i>GUCA1A</i>	59.64
cg27129744	19	<i>ZNF583</i>	59.64
cg18433519	6	<i>KIAA0319</i>	60.00
cg14834300	1	<i>NA</i>	60.36
cg02943303	2	<i>TXNDC9</i>	60.36
cg26430986	5	<i>GABRP</i>	60.36
cg05929129	12	<i>GALNT9</i>	60.36
cg01550813	7	<i>NA</i>	60.71
cg00013655	16	<i>PIGQ</i>	60.71
cg17422543	2	<i>NA</i>	61.07
cg10546252	22	<i>GSTT1</i>	61.07
cg16997375	22	<i>GSTT1</i>	61.07
cg10032131	11	<i>SLC43A1</i>	61.43
cg09975044	14	<i>NA</i>	61.43
cg18021992	20	<i>ITPA</i>	61.43
cg21442271	22	<i>NA</i>	61.43
cg12564102	2	<i>NA</i>	61.79
cg27128560	10	<i>COL17A1</i>	61.79
cg07258408	2	<i>TSSC1</i>	62.14
cg07643074	4	<i>NA</i>	62.50
cg13910785	6	<i>HLA-DRB1</i>	62.50
cg15293181	2	<i>SNTG2</i>	62.86
cg14035247	4	<i>NA</i>	62.86
cg15253861	6	<i>HLA-DPA1</i>	62.86
cg15680603	6	<i>HLA-DPA1</i>	62.86
cg22047338	19	<i>C19orf35</i>	62.86
cg00399895	22	<i>APOBEC3G</i>	63.21
cg19032705	5	<i>SH3PXD2B</i>	63.57
cg19774683	6	<i>HLA-DRB6</i>	63.57
cg22802296	1	<i>PBX1</i>	64.29
cg17966121	13	<i>ZIC5</i>	64.29
cg24565820	22	<i>LOC391322</i>	64.29
cg10769535	1	<i>DNM3OS</i>	64.64
cg01253711	4	<i>NA</i>	64.64

cg14104700	13	<i>MIPEPP3</i>	64.64
cg27635110	2	<i>MYTIL</i>	65.00
cg25664050	6	<i>HLA-DRB6</i>	65.00
cg08708231	11	<i>OPCML</i>	65.00
cg27112983	16	<i>NA</i>	65.00
cg13874759	17	<i>ENPP7</i>	65.00
cg04879348	2	<i>GCC2</i>	65.36
cg06236987	6	<i>FLJ34503</i>	65.36
cg20945531	6	<i>FLJ34503</i>	65.36
cg05754819	10	<i>KCNMA1</i>	65.36
cg08299859	10	<i>NA</i>	65.71
cg25120325	10	<i>PNLIPRP2</i>	65.71
cg06206057	6	<i>NA</i>	66.07
cg18356634	7	<i>NA</i>	66.07
cg23472400	7	<i>TAF6</i>	66.07
cg09988111	16	<i>NA</i>	66.07
cg06008419	8	<i>NA</i>	66.43
cg04636967	10	<i>DMBT1</i>	66.43
cg14186264	6	<i>C6orf58</i>	66.79
cg06407043	12	<i>NA</i>	66.79
cg23007425	14	<i>NA</i>	66.79
cg01445689	7	<i>WDR60</i>	67.14
cg04649587	8	<i>TDH</i>	67.14
cg23316161	12	<i>ZNF605</i>	67.14
cg11170468	11	<i>OR8G1</i>	67.50
cg17446339	11	<i>HTATIP2</i>	67.50
cg25972924	12	<i>RHNO1</i>	67.50
cg27665146	15	<i>TNFAIP8L3</i>	67.50
cg22696546	1	<i>CNST</i>	67.86
cg14228300	7	<i>IGFBP3</i>	67.86
cg01600516	17	<i>ALOX12</i>	67.86
cg25155022	20	<i>NA</i>	67.86
cg05362314	4	<i>NA</i>	68.21
cg10995422	6	<i>HLA-DRB6</i>	68.21
cg18825597	8	<i>NA</i>	68.21
cg22304543	8	<i>NA</i>	68.21
cg03466083	5	<i>NA</i>	68.57
cg01948083	1	<i>NA</i>	68.93
cg03296304	11	<i>DEAF1</i>	68.93
cg13636640	20	<i>DNMT3B</i>	68.93
cg01061164	6	<i>FAM120B</i>	69.29
cg06398883	13	<i>NA</i>	69.29
cg08634464	19	<i>ZNF57</i>	69.29
cg19726599	4	<i>AFAP1</i>	69.64
cg08231637	6	<i>HLA-DRB1</i>	69.64
cg14744161	6	<i>DSE</i>	69.64
cg14294953	9	<i>MIR4289</i>	69.64
cg01493009	13	<i>FOXO1</i>	69.64
cg02262167	13	<i>NA</i>	69.64
cg00534215	16	<i>ACSF3</i>	69.64
cg01707391	16	<i>NA</i>	69.64
cg05156850	2	<i>KRCC1</i>	70.00

cg01914365	3	NA	70.00
cg20848488	4	PPP2R2C	70.00
cg27129755	5	GABRP	70.00
cg06012695	6	NA	70.00
cg10217052	6	HLA-DQA1	70.00
cg17504698	13	PSPCI	70.36
cg26924012	15	SPATA5L1	70.36
cg05919324	17	RPH3AL	70.36
cg01519225	6	NA	70.71
cg18792536	7	UPK3B	70.71
cg03478313	15	NA	70.71
cg13574744	19	NFIC	70.71
cg18015625	2	B3GALT1	71.07
cg07774765	5	BTNL9	71.07
cg22025232	6	HCG4B	71.07
cg02847425	7	UPK3B	71.07
cg00886571	14	NA	71.07
cg03673787	17	GAA	71.07
cg01232331	2	NA	71.43
cg17421046	6	HLA-DQA1	71.43
cg10577585	10	POLL	71.43
cg11454325	10	GPR123	71.43
cg05276972	11	NA	71.43
cg17025908	1	NA	71.79
cg05383619	6	HLA-DRB1	71.79
cg02856402	16	HMOX2	71.79
cg03965138	19	SIGLEC5	71.79
cg14740251	19	NA	71.79
cg19432688	2	NA	72.14
cg10911276	4	NA	72.14
cg05546241	6	NA	72.14
cg05176970	17	NXN	72.14
cg16661157	17	PRKCA	72.14
cg06955954	13	ATP4B	72.50
cg14293999	14	NA	72.50
cg13117582	17	NA	72.50
cg20336016	19	NA	72.50
cg06536159	1	FHAD1	72.86
cg08268047	1	FMO2	72.86
cg14181874	2	NA	72.86
cg01550828	3	RNF168	72.86
cg08433110	6	GMDS	72.86
cg02764429	15	PRKXP1	72.86
cg25971649	1	CD58	73.21
cg15853771	2	NA	73.21
cg05185684	11	PLEKHA7	73.21
cg25730351	11	ANO1	73.21
cg26294145	14	NA	73.21
cg09194930	16	MTIL	73.21
cg16670573	16	POLR3K	73.21
cg08703522	17	NA	73.21
cg22525743	19	DYRK1B	73.21

cg22956547	19	<i>ZNF155</i>	73.21
cg24205048	19	<i>SIGLEC5</i>	73.21
cg24049183	3	<i>WNT5A</i>	73.57
cg14799809	6	<i>HLA-DQA1</i>	73.57
cg27083089	6	<i>HLA-B</i>	73.57
cg07777042	8	<i>NA</i>	73.57
cg20511966	8	<i>TRAPPC9</i>	73.57
cg10099275	12	<i>PLCZ1</i>	73.57
cg07119157	1	<i>TNFRSF18</i>	73.93
cg14708411	5	<i>SLC12A7</i>	73.93
cg02249577	10	<i>NA</i>	73.93
cg09462281	19	<i>NCLN</i>	73.93
cg18682380	19	<i>LENG9</i>	73.93
cg10325211	2	<i>NA</i>	74.29
cg01823585	7	<i>NA</i>	74.29
cg09918394	12	<i>CERS5</i>	74.29
cg00014203	17	<i>TMEM88</i>	74.29
cg21114725	3	<i>NA</i>	74.64
cg13749113	15	<i>NA</i>	74.64
cg04057378	20	<i>NA</i>	74.64
cg23243080	5	<i>TNFAIP8</i>	75.00
cg11888470	6	<i>HLA-DRB6</i>	75.00
cg15014361	6	<i>HLA-DQA1</i>	75.00
cg24973221	10	<i>INPP5A</i>	75.00
cg11919336	12	<i>HCAR2</i>	75.00
cg01647917	19	<i>GZMM</i>	75.00
cg19600472	6	<i>HCG4B</i>	75.36
cg16662938	10	<i>GUCY2GP</i>	75.36
cg02234672	13	<i>NA</i>	75.36
cg11193865	14	<i>DLK1</i>	75.36
cg15535896	18	<i>NA</i>	75.36
cg04277055	4	<i>NA</i>	75.71
cg14557864	4	<i>TRIM60</i>	75.71
cg15654485	6	<i>HLA-DRB6</i>	75.71
cg24356700	7	<i>SRRT</i>	75.71
cg27441354	7	<i>NA</i>	75.71
cg00727777	8	<i>NA</i>	75.71
cg08208480	11	<i>BRSK2</i>	75.71
cg00169792	20	<i>SALL4</i>	75.71
cg24253618	1	<i>NA</i>	76.07
cg10125291	4	<i>NA</i>	76.07
cg00978846	6	<i>HLA-DQA1</i>	76.07
cg26651280	16	<i>GALNS</i>	76.07
cg02403292	5	<i>SLIT3</i>	76.43
cg15700429	6	<i>HLA-DRB6</i>	76.43
cg27074113	11	<i>NA</i>	76.43
cg09214175	14	<i>CCDC85C</i>	76.43
cg16034991	19	<i>SIGLEC14</i>	76.43
cg03873518	22	<i>GRAMD4</i>	76.43
cg24670453	1	<i>BGLAP</i>	76.79
cg04696840	6	<i>HLA-DQB1</i>	76.79
cg21692241	6	<i>HLA-DQA1</i>	76.79

cg12126656	10	<i>INPP5A</i>	76.79
cg12988522	12	<i>SHMT2</i>	76.79
cg24680646	13	<i>TRPC4</i>	76.79
cg16003256	1	<i>NA</i>	77.14
cg14926231	2	<i>NA</i>	77.14
cg27640988	2	<i>RNF103</i>	77.14
cg07952421	4	<i>UGT2B17</i>	77.14
cg17851276	4	<i>NA</i>	77.14
cg04424052	6	<i>PERP</i>	77.14
cg06293782	6	<i>HLA-DQA2</i>	77.14
cg15152149	6	<i>SERPINB1</i>	77.14
cg07559763	8	<i>NA</i>	77.14
cg24414182	19	<i>MYADM</i>	77.14
cg12074150	2	<i>NA</i>	77.50
cg27425262	2	<i>PSD4</i>	77.50
cg11256764	5	<i>NA</i>	77.50
cg14323910	6	<i>HLA-DQB1</i>	77.50
cg06924902	8	<i>ZFAT-AS1</i>	77.50
cg00538591	16	<i>CBFA2T3</i>	77.50
cg11884832	6	<i>NA</i>	77.86
cg26531700	6	<i>NA</i>	77.86
cg06943073	12	<i>SRGAP1</i>	77.86
cg20098848	12	<i>NA</i>	77.86
cg02890235	19	<i>NA</i>	77.86
cg10747483	19	<i>NA</i>	77.86
cg20381372	19	<i>LOC100134317</i>	77.86
cg25395304	19	<i>ZNF234</i>	77.86
cg11517650	1	<i>ETV3</i>	78.21
cg22854985	2	<i>MLK7-AS1</i>	78.21
cg11816734	5	<i>NA</i>	78.21
cg21234342	6	<i>GPR116</i>	78.21
cg25336926	7	<i>FZD1</i>	78.21
cg24873924	11	<i>NA</i>	78.21
cg13491296	1	<i>MIR9-1</i>	78.57
cg09217309	6	<i>RAET1G</i>	78.57
cg22816462	8	<i>NA</i>	78.57
cg00988056	14	<i>NA</i>	78.57
cg16558846	14	<i>NA</i>	78.57
cg23988024	19	<i>HCN2</i>	78.57
cg27521160	19	<i>PSG4</i>	78.57
cg08465120	1	<i>BCAN</i>	78.93
cg21697769	2	<i>AGAP1</i>	78.93
cg18868178	10	<i>NA</i>	78.93
cg07900998	17	<i>ASIC2</i>	78.93
cg27257987	19	<i>PSG4</i>	78.93
cg06461588	20	<i>DNAJC5</i>	78.93
cg05372444	7	<i>UPK3B</i>	79.29
cg10986355	7	<i>GRM8</i>	79.29
cg13685349	14	<i>STON2</i>	79.29
cg00504457	19	<i>MCOLN1</i>	79.29
cg17520080	1	<i>LUZP1</i>	79.64
cg11727304	7	<i>GALNTL5</i>	79.64

cg03183700	8	<i>ANK1</i>	79.64
cg00742920	13	<i>NA</i>	79.64
cg17370981	13	<i>ATP4B</i>	79.64
cg19809575	16	<i>BANP</i>	79.64
cg24239165	17	<i>NA</i>	79.64
cg27347523	19	<i>SIGLEC5</i>	79.64
cg01546248	22	<i>SMTN</i>	79.64
cg09219182	22	<i>NCF4</i>	79.64
cg02751273	2	<i>NA</i>	80.00
cg03562350	2	<i>NA</i>	80.00
cg14506194	2	<i>DIRC3</i>	80.00
cg24629711	3	<i>MUSTN1</i>	80.00
cg00103771	6	<i>HLA-DRB6</i>	80.00
cg00567916	9	<i>NTNG2</i>	80.00
cg11844537	10	<i>TCERG1L</i>	80.00
cg15161973	10	<i>TCERG1L</i>	80.00
cg23130832	10	<i>TCERG1L</i>	80.00
cg23954274	10	<i>NA</i>	80.00
cg22837486	11	<i>FADS3</i>	80.00
cg15406319	17	<i>NKIRAS2</i>	80.00
cg00869309	19	<i>ZNF835</i>	80.00
cg10583942	1	<i>TNFRSF18</i>	80.36
cg11536248	2	<i>NA</i>	80.36
cg05401575	3	<i>SYNPR</i>	80.36
cg17089062	4	<i>NA</i>	80.36
cg22627029	6	<i>HLA-DRB6</i>	80.36
cg08617581	10	<i>TCERG1L</i>	80.36
cg10270204	14	<i>NA</i>	80.36
cg12505938	16	<i>GAN</i>	80.36
cg00448895	19	<i>ZNF333</i>	80.36
cg01238044	22	<i>GSTT1</i>	80.36
cg10536901	1	<i>SLC25A24</i>	80.71
cg00507055	6	<i>TMEM63B</i>	80.71
cg10018004	6	<i>HLA-A</i>	80.71
cg12770425	6	<i>NA</i>	80.71
cg14044669	6	<i>C6orf10</i>	80.71
cg24760581	6	<i>HLA-DRB1</i>	80.71
cg18353405	7	<i>NA</i>	80.71
cg06063541	10	<i>TCERG1L</i>	80.71
cg11872966	10	<i>TCERG1L</i>	80.71
cg06732825	12	<i>NA</i>	80.71
cg16733676	1	<i>SLC25A24</i>	81.07
cg11019305	5	<i>UBTD2</i>	81.07
cg13017022	5	<i>ZMAT2</i>	81.07
cg03923227	6	<i>C6orf25</i>	81.07
cg20706766	6	<i>ITPR3</i>	81.07
cg00859877	7	<i>PTPRN2</i>	81.07
cg26450259	10	<i>R3HCC1L</i>	81.07
cg13141283	13	<i>PCDH20</i>	81.07
cg02549424	22	<i>AIFM3</i>	81.07
cg16142906	22	<i>RFPL3</i>	81.07
cg14654471	1	<i>NPHP4</i>	81.43

cg17838368	1	NA	81.43
cg21345624	2	BOK-ASI	81.43
cg06051312	3	PPP4R2	81.43
cg09654329	4	RGS12	81.43
cg24800226	4	SORCS2	81.43
cg04124201	5	NA	81.43
cg16251399	6	GUSBP4	81.43
cg18474443	10	PFKP	81.43
cg17107246	1	SLC25A24	81.79
cg17590135	2	NA	81.79
cg03999583	3	NA	81.79
cg20935984	3	NA	81.79
cg22489785	5	AQPEP	81.79
cg01864468	6	NA	81.79
cg12391576	6	HLA-DPA1	81.79
cg01317586	15	LINC00925	81.79
cg18254123	15	NA	81.79
cg08210468	2	NA	82.14
cg06111799	3	IFT57	82.14
cg18697348	3	SELK	82.14
cg19687193	5	NDUFS6	82.14
cg02145102	6	NA	82.14
cg04054303	6	HLA-DQA1	82.14
cg04953552	6	NA	82.14
cg18969004	6	HCG27	82.14
cg11573390	10	TCERG1L	82.14
cg13830619	12	NA	82.14
cg03423038	17	NLE1	82.14
cg27392904	19	IL4I1	82.14
cg08514194	21	KRTAP12-4	82.14
cg11967332	1	SLC25A24	82.50
cg12479705	4	NA	82.50
cg20964594	4	CPZ	82.50
cg03231275	6	BTNL2	82.50
cg12846737	6	NA	82.50
cg07889790	8	ERICHI	82.50
cg21301341	13	GJA3	82.50
cg11942206	19	PSG1	82.50
cg21485898	19	ZNF836	82.50
cg17888219	20	DEFB127	82.50
cg05751189	2	SLC9A4	82.86
cg20913063	2	BCL11A	82.86
cg25598710	2	NA	82.86
cg22112152	3	NA	82.86
cg05786381	4	FAM53A	82.86
cg07075387	4	NA	82.86
cg15321244	6	HLA-DQB2	82.86
cg26375284	6	HLA-H	82.86
cg07964753	8	NA	82.86
cg02936593	11	NA	82.86
cg16273509	11	PAMRI	82.86
cg20694666	13	N6AMT2	82.86

cg10772532	14	<i>CEP128</i>	82.86
cg23812489	1	<i>FLG2</i>	83.21
cg10263003	2	<i>NA</i>	83.21
cg04246123	6	<i>HCG4B</i>	83.21
cg14555649	6	<i>DKFZP686I15217</i>	83.21
cg23536255	6	<i>NA</i>	83.21
cg04368789	7	<i>NA</i>	83.21
cg14228103	7	<i>PTN</i>	83.21
cg09797202	10	<i>SCD</i>	83.21
cg01702501	15	<i>RGMA</i>	83.21
cg09052185	6	<i>HLA-DQA1</i>	83.57
cg09535768	6	<i>HLA-DPBI</i>	83.57
cg16535653	6	<i>NA</i>	83.57
cg18424635	6	<i>HLA-DRB5</i>	83.57
cg20798066	6	<i>NA</i>	83.57
cg25283336	6	<i>HLA-DPA1</i>	83.57
cg00474465	10	<i>HMX2</i>	83.57
cg15214366	13	<i>CDX2</i>	83.57
cg24086348	17	<i>ABCA6</i>	83.57
cg24417155	17	<i>NA</i>	83.57
cg00055434	1	<i>PLCH2</i>	83.93
cg24903159	2	<i>NA</i>	83.93
cg25613667	5	<i>WDR55</i>	83.93
cg09312897	6	<i>HLA-DQB1</i>	83.93
cg15591384	6	<i>HLA-DRB6</i>	83.93
cg26590106	6	<i>HLA-DRB1</i>	83.93
cg08119527	7	<i>NA</i>	83.93
cg24120210	7	<i>RADIL</i>	83.93
cg18761058	11	<i>MACROD1</i>	83.93
cg18924965	14	<i>ANG</i>	83.93
cg06844719	16	<i>NA</i>	83.93
cg22166914	1	<i>ZYG11B</i>	84.29
cg01479912	2	<i>PDIA6</i>	84.29
cg10313151	2	<i>NA</i>	84.29
cg12932813	3	<i>TRMT10C</i>	84.29
cg06503255	5	<i>DND1</i>	84.29
cg00648423	6	<i>NA</i>	84.29
cg01540522	8	<i>KBTBD11</i>	84.29
cg25249362	10	<i>PFKP</i>	84.29
cg27346510	10	<i>TCERG1L</i>	84.29
cg02666610	11	<i>NA</i>	84.29
cg16886051	11	<i>GVINP1</i>	84.29
cg24680742	17	<i>TBCD</i>	84.29
cg25103043	19	<i>PRKCG</i>	84.29
cg18148498	1	<i>NA</i>	84.64
cg22504140	1	<i>NA</i>	84.64
cg18913843	2	<i>HPCAL1</i>	84.64
cg21544437	2	<i>NA</i>	84.64
cg10277872	4	<i>NA</i>	84.64
cg21543103	5	<i>PAPD7</i>	84.64
cg20341836	6	<i>HCG4B</i>	84.64
cg24638099	6	<i>HLA-DRB6</i>	84.64

cg02464808	8	<i>DEFA1B</i>	84.64
cg16866567	8	<i>PLEKHA2</i>	84.64
cg21858113	11	<i>SCN4B</i>	84.64
cg25165144	12	<i>B4GALNT3</i>	84.64
cg01801090	14	<i>FLJ31306</i>	84.64
cg10182287	14	<i>ATXN3</i>	84.64
cg08152839	15	<i>ST8SIA2</i>	84.64
cg16515500	18	<i>MC5R</i>	84.64
cg03199239	19	<i>GNG7</i>	84.64
cg15734230	19	<i>NA</i>	84.64
cg02890368	20	<i>GNAS</i>	84.64
cg13501907	2	<i>NA</i>	85.00
cg13585749	2	<i>NA</i>	85.00
cg23340935	2	<i>DIRC3</i>	85.00
cg00741675	4	<i>DGKQ</i>	85.00
cg05840289	5	<i>ANKRD33B</i>	85.00
cg18409782	5	<i>NA</i>	85.00
cg15225267	6	<i>NA</i>	85.00
cg20968290	6	<i>CDKAL1</i>	85.00
cg22993154	6	<i>NA</i>	85.00
cg11896151	7	<i>FAM20C</i>	85.00
cg14457452	9	<i>CDK5RAP2</i>	85.00
cg22202264	11	<i>IGSF9B</i>	85.00
cg05565442	12	<i>NA</i>	85.00
cg08861434	13	<i>NA</i>	85.00
cg18827503	13	<i>NA</i>	85.00
cg26936989	14	<i>FBLN5</i>	85.00
cg06634367	17	<i>RCVRN</i>	85.00
cg00638631	21	<i>KCNJ6</i>	85.00
cg19043679	5	<i>RGS14</i>	85.36
cg05366160	6	<i>HLA-DPA1</i>	85.36
cg15633912	10	<i>NA</i>	85.36
cg26527903	12	<i>NA</i>	85.36
cg25598086	14	<i>HSPA2</i>	85.36
cg03833077	19	<i>OLFM2</i>	85.36
cg01442889	1	<i>PLCH2</i>	85.71
cg11413152	1	<i>ERI3</i>	85.71
cg04890266	3	<i>ADCY5</i>	85.71
cg26657539	4	<i>NA</i>	85.71
cg07368937	5	<i>IRX4</i>	85.71
cg10115321	6	<i>CSNK2B</i>	85.71
cg12168509	6	<i>HLA-DPA1</i>	85.71
cg14022523	6	<i>LOC100289495</i>	85.71
cg07025011	7	<i>PDE1C</i>	85.71
cg23403836	7	<i>PSMG3-ASI</i>	85.71
cg03136151	1	<i>BRDT</i>	86.07
cg04394763	1	<i>DENND4B</i>	86.07
cg09385306	1	<i>C1orf52</i>	86.07
cg07805383	2	<i>NA</i>	86.07
cg15744668	2	<i>NA</i>	86.07
cg08823359	4	<i>PAPSS1</i>	86.07
cg07630345	6	<i>HCG27</i>	86.07

cg15408512	10	<i>TUBGCP2</i>	86.07
cg25601879	10	<i>NA</i>	86.07
cg16202259	14	<i>KIF26A</i>	86.07
cg04461745	17	<i>NA</i>	86.07
cg24419602	19	<i>NA</i>	86.07
cg02953382	22	<i>LOC391322</i>	86.07
cg09249173	1	<i>TMEM51</i>	86.43
cg11987751	1	<i>SLC35E2</i>	86.43
cg17355877	1	<i>PRKCZ</i>	86.43
cg23421392	2	<i>PDIA6</i>	86.43
cg00762069	3	<i>COL6A4P2</i>	86.43
cg24153901	3	<i>GLT8D1</i>	86.43
cg08943467	5	<i>LPCAT1</i>	86.43
cg21610927	5	<i>TRIO</i>	86.43
cg02735423	6	<i>HLA-DRB5</i>	86.43
cg04710276	6	<i>HCG27</i>	86.43
cg12929486	6	<i>SLC22A16</i>	86.43
cg17480035	6	<i>HLA-DRB1</i>	86.43
cg12257634	11	<i>NRXN2</i>	86.43
cg24417798	12	<i>FAM101A</i>	86.43
cg22805356	15	<i>NA</i>	86.43
cg25576961	15	<i>TTC23</i>	86.43
cg10047753	17	<i>NA</i>	86.43
cg00843105	19	<i>ZNF234</i>	86.43
cg15616006	19	<i>MIR518C</i>	86.43
cg04169610	22	<i>SERHL2</i>	86.43
cg07641578	22	<i>CYP2D7P1</i>	86.43
cg09616536	3	<i>ADAMTS9-AS2</i>	86.79
cg10348826	3	<i>NA</i>	86.79
cg11044162	3	<i>ADAMTS9-AS2</i>	86.79
cg00123128	4	<i>DOK7</i>	86.79
cg07108441	4	<i>SORBS2</i>	86.79
cg09623286	4	<i>TLR2</i>	86.79
cg16443079	5	<i>NA</i>	86.79
cg02458000	6	<i>NA</i>	86.79
cg03344051	6	<i>HLA-DQB1</i>	86.79
cg18715193	6	<i>HLA-DPA1</i>	86.79
cg07449652	7	<i>SEMA3C</i>	86.79
cg23228529	7	<i>PKD1L1</i>	86.79
cg12833683	8	<i>VPS13B</i>	86.79
cg20479209	8	<i>MROH5</i>	86.79
cg06088084	10	<i>BMS1P1</i>	86.79
cg06889571	10	<i>ADARB2</i>	86.79
cg16917193	12	<i>NA</i>	86.79
cg23476830	13	<i>ZIC5</i>	86.79
cg04245766	14	<i>BMP4</i>	86.79
cg07904290	16	<i>NA</i>	86.79
cg17789193	19	<i>NA</i>	86.79
cg02775404	22	<i>NA</i>	86.79
cg15198148	1	<i>FAAH</i>	87.14
cg27514105	1	<i>HCRTR1</i>	87.14
cg26944725	2	<i>LYPD6B</i>	87.14

cg09710920	5	NA	87.14
cg02979711	6	HLA-H	87.14
cg10690152	6	DDAH2	87.14
cg08310519	11	ME3	87.14
cg12150991	11	SCUBE2	87.14
cg16112226	11	KIRREL3	87.14
cg18954658	11	NA	87.14
cg16248432	12	DIP2B	87.14
cg03830006	17	ENPP7	87.14
cg09080788	17	CDRT15P1	87.14
cg17854747	18	RNF138	87.14
cg06587249	19	ZNF71	87.14
cg22944307	19	NA	87.14
cg18021902	1	WRAP73	87.50
cg18991601	2	FZD5	87.50
cg22496339	2	NA	87.50
cg16819848	4	ZFYVE28	87.50
cg15613905	5	MCC	87.50
cg13516209	6	HLA-H	87.50
cg14870156	6	HLA-DPA1	87.50
cg15568074	6	HLA-DRB1	87.50
cg26482585	6	NA	87.50
cg05073382	8	MYOM2	87.50
cg05832925	11	NA	87.50
cg02747151	15	ATP10A	87.50
cg06736229	1	NA	87.86
cg15818357	1	COL8A2	87.86
cg25501666	2	NA	87.86
cg04520948	3	PSMD2	87.86
cg22134413	5	NA	87.86
cg19493134	6	HLA-B	87.86
cg22901297	6	HLA-DRB6	87.86
cg24470466	6	HLA-DQA1	87.86
cg27107292	6	HLA-DRB1	87.86
cg27414868	6	NA	87.86
cg22168087	7	HIBADH	87.86
cg25376032	11	MOB2	87.86
cg11507597	12	NA	87.86
cg22237018	13	GPC6	87.86
cg20460697	18	MALT1	87.86
cg15580304	20	MIR941-1	87.86
cg19521610	22	NA	87.86
cg08942192	1	SLC25A24	88.21
cg14856563	1	NA	88.21
cg24506221	1	GSTMI	88.21
cg01717482	3	NA	88.21
cg23737713	3	NDUFB4	88.21
cg14854798	4	NA	88.21
cg23921777	4	UVSSA	88.21
cg05258009	5	NA	88.21
cg02818451	6	DPCR1	88.21
cg06064954	6	NA	88.21

cg08010331	6	<i>HLA-DPA1</i>	88.21
cg13056744	6	<i>NA</i>	88.21
cg18423635	6	<i>NA</i>	88.21
cg26981746	6	<i>HLA-DRB5</i>	88.21
cg03062166	9	<i>FAM219A</i>	88.21
cg03187668	11	<i>OR4C6</i>	88.21
cg19831575	11	<i>FGF4</i>	88.21
cg23795893	11	<i>PGR</i>	88.21
cg22729460	12	<i>NA</i>	88.21
cg24221398	12	<i>NA</i>	88.21
cg19659004	14	<i>AMN</i>	88.21
cg01421525	16	<i>NA</i>	88.21
cg13948710	19	<i>ZNF813</i>	88.21
cg01861555	20	<i>NA</i>	88.21
cg11495604	20	<i>KCNQ2</i>	88.21
cg03858121	22	<i>NA</i>	88.21
cg01105403	2	<i>NA</i>	88.57
cg08289272	2	<i>NA</i>	88.57
cg00409917	6	<i>HCG4B</i>	88.57
cg01499815	6	<i>NA</i>	88.57
cg03398989	6	<i>NA</i>	88.57
cg03995122	6	<i>HCG4B</i>	88.57
cg04276750	6	<i>HLA-H</i>	88.57
cg06451157	6	<i>NA</i>	88.57
cg07584860	6	<i>HLA-H</i>	88.57
cg10804687	6	<i>NA</i>	88.57
cg14449180	6	<i>HCG4B</i>	88.57
cg15070894	6	<i>HCG4B</i>	88.57
cg17982178	6	<i>NA</i>	88.57
cg24751894	6	<i>HCG4B</i>	88.57
cg25644740	6	<i>HCG4B</i>	88.57
cg21446981	7	<i>NA</i>	88.57
cg10891570	8	<i>SPAG1</i>	88.57
cg16816400	9	<i>FCN1</i>	88.57
cg06450397	10	<i>FAS</i>	88.57
cg10317138	10	<i>ADAM12</i>	88.57
cg18621672	10	<i>DYDC1</i>	88.57
cg13311805	11	<i>OR4S2</i>	88.57
cg15141401	11	<i>OR4C11</i>	88.57
cg25150519	12	<i>SLC9A7P1</i>	88.57
cg03035657	16	<i>NA</i>	88.57
cg01552920	17	<i>MYADML2</i>	88.57
cg19776366	17	<i>BAIAP2</i>	88.57
cg24636332	17	<i>SPNS2</i>	88.57
cg23096297	20	<i>DIDO1</i>	88.57
cg06647930	22	<i>PRR5-ARHGAP8</i>	88.57
cg17387122	22	<i>MICAL3</i>	88.57
cg05389555	1	<i>KLHL21</i>	88.93
cg05299459	2	<i>NA</i>	88.93
cg15080433	2	<i>LY75-CD302</i>	88.93
cg23830185	2	<i>TNSI</i>	88.93
cg17560624	3	<i>FBLN2</i>	88.93

cg04840108	4	<i>TLR6</i>	88.93
cg18596626	4	<i>NA</i>	88.93
cg22758714	4	<i>NA</i>	88.93
cg01392179	5	<i>FGF18</i>	88.93
cg05244234	5	<i>ZNF879</i>	88.93
cg00113675	6	<i>HLA-H</i>	88.93
cg01062395	6	<i>HLA-H</i>	88.93
cg01336390	6	<i>NA</i>	88.93
cg01502466	6	<i>NA</i>	88.93
cg07147204	6	<i>NA</i>	88.93
cg08231349	6	<i>HCG4B</i>	88.93
cg10262387	6	<i>HLA-H</i>	88.93
cg10698654	6	<i>TAP2</i>	88.93
cg11993350	6	<i>HLA-DRB1</i>	88.93
cg18325044	6	<i>NA</i>	88.93
cg21810411	6	<i>HLA-DRB1</i>	88.93
cg22671410	6	<i>NA</i>	88.93
cg26127187	6	<i>HLA-H</i>	88.93
cg26649688	6	<i>HLA-H</i>	88.93
cg01139696	7	<i>GNAI2</i>	88.93
cg17803268	7	<i>PTPRN2</i>	88.93
cg06463424	8	<i>NA</i>	88.93
cg07765769	8	<i>NA</i>	88.93
cg24493971	8	<i>GSDMD</i>	88.93
cg17044529	11	<i>DTX4</i>	88.93
cg09562018	16	<i>NA</i>	88.93
cg09884893	16	<i>UBE2I</i>	88.93
cg21143224	17	<i>RPTOR</i>	88.93
cg26463170	18	<i>TRAPPC8</i>	88.93
cg04227007	19	<i>LOC284412</i>	88.93
cg26316885	19	<i>ICAM5</i>	88.93
cg22846741	22	<i>HIC2</i>	88.93
cg23073032	1	<i>PTPN14</i>	89.29
cg00866836	2	<i>NA</i>	89.29
cg05995465	2	<i>HDAC4</i>	89.29
cg12400864	3	<i>NA</i>	89.29
cg27026615	3	<i>PTX3</i>	89.29
cg15599437	5	<i>NA</i>	89.29
cg23415761	5	<i>GNPDA1</i>	89.29
cg04520169	6	<i>HCG4B</i>	89.29
cg10310917	6	<i>NA</i>	89.29
cg18111114	6	<i>HLA-DRB5</i>	89.29
cg24179288	6	<i>NA</i>	89.29
cg10974412	7	<i>TNS3</i>	89.29
cg01088723	8	<i>GSDMD</i>	89.29
cg19362774	8	<i>NA</i>	89.29
cg14429748	9	<i>ASTN2</i>	89.29
cg09746817	10	<i>EBF3</i>	89.29
cg00976692	11	<i>MEN1</i>	89.29
cg10144558	11	<i>TENM4</i>	89.29
cg06350542	13	<i>MCF2L</i>	89.29
cg25291250	15	<i>RFX7</i>	89.29

cg01247560	16	<i>JPH3</i>	89.29
cg05358715	16	<i>SPATA33</i>	89.29
cg01717830	17	<i>DDX42</i>	89.29
cg20663042	17	<i>TEKT1</i>	89.29
cg06675417	18	<i>NA</i>	89.29
cg25290355	19	<i>LENG9</i>	89.29
cg27009008	19	<i>IRF2BP1</i>	89.29
cg11882358	3	<i>LOC152225</i>	89.64
cg22542451	3	<i>NA</i>	89.64
cg03807873	6	<i>NA</i>	89.64
cg04458159	6	<i>HLA-H</i>	89.64
cg07889003	6	<i>HLA-DRB1</i>	89.64
cg10474018	6	<i>NA</i>	89.64
cg15659132	6	<i>NA</i>	89.64
cg15671450	6	<i>NA</i>	89.64
cg16223220	6	<i>HLA-H</i>	89.64
cg17134700	6	<i>HLA-H</i>	89.64
cg20223237	6	<i>HLA-DPA1</i>	89.64
cg20578893	6	<i>NA</i>	89.64
cg21549632	6	<i>HLA-H</i>	89.64
cg10436877	7	<i>ABCF2</i>	89.64
cg06723525	10	<i>NA</i>	89.64
cg24127310	10	<i>NA</i>	89.64
cg27286106	10	<i>FAM21C</i>	89.64
cg25796986	13	<i>F10</i>	89.64
cg02567750	1	<i>NA</i>	90.00
cg13052034	1	<i>SGIP1</i>	90.00
cg16377948	1	<i>MOV10</i>	90.00
cg03258421	2	<i>NA</i>	90.00
cg07144255	2	<i>TSSC1</i>	90.00
cg03640465	4	<i>SLC2A9</i>	90.00
cg22071943	5	<i>SLC6A18</i>	90.00
cg25138752	5	<i>NA</i>	90.00
cg15931205	6	<i>HCG4B</i>	90.00
cg18845053	6	<i>NA</i>	90.00
cg23130010	6	<i>HLA-H</i>	90.00
cg08166019	7	<i>NA</i>	90.00
cg13145550	7	<i>NA</i>	90.00
cg23090207	8	<i>GSDMD</i>	90.00
cg05650055	11	<i>MYEOV</i>	90.00
cg15985500	11	<i>MPPED2</i>	90.00
cg02757577	15	<i>NA</i>	90.00
cg06118351	16	<i>C16orf71</i>	90.00
cg09499248	16	<i>POLR3K</i>	90.00
cg16700025	16	<i>CMIP</i>	90.00
cg18627179	19	<i>RPL18A</i>	90.00
cg24303062	20	<i>COMMD7</i>	90.00

^aProbe ID of the Infinium HumanMethylation 450 BeadChip. ^b*P*-values for detection of a signal above the background <0.01. N/A, not annotated (designed for the intergenic regions). Since low call proportions may have been attributable to polymorphism at the probe CpG sites, the above 822 probes were excluded from the present assay.