

Supplementary Table 6. Shared DMLs between the OA hip and OA knee clusters.

Probe	Gene	CHR
cg25710107	A2LD1	13
cg00134295	A2M	12
cg09866565	A4GNT	3
cg06503456	ABCC1;ABCC	16
cg25928474	ABCC3;ABCC	17
cg24260135	ABCC8	11
cg03471346	ABL2;ABL2;A	1
cg14458783	ABR;ABR	17
cg10370025	ABR;ABR;ABf	17
cg10996148	ABR;ABR;ABf	17
cg01369908	ABTB2	11
cg08663298	ABTB2	11
cg03003335	ACAP3	1
cg09143318	ACCN1	17
cg26142972	ACCN4;ACCN	2
cg18180407	ACOT11;ACO	1
cg11654006	ACOT7;ACOT	1
cg26570804	ACOT7;ACOT	1
cg24597207	ACOX3;ACOX	4
cg26869512	ACOX3;ACOX	4
cg09636163	ACOXL;ACOX	2
cg22002216	ACSF2	17
cg18733757	ACSL5;ACSL5	10
cg24691835	ACTG2	2
cg02057747	ACTN1;ACTN	14
cg26831416	ACTN4	19
cg01234517	ACTR3C;LRRG	7
cg00653455	ACTR8	3
cg15211996	ACTRT2	1
cg10852045	ADAM32	8
cg12845177	ADAMTS10	19
cg27015773	ADAMTS10	19
cg24368226	ADAMTS17	15
cg13468759	ADAMTSL1;A	9
cg22731190	ADAMTSL2;A	9
cg02123534	ADAP1	7
cg03754605	ADARB2	10
cg26361041	ADARB2	10
cg06887224	ADCY2	5
cg14418176	ADCY3	2
cg10341242	ADCY7	16

cg16548911	ADCY7	16
cg07644321	ADD1;ADD1;	4
cg18994606	ADD3;ADD3;	10
cg23328194	ADRA1A;ADF	8
cg02465859	AFAP1L2;AF	10
cg10140126	AFF3;AFF3	2
cg25350306	AFF3;AFF3	2
cg09596958	AGAP2;AGAF	12
cg23387569	AGAP2;LOC1	12
cg11817411	AGAP3;AGAF	7
cg08321684	AGER;AGER	6
cg08057869	AGXT2L1;AG	4
cg03822873	AHCYL2;AHC	7
cg06799735	AHNAK2	14
cg23916896	AHRR	5
cg21052656	AIP	11
cg06483820	AKAP1	17
cg17133734	AKAP13;AKA	15
cg05254518	AKAP13;AKA	15
cg14003853	AKAP13;AKA	15
cg07160992	AKT1;AKT1;A	14
cg11314684	AKT3;AKT3	1
cg06400255	ALDOA	16
cg13306478	ALOX5AP	13
cg07910680	ALPK2	18
cg12466599	ALPL;ALPL	1
cg24722348	ALPL;ALPL	1
cg24374161	AMBRA1	11
cg20406747	AMHR2;AMH	12
cg13751113	AMICA1;AMI	11
cg24552844	AMICA1;AMI	11
cg25116615	ANGPT1	8
cg08521995	ANK1;ANK1;	8
cg00488747	ANKRD11	16
cg00770754	ANKRD11	16
cg09420319	ANKRD11	16
cg09486407	ANKRD11	16
cg10343327	ANKRD2;ANK	10
cg24065504	ANKRD22	10
cg01442620	ANKRD27	19
cg13941760	ANKRD44	2
cg16411361	ANKRD44	2
cg00794673	ANKS1A	6
cg03613003	ANO1;ANO1	11
cg13767135	ANO1;ANO1	11
cg15767218	ANO1;ANO1	11

cg26401673	ANO10	3
cg02278646	ANO6;ANO6;	12
cg24530041	ANPEP	15
cg20836795	ANTXR1;ANT	2
cg23258615	ANXA11;ANX	10
cg19130824	ANXA5	4
cg03832197	AOX2P	2
cg02415661	AP1M1;AP1M	19
cg27205902	AP2A2	11
cg11100795	AP3B1	5
cg02349866	AP3S2;AP3S2	15
cg27216937	APBB1;APBB	11
cg23877017	APBB2;APBB	4
cg25611723	APCDD1	18
cg23729763	APLP2;APLP2	11
cg25354657	APLP2;APLP2	11
cg17548735	APOBEC2;AP	6
cg24424889	APOBEC3H;A	22
cg11911305	APOC1P1;AP	19
cg07713361	APOL1;APOL	22
cg09432376	APOL6	22
cg14690065	APOL6	22
cg05963604	APPL1	3
cg04372674	AQP1	7
cg09676669	AQP1	7
cg10132917	AQP1	7
cg15373767	AQP1	7
cg18307978	AQP1	7
cg25075794	AQP1	7
cg25230363	AQP1	7
cg11827925	AQP1;AQP1	7
cg01381498	ARHGAP10	4
cg26282731	ARHGAP10	4
cg14575356	ARHGAP18	6
cg27244773	ARHGAP27;A	17
cg03705571	ARHGEF10	8
cg06807837	ARHGEF10	8
cg07694735	ARHGEF10	8
cg20149022	ARHGEF10	8
cg22223001	ARHGEF10	8
cg07233343	ARHGEF10L;	1
cg11229273	ARHGEF3	3
cg01774027	ARID3A	19
cg18522931	ARID5B	10
cg05204104	ARL4C;ARL4C	2
cg04642300	ARMC2	6

cg19708986	ARNT2	15
cg00970435	ARSG	17
cg06160171	ARSJ	4
cg15922611	ARSJ	4
cg23902076	ASAP2;ASAP:	2
cg24654025	ASB13;ASB1:	10
cg05277504	ASPSCR1	17
cg12374579	ASPSCR1	17
cg14419393	ASPSCR1	17
cg22949575	ASPSCR1	17
cg23928512	ASPSCR1	17
cg26955287	ASPSCR1	17
cg14010829	ASS1;ASS1	9
cg13792444	ASTN2;ASTN:	9
cg20363931	ATE1;ATE1	10
cg20839205	ATOH8	2
cg18256640	ATP10A	15
cg13858127	ATP11A;ATP:	13
cg01448881	ATP1A2	1
cg26009832	ATP1B1;ATP:	1
cg02286270	ATP8A2	13
cg19566879	ATXN1;ATXN	6
cg22274117	ATXN1;ATXN	6
cg26843612	ATXN1;ATXN	6
cg07932199	ATXN2	12
cg21829116	ATXN7L1	7
cg04601228	AUTS2;AUTS:	7
cg14818546	AUTS2;AUTS:	7
cg21557473	AUTS2;AUTS:	7
cg26390598	B3GALT5;B3G	21
cg27121870	B3GAT1;B3G	11
cg11472422	B3GNTL1	17
cg21688152	B3GNTL1	17
cg24962672	B3GNTL1	17
cg13858803	B4GALT1	9
cg09790829	BACH2;BACH	6
cg11559054	BACH2;BACH	6
cg17486314	BACH2;BACH	6
cg23532322	BAIAP2;BAIA	17
cg09840386	BAIAP2;BAIA	17
cg12475142	BAIAP2;BAIA	17
cg27551910	BAIAP2;BAIA	17
cg05762553	BANP;BANP	16
cg09870004	BANP;BANP	16
cg27058702	BANP;BANP	16
cg13267247	BAT2	6

cg04536765	BAT3;BAT3;B	6
cg04006266	BBS1	11
cg09144098	BBS2	16
cg05891572	BBS9;BBS9;B	7
cg22161706	BBS9;BBS9;B	7
cg08284564	BCAR1;BCAR	16
cg06888900	BCAR1;BCAR	16
cg24965479	BCAS3;BCAS:	17
cg01636910	BCL10	1
cg17935536	BCL11A;BCL1	2
cg13758331	BCL2L11;BCL	2
cg27087650	BCL3	19
cg20088756	BEGAIN;BEG,	14
cg01963573	BEND3	6
cg00658449	BEYLA;BEYLA	8
cg18815565	BFSP1	20
cg09996284	BGLAP	1
cg11519176	BGLAP	1
cg23729443	BGLAP	1
cg22641201	BICC1	10
cg15270350	BIRC5;BIRC5;	17
cg24890964	BLCAP;BLCAF	20
cg14579118	BLVRA	7
cg26665274	BMP2	20
cg22023826	BMP5	6
cg21752295	BMP6	6
cg09807875	BMPER	7
cg02365648	BNIP3	10
cg06147895	BNIP3	10
cg02858625	BOC	3
cg13071869	BOC	3
cg13272743	BOC	3
cg15111495	BOC	3
cg06024391	BPGM;BPGM	7
cg02983911	BPI	20
cg26534847	BPI	20
cg01294253	BRD3	9
cg03657791	BRD4	19
cg01446612	BRI3BP	12
cg15161050	BRI3BP	12
cg12152068	BSN	3
cg20092122	BST2	19
cg06766016	BTBD19	1
cg13442386	BTBD9;BTBD	6
cg01269795	BTN3A3;BTN	6
cg05496768	C10orf11	10

cg14207539	C10orf11	10
cg23264016	C10orf11	10
cg24280832	C10orf11	10
cg09411597	C10orf18	10
cg17502312	C10orf18	10
cg10775039	C10orf71;C10	10
cg18895336	C10orf72	10
cg10627429	C10orf81	10
cg11204562	C10orf81	10
cg12490907	C11orf41	11
cg07188648	C11orf88;C11	11
cg06579738	C11orf92	11
cg19879537	C12orf34	12
cg09166410	C13orf16	13
cg24169915	C14orf177;C14	14
cg00780666	C14orf179;C14	14
cg21032266	C14orf43;C14	14
cg23938483	C14orf43;C14	14
cg24128590	C14orf43;C14	14
cg03536657	C15orf28;AN	15
cg12609829	C15orf53	15
cg02319067	C16orf54	16
cg26285698	C16orf54;C16	16
cg07835443	C16orf55	16
cg26923629	C16orf71	16
cg26967566	C16orf74	16
cg21465176	C17orf101;C17	17
cg25490145	C17orf101;C17	17
cg01435401	C17orf97	17
cg24780966	C18orf1;C18	18
cg05344495	C19orf77	19
cg06834507	C1orf106;C10	1
cg17131183	C1orf113;C10	1
cg17518550	C1orf150	1
cg01722868	C1orf161	1
cg23068939	C1orf162	1
cg19375403	C1orf174	1
cg27446570	C1orf174	1
cg15324917	C1orf198;C10	1
cg07582892	C1orf21	1
cg21118367	C1orf21	1
cg21777154	C1orf21	1
cg15644413	C1orf216	1
cg26788737	C1orf55	1
cg21582311	C1orf96	1
cg18157896	C20orf141;LC	20

cg09203029	C20orf20	20
cg06787912	C21orf82;C2:	21
cg12003230	C21orf84	21
cg25819429	C2orf48	2
cg04499514	C3AR1	12
cg16217908	C3orf52	3
cg14740771	C4BPB;C4BPI	1
cg06005199	C4orf23	4
cg09774649	C4orf23	4
cg11036672	C4orf23	4
cg23210109	C4orf44;C4oi	4
cg10224107	C5AR1;C5AR:	19
cg08470180	C5orf24;C5oi	5
cg00287773	C5orf32	5
cg08927631	C5orf33;C5oi	5
cg03653573	C5orf56	5
cg25534601	C6orf123	6
cg02917603	C6orf129	6
cg19635401	C6orf204;PLI	6
cg01343703	C7orf50;C7oi	7
cg11360546	C7orf50;C7oi	7
cg21255128	C7orf50;C7oi	7
cg08626653	C7orf51	7
cg24777710	C7orf54;SND	7
cg03036214	CA12;CA12	15
cg25919221	CA6	1
cg21039723	CAB39;CAB3:	2
cg02468320	CACNA1C;CA	12
cg13939602	CACNA1C;CA	12
cg16728539	CACNA1C;CA	12
cg10517230	CACNA1G;CA	17
cg19075717	CACNA1G;CA	17
cg07890233	CACNA1H;CA	16
cg15828524	CACNB3	12
cg03505501	CADM1;CADI	11
cg11425149	CALD1;CALD:	7
cg12273284	CAMK1D;CAI	10
cg05379597	CAMK2G;CAI	10
cg17541002	CAMKK2;CAM	12
cg21583016	CAMTA1	1
cg10664272	CAPG	2
cg06970290	CAPN1	11
cg16615776	CAPN10;CAP	2
cg19807694	CAPN8	1
cg03654273	CAPZB	1
cg05820435	CAPZB	1

cg06360604	CAPZB	1
cg15136975	CAPZB	1
cg26818786	CARD6	5
cg10279148	CARHSP1;CA	16
cg08862742	CARS;CARS;C	11
cg05446253	CASKIN2;CAS	17
cg15064681	CASQ2	1
cg09729182	CASR	3
cg08732950	CBFA2T3	16
cg05540133	CBFA2T3;CBF	16
cg01544580	CBX1	17
cg12580580	CCDC109A	10
cg21616935	CCDC11	18
cg07220903	CCDC12	3
cg11134246	CCDC24	1
cg26534677	CCDC25	8
cg12879038	CCDC57	17
cg20780302	CCDC57	17
cg08365738	CCDC80;CCD	3
cg12797157	CCDC88B	11
cg02932854	CCL24	7
cg11303839	CCL26	7
cg18407309	CCL3	17
cg08656816	CCL5	17
cg03744842	CCM2;CCM2	7
cg18205668	CCM2;CCM2	7
cg04717045	CCND1	11
cg06539449	CCND1	11
cg02950701	CCNY;CCNY	10
cg09509673	CCR10;CNTN	17
cg23817981	CCR4	3
cg07248223	CCR7	17
cg16047279	CCR7	17
cg18599081	CCRL2;CCRL2	3
cg23350385	CCRL2;CCRL2	3
cg19090861	CD248	11
cg13790288	CD28	2
cg04098585	CD28;CD28	2
cg07458509	CD320;CD320	19
cg14082886	CD44;CD44;C	11
cg19408145	CD48	1
cg20868817	CD48	1
cg04188351	CD59;CD59;C	11
cg07440264	CD59;CD59;C	11
cg23903301	CD59;CD59;C	11
cg13014558	CD6	11

cg11848173	CD63;CD63	12
cg21108085	CD82;CD82	11
cg07813265	CDC14A;CDC	1
cg07341609	CDC42EP1	22
cg15035133	CDC42EP1	22
cg27613998	CDC42EP3	2
cg24527183	CDC42SE2;CI	5
cg09220326	CDCP1;CDCP	3
cg02973961	CDH11	16
cg09415485	CDH13	16
cg04304802	CDH23	10
cg13714026	CDH23;CDH2	10
cg19615295	CDH26;CDH2	20
cg05376601	CDH3	16
cg14139051	CDK14	7
cg01720722	CDK18;CDK1	1
cg05101437	CDK6;CDK6	7
cg23342625	CDKAL1	6
cg23241878	CEACAM21;C	19
cg26542660	CEP135	4
cg22092521	CFD	19
cg06633978	CFDP1	16
cg12944530	CFLAR;CFLAR	2
cg25198049	CGN	1
cg16767221	CGNL1	15
cg18670236	CHCHD6	3
cg27567495	CHDH	3
cg18451156	CHFR;CHFR;C	12
cg20066677	CHFR;CHFR;C	12
cg21232015	CHFR;CHFR;C	12
cg24532476	CHFR;CHFR;C	12
cg13318256	CHKA;CHKA	11
cg06523556	CHRNA6	8
cg09632936	CHRNA9	4
cg18406852	CHST10	2
cg00608661	CHST11	12
cg11117177	CHST11	12
cg16861964	CHST11	12
cg07921503	CHST12	7
cg18664965	CHST13	3
cg13902101	CHSY1	15
cg03339668	CIT	12
cg26097051	CIT	12
cg07180571	CLASP1;CLAS	2
cg12051116	CLASP1;CLAS	2
cg13790426	CLCC1;CLCC1	1

cg21660130	CLCNKB	1
cg11744304	CLDN15	7
cg03217729	CLEC16A	16
cg08321576	CLEC2B;CLEC	12
cg03447908	CLEC3B	3
cg13730618	CLIC6	21
cg03058520	CLK3;CLK3	15
cg02330500	CLMN	14
cg05239310	CLMN	14
cg00865429	CLNK	4
cg03254067	CLNK	4
cg12182284	CLTB;CLTB	5
cg00326231	CLTCL1;CLTC	22
cg03129774	CLUAP1	16
cg05705335	CMIP	16
cg06896529	CMIP;CMIP	16
cg16353318	CMIP;CMIP	16
cg05226518	CNIH	14
cg09988837	CNIH3	1
cg16175941	CNKSR3	6
cg27269110	CNKSR3	6
cg12448539	CNN3	1
cg11812748	CNST;CNST	1
cg14131220	CNTFR;CNTFI	9
cg00866054	COL11A2;CO	6
cg00920162	COL11A2;CO	6
cg01194674	COL11A2;CO	6
cg01412022	COL11A2;CO	6
cg02230225	COL11A2;CO	6
cg04249605	COL11A2;CO	6
cg08077736	COL11A2;CO	6
cg09261794	COL11A2;CO	6
cg10736955	COL11A2;CO	6
cg12061370	COL11A2;CO	6
cg12228461	COL11A2;CO	6
cg12881453	COL11A2;CO	6
cg12947757	COL11A2;CO	6
cg13617209	COL11A2;CO	6
cg14683730	COL11A2;CO	6
cg15173443	COL11A2;CO	6
cg15818109	COL11A2;CO	6
cg18375610	COL11A2;CO	6
cg18671115	COL11A2;CO	6
cg20269729	COL11A2;CO	6
cg22161893	COL11A2;CO	6
cg22748722	COL11A2;CO	6

cg24311693	COL11A2;CO	6
cg25482983	COL11A2;CO	6
cg26322749	COL11A2;CO	6
cg26867987	COL11A2;CO	6
cg26981781	COL11A2;CO	6
cg00505762	COL11A2;CO	6
cg01680268	COL11A2;CO	6
cg01806857	COL11A2;CO	6
cg03783258	COL11A2;CO	6
cg11411509	COL11A2;CO	6
cg11835806	COL11A2;CO	6
cg17591573	COL11A2;CO	6
cg19628686	COL11A2;CO	6
cg21509966	COL11A2;CO	6
cg22501449	COL11A2;CO	6
cg23704085	COL11A2;CO	6
cg24864639	COL11A2;CO	6
cg20436086	COL13A1;CO	10
cg02186748	COL1A1	17
cg14562086	COL1A1	17
cg14700325	COL1A1	17
cg18618815	COL1A1	17
cg25026926	COL1A1	17
cg06299997	COL1A2	7
cg10368049	COL1A2	7
cg23348014	COL1A2	7
cg13079333	COL20A1	20
cg08760493	COL25A1;CO	4
cg13427810	COL27A1	9
cg10275917	COL28A1	7
cg01906695	COL2A1;COL:	12
cg08715466	COL2A1;COL:	12
cg04887675	COL4A1	13
cg18114040	COL4A2	13
cg13618741	COL5A1	9
cg22247792	COL6A2;COL:	21
cg10979567	COL6A3;COL:	2
cg20502977	COL6A3;COL:	2
cg04869122	COL6A3;COL:	2
cg21175685	COL8A1;MIR:	3
cg06598544	COL9A3	20
cg24888814	COPZ1	12
cg00876141	CORIN	4
cg12449974	CORO2B	15
cg10423607	CPA6;CPA6	8
cg01708636	CPE	4

cg19464524	CPEB3	10
cg26426690	CPEB3	10
cg22881750	CPNE5	6
cg15211864	CPT1A;CPT1A	11
cg26906629	CPT1A;CPT1A	11
cg00233633	CPVL;CPVL	7
cg19573230	CREB3L2	7
cg12552104	CREB5;CREB5	7
cg13495373	CREB5;CREB5	7
cg19559984	CREB5;CREB5	7
cg19588408	CREB5;CREB5	7
cg04704487	CRISPLD2	16
cg02961385	CRTC1;CRTC1	19
cg03073714	CRY1	12
cg20704330	CSF2	5
cg00158770	CSGALNACT1	8
cg12059540	CSGALNACT1	8
cg14722693	CSGALNACT1	8
cg06129556	CSNK1G1	15
cg25581222	CSNK1G1	15
cg24168221	CST9	20
cg18618429	CSTA	3
cg07237540	CTDP1;CTDP1	18
cg12386061	CTDSPL;CTDSPL	3
cg05740575	CTHRC1	8
cg06968859	CTNNA2;CTNNA2	2
cg03206537	CTSA;CTSA;CTSA	20
cg16118839	CTSC;CTSC;CTSC	11
cg01932691	CTSG	14
cg18245281	CTSZ	20
cg23679724	CTSZ	20
cg07663344	CTTN;CTTN	11
cg08581745	CUBN	10
cg25913882	CUBN	10
cg20080282	CUL5	11
cg02911387	CUX1;CUX1;CUX1	7
cg14466759	CUX1;CUX1;CUX1	7
cg20567148	CUX1;CUX1;CUX1	7
cg24183566	CUX1;CUX1;CUX1	7
cg24420432	CUX1;CUX1;CUX1	7
cg26570844	CUX1;CUX1;CUX1	7
cg01257799	CXCR5	11
cg18499750	CYB561;CYB561	17
cg25098174	CYB561;CYB561	17
cg02603251	CYFIP2;CYFIP2	5
cg21181051	CYP20A1	2

cg00999152	CYP26B1	2
cg01959421	CYP26B1	2
cg09233204	CYP26C1	10
cg17461336	CYP3A43;CYF	7
cg20293609	CYR61	1
cg08687948	CYTH3	7
cg20492034	CYTH3	7
cg05643545	CYTSB;CYTSB	17
cg09818912	CYTSB;CYTSB	17
cg20290367	CYTSB;CYTSB	17
cg06454084	DACT3	19
cg08906015	DACT3	19
cg23976388	DAGLA	11
cg05473987	DAP	5
cg18801045	DAP	5
cg19633004	DAP	5
cg21244322	DAPK2	15
cg09365002	DAXX;DAXX;I	6
cg09597022	DAXX;DAXX;I	6
cg22697517	DBF4B;DBF4I	17
cg02872476	DBNDD1	16
cg02575483	DCBLD1	6
cg08514408	DCK	4
cg23574583	DCLK1	13
cg22806908	DCP1A	3
cg20202112	DCTN1;DCTN	2
cg01820584	DCUN1D4;DC	4
cg16707952	DDR1;DDR1	6
cg05883128	DDX60	4
cg27040700	DECR1	8
cg11721464	DEDD2	19
cg14189583	DEDD2	19
cg13618623	DENND1A;Df	9
cg08379738	DENND1C	19
cg07580128	DENND3	8
cg21442881	DENND3	8
cg23224619	DGKD;DGKD	2
cg02920600	DGKI	7
cg22718636	DGKQ	4
cg10177197	DHCR24	1
cg10523319	DHRS3	1
cg13624631	DHRS7	14
cg14777519	DHX30;DHX3	3
cg20592691	DIAPH3;DIAP	13
cg06492521	DIP2C	10
cg09782637	DIP2C	10

cg11423998	DIP2C	10
cg13477178	DIP2C	10
cg17861458	DIP2C	10
cg18442019	DIP2C	10
cg25301103	DIP2C	10
cg04097334	DIRC1	2
cg07328664	DIS3L2	2
cg26148020	DLC1	8
cg27395342	DLC1;DLC1	8
cg17989952	DLC1;DLC1;D	8
cg15681239	DLEC1;DLEC1	3
cg24182581	DLG2;DLG2;E	11
cg25856632	DLG4;DLG4	17
cg14157570	DLL4	15
cg27016494	DLX5	7
cg00204249	DNAH17	17
cg09764984	DNASE1	16
cg15503081	DNASE2	19
cg00050692	DNMT3A;DN	2
cg03752935	DOCK1	10
cg14939821	DOCK1;FAM:	10
cg11394600	DOCK4	7
cg06870470	DOCK6	19
cg14293102	DOT1L	19
cg06776201	DPF3	14
cg26187031	DPYSL2	8
cg17759095	DST	6
cg07946977	DUSP10;DUS	1
cg27449114	DUSP28	2
cg02927679	DUSP5	10
cg03290131	DUSP5	10
cg10080966	DUSP5	10
cg01171786	DYSF;DYSF;D	2
cg12245706	DYSF;DYSF;D	2
cg14196395	DYSF;DYSF;D	2
cg02930866	EAF1	3
cg00210856	EBF1	5
cg11898646	EBF1	5
cg05487589	EBF2	8
cg03497907	EBF3	10
cg04582254	EBF3	10
cg07194839	EBF3	10
cg15491701	EBF3	10
cg23250262	EBF3	10
cg13562122	ECE1;ECE1;Ei	1
cg21005416	ECE1;ECE1;Ei	1

cg02812891	ECEL1P2	2
cg13138089	ECEL1P2	2
cg16264526	EDNRA;EDNF	4
cg25978218	EFHD2	1
cg18919106	EFR3A	8
cg18454133	EFS;EFS	14
cg05150973	EHD1	11
cg11321083	EHD1	11
cg17344040	EHD1	11
cg10071442	EHMT2;EHM	6
cg24493649	EHMT2;SLC4	6
cg25506915	EIF3G	19
cg17887364	EIF4EBP1	8
cg08822118	EIF4G1;EIF4G	3
cg12691679	ELF1	13
cg01440489	ELF1;ELF1	13
cg02632314	ELF1;ELF1	13
cg16986578	ELF3;ELF3	1
cg02076020	ELF3;ELF3;EL	1
cg07897871	ELF3;ELF3;EL	1
cg26328757	ELF3;ELF3;EL	1
cg01291854	ELK3	12
cg01119452	ELMO1	7
cg08721338	ELMO3	16
cg25729687	ELN;ELN;ELN	7
cg17363943	ELOVL6;ELO	4
cg05731801	EMP2	16
cg14055970	ENG;ENG	9
cg11978634	ENOX1;ENOX	13
cg10332003	ENPP6	4
cg12492900	EP400	12
cg00097800	EPAS1	2
cg10507988	EPAS1	2
cg21211882	EPB41L1;EPB	20
cg23205365	EPB41L5	2
cg15141868	EPDR1	7
cg10835083	EPHA4	2
cg18156963	EPHB2;EPHB	1
cg13694876	EPHB3	3
cg22303758	EPHX2	8
cg25673598	EPN2;EPN2;E	17
cg01970336	EPS15	1
cg03507641	ERC1;ERC1;E	12
cg21578987	ERG;ERG	21
cg18413706	ERG;ERG;ERC	21
cg22709362	ERL3	1

cg02650323	ERLIN2;ERLIN	8
cg06193232	ERN1	17
cg04003327	ESPNL;SCLY	2
cg00944421	ESRP2	16
cg06390643	ETV5	3
cg11655490	ETV6	12
cg03056526	EVX1	7
cg04922154	EVX1	7
cg24892992	EXT1	8
cg18868540	F2	11
cg06856840	FAH	15
cg14273093	FAM101A	12
cg18672389	FAM101A	12
cg14170976	FAM110A;FA	20
cg06547285	FAM113B	12
cg25123566	FAM113B;LO	12
cg11970163	FAM129A	1
cg25182523	FAM129A	1
cg17320378	FAM129C	19
cg13782092	FAM13A;FAM	4
cg01403030	FAM154A	9
cg04860977	FAM155A	13
cg15683970	FAM165B	21
cg06551905	FAM167A	8
cg01245667	FAM169B	15
cg05368724	FAM178B;FA	2
cg26108017	FAM178B;FA	2
cg05557262	FAM180A	7
cg13436110	FAM188B	7
cg05949640	FAM193A	4
cg25790133	FAM193A	4
cg26981170	FAM193A	4
cg05883695	FAM198A	3
cg05006211	FAM19A5	22
cg08859215	FAM20A	17
cg19579080	FAM20A	17
cg05031931	FAM20C	7
cg08728302	FAM20C	7
cg11200568	FAM20C	7
cg19104757	FAM20C	7
cg24286414	FAM20C	7
cg25929664	FAM20C	7
cg27539806	FAM38A	16
cg15648792	FAM38B	18
cg00626702	FAM53A	4
cg19975346	FAM53B	10

cg03935116	FAM60A;FAM	12
cg14741228	FAM60A;FAM	12
cg27050407	FAM65B	6
cg08893087	FAM69A	1
cg10624729	FAM73A	1
cg13487445	FAM78A	9
cg00831735	FAM83A;FAM	8
cg08256536	FAM83A;FAM	8
cg00846121	FAM83E	19
cg20283107	FAM91A1	8
cg13791971	FANCC	9
cg11829616	FARP1	13
cg19832331	FARP1;FARP1	13
cg06450397	FAS;FAS;FAS;	10
cg26478401	FAS;FAS;FAS;	10
cg01880399	FAT1	4
cg08070200	FAT1	4
cg07107113	FBLIM1	1
cg04956944	FBLN7;FBLN7	2
cg06068085	FBN2	5
cg00960772	FBRSL1	12
cg24621258	FBRSL1	12
cg25750363	FBRSL1	12
cg12897164	FBXO32;FBXO	8
cg26829322	FBXO44;FBXO	1
cg10523001	FBXW11;FBX	5
cg23985408	FBXW11;FBX	5
cg07050611	FBXW8;FBXV	12
cg15565057	FCAMR;FCAM	1
cg20806175	FCER1G	1
cg11263420	FCGRT;FCGR1	19
cg26549860	FCHSD2	11
cg09340639	FCRL1;FCRL1	1
cg00160981	FCRLB	1
cg20577477	FDFT1	8
cg16174681	FER	5
cg07682037	FERMT3;FERM	11
cg20684197	FGF1;FGF1;F	5
cg21619138	FGF1;FGF1;F	5
cg02406096	FGF1;FGF1;F	5
cg07620573	FGF12	3
cg03552039	FGFR2;FGFR2	10
cg10280007	FGFR2;FGFR2	10
cg12226006	FGFR2;FGFR2	10
cg13175830	FGFR2;FGFR2	10
cg13734061	FGFR2;FGFR2	10

cg14834653	FGFR2;FGFR2	10
cg20277356	FGFR2;FGFR2	10
cg25294906	FGFR2;FGFR2	10
cg10314760	FGFR2;FGFR2	10
cg10362842	FGFR2;FGFR2	10
cg00730832	FGFR2;FGFR2	10
cg17997363	FGFR2;FGFR2	10
cg21311834	FGFR3;FGFR3	4
cg08521859	FGFRL1;FGFF	4
cg18699025	FGFRL1;FGFF	4
cg16398581	FGGY;FGGY	1
cg19746186	FGGY;FGGY	1
cg23167456	FGR;FGR;FGF	1
cg03055021	FHAD1	1
cg11815980	FHIT;FHIT	3
cg00004700	FHL2;FHL2;FI	2
cg19652483	FILIP1	6
cg19226017	FKBP5;LOC28	6
cg07702311	FLI1;FLI1	11
cg02832512	FLJ22536	6
cg22800743	FLJ22536	6
cg08373323	FLJ32810	11
cg06991974	FLJ42875;FLJ	1
cg07946633	FLJ42875;PRI	1
cg19735250	FMNL1	17
cg20408776	FMNL1	17
cg21617353	FMNL1	17
cg00612751	FMNL2	2
cg06343233	FMNL2	2
cg11173609	FMNL2	2
cg15705810	FMNL2	2
cg21860045	FMNL2	2
cg26207245	FMNL2	2
cg02054252	FMNL3;FMNL	12
cg16034517	FMO1	1
cg12495731	FN3K	17
cg00000109	FNDC3B;FND	3
cg08495617	FNDC3B;FND	3
cg12202228	FNDC3B;FND	3
cg26334671	FNDC3B;FND	3
cg15141195	FOXF2	6
cg00661485	FOXI1;FOXI1	5
cg04261496	FOXK1	7
cg08645670	FOXL1	16
cg26958524	FOXL1	16
cg00584450	FOXL1;FOXL1	16

cg24714561	FOXN3	14
cg14023350	FOXN3;FOXN	14
cg18359596	FOXN3;FOXN	14
cg01838853	FOXN4	12
cg19484481	FOXO3;FOXC	6
cg00201568	FOXP1	3
cg06175008	FOXP1	3
cg15963983	FOXP1	3
cg09611620	FOXP1;FOXP	3
cg17803993	FOXP1;FOXP	3
cg13492245	FPGS;FPGS	9
cg22152605	FPR1	19
cg13426351	FREQ	9
cg06127202	FRK	6
cg11377213	FRMD4B	3
cg05104995	FRMPD2;FRM	10
cg09188385	FSCN1	7
cg13087761	FSCN1	7
cg01512532	FSCN2;FSCN2	17
cg13672638	FSD1L;FSD1L	9
cg19348484	FURIN	15
cg00480115	FXYD3;FXYD3	19
cg08130572	FYN;FYN	6
cg03009240	FZR1	19
cg10311132	GABRB3;GAE	15
cg00563858	GALNT10	5
cg13579752	GALNT10	5
cg15817769	GALNT2	1
cg16698674	GALNT2	1
cg26525772	GALNT2	1
cg05527856	GALNTL4	11
cg15094908	GALNTL4	11
cg08102611	GAS7	17
cg10237765	GAS7;GAS7;C	17
cg18492943	GCK	7
cg02868790	GCLC	6
cg05989312	GCOM1;GCO	15
cg04365123	GDF6	8
cg13002506	GDPD4	11
cg01522592	GDPD5	11
cg16874185	GDPD5	11
cg03383006	GFAP;GFAP	17
cg09639715	GFAP;GFAP	17
cg06845268	GFPT1	2
cg10922232	GGA3;GGA3	17
cg08468689	GHDC;GHDC;	17

cg13053608	GHDC;GHDC;	17
cg24413842	GIMAP7	7
cg07999953	GJB3;GJB3	1
cg01791238	GLI2	2
cg02774705	GLI2	2
cg10120778	GLI3	7
cg15078211	GLI3	7
cg14825413	GLI4	8
cg05040219	GLIS1	1
cg24741609	GLIS1	1
cg27311970	GLIS1	1
cg14325112	GLIS3;GLIS3	9
cg11650648	GLP2R	17
cg16677191	GLRX;GLRX	5
cg26736878	GLT25D1	19
cg18131582	GLT25D2	1
cg25605307	GLT25D2	1
cg03704673	GLTPD2;GLTF	17
cg27642528	GLUD1	10
cg01465824	GMDS	6
cg01708377	GMDS	6
cg27360210	GMFG	19
cg20650545	GMFG;GMFC	19
cg07899459	GMIP	19
cg11967765	GNA12	7
cg25418001	GNAI1	7
cg21971807	GNAS;GNAS;	20
cg10309886	GNASAS	20
cg01919999	GNB2L1	5
cg17168836	GNG12	1
cg08134671	GNG7	19
cg15058852	GNS	12
cg17346500	GOLIM4	3
cg02357751	GP1BB;SEPT5	22
cg03263514	GP1BB;SEPT5	22
cg07359545	GP1BB;SEPT5	22
cg16210718	GP1BB;SEPT5	22
cg16627786	GP1BB;SEPT5	22
cg23787873	GP1BB;SEPT5	22
cg11772527	GPC6	13
cg25679431	GPD1L	3
cg13393408	GPR107;GPR	9
cg01056242	GPR133	12
cg25586410	GPR155;GPR	2
cg23078123	GPR177	1
cg12528056	GPR44	11

cg05875421	GPR68	14
cg18421360	GPR98;GPR9	5
cg14471064	GPSM1	9
cg14040131	GPSM1;GPSM	9
cg14203108	GPSM1;GPSM	9
cg14271150	GPSM1;GPSM	9
cg14489965	GPSM1;GPSM	9
cg05241828	GPT	8
cg07658280	GPT	8
cg09957864	GPT	8
cg15983520	GPT	8
cg25600446	GPT	8
cg11241750	GRAMD3	5
cg26203383	GRAP2	22
cg19374752	GRASP	12
cg18047172	GRB10;GRB1	7
cg14605150	GREM1	15
cg13651876	GRHPR	9
cg24030173	GRIN2D	19
cg00522048	GRK5	10
cg10399824	GRK5	10
cg18001722	GRK5	10
cg23537932	GRK5	10
cg26759179	GRK5	10
cg21032008	GRM7;GRM7	3
cg08305799	GSR	8
cg27343684	GSTA3	6
cg10248878	GSX2	4
cg16335858	GYLTL1B	11
cg06745001	GYS1;GYS1;G	19
cg03875678	GZMB	14
cg16356013	H2AFY;H2AF	5
cg04566694	H6PD	1
cg01045835	HAPLN1	5
cg25325949	HAPLN1	5
cg15371617	HAVCR2;HAV	5
cg17484237	HAVCR2;HAV	5
cg26306638	HBEGF	5
cg04938738	HCCA2	11
cg13376953	HCCA2	11
cg25050723	HCCA2;CTSD	11
cg05615856	HCG27	6
cg13337307	HCRT	17
cg05446471	HDAC11;HDAC	3
cg06568490	HDAC11;HDAC	3
cg03475776	HDAC4	2

cg04869380	HDAC4	2
cg06855182	HDAC4	2
cg15933840	HDAC4	2
cg00332048	HDAC9;HDAC	7
cg23280720	HECA	6
cg01213645	HECW1	7
cg09907068	HECW2	2
cg11029367	HEG1	3
cg10839322	HERC2	15
cg24495350	HEXA	15
cg15567428	HGF;HGF;HG	7
cg01123449	HHIPL1	14
cg10054398	HIVEP3;HIVE	1
cg17892259	HIVEP3;HIVE	1
cg24254842	HIVEP3;HIVE	1
cg00542261	HK1;HK1;HK:	10
cg05595692	HK2	2
cg20520115	HK2	2
cg09869729	HK3	5
cg16742075	HLA-A	6
cg12365667	HLA-DPB1	6
cg09515921	HLX	1
cg18645081	HLX	1
cg14531576	HMCN1;MIR:	1
cg02423080	HMGXB3	5
cg02753354	HMHA1	19
cg09560590	HMHB1	5
cg04225775	HMHB1;HMF	5
cg26983544	HOMER1	5
cg11328436	HOTAIR	12
cg24895871	HOTAIR	12
cg12147489	HOXA11AS	7
cg20994254	HOXA11AS	7
cg07094847	HOXA3;HOXA	7
cg24389585	HOXA5	7
cg05349837	HOXC4	12
cg10366797	HOXC4	12
cg26201952	HOXC4;HOXC	12
cg05987823	HOXC4;HOXC	12
cg21431832	HPS4;HPS4	22
cg11416620	HS6ST1	2
cg15854333	HSD17B8;SLC	6
cg22896793	HSPA12B	20
cg21945949	HSPC159	2
cg00023024	HTR1D	1
cg08273233	HTR1E	6

cg00701951	HTRA1	10
cg02299946	HTRA1	10
cg11157691	HTRA1	10
cg15719652	HTRA1	10
cg23791011	HTRA1	10
cg21121843	HTT	4
cg11173579	HUNK	21
cg15391590	ICK;ICK	6
cg07463059	IFI16;IFI16	1
cg20597486	IFI16;IFI16	1
cg24979161	IFI27L1;IFI27	14
cg17980508	IFI44L	1
cg08173915	IFNGR2	21
cg19724567	IFRD1	7
cg05526364	IFT122;IFT12	3
cg03163545	IFT140;TMEM	16
cg26579713	IGDCC4	15
cg05075416	IGF1R	15
cg06671623	IGF1R	15
cg12402183	IGF1R	15
cg20388729	IGF1R	15
cg26577252	IGF1R	15
cg02425416	IGF2AS;INS-II	11
cg05323345	IGF2AS;INS-II	11
cg05777976	IGF2AS;INS-II	11
cg19131227	IGF2AS;INS-II	11
cg21025494	IGF2BP3	7
cg25754852	IGF2R	6
cg17980404	IGFBP4	17
cg10923036	IGFBP7	4
cg15096505	IL10	1
cg09577367	IL12RB1;IL12	19
cg25580782	IL15RA;IL15R	10
cg27292389	IL15RA;IL15R	10
cg05042034	IL16	15
cg16324121	IL17RE;IL17R	3
cg24394667	IL1RL2	2
cg25065535	IL2	4
cg02656594	IL21R	16
cg05814654	IL21R;IL21R	16
cg23507945	IL22RA2;IL22	6
cg07363330	IL31RA	5
cg05934682	IL4I1;IL4I1	19
cg16649560	IL4R;IL4R	16
cg04312209	IL7R	5
cg05893902	IMPG2	3

cg26122413	INF2;INF2	14
cg23998240	INF2;INF2;IN	14
cg10773526	INPP4B;INPP	4
cg03438101	INPP5A	10
cg12449716	INPP5A	10
cg19649172	INPP5A	10
cg21140843	INPP5K;INPP	17
cg04057455	INS-IGF2;IGF	11
cg02742555	INSC;INSC	11
cg06049367	INSC;INSC	11
cg09779027	INSR;INSR	19
cg08129092	INTS3	1
cg22677858	IPO9	1
cg14255700	IPPK	9
cg18459152	IQGAP2	5
cg24380053	IQSEC1	3
cg24488317	ISM1	20
cg23721083	ITGA11	15
cg02225720	ITGAE	17
cg10753610	ITGB3	17
cg00871980	ITGB5	3
cg26689077	ITGB7	12
cg11838152	ITGBL1	13
cg08972954	ITK	5
cg18994033	ITM2C;ITM2C	2
cg22999830	ITPK1;ITPK1;I	14
cg16636756	ITPRIP	10
cg19640166	ITPRIP	10
cg22888181	ITPRIP	10
cg24199006	ITPRIP	10
cg25552843	ITPRIP	10
cg05139187	ITSN2;ITSN2;	2
cg05796838	JAK3	19
cg06493612	JARID2	6
cg13623749	JARID2	6
cg14009473	JARID2	6
cg22982811	JAZF1	7
cg01675238	JMJD7-PLA2C	15
cg10464130	KALRN;KALRI	3
cg12024811	KALRN;KALRI	3
cg14688451	KALRN;KALRI	3
cg25250013	KANK2;KANK	19
cg20916427	KATNAL2	18
cg04063166	KCNA4	11
cg13377102	KCNAB3	17
cg21017569	KCNAB3	17

cg05591210	KCNE3	11
cg00948250	KCNJ10	1
cg25508319	KCNJ5	11
cg21388745	KCNK5	6
cg07029975	KCNMA1;KCN	10
cg12614113	KCNMA1;KCN	10
cg22646937	KCNMB1;KCN	5
cg13396821	KCNN3;KCNN	1
cg26504422	KCNN4	19
cg07824422	KCNQ1;KCNC	11
cg08376310	KCNQ1;KCNC	11
cg13880539	KCNQ1;KCNC	11
cg16083838	KCNQ1DN	11
cg05203217	KCNS1	20
cg24193140	KCTD16	5
cg09185884	KCTD2	17
cg00268476	KCTD5	16
cg01640635	KDEL3;KDEI	22
cg09175485	KDM2A;KDM	11
cg16062733	KDM2B;KDM	12
cg10821320	KDM4B	19
cg17416338	KDM4B	19
cg24471894	KIAA0020	9
cg03004860	KIAA0182;KI/	16
cg26657404	KIAA0182;KI/	16
cg22455529	KIAA0195	17
cg03358636	KIAA0226	3
cg03505866	KIAA0247	14
cg27498545	KIAA0802	18
cg16328023	KIAA0895;KI/	7
cg17226446	KIAA0922;KI/	4
cg24630957	KIAA1033	12
cg16689761	KIAA1147	7
cg12380772	KIAA1161	9
cg17239876	KIAA1274	10
cg24775327	KIAA1274	10
cg24812143	KIAA1274	10
cg08883078	KIAA1310;KI/	2
cg21282282	KIAA1324	1
cg19603836	KIAA1462	10
cg04892182	KIAA1522	1
cg12478578	KIAA1522	1
cg16007395	KIAA1522	1
cg00731886	KIAA1530	4
cg00395625	KIAA1549;KI/	7
cg09510085	KIAA1609	16

cg00010853	KIAA1949;KI/	6
cg00278359	KIAA1949;KI/	6
cg01413582	KIAA1949;KI/	6
cg03052182	KIAA1949;KI/	6
cg03953626	KIAA1949;KI/	6
cg08420066	KIAA1949;KI/	6
cg08887400	KIAA1949;KI/	6
cg11554650	KIAA1949;KI/	6
cg12036303	KIAA1949;KI/	6
cg12105190	KIAA1949;KI/	6
cg12247101	KIAA1949;KI/	6
cg15768443	KIAA1949;KI/	6
cg18427856	KIAA1949;KI/	6
cg18586886	KIAA1949;KI/	6
cg20690667	KIAA1949;KI/	6
cg24967096	KIAA1949;KI/	6
cg25659902	KIAA1949;KI/	6
cg11802797	KIF1B	1
cg23186534	KIF5A	12
cg00917156	KIFC3;KIFC3;l	16
cg22066894	KIRREL3;KIRF	11
cg05647197	KLF11	2
cg00540067	KLF15	3
cg06724409	KLF6;KLF6;KL	10
cg07116163	KLHL23	2
cg03445244	KLHL29	2
cg17952075	KLHL29	2
cg27297315	KLHL29	2
cg09606470	KLHL6	3
cg20425130	KLHL6	3
cg15241779	KLRD1;KLRD1	12
cg01940139	KLRD1;KLRD1	12
cg21474838	KLRD1;KLRD1	12
cg15368872	KLRK1	12
cg04880751	KMO	1
cg11150901	KMO	1
cg21336116	KRT23;KRT23	17
cg07925587	KRT80;KRT80	12
cg11051139	KRT80;KRT80	12
cg05762338	KRTAP1-5	17
cg23878404	KRTAP1-5	17
cg07168232	LAMB3;LAMI	1
cg12689670	LAMC1	1
cg17418085	LAPTM5	1
cg02639667	LARP1	5
cg03519907	LARP1	5

cg13689073	LARP1	5
cg16645907	LARP1	5
cg23613317	LARP1	5
cg05380759	LARS2	3
cg27053177	LASS6	2
cg18793512	LBH	2
cg10991454	LCLAT1;LCLA	2
cg23469878	LCN6	9
cg09672233	LCP2;LCP2	5
cg08262002	LDB2;LDB2	4
cg15108490	LDLRAD3	11
cg12565679	LECT2	5
cg15466952	LEPR;LEPR;LE	1
cg24387542	LGALS9B	17
cg08824221	LGR4	11
cg23586835	LGR4	11
cg11683364	LGR6;LGR6;L	1
cg16326367	LHFPL2	5
cg26658897	LHFPL2	5
cg04949429	LHPP;LHPP	10
cg17995557	LHPP;LHPP	10
cg18593374	LHPP;LHPP	10
cg26284388	LHPP;LHPP	10
cg14305801	LHX2	9
cg14496753	LHX6;LHX6	9
cg25384595	LILRA1;LILRA	19
cg05365532	LILRB1	19
cg01578293	LIMCH1;LIMC	4
cg23825522	LIMD1	3
cg21869609	LINGO3	19
cg09797463	LIPA;LIPA	10
cg08972916	LLGL2;LLGL2;	17
cg09091185	LMF1	16
cg27182012	LMNA;LMNA	1
cg08586426	LMO2	11
cg04757411	LMO7	13
cg26400954	LMO7	13
cg14325930	LMX1B	9
cg18560915	LNX1	4
cg01624637	LOC1001296	16
cg06908618	LOC1001296	16
cg02694925	LOC1001305	18
cg11372934	LOC1001308	4
cg04859117	LOC1001335	11
cg09248429	LOC1001335	11
cg04517258	LOC1001336	8

cg00526835	LOC1001889	10
cg20874785	LOC1001895	2
cg13356253	LOC1003026	2
cg00735454	LOC121838	13
cg03826194	LOC121838	13
cg27053629	LOC145474	14
cg05429448	LOC152225	3
cg12963656	LOC152225	3
cg15129183	LOC257358	5
cg07580867	LOC283050;L	10
cg17028595	LOC283050;L	10
cg15400629	LOC285548	4
cg24288715	LOC285796	6
cg16415646	LOC285954;L	7
cg02536995	LOC553137	6
cg00842231	LOC55908;D	19
cg04946709	LOC644649	16
cg23590187	LOC646762	7
cg16314851	LOC723809	7
cg09048205	LOC728613	5
cg20414364	LOC728613	5
cg06768079	LOXL2	8
cg00902153	LPP;LPP;LPP	3
cg08326019	LPPR2;LPPR2	19
cg22486630	LPPR2;LPPR2	19
cg02044895	LPXN;LPXN;L	11
cg20294319	LRCH1;LRCH:	13
cg11198596	LRIG1	3
cg26053346	LRIG1	3
cg22459236	LRIG3;LRIG3	12
cg03678566	LRP5	11
cg13738327	LRP5	11
cg16409259	LRP5	11
cg25781963	LRP5	11
cg04483460	LRP8;LRP8;LF	1
cg11950754	LRP8;LRP8;LF	1
cg01239922	LRRC14B	5
cg26692873	LRRC16A	6
cg16875182	LRRC2;TDGF:	3
cg05076755	LRRC32;LRRC	11
cg03153397	LRRC48;LRRC	17
cg09818397	LRRC8B;LRRC	1
cg04550950	LRRC8D;LRRC	1
cg15819128	LRRFIP1;LRRF	2
cg07165120	LRRK1	15
cg12283393	LSP1	11

cg25980489	LTBP2	14
cg27317046	LTBP2	14
cg23272978	LTBP3;LTBP3	11
cg22706992	LVRN	5
cg03928874	LY86	6
cg18865207	LY9;LY9	1
cg13213009	LY96	8
cg08806632	LYL1	19
cg08090164	LYNX1;LYNX1	8
cg11812233	LYPD1;LYPD1	2
cg02357637	LYSMD4	15
cg22367631	MACF1	1
cg26864766	MACF1;MAC	1
cg04683210	MACROD1	11
cg05985070	MAD1L1;MA	7
cg06624731	MAD1L1;MA	7
cg10534659	MAD1L1;MA	7
cg13798585	MAD1L1;MA	7
cg16222367	MAD1L1;MA	7
cg17103856	MAD1L1;MA	7
cg21728101	MAD1L1;MA	7
cg22963979	MAD1L1;MA	7
cg27109748	MAD1L1;MA	7
cg01403010	MAFF;MAFF;	22
cg14649449	MAMDC2	9
cg15521790	MAML2	11
cg03597159	MAML3	4
cg23206160	MAML3	4
cg24661274	MAP1B	5
cg14573876	MAP2K2	19
cg15076869	MAP2K2	19
cg04798016	MAP3K11	11
cg00146864	MAP3K14	17
cg07474842	MAP3K5	6
cg21778987	MAP3K5	6
cg15498306	MARCH1;MA	4
cg14622443	MARCH10	17
cg13963033	MARCH3	5
cg18640536	MARCH3	5
cg18322693	MARCH4	2
cg09034795	MARK2;MAR	11
cg18140824	MASP1;MASI	3
cg17462107	MAST4;MAS	5
cg24531825	MATN1;MAT	1
cg12429065	MB	22
cg06155414	MBNL2;MBN	13

cg16762684	MBP;MBP	18
cg24446429	MBP;MBP	18
cg24853975	MCC	5
cg06062378	MCC;MCC	5
cg08213909	MCC;MCC	5
cg21609154	MCF2L	13
cg11521563	MCF2L;MCF2	13
cg06778183	MCTP1;MCTI	5
cg10371155	MED1	17
cg27657537	MED15;MED	22
cg05689413	MED20	6
cg15412772	MED24;MED	17
cg03301498	MED29	19
cg05554494	MEFV	16
cg26846864	MEFV	16
cg26450275	MEGF10	5
cg06511312	MEGF6	1
cg27450668	MEGF6	1
cg26585007	MERTK	2
cg02490034	MEST	7
cg13831540	MESTIT1;ME	7
cg15224459	METRNL	17
cg12695612	MFAP2;MFAI	1
cg17744878	MFAP2;MFAI	1
cg21304454	MFAP2;MFAI	1
cg03784611	MFI2;MFI2	3
cg16924045	MFSD6	2
cg07086226	MFSD7	4
cg00514575	MGAT1;MGA	5
cg01149192	MGAT1;MGA	5
cg04212021	MGAT1;MGA	5
cg05514299	MGAT5B;MG	17
cg09277376	MGC12982	1
cg10435609	MGC27382	1
cg11842367	MGC27382	1
cg24113496	MGC29506	5
cg16027775	MGLL;MGLL	3
cg08883995	MGMT	10
cg13171643	MGMT	10
cg22575127	MGMT	10
cg25974017	MGMT	10
cg17456675	MIB2;MIB2;M	1
cg03821121	MICAL2	11
cg20330086	MINK1;MINK	17
cg22492271	MIR1200;ELN	7
cg07018107	MIR1208	8

cg00699693	MIR140;WW	16
cg07281938	MIR140;WW	16
cg02515217	MIR21	17
cg15759721	MIR21	17
cg18697991	MIR548A2	3
cg26664528	MIR548H4;N	15
cg23036340	MIR548H4;TI	15
cg20587874	MIR548N	2
cg18156845	MIR744;MAF	17
cg03677952	MLC1;MLC1	22
cg07746514	MLEC	12
cg22501243	MLXIP	12
cg22729539	MLXIP	12
cg03509949	MMP19	12
cg17865265	MMP19	12
cg14589810	MMP28	17
cg00187327	MN1	22
cg21876918	MOBKL2A	19
cg24938761	MOBKL2A	19
cg16600733	MORN1	1
cg18936620	MPL	1
cg20120371	MPP2	17
cg17327331	MPP5	14
cg16527477	MPP7	10
cg14599440	MPPE1	18
cg02543159	MPPED1	22
cg23924737	MRPS23	17
cg04955683	MRPS6	21
cg02556430	MRPS6;SLC5,	21
cg00510149	MRVI1;MRVI	11
cg06746274	MS4A13;MS4	11
cg00673646	MS4A6A;MS4	11
cg22762189	MSGN1	2
cg22149471	MSI2	17
cg07159758	MSI2;MSI2	17
cg13654836	MSI2;MSI2	17
cg16773768	MSRA;MSRA	8
cg00791074	MTHFD1L	6
cg18920088	MTHFD1L	6
cg02285003	MTMR12	5
cg24683185	MTMR15	15
cg07122170	MTOR;ANGP	1
cg19075081	MTSS1L	16
cg05656374	MX2	21
cg15281283	MX2	21
cg25368647	MXD3;MXD3	5

cg04863197	MYADML2	17
cg14606858	MYH16	7
cg12235788	MYLK;MYLK;	3
cg19611163	MYLK;MYLK;	3
cg19007948	MYLK4	6
cg05713044	MYO10	5
cg24702069	MYO16	13
cg12416830	MYO1E	15
cg22132788	MYO1G	7
cg14100211	MYO9A;SENF	15
cg00806505	MYOC	1
cg01410279	MYOC	1
cg04852893	MYOCD;MYC	17
cg17800426	MYOZ3;MYO	5
cg11849327	MYST4	10
cg09716613	N4BP2L1;N4	13
cg00491064	NAV2	11
cg18009574	NAV2;NAV2;	11
cg22701534	NAV2;NAV2;	11
cg02959112	NBL1;NBL1	1
cg09936572	NBPF1	1
cg19865916	NCDN;NCDN	1
cg19758142	NCEH1;NCEH	3
cg01290856	NCKAP5;NCK	2
cg14416623	NCKAP5;NCK	2
cg12131620	NCLN	19
cg27015161	NCOA1;NCO,	2
cg08325898	NCOA2	8
cg10082088	NCOR2;NCOI	12
cg10996589	NCOR2;NCOI	12
cg11197258	NCOR2;NCOI	12
cg19341309	NCOR2;NCOI	12
cg20494738	NCOR2;NCOI	12
cg25954028	NCOR2;NCOI	12
cg27044649	NCOR2;NCOI	12
cg08610982	NCR3;NCR3;	6
cg10859327	NCRNA00093	10
cg02532853	NCRNA00114	21
cg06804705	NCRNA00114	21
cg17611512	NCRNA00175	21
cg08850169	NDUFS2;NDU	1
cg08580187	NECAB2	16
cg00525496	NEDD9;NEDF	6
cg13008174	NEIL2;NEIL2;	8
cg11706790	NEU4;NEU4	2
cg16660312	NEU4;NEU4	2

cg18095041	NEU4;NEU4	2
cg24429037	NEU4;NEU4	2
cg17280514	NEU4;NEU4;	2
cg01691332	NEURL1B	5
cg05109049	NF1;EVI2B;N	17
cg21964564	NFASC;NFAS	1
cg04110750	NFAT5;NFAT	16
cg05718035	NFATC1;NFA	18
cg13731636	NFATC1;NFA	18
cg14715383	NFATC1;NFA	18
cg15517343	NFATC1;NFA	18
cg16536399	NFATC1;NFA	18
cg22532194	NFATC1;NFA	18
cg05264214	NFATC1;NFA	18
cg07342752	NFATC1;NFA	18
cg10357989	NFATC1;NFA	18
cg02506867	NFATC3;NFA	16
cg12510708	NFE2L3	7
cg13649253	NFIX	19
cg15783941	NFIX	19
cg22824635	NFIX	19
cg17048169	NGEF;NGEF	2
cg11087503	NID2	14
cg24575128	NISCH	3
cg01827248	NKD1	16
cg02015823	NKD1	16
cg01040654	NKX2-5;NKX2	5
cg11330740	NKX2-5;NKX2	5
cg07937271	NKX3-2	4
cg09624807	NLRC5	16
cg07121721	NLRP1	17
cg14928510	NLRP7;NLRP	19
cg19071544	NOD1	7
cg26274166	NOSIP	19
cg14494733	NOTCH1	9
cg26779406	NOTCH1	9
cg08828723	NOTCH4	6
cg05797854	NOX3	6
cg26047938	NPAS2	2
cg02094363	NPAS3;NPAS	14
cg13496915	NPAS3;NPAS	14
cg13019512	NPM1;NPM1	5
cg26647771	NPR3	5
cg27236629	NR2F2;NR2F	15
cg05265020	NRN1	6
cg01068601	NRN1L	16

cg27270412	NRP1;NRP1;f	10
cg08623810	NRXN2;NRXN	11
cg21660452	NRXN2;NRXN	11
cg27379887	NSFL1C;NSFL	20
cg10037913	NSMCE1	16
cg02344784	NT5DC3	12
cg12620806	NTF3;NTF3	12
cg07114544	NTN1	17
cg15370309	NTN1	17
cg07508429	NUDCD3	7
cg14705010	NUMA1	11
cg25505880	NXF1;NXF1	11
cg08510234	NXN	17
cg13383734	NXN	17
cg14136893	NXN	17
cg22237425	NXN	17
cg25364619	NXN	17
cg19789466	OAS1;OAS1;(12
cg12560128	OAS2;OAS2;(12
cg27147785	OAS2;OAS2;(12
cg05794117	OBSCN;OBSC	1
cg05521175	OBSL1	2
cg14037346	ODF2	9
cg11097249	ODZ2	5
cg09966895	ODZ4	11
cg03208902	OR1F2P	16
cg27191606	OR8H2	11
cg20886721	OR8U8	11
cg09641663	OSBPL10	3
cg26949612	OSBPL6	2
cg02026204	OSM	22
cg02172492	OSR1	2
cg12619940	OSR1	2
cg26701390	OSR1	2
cg27305303	OTOF	2
cg10465028	OTUB1;OTUE	11
cg04276301	OTX1	2
cg16595607	OTX1	2
cg04793268	OVCH2	11
cg13229961	OVOL1	11
cg20869369	PABPC1L	20
cg00665650	PAIP2;PAIP2	5
cg17263916	PAIP2;PAIP2;	5
cg05259872	PALLD;PALLC	4
cg08947774	PALLD;PALLC	4
cg21204870	PALM2;PALM	9

cg16805189	PANX1	11
cg24101009	PANX1	11
cg03319315	PAOX;PAOX;	10
cg18563886	PAOX;PAOX;	10
cg00744494	PAPLN	14
cg21894762	PAPLN	14
cg10447404	PARD3	10
cg04203587	PARM1	4
cg02346790	PARP15	3
cg20765408	PARP4	13
cg13518121	PARVA	11
cg16634971	PARVA	11
cg04134965	PARVB;PARV	22
cg20737028	PATE3	11
cg09752271	PATE3;PATE3	11
cg11163555	PATZ1;PATZ1	22
cg11194398	PC;PC;PC	11
cg06022884	PCCB	3
cg00160440	PCDH10	4
cg15901722	PCDH24	5
cg14369318	PCDH7	4
cg14205864	PCID2;PCID2	13
cg01966277	PCLO	7
cg14453145	PDCD1	2
cg19316405	PDDC1	11
cg05034374	PDE11A;PDE1	2
cg10706013	PDE9A;PDE9	21
cg03020863	PDGFD;PDGF	11
cg21363050	PDGFRA	4
cg10093934	PDK1	2
cg01463828	PDLIM2;PDLI	8
cg20449614	PDLIM2;PDLI	8
cg14906976	PDXK	21
cg18410110	PDZD2	5
cg02529095	PDZD7	10
cg13019092	PDZK1	1
cg07810156	PDZK1IP1;PD	1
cg12584826	PDZRN3	3
cg13050115	PDZRN3	3
cg13521002	PEBP4	8
cg04397884	PELI2	14
cg25392325	PEMT;PEMT;	17
cg09327610	PER3	1
cg24524895	PEX11A	15
cg03124510	PFKFB3	10
cg05014727	PFKFB3	10

cg08500510	PFKFB3	10
cg08994060	PFKFB3	10
cg26262157	PFKFB3	10
cg04026948	PGCP	8
cg04839673	PGM1	1
cg03891302	PHACTR1	6
cg08482167	PHACTR2;PH	6
cg16220788	PHF21A;PHF	11
cg13613439	PHYHD1;PHY	9
cg24200175	PICALM;PICA	11
cg21723559	PIGT	20
cg07805542	PIK3CD	1
cg17725019	PIK3IP1;PIK3	22
cg04610450	PIK3R2	19
cg11327029	PIP4K2A	10
cg19397801	PIP4K2A	10
cg04965671	PISD	22
cg01768814	PITPNC1;PITF	17
cg13037550	PITPNM2	12
cg03594078	PIWIL2;PIWII	8
cg12858593	PIWIL2;PIWII	8
cg19949931	PKD1;MIR12	16
cg19584660	PKD1;PKD1	16
cg27227497	PKD1;PKD1	16
cg10731848	PKD1L1	7
cg07565018	PKM2;PKM2;	15
cg01243773	PKNOX2	11
cg09270285	PKNOX2	11
cg13168187	PKP4;PKP4	2
cg05048624	PLA2G2D	1
cg18981758	PLA2G6;PLA2	22
cg09920804	PLAT;PLAT	8
cg23120601	PLCB2	15
cg27638309	PLCE1;PLCE1	10
cg18623216	PLCH1;PLCH1	3
cg07598407	PLEC1;PLEC1	8
cg21535931	PLEC1;PLEC1	8
cg04872689	PLEK;PLEK	2
cg10812236	PLEK;PLEK	2
cg07132086	PLEKHA2	8
cg11131599	PLEKHA6	1
cg15306794	PLEKHA7	11
cg22309568	PLEKHF1	19
cg11802553	PLEKHG3	14
cg01767200	PLEKHG4B	5
cg00186909	PLEKHG7	12

cg11524454	PLEKHG7	12
cg05939149	PLEKHH2	2
cg26232945	PLEKHM3	2
cg03631457	PLXDC2	10
cg12723985	PLXDC2	10
cg02736746	PLXNA2	1
cg24161018	PLXNA4	7
cg09837648	PLXNB1;PLXN	3
cg07078269	PLXND1	3
cg16850690	PLXND1	3
cg27353085	PLXND1	3
cg05355067	PMEPA1;PMI	20
cg07908223	PMEPA1;PMI	20
cg00587342	PMM1	22
cg23694811	POGK	1
cg05673882	POLK	5
cg04270402	PON2;PON2	7
cg18397073	POU2F2	19
cg17469359	POU6F2;POL	7
cg21286173	PPAPDC1B	8
cg10952234	PPFIA4;PPFIA	1
cg24000087	PPFIA4;PPFIA	1
cg19769080	PPM1B	2
cg08067969	PPP1R13B	14
cg02265810	PPP2R2D;PPI	10
cg20910008	PPP3CC	8
cg13845634	PPY	17
cg08369079	PRDM1;PRDI	6
cg00328729	PRDM11	11
cg13448468	PRDM11	11
cg00894041	PRDM16;PRC	1
cg01448098	PRDM16;PRC	1
cg04855369	PRDM16;PRC	1
cg05965745	PRDM16;PRC	1
cg06911744	PRDM16;PRC	1
cg09321238	PRDM16;PRC	1
cg11392550	PRDM16;PRC	1
cg11710123	PRDM16;PRC	1
cg15619820	PRDM16;PRC	1
cg17601209	PRDM16;PRC	1
cg19263228	PRDM16;PRC	1
cg20236995	PRDM16;PRC	1
cg22497969	PRDM16;PRC	1
cg22720392	PRDM16;PRC	1
cg25153629	PRDM16;PRC	1
cg26520908	PRDM16;PRC	1

cg03311556	PRDM8	4
cg06440348	PRDM8	4
cg02732915	PRDM8;PRDI	4
cg05522011	PRDM8;PRDI	4
cg19752143	PREPL;PREPL	2
cg09844573	PRIC285;PRIC	20
cg15262954	PRIC285;PRIC	20
cg03190018	PRKAG2;PRK	7
cg17814717	PRKAG2;PRK	7
cg26284782	PRKAG2;PRK	7
cg27577993	PRKAG2;PRK	7
cg09397579	PRKAG2;PRK	7
cg03719152	PRKAR1B;PRI	7
cg06728793	PRKAR1B;PRI	7
cg07689396	PRKAR1B;PRI	7
cg16581738	PRKAR1B;PRI	7
cg10460643	PRKCD;PRKC	3
cg24545602	PRKCE	2
cg15505219	PRKCH	14
cg22128985	PRKCZ;PRKCZ	1
cg01456572	PRM3	16
cg03543319	PROKR1	2
cg20266593	PRRT1	6
cg26647566	PRSS12	4
cg20633213	PRTFDC1	10
cg09894683	PSD3;PSD3	8
cg11706729	PSMB8;PSME	6
cg02567488	PSMB9;PSME	6
cg14914552	PTDSS1	8
cg18369034	PTGDR	14
cg01091117	PTGER4	5
cg04041000	PTH1R	3
cg21578195	PTK6	20
cg25143652	PTK6;PTK6	20
cg20386404	PTPN14	1
cg27234747	PTPN4	2
cg26842815	PTPN6;PTPN	12
cg14468481	PTPRN2;PTPI	7
cg24842334	PTPRN2;PTPI	7
cg13896328	PTPRU;PTPRI	1
cg08216099	PXDN	2
cg23626387	QSOX1;QSOX	1
cg05324989	QTRT1	19
cg09962377	RAB11FIP3	16
cg05000339	RAB11FIP4	17
cg24174232	RAB11FIP4	17

cg17960615	RAB31	18
cg03349407	RAB3GAP2;A	1
cg26881535	RAB3GAP2;A	1
cg03828193	RAB40B	17
cg02747950	RAB8B	15
cg10777887	RAB8B	15
cg15381475	RAC1;RAC1	7
cg08297686	RAD51L1;RAI	14
cg25603108	RAD51L1;RAI	14
cg03461781	RAGE	14
cg19147912	RAI1	17
cg19447962	RAI1	17
cg14083146	RALGAPA2	20
cg14586546	RALGDS	9
cg10846682	RAMP1	2
cg02909097	RAP1GAP2;R	17
cg09981407	RAP1GAP2;R	17
cg13784312	RAPGEF1	9
cg13655250	RAPGEF1;RAI	9
cg22900476	RAPGEF4	2
cg11094248	RARA;RARA;I	17
cg10592478	RARG;RARG	12
cg13937905	RARG;RARG	12
cg14986890	RARRES1;RAI	3
cg05187651	RASA3	13
cg10976218	RASA3	13
cg11288831	RASA3	13
cg11686792	RASA3	13
cg16046375	RASA3	13
cg24002183	RASAL3	19
cg15787807	RASGRP2;RA	11
cg17735563	RASGRP3;RA	2
cg01932734	RASSF1;RASS	3
cg12691994	RASSF5;RASS	1
cg10992219	RB1CC1;RB1C	8
cg08667600	RBMS3;RBM	3
cg22992279	RBPJ;RBPJ;RE	4
cg09829263	RCBTB2	13
cg11093142	RCBTB2	13
cg03907174	RCN3	19
cg10823566	RCSD1	1
cg11937768	REEP3	10
cg02098619	RERE;RERE	1
cg19400316	RERE;RERE	1
cg13400249	RERE;RERE;R	1
cg20316440	RERE;RERE;R	1

cg11184109	RFT1	3
cg00259834	RFTN1	3
cg04381957	RFTN1	3
cg25741259	RFX2;RFX2	19
cg05991009	RFX8	2
cg03462901	RGMA;RGM/	15
cg26905931	RGMA;RGM/	15
cg15611912	RGS10	10
cg13702185	RGS12;RGS1:	4
cg18944752	RGS12;RGS1:	4
cg24028809	RGS17	6
cg11993173	RGS20;RGS2I	8
cg13604445	RGS3;RGS3;R	9
cg05111779	RGS6	14
cg18515872	RGS6	14
cg21899942	RGS6	14
cg20333869	RHEB	7
cg07768107	RHOH	4
cg22107662	RIMBP3	22
cg08591048	RIMBP3C;RIM	22
cg00009196	RIN2	20
cg01288337	RIN3	14
cg15789055	RING1	6
cg12903024	RLBP1	15
cg00452882	RLTPR	16
cg18294707	RNASE2	14
cg24851490	RNASE2	14
cg00502926	RNASE7	14
cg01449715	RNASEH2B;R	13
cg17918184	RNF144A	2
cg06788514	RNF166	16
cg17589449	RNF185;RNF:	22
cg03163812	RNF5P1	8
cg19311055	RNF5P1	8
cg14044388	ROR2	9
cg08099431	RORA	15
cg12742645	RPH3AL	17
cg05181927	RPS24;RPS24	10
cg03849851	RPS6KA2;RPS	6
cg23002590	RPS6KA2;RPS	6
cg16361947	RPSA;RPSA;S	3
cg01911440	RPTOR;RPTO	17
cg02864619	RPTOR;RPTO	17
cg12434898	RPTOR;RPTO	17
cg20462129	RPTOR;RPTO	17
cg24667756	RPTOR;RPTO	17

cg01358966	RRN3P2	16
cg12132508	RRP15	1
cg24249648	RSPH3	6
cg07112562	RSU1;RSU1	10
cg18280126	RTN4RL2	11
cg02767634	RUFY1;RUFY:	5
cg04194479	RUNDC2C	16
cg08254842	RUNDC2C	16
cg08443845	RUNX1	21
cg15091747	RUNX1	21
cg19836199	RUNX1	21
cg01519261	RUNX1;RUN)	21
cg04915566	RUNX1;RUN)	21
cg13030790	RUNX1;RUN)	21
cg04554131	RUNX3	1
cg02127980	RXRA	9
cg04875697	RXRA	9
cg13425135	RXRA	9
cg14236758	RXRA	9
cg14344989	RXRA	9
cg11284973	RXRB	6
cg03181524	RYR1;RYR1	19
cg14467840	S100A13;S10	1
cg10963218	S100A13;S10	1
cg15559456	S100A13;S10	1
cg20847746	S100A13;S10	1
cg01411912	S100A4;S100	1
cg13091627	S100A4;S100	1
cg21217846	S100A5	1
cg03514239	S100A9	1
cg11064537	S100B	21
cg04353438	SAFB2	19
cg10888242	SAMD4A;SAM	14
cg08986767	SAMD9;SAM	7
cg04554576	SATB2	2
cg06876053	SBF2	11
cg13075279	SCARB1;SCAI	12
cg22775642	SCARB1;SCAI	12
cg09268718	SCARF1;SCAF	17
cg24708308	SCARNA11;C	12
cg02237755	SCD	10
cg16744911	SCD	10
cg12510724	SCNN1A;SCN	12
cg23245485	SCNN1A;SCN	12
cg26736232	SCT	11
cg12190613	SDC2	8

cg16962683	SDC2	8
cg06968788	SDC4P	22
cg00295780	SDCCAG8	1
cg08262429	SDCCAG8	1
cg08102516	SDK1	7
cg16250868	SDK1	7
cg00711291	SDK2	17
cg04004830	SDPR	2
cg05149586	SDSL	12
cg15046304	SEC14L1;SEC	17
cg20337028	SEC14L1;SEC	17
cg16640599	SEC24D	4
cg25165932	SELPLG	12
cg13474090	SEMA4D;SEN	9
cg01477253	SEMA4F	2
cg17679604	SEMA6A	5
cg27157619	SEMA7A;SEN	15
cg05474605	SEPP1;SEPP1	5
cg00934987	SEPT4;SEPT4	17
cg03432618	SEPT5	22
cg12194864	SEPT9;SEPT9	17
cg06791979	SEPT9;SEPT9	17
cg12673019	SERGEF	11
cg18939081	SERINC2	1
cg01417313	SERTAD4	1
cg24180006	SETD3;SETD3	14
cg10663078	SFRP2	4
cg04582295	SGCA;SGCA	17
cg04905719	SGK1	6
cg09404376	SGK1;SGK1	6
cg02904344	SGK1;SGK1;S	6
cg13799263	SGMS1	10
cg10362613	SH2D4A	8
cg18403548	SH3BP2;SH3I	4
cg01854776	SH3BP4	2
cg09042791	SH3BP4	2
cg12559925	SH3BP4	2
cg24203758	SH3D20	17
cg06888746	SH3PXD2A	10
cg03868944	SH3PXD2B	5
cg16572224	SH3PXD2B	5
cg18135683	SH3PXD2B	5
cg19027424	SH3PXD2B	5
cg25693317	SH3PXD2B	5
cg16635948	SH3RF3	2
cg19024599	SH3RF3	2

cg07248017	SH3TC1	4
cg09548638	SH3TC2	5
cg16312514	SHANK2	11
cg26645082	SHANK2	11
cg00954833	SHFM1	7
cg12639933	SHMT2;SHM	12
cg04461123	SHROOM3	4
cg00365692	SIGLECP3	19
cg21982437	SIGLECP3	19
cg00698204	SIM2;SIM2	21
cg01090834	SIM2;SIM2	21
cg02553516	SIM2;SIM2	21
cg02701080	SIM2;SIM2	21
cg07615087	SIM2;SIM2	21
cg10456990	SIM2;SIM2	21
cg10538440	SIM2;SIM2	21
cg15750546	SIM2;SIM2	21
cg19498960	SIM2;SIM2	21
cg22289831	SIM2;SIM2	21
cg22711869	SIM2;SIM2	21
cg27248980	SIM2;SIM2	21
cg11803771	SIPA1;SIPA1	11
cg04466898	SIPA1;SIPA1;	11
cg15537788	SIPA1L3	19
cg04400145	SIRPA	20
cg02360367	SKI	1
cg04619852	SKI	1
cg05948763	SKI	1
cg12473697	SKI	1
cg17854510	SKI	1
cg24377150	SKI	1
cg13015485	SKIV2L	6
cg04275881	SLAMF8	1
cg06764092	SLAMF8;SLAI	1
cg07625783	SLAMF8;SLAI	1
cg21301505	SLAMF8;SLAI	1
cg19123916	SLC10A4	4
cg18464823	SLC12A6;SLC	15
cg19363889	SLC14A1;SLC	18
cg18130079	SLC16A1;SLC	1
cg11742202	SLC17A5	6
cg15520443	SLC18A2	10
cg08258650	SLC1A2	11
cg01823958	SLC1A7	1
cg13434757	SLC22A1;SLC	6
cg06048910	SLC22A18;SL	11

cg18458509	SLC22A18AS;	11
cg02081198	SLC22A18AS;	11
cg07291601	SLC22A18AS;	11
cg10943932	SLC22A18AS;	11
cg24041239	SLC22A18AS;	11
cg25548316	SLC22A18AS;	11
cg05200313	SLC24A4;SLC	14
cg11107966	SLC24A4;SLC	14
cg19811934	SLC24A4;SLC	14
cg23558213	SLC25A17	22
cg16713727	SLC25A34	1
cg07659624	SLC25A37	8
cg25561754	SLC26A11;SL	17
cg17217665	SLC29A1;SLC	6
cg07826642	SLC29A1;SLC	6
cg02354828	SLC29A3	10
cg05345039	SLC2A1	1
cg25602242	SLC2A5	1
cg02339793	SLC38A10;SL	17
cg07656922	SLC38A10;SL	17
cg21461745	SLC39A11;SL	17
cg25059165	SLC39A7;HSE	6
cg04204452	SLC43A2	17
cg10586672	SLC6A6;SLC6	3
cg15155209	SLC6A6;SLC6	3
cg13763232	SLC6A6;SLC6	3
cg15454698	SLC6A6;SLC6	3
cg03158310	SLC9A3R2;SL	16
cg13408795	SLC9A9	3
cg02107844	SLCO3A1;SLC	15
cg22260869	SLCO3A1;SLC	15
cg12043732	SLCO4A1	20
cg05906024	SLIT3	5
cg13008977	SLIT3	5
cg17229698	SLIT3	5
cg21953891	SLIT3	5
cg25984601	SLIT3	5
cg12966875	SLPI	20
cg25594736	SMAD3	15
cg00350432	SMAD6;SMA	15
cg19430553	SMAD7	18
cg10017293	SMAGP;DAZ1	12
cg08151828	SMARCA4;SN	19
cg02596233	SMARCD3;SN	7
cg26061357	SMARCD3;SN	7
cg14636077	SMCR5;RAI1	17

cg02858512	SMG6;SMG6	17
cg07058377	SMG6;SMG6	17
cg23403980	SMG6;SMG6	17
cg02662873	SMOC2;SMO	6
cg04967737	SMOC2;SMO	6
cg07979566	SMOC2;SMO	6
cg08112248	SMOC2;SMO	6
cg09499136	SMOC2;SMO	6
cg10041417	SMOC2;SMO	6
cg17802216	SMOC2;SMO	6
cg21755672	SMOC2;SMO	6
cg22771904	SMOC2;SMO	6
cg25599473	SMOC2;SMO	6
cg26505935	SMOC2;SMO	6
cg00532477	SMPD4;SMPI	2
cg02415020	SMYD3;SMYI	1
cg12461735	SMYD3;SMYI	1
cg22024479	SMYD3;SMYI	1
cg25025181	SMYD3;SMYI	1
cg18592195	SNAP47	1
cg20643991	SNCAIP	5
cg22635676	SNED1	2
cg25241559	SNED1	2
cg15075241	SNORA80B;C	2
cg14556808	SNX19	11
cg22208536	SNX25	4
cg03512808	SNX29	16
cg20286094	SNX7;SNX7	1
cg14489081	SNX9	6
cg00429523	SOBP	6
cg13096007	SOD3	4
cg25449950	SOD3;SOD3	4
cg16622520	SORBS1;SOR	10
cg02370232	SORBS1;SOR	10
cg12197399	SORBS2	4
cg26583078	SORBS2;SOR	4
cg00387964	SORCS2	4
cg05075579	SORL1	11
cg10107783	SORL1	11
cg06205574	SOX5;SOX5	12
cg08992854	SOX8	16
cg11606261	SP1;SP1	12
cg25095994	SP140L	2
cg05730975	SPAG16	2
cg06571753	SPARC	5
cg25104266	SPATA13;SPA	13

cg27460824	SPATA13;SPA	13
cg14669524	SPATS1	6
cg14774117	SPATS1	6
cg00556627	SPATS2L;SPA	2
cg02882004	SPATS2L;SPA	2
cg14106933	SPATS2L;SPA	2
cg01727145	SPEG	2
cg03394909	SPEG	2
cg25008858	SPEG	2
cg23101680	SPERT	13
cg00084432	SPG20	13
cg05635923	SPG20	13
cg09410612	SPG20	13
cg15754752	SPG20	13
cg21056788	SPG20	13
cg21484515	SPG20	13
cg01539849	SPI1;SPI1	11
cg00401471	SPINT2;SPIN	19
cg23083984	SPN;SPN	16
cg26691434	SPN;SPN	16
cg01571977	SPPL2B;SPPL	19
cg22854448	SPRED2	2
cg08651590	SPRED2;SPRE	2
cg00891995	SPRR2C	1
cg04778236	SPSB1	1
cg23632432	SPSB1	1
cg11622008	SPSB4	3
cg01626885	SQRDL	15
cg02531794	SRCRB4D;ZP	7
cg16928487	SREBF1;SREB	17
cg27407935	SREBF1;SREB	17
cg01668352	SRGAP1	12
cg04938109	SRGAP1	12
cg11014073	SRGAP1	12
cg17354987	SRGAP1	12
cg05811567	SRGAP2;SRG	1
cg27395226	SRPK2	7
cg05905586	SSBP2	5
cg06988422	SSBP3;SSBP3	1
cg19963589	SSBP3;SSBP3	1
cg24878115	SSBP4;SSBP4	19
cg14338936	SSH2	17
cg06422039	SSTR5;LOC14	16
cg09586924	ST14	11
cg22110158	ST14	11
cg03965649	ST3GAL1;ST3	8

cg07168526	ST7;ST7	7
cg25784872	STAG1	3
cg24112733	STARD3NL	7
cg01146501	STARD4	5
cg12312086	STARD9	15
cg14951497	STAT1;STAT1	2
cg20173260	STAT1;STAT1	2
cg24718015	STAT3;STAT3	17
cg16777510	STAT5A	17
cg25440680	STBD1	4
cg07109745	STIM1	11
cg14143752	STIM1	11
cg03534504	STK10	5
cg16311462	STK10	5
cg26006084	STK10	5
cg14462124	STK17B	2
cg05828520	STK19;DOM3	6
cg16711597	STK24	13
cg16924565	STK24;STK24	13
cg18518262	STK32C	10
cg13431028	STK39	2
cg06631999	STMN1	1
cg21169762	STON2	14
cg01712428	STX1A;STX1A	7
cg10260044	SULF1;SULF1	8
cg25426867	SVIL;MIR938	10
cg05814312	SVIL;SVIL	10
cg03108697	SWAP70	11
cg08010619	SWAP70	11
cg03310376	SYN2	3
cg15173428	SYN3;SYN3;S	22
cg20476019	SYN3;SYN3;S	22
cg05342835	SYNC;SYNC	1
cg19987354	SYNE2;SYNE2	14
cg03467087	SYNJ2	6
cg12002139	SYNJ2	6
cg01228193	SYNPO	5
cg05714559	SYNPO;SYNP	5
cg26444282	SYNPO;SYNP	5
cg20515580	SYT12	11
cg21544658	SYT8	11
cg03003434	SYTL3	6
cg11065271	SYTL3	6
cg12691330	SYTL3	6
cg00370106	SYTL3;SYTL3	6
cg15299510	TACC1	8

cg11535638	TACC2;TACC:	10
cg11888747	TADA3	3
cg10666909	TAP1	6
cg13165140	TAP1;PSMB8	6
cg24131538	TAPBPL	12
cg15437231	TBC1D15;TBC	12
cg09780394	TBC1D16	17
cg13466546	TBC1D16	17
cg16461139	TBC1D16	17
cg17295878	TBC1D16	17
cg19004465	TBC1D16	17
cg23651872	TBC1D16	17
cg07397612	TBC1D22A	22
cg00472758	TBC1D24	16
cg01771850	TBCD	17
cg03535099	TBCD	17
cg19016694	TBCD	17
cg09771226	TBKBP1	17
cg04254487	TBPL1	6
cg01913455	TBX2	17
cg03753391	TBX2	17
cg10308654	TBX2	17
cg11631427	TBX2	17
cg27027242	TBX2	17
cg06462921	TBXAS1;TBX/	7
cg23759823	TBXAS1;TBX/	7
cg04794141	TC2N	14
cg01062443	TCF3;TCF3	19
cg03683087	TCF7L2;TCF7	10
cg05402891	TCL1B;TCL1B	14
cg09861057	TDRD10;TDR	1
cg15722533	TEAD1	11
cg25878366	TEAD1	11
cg01093854	TET1	10
cg14962509	TFAP2E	1
cg15339605	TFEC;TFEC;TF	7
cg18335233	TG	8
cg08911152	TG;SLA;SLA	8
cg11155356	TG;SLA;SLA;S	8
cg03630790	TGFBR2;TGFI	3
cg06270049	TGFBR2;TGFI	3
cg09417692	TGFBR2;TGFI	3
cg00857921	TGFBR3	1
cg02061431	TGFBR3	1
cg23105419	THADA;THAC	2
cg00836101	THBS1	15

cg18234606	THBS1	15
cg01190276	THRB;THRB;1	3
cg13726166	TIAF1;MYO1:	17
cg17730176	TIAF1;MYO1:	17
cg04397137	TIMP2	17
cg15106744	TIPARP	3
cg02934719	TK2	16
cg14199629	TLE1	9
cg06800962	TM4SF1	3
cg13314965	TM4SF19	3
cg21090033	TM4SF19	3
cg11568379	TM4SF4	3
cg02641539	TM7SF4	8
cg03190661	TMC8;TMC6	17
cg22355895	TMED5;TMEI	1
cg02768480	TMEM100	17
cg06406157	TMEM132A;'	11
cg07522970	TMEM140	7
cg08016257	TMEM140	7
cg27641628	TMEM140	7
cg06456031	TMEM140;TI	7
cg07972322	TMEM140;TI	7
cg15139596	TMEM149	19
cg16927606	TMEM149;TI	19
cg16911583	TMEM149;U.	19
cg18172186	TMEM200A;'	6
cg03890628	TMEM201	1
cg06776976	TMEM206	1
cg00175735	TMEM30C;TI	3
cg07258715	TMEM40	3
cg01409343	TMEM49	17
cg02782634	TMEM49	17
cg19897979	TMEM50A	1
cg07192718	TMEM61	1
cg18973101	TMEM79;SM	1
cg17977470	TMEM88	17
cg01263574	TMEM8C	9
cg13736811	TMEM91	19
cg27144670	TMOD3	15
cg05183271	TMPRSS5	11
cg15844374	TMPRSS5	11
cg25460340	TMPRSS5	11
cg06733903	TMTC1	12
cg18927181	TMTC1	12
cg03191794	TMTC2	12
cg03037030	TNF	6

cg10501093	TNFAIP2	14
cg07086380	TNFAIP8;TNF	5
cg02134720	TNFRSF11B	8
cg11665613	TNFRSF1B	1
cg26691200	TNFRSF8	1
cg18152455	TNFRSF8;TNF	1
cg20820107	TNFRSF8;TNF	1
cg14153654	TNFRSF9	1
cg17267493	TNFSF12;TNF	17
cg10861599	TNFSF4	1
cg21439763	TNFSF4;TNFS	1
cg25737411	TNK1	17
cg18314765	TNP1	2
cg19384546	TNP1	2
cg20310485	TNP1	2
cg05687083	TNRC18	7
cg06947694	TNRC18	7
cg20025824	TNRC18	7
cg02481714	TNRC6B	22
cg12338137	TNS1	2
cg12731010	TNS1	2
cg03958512	TNS3	7
cg12292947	TNS3	7
cg14410503	TNS3	7
cg27275374	TNS3	7
cg01337207	TNXB	6
cg01992382	TNXB	6
cg02151997	TNXB	6
cg04757901	TNXB	6
cg08660959	TNXB	6
cg10365886	TNXB	6
cg10923662	TNXB	6
cg12694372	TNXB	6
cg14188106	TNXB	6
cg14196170	TNXB	6
cg14924781	TNXB	6
cg15745284	TNXB	6
cg16834823	TNXB	6
cg20407792	TNXB	6
cg23186098	TNXB	6
cg03466237	TOLLIP	11
cg05311626	TOLLIP	11
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cg26779330	TOLLIP	11
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cg07730183	TSC2;TSC2;T!	16
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