

**Supplementary Table 4**

**Detail of somatic SNV detected in each case by whole genome sequencing.**

Patient	CHRO	POS	ID	REF	ALT	QU	FILTER	Gene	Transcript	Gen	Ge	Exonic	Func
ACa01	1	135040	rs6264213	T	C	.	PASS	LINC0111	ncR	NR_111111	.	.	.
ACa01	1	137263	rs8798212	A	G	.	PASS	LINC0111	ncR	NR_111111	.	.	.
ACa01	1	934378	.	C	T	.	PASS	HES4	UTR	NM_001111	.	.	.
ACa01	1	8126760	rs2011489	C	T	.	PASS	.	intra	NM_dis	.	.	.
ACa01	1	11589972	rs7706792	G	A	.	PASS	PTCHD1	exon	NM_001111	.	.	missense
ACa01	1	11856167	.	C	T	.	PASS	MTHFR	intra	NM_001111	.	.	.
ACa01	1	13036141	rs7573447	A	G	.	PASS	PRAME	intra	NM_001111	.	.	.
ACa01	1	16891786	.	G	T	.	PASS	NBPF1	intra	NM_001111	.	.	.
ACa01	1	16911827	rs643011	C	G	.	PASS	NBPF1	intra	NM_001111	.	.	.
ACa01	1	17007664	rs1891369	T	C	.	PASS	.	ups	NR_111111	.	.	.
ACa01	1	19071199	rs7967920	G	A	.	PASS	PAX7	intra	NM_001111	.	.	.
ACa01	1	28930226	.	A	C	.	PASS	TAF12	intra	NM_001111	.	.	.
ACa01	1	38433845	rs3699237	G	A	.	PASS	SF3A3	intra	NM_001111	.	.	.
ACa01	1	56673667	.	G	A	.	PASS	.	intra	NR_dis	.	.	.
ACa01	1	60381458	.	A	C	.	PASS	CYP2J2	intra	NM_001111	.	.	.
ACa01	1	1.12E+08	.	G	A	.	PASS	CEPT1	intra	NM_001111	.	.	.
ACa01	1	1.21E+08	.	A	T	.	PASS	.	intra	NR_dis	.	.	.
ACa01	1	1.43E+08	rs1809861	G	A	.	PASS	.	intra	NON_dis	.	.	.
ACa01	1	1.43E+08	rs3742168	A	C	.	PASS	.	intra	NR_dis	.	.	.
ACa01	1	1.43E+08	rs1409433	T	C	.	PASS	.	intra	NR_dis	.	.	.
ACa01	1	1.43E+08	rs7967822	G	A	.	PASS	.	ncR	NR_111111	.	.	.
ACa01	1	1.43E+08	rs7763460	C	G	.	PASS	.	ncR	NR_111111	.	.	.
ACa01	1	1.43E+08	.	A	T	.	PASS	.	intra	NR_dis	.	.	.
ACa01	1	1.43E+08	rs1694653	C	G	.	PASS	.	intra	NR_dis	.	.	.
ACa01	1	1.45E+08	rs1129555	G	A	.	PASS	NBPF8	intra	NM_001111	.	.	.
ACa01	1	1.45E+08	rs3732644	C	T	.	PASS	NBPF8	intra	NM_001111	.	.	.
ACa01	1	1.45E+08	.	T	C	.	PASS	PDE4D	exon	NM_001111	.	.	missense
ACa01	1	1.45E+08	rs2691756	T	C	.	PASS	NBPF9	intra	NM_001111	.	.	.
ACa01	1	1.45E+08	.	A	G	.	PASS	NBPF2	ncR	NR_111111	.	.	.
ACa01	1	1.45E+08	.	G	T	.	PASS	NBPF2	ncR	NR_111111	.	.	.
ACa01	1	1.46E+08	.	G	A	.	PASS	NBPF2	ncR	NR_111111	.	.	.
ACa01	1	1.47E+08	rs1932337	C	T	.	PASS	.	intra	NR_dis	.	.	.
ACa01	1	1.48E+08	.	C	G	.	PASS	NBPF8	intra	NM_001111	.	.	.
ACa01	1	1.48E+08	rs2837929	G	A	.	PASS	NBPF8	intra	NM_001111	.	.	.
ACa01	1	1.49E+08	rs2983273	A	C	.	PASS	.	intra	NR_dis	.	.	.
ACa01	1	1.53E+08	rs3740307	C	T	.	PASS	PGLYR1	exon	NM_001111	.	.	synonym
ACa01	1	1.62E+08	rs1674785	C	T	.	PASS	.	UTR	NM_001111	.	.	.
ACa01	1	1.62E+08	rs1485348	T	G	.	PASS	FCGR2	exon	NM_001111	.	.	missense
ACa01	1	1.67E+08	rs7598068	G	A	.	PASS	POU2F1	exon	NM_001111	.	.	missense
ACa01	1	2.1E+08	.	G	T	.	PASS	DIEXF	intra	NM_001111	.	.	.
ACa01	1	2.26E+08	.	A	C	.	PASS	LBR	intra	NM_001111	.	.	.
ACa01	1	2.38E+08	.	A	C	.	PASS	LOC100	ncR	NR_111111	.	.	.
ACa01	1	2.43E+08	rs2006447	A	G	.	PASS	CEP170	exon	NM_001111	.	.	synonym
ACa01	1	2.49E+08	rs3739868	A	G	.	PASS	.	ups	NM_001111	.	.	.
ACa01	1	2.49E+08	rs1782199	G	T	.	PASS	.	ups	NM_001111	.	.	.
ACa01	2	83738306	rs3461159	C	A	.	PASS	.	intra	NR_dis	.	.	.
ACa01	2	91744332	rs8689209	G	A	.	PASS	.	intra	NON_dis	.	.	.
ACa01	2	91837965	.	C	T	.	PASS	LOC654	ncR	NR_111111	.	.	.
ACa01	2	1.03E+08	.	A	G	.	PASS	IL1R1	exon	NM_001111	.	.	missense
ACa01	2	1.14E+08	rs3877497	T	G	.	PASS	FAM13C	ncR	NR_111111	.	.	.

ACa01	2	1.25E+08	rs1037863	A	G	.	PASS	CNTNA1	intrc	NM_	.	.
ACa01	2	1.31E+08	rs1839843	T	C	.	PASS	POTEF	exo	NM_	.	synonyr
ACa01	2	1.31E+08	.	C	A	.	PASS	POTEF	exo	NM_	.	missens
ACa01	2	1.35E+08	.	C	T	.	PASS	MGAT5	intrc	NM_	.	.
ACa01	2	1.45E+08	.	A	T	.	PASS	ZEB2	exo	NM_	.	missens
ACa01	2	1.74E+08	.	T	G	.	PASS	CDCA7	intrc	NM_	.	.
ACa01	2	1.99E+08	.	C	T	.	PASS	MARS2	exo	NM_	.	missens
ACa01	2	2.09E+08	.	T	G	.	PASS	PLEKH1	exo	NM_	.	missens
ACa01	2	2.09E+08	rs7812258	C	T	.	PASS	PTH2R	intrc	NM_	.	.
ACa01	2	2.2E+08	rs1010785	C	T	.	PASS	DNAJB2	intrc	NM_	.	.
ACa01	2	2.34E+08	rs7526847	A	C	.	PASS	.	inte	NM_	dis	.
ACa01	3	15070036	.	T	G	.	PASS	NR2C2	intrc	NM_	.	.
ACa01	3	15275297	.	T	G	.	PASS	CAPN7	intrc	NM_	.	.
ACa01	3	20153132	.	C	G	.	PASS	KAT2B	exo	NM_	.	missens
ACa01	3	38050749	.	G	A	.	PASS	PLCD1	intrc	NM_	.	.
ACa01	3	38753882	rs1450320	C	T	.	PASS	SCN10A	exo	NM_	.	missens
ACa01	3	38770232	rs1398610	C	T	.	PASS	SCN10A	exo	NM_	.	missens
ACa01	3	73673407	.	G	A	.	PASS	PDZRN1	exo	NM_	.	synonyr
ACa01	3	97868559	rs1126455	G	T	.	PASS	OR5H1A	exo	NM_	.	synonyr
ACa01	3	1.02E+08	.	C	G	.	PASS	NFKBIZ	intrc	NM_	.	.
ACa01	3	1.02E+08	rs7541975	C	T	.	PASS	NFKBIZ	intrc	NM_	.	.
ACa01	3	1.08E+08	rs3757741	G	A	.	PASS	IFT57	exo	NM_	.	missens
ACa01	3	1.92E+08	.	C	T	.	PASS	.	inte	NR_	dis	.
ACa01	3	1.95E+08	rs6228513	T	C	.	PASS	.	inte	NM_	dis	.
ACa01	3	1.95E+08	.	C	T	.	PASS	.	inte	NM_	dis	.
ACa01	4	49846	rs4970287	C	T	.	PASS	.	inte	NOI	dis	.
ACa01	4	84398700	.	T	G	.	PASS	FAM175B	intrc	NM_	.	.
ACa01	4	1.21E+08	rs3764069	C	T	.	PASS	.	inte	NR_	dis	.
ACa01	4	1.33E+08	rs7963572	G	A	.	PASS	.	inte	NR_	dis	.
ACa01	4	1.45E+08	rs9542709	C	T	.	PASS	FREM3	exo	NM_	.	missens
ACa01	4	1.59E+08	rs3721454	C	T	.	PASS	FAM19E	intrc	NM_	.	.
ACa01	4	1.89E+08	.	C	T	.	PASS	TRIML1	exo	NM_	.	synonyr
ACa01	5	840233	rs649883	T	C	.	PASS	ZDHHC1	intrc	NM_	.	.
ACa01	5	1593082	rs1467072	G	A	.	PASS	SDHAP1	ncR	NR_	.	.
ACa01	5	21196870	.	C	A	.	PASS	.	inte	NM_	dis	.
ACa01	5	21492197	rs1500138	A	G	.	PASS	GUSBP	ncR	NR_	.	.
ACa01	5	37299166	.	T	G	.	PASS	NUP155	intrc	NM_	.	.
ACa01	5	65028907	rs7962294	T	C	.	PASS	NLN	intrc	NM_	.	.
ACa01	5	69784758	.	C	G	.	PASS	LOC441	ncR	NR_	.	.
ACa01	5	1.02E+08	.	A	G	.	PASS	PIIP5K	intrc	NM_	.	.
ACa01	5	1.11E+08	rs7609290	C	T	.	PASS	CAMK4	exo	NM_	.	synonyr
ACa01	5	1.34E+08	.	C	T	.	PASS	PPP2C7	intrc	NM_	.	.
ACa01	5	1.41E+08	rs7647428	C	T	.	PASS	PCDHG	exo	NM_	.	missens
ACa01	5	1.76E+08	rs1407436	A	C	.	PASS	.	inte	NR_	dis	.
ACa01	5	1.81E+08	rs7380674	G	C	.	PASS	.	inte	NR_	dis	.
ACa01	6	7517870	rs5568001	G	A	.	PASS	.	inte	NM_	dis	.
ACa01	6	52656696	rs3977792	T	G	.	PASS	GSTA1	exo	NM_	.	missens
ACa01	6	57841232	.	T	C	.	PASS	.	inte	NM_	dis	.
ACa01	6	79724810	.	A	G	.	PASS	PHIP	exo	NM_	.	missens
ACa01	6	80663139	rs9844362	C	T	.	PASS	.	inte	NM_	dis	.
ACa01	6	1.01E+08	.	T	A	.	PASS	.	inte	NM_	dis	.
ACa01	6	1.08E+08	rs9992807	T	C	.	PASS	PDSS2	intrc	NM_	.	.
ACa01	6	1.09E+08	.	C	T	.	PASS	ARMC2	exo	NM_	.	missens
ACa01	6	1.34E+08	rs7554849	G	A	.	PASS	SLC2A1	exo	NM_	.	synonyr

ACa01	6	1.45E+08	.	G	A	.	PASS	UTRN	intrc	NM_	.	.
ACa01	6	1.47E+08	rs7747387	C	T	.	PASS	ADGB	exo	NM_	.	synonyr
ACa01	6	1.5E+08	rs1467177	C	T	.	PASS	RAET1L	intrc	NM_	.	.
ACa01	7	2418057	.	G	T	.	PASS	EIF3B	intrc	NM_	.	.
ACa01	7	17904468	rs7308136	G	C	.	PASS	SNX13	intrc	NM_	.	.
ACa01	7	44149192	.	G	A	.	PASS	AEBP1	intrc	NM_	.	.
ACa01	7	56439839	.	C	T	.	PASS	.	inte	NM_ dis	.	.
ACa01	7	56891402	rs7911953	C	T	.	PASS	.	inte	NR_ dis	.	.
ACa01	7	56891487	.	G	C	.	PASS	.	inte	NR_ dis	.	.
ACa01	7	57008817	.	C	T	.	PASS	.	inte	NR_ dis	.	.
ACa01	7	57529608	.	A	C	.	PASS	ZNF716	exo	NM_	.	missens
ACa01	7	61970351	rs4311554	G	T	.	PASS	.	inte	NOI dis	.	.
ACa01	7	63019476	.	G	T	.	PASS	.	inte	NR_ dis	.	.
ACa01	7	63096227	.	G	A	.	PASS	.	inte	NR_ dis	.	.
ACa01	7	63210059	rs5467260	G	A	.	PASS	.	inte	NR_ dis	.	.
ACa01	7	63210067	.	C	G	.	PASS	.	inte	NR_ dis	.	.
ACa01	7	63213633	rs8688020	G	A	.	PASS	.	inte	NR_ dis	.	.
ACa01	7	74237397	rs8799757	G	T	.	PASS	GTF2IR	intrc	NM_	.	.
ACa01	7	92845041	rs7686126	G	A	.	PASS	HEPAC	intrc	NM_	.	.
ACa01	7	1.02E+08	rs3727203	G	C	.	PASS	POLR2	intrc	NM_	.	.
ACa01	7	1.25E+08	rs7809364	G	A	.	PASS	POT1	exo	NM_	.	missens
ACa01	7	1.3E+08	.	G	A	.	PASS	SSMEM	exo	NM_	.	synonyr
ACa01	7	1.52E+08	rs7754267	A	G	.	PASS	KMT2C	exo	NM_	.	synonyr
ACa01	7	1.52E+08	rs1499922	C	T	.	PASS	KMT2C	exo	NM_	.	missens
ACa01	7	1.52E+08	.	C	T	.	PASS	KMT2C	UTF	NM_ NM_	.	.
ACa01	7	1.59E+08	rs1407758	C	T	.	PASS	.	inte	NM_ dis	.	.
ACa01	7	1.59E+08	rs1482637	T	C	.	PASS	.	inte	NM_ dis	.	.
ACa01	8	7877648	.	C	A	.	PASS	.	inte	NR_ dis	.	.
ACa01	8	17570524	.	A	G	.	PASS	MTUS1	intrc	NM_	.	.
ACa01	8	21859882	.	A	C	.	PASS	XPO7	intrc	NM_	.	.
ACa01	8	25296822	.	T	G	.	PASS	KCTD9	exo	NM_	.	missens
ACa01	8	39742519	rs1813428	G	A	.	PASS	.	inte	NM_ dis	.	.
ACa01	8	43822531	rs2022368	A	G	.	PASS	.	inte	NM_ dis	.	.
ACa01	8	73137623	.	T	C	.	PASS	LOC392	ncR	NR_	.	.
ACa01	8	82588523	rs1837720	A	T	.	PASS	IMPA1	intrc	NM_	.	.
ACa01	9	39174437	rs1329860	T	C	.	PASS	CNTNA	intrc	NM_	.	.
ACa01	9	65602674	rs2954515	T	C	.	PASS	.	inte	NM_ dis	.	.
ACa01	9	66500520	rs1968548	C	A	.	PASS	PTGER	ncR	NR_	.	.
ACa01	9	66501146	rs2019611	G	A	.	PASS	PTGER	ncR	NR_	.	.
ACa01	9	68415282	rs4928839	A	C	.	PASS	.	inte	NM_ dis	.	.
ACa01	9	96051030	.	G	A	.	PASS	WNK2	intrc	NM_	.	.
ACa01	9	1.16E+08	rs2868900	G	A	.	PASS	.	inte	NM_ dis	.	.
ACa01	9	1.31E+08	.	C	T	.	PASS	ENG	exo	NM_	.	synonyr
ACa01	9	1.33E+08	.	T	G	.	PASS	FNBP1	exo	NM_	.	synonyr
ACa01	9	1.36E+08	.	A	G	.	PASS	ADAMT	intrc	NM_	.	.
ACa01	9	1.37E+08	rs7694907	C	T	.	PASS	DBH	exo	NM_	.	synonyr
ACa01	10	14909181	.	G	A	.	PASS	HSPA14	exo	NM_	.	missens
ACa01	10	15177202	rs1051909	T	G	.	PASS	NMT2	intrc	NM_	.	.
ACa01	10	26443696	.	C	T	.	PASS	MYO3A	exo	NM_	.	missens
ACa01	10	26491918	.	G	A	.	PASS	MYO3A	exo	NM_	.	missens
ACa01	10	28260161	rs7531795	G	A	.	PASS	ARMC4	exo	NM_	.	unknow
ACa01	10	29822153	rs5566342	C	T	.	PASS	SVIL	exo	NM_	.	synonyr
ACa01	10	37442619	rs1759036	G	T	.	PASS	ANKRD	intrc	NM_	.	.
ACa01	10	38356181	.	C	T	.	PASS	.	inte	NM_ dis	.	.

ACa01	10	38938279	rs1494650	A	C	.	PASS	.	inte NR_dis.
ACa01	10	38990567	rs5524339	C	T	.	PASS	ACTR3 ncR NR_.	
ACa01	10	47207765	rs7827248	T	A	.	PASS	AGAP9 intrc NM_.	
ACa01	10	48389068	rs7821206	C	T	.	PASS	RBP3 exo NM_ missens	
ACa01	10	62498154	.	C	A	.	PASS	.	
ACa01	10	69991321	.	C	T	.	PASS	ATOH7 exo NM_ synonymr	
ACa01	10	70451076	rs1810812	C	T	.	PASS	TET1 exo NM_ synonymr	
ACa01	10	70646055	rs1852770	G	A	.	PASS	STOX1 exo NM_ missens	
ACa01	10	75457579	.	G	T	.	PASS	.	
ACa01	10	90983620	.	A	C	.	PASS	LIPA intrc NM_.	
ACa01	10	98510422	rs9002476	C	T	.	PASS	.	
ACa01	10	1.06E+08	.	A	G	.	PASS	COL17 intrc NM_.	
ACa01	10	1.17E+08	rs1028763	G	A	.	PASS	TRUB1 intrc NM_.	
ACa01	11	4880803	.	G	T	.	PASS	.	
ACa01	11	28332552	rs7615769	A	T	.	PASS	METTL intrc NM_.	
ACa01	11	36514292	.	G	A	.	PASS	TRAF6 intrc NM_.	
ACa01	11	49071349	.	T	G	.	PASS	.	
ACa01	11	60539049	.	G	A	.	PASS	MS4A1 intrc NM_.	
ACa01	11	76062520	.	T	A	.	PASS	PRKRIF exo NM_ missens	
ACa01	11	77614843	.	T	G	.	PASS	INTS4 intrc NM_.	
ACa01	11	77614844	.	T	G	.	PASS	INTS4 intrc NM_.	
ACa01	11	77916959	rs7614089	C	T	.	PASS	USP35 exo NM_ synonymr	
ACa01	11	93778909	rs1438612	C	T	.	PASS	HEPHE exo NM_ missens	
ACa01	11	1.12E+08	.	G	T	.	PASS	SIK2 exo NM_ synonymr	
ACa01	11	1.24E+08	rs7757345	C	T	.	PASS	OR10S exo NM_ missens	
ACa01	11	1.24E+08	rs2512286	T	C	.	PASS	.	
ACa01	12	68657	rs5382343	T	C	.	PASS	.	
ACa01	12	88453	rs8799828	C	G	.	PASS	LOC10 ncR NR_.	
ACa01	12	330603	.	A	C	.	PASS	SLC6A1 exo NM_ missens	
ACa01	12	1100428	rs8681434	T	C	.	PASS	ERC1 UTF NM_NV.	
ACa01	12	31353627	rs2575282	A	G	.	PASS	.	
ACa01	12	41871792	.	G	A	.	PASS	PDZRN intrc NM_.	
ACa01	12	46589903	.	G	C	.	PASS	SLC38A UTF NM_NV.	
ACa01	12	51693046	.	C	T	.	PASS	BIN2 exo NM_ synonymr	
ACa01	12	68946858	.	A	C	.	PASS	.	
ACa01	12	75700028	.	G	A	.	PASS	CAPS2 intrc NM_.	
ACa01	12	1.05E+08	rs1043870	C	T	.	PASS	CHST1 exo NM_ synonymr	
ACa01	12	1.11E+08	.	C	T	.	PASS	CCDC6 intrc NM_.	
ACa01	12	1.2E+08	.	C	T	.	PASS	CIT intrc NM_.	
ACa01	13	58299300	.	C	A	.	PASS	PCDH1 exo NM_ missens	
ACa01	14	19475264	.	G	A	.	PASS	.	
ACa01	14	19475298	rs2014705	C	T	.	PASS	.	
ACa01	14	19720608	rs8794601	G	A	.	PASS	.	
ACa01	14	19962075	.	C	T	.	PASS	.	
ACa01	14	20145911	rs8674109	G	T	.	PASS	.	
ACa01	14	20897283	.	C	T	.	PASS	KLHL33 exo NM_ missens	
ACa01	14	22958314	.	A	C	.	PASS	.	
ACa01	14	22958315	.	A	C	.	PASS	.	
ACa01	14	39628570	.	G	A	.	PASS	TRAPP intrc NM_.	
ACa01	14	53173723	.	G	A	.	PASS	.	
ACa01	14	58917202	.	T	G	.	PASS	KIAA05 intrc NM_.	
ACa01	14	64687233	rs7732738	G	A	.	PASS	SYNE2 exo NM_ missens	
ACa01	14	1.01E+08	.	G	T	.	PASS	WDR25 intrc NM_.	
ACa01	14	1.06E+08	rs2897118	C	T	.	PASS	.	

ACa01	14	1.06E+08	rs3681255	T	A	PASS	ups  NR_ . .
ACa01	14	1.07E+08	rs6199969	T	C	PASS	inte  NR_dis .
ACa01	15	20433937	.	C	A	PASS	inte  NON_dis .
ACa01	15	20446879	.	T	G	PASS	inte  NON_dis .
ACa01	15	20832999	rs3749240	G	A	PASS	inte  NR_dis .
ACa01	15	21009303	.	C	T	PASS	inte  NR_dis .
ACa01	15	22015966	.	C	T	PASS	CXADR ncR NR_ . .
ACa01	15	22705227	.	C	T	PASS	GOLGA ncR NR_ . .
ACa01	15	23377558	rs7964394	T	C	PASS	HERC2  ncR NR_ . .
ACa01	15	23402623	.	A	G	PASS	inte  NR_dis .
ACa01	15	23512812	rs7126232	C	T	PASS	intrc NM_ . .
ACa01	15	24922007	.	G	A	PASS	NPAP1 exo  NM_ . .
ACa01	15	25958879	.	G	A	PASS	ATP10A exo  NM_ . .
ACa01	15	28952979	rs7695754	C	T	PASS	GOLGA exo  NM_ . .
ACa01	15	29367166	.	G	A	PASS	APBA2 exo  NM_ . .
ACa01	15	30874998	.	T	C	PASS	ULK4P2 ncR NR_ . .
ACa01	15	31092738	.	C	A	PASS	inte  NR_dis .
ACa01	15	32738450	rs8658676	G	A	PASS	GOLGA intrc NM_ . .
ACa01	15	32738540	.	G	T	PASS	GOLGA intrc NM_ . .
ACa01	15	40650467	rs3683923	G	A	PASS	DISP2 UTF NM_ NM_ . .
ACa01	15	62315589	rs3741666	G	A	PASS	VPS13C intrc NM_ . .
ACa01	15	80050960	.	C	T	PASS	inte  NM_dis .
ACa01	15	84859986	rs5743805	G	A	PASS	ups  NR_ . .
ACa01	15	84908877	rs1998088	A	G	PASS	GOLGA exo  NM_ . .
ACa01	15	84909416	rs3775649	A	G	PASS	GOLGA exo  NM_ . .
ACa01	15	1.03E+08	rs6202866	A	G	PASS	WASH3 ncR NR_ . .
ACa01	16	319032	rs7561426	G	A	PASS	RGS11 UTF NM_ NM_ . .
ACa01	16	21732577	.	C	T	PASS	OTOA intrc NM_ . .
ACa01	16	30196569	rs7464587	C	T	PASS	CORO1 exo  NM_ . .
ACa01	16	31091068	.	G	A	PASS	ZNF646 exo  NM_ . .
ACa01	16	32437180	rs2018870	C	T	PASS	inte  NR_dis .
ACa01	16	46388675	rs4643347	T	C	PASS	inte  NON_dis .
ACa01	16	46392276	rs4535017	T	C	PASS	inte  NON_dis .
ACa01	16	46393953	rs2128471	T	C	PASS	inte  NON_dis .
ACa01	16	46394039	rs2888787	C	G	PASS	inte  NON_dis .
ACa01	16	46395236	rs4355081	T	A	PASS	inte  NON_dis .
ACa01	16	46395893	rs4249097	T	C	PASS	inte  NON_dis .
ACa01	16	46399631	rs4232920	C	T	PASS	inte  NON_dis .
ACa01	16	46401781	rs7970299	T	G	PASS	inte  NON_dis .
ACa01	16	46401891	rs1483332	A	T	PASS	inte  NON_dis .
ACa01	16	46402061	rs9972801	A	G	PASS	inte  NON_dis .
ACa01	16	46402155	rs2878607	A	T	PASS	inte  NON_dis .
ACa01	16	46402193	rs4249050	C	G	PASS	inte  NON_dis .
ACa01	16	46405336	rs4250282	T	C	PASS	inte  NON_dis .
ACa01	16	46405873	rs7198709	T	C	PASS	inte  NON_dis .
ACa01	16	46407028	rs4445923	A	T	PASS	inte  NON_dis .
ACa01	16	46407951	rs4450416	A	G	PASS	inte  NON_dis .
ACa01	16	46408218	.	G	A	PASS	inte  NON_dis .
ACa01	16	46408282	rs8056404	C	G	PASS	inte  NON_dis .
ACa01	16	46420425	rs8056672	A	C	PASS	inte  NON_dis .
ACa01	16	46421747	rs6152895	G	A	PASS	inte  NON_dis .
ACa01	16	46421915	rs2884801	T	C	PASS	inte  NON_dis .
ACa01	16	53844261	.	A	C	PASS	FTO intrc NM_ . .
ACa01	16	67063672	.	C	T	PASS	CBFB exo  NM_ . .

ACa01	16	70237719	.	C	G	.	PASS	.	inter NM_dis	.
ACa01	16	88493891	.	C	T	.	PASS	ZNF469	exon NM_	missens
ACa01	17	1578542	rs7801100	G	A	.	PASS	PRPF8	exon NM_	synonym
ACa01	17	3343563	.	T	C	.	PASS	SPATA2	exon NM_	missens
ACa01	17	7814784	rs3687584	G	A	.	PASS	CHD3	exon NM_	missens
ACa01	17	11778655	.	A	C	.	PASS	DNAH9	intron NM_	.
ACa01	17	15690511	rs1845094	C	T	.	PASS	MEIS3P	ncR NR_	.
ACa01	17	18045131	.	G	A	.	PASS	MYO15	intron NM_	.
ACa01	17	21904565	.	G	T	.	PASS	FLJ360	ncR NR_	.
ACa01	17	21906266	.	C	G	.	PASS	FLJ360	ncR NR_	.
ACa01	17	21906963	rs4503851	G	T	.	PASS	FLJ360	ncR NR_	.
ACa01	17	22252147	rs1462263	C	A	.	PASS	.	inter NM_dis	.
ACa01	17	22253154	rs4362423	T	G	.	PASS	.	inter NM_dis	.
ACa01	17	22253158	rs6565430	T	G	.	PASS	.	inter NM_dis	.
ACa01	17	22253167	rs1434103	G	A	.	PASS	.	inter NM_dis	.
ACa01	17	22254209	.	G	C	.	PASS	.	inter NM_dis	.
ACa01	17	26348946	rs8916657	T	A	.	PASS	.	inter NM_dis	.
ACa01	17	37426807	rs1167082	A	T	.	PASS	FBXL20	intron NM_	.
ACa01	17	40123777	.	T	G	.	PASS	CNP	intron NM_	.
ACa01	17	40762339	rs1459625	G	A	.	PASS	TUBG1	intron NM_	.
ACa01	17	43663933	rs1724395	T	C	.	PASS	.	inter NR_dis	.
ACa01	17	56690735	.	G	A	.	PASS	TEX14	intron NM_	.
ACa01	17	66535309	.	T	G	.	PASS	FAM20	intron NM_	.
ACa01	17	72522246	.	A	C	.	PASS	CD300L	intron NM_	.
ACa01	18	5397057	.	C	T	.	PASS	EPB41L	exon NM_	synonym
ACa01	18	11633266	rs5374020	T	C	.	PASS	.	inter NM_dis	.
ACa01	18	11644538	rs2012257	C	G	.	PASS	.	inter NM_dis	.
ACa01	19	36759691	.	G	A	.	PASS	.	inter NM_dis	.
ACa01	19	37785301	rs7125437	C	G	.	PASS	.	inter NR_dis	.
ACa01	19	37785451	.	C	T	.	PASS	.	inter NR_dis	.
ACa01	19	41631873	.	A	G	.	PASS	CYP2F1	intron NM_	.
ACa01	19	42012297	.	G	T	.	PASS	.	inter NR_dis	.
ACa01	19	42620764	.	G	A	.	PASS	POU2F2	intron NM_	.
ACa01	19	43858238	.	G	A	.	PASS	CD177	intron NM_	.
ACa01	19	49439523	.	G	T	.	PASS	DHDH	intron NM_	.
ACa01	19	56538348	.	G	A	.	PASS	NLRP5	exon NM_	missens
ACa01	19	57522507	rs8677343	T	C	.	PASS	.	inter NR_dis	.
ACa01	20	34568263	.	G	A	.	PASS	CNBD2	intron NM_	.
ACa01	20	36770283	.	C	T	.	PASS	TGM2	intron NM_	.
ACa01	21	9752424	rs8795581	C	T	.	PASS	.	inter NON_dis	.
ACa01	21	9907668	rs8661396	G	A	.	PASS	TEKT4F	ncR NR_	.
ACa01	21	10624265	.	G	T	.	PASS	.	inter NR_dis	.
ACa01	21	11040737	rs7532385	G	A	.	PASS	BAGE2	intron NM_	.
ACa01	21	11047253	rs3737231	A	T	.	PASS	BAGE2	intron NM_	.
ACa01	21	11114884	.	G	A	.	PASS	.	inter NM_dis	.
ACa01	22	16272032	rs2003402	C	A	.	PASS	POTEH	intron NM_	.
ACa01	22	16352391	rs2818474	G	A	.	PASS	.	inter NM_dis	.
ACa01	22	17976597	rs5464921	C	T	.	PASS	CECR2	exon NM_	unknown
ACa01	22	24621744	rs9350299	A	G	.	PASS	GGT5	intron NM_	.
ACa01	22	24644673	rs4050109	C	G	.	PASS	.	inter NM_dis	.
ACa01	22	24644674	.	T	G	.	PASS	.	inter NM_dis	.
ACa01	22	25054076	.	A	C	.	PASS	POM12	ncR NR_	.
ACa01	22	26294165	.	C	T	.	PASS	MYO18l	intron NM_	.
ACa01	22	29907312	.	A	C	.	PASS	THOC5	intron NM_	.

ACa01	22	30782805	.	G	A	.	PASS	RNF21E intrc NM_ . .
ACa01	22	42536924	rs1425675	C	T	.	PASS	CYP2D7 ncR NR_ . .
ACa01	22	46761386	rs1054069	G	A	.	PASS	CELSR1 intrc NM_ . .
ACa01	22	46858756	.	G	A	.	PASS	CELSR1 intrc NM_ . .
ACa01	X	7811224	rs7661994	C	T	.	PASS	VCX UTF NM_NM_ .
ACa01	X	9377823	.	C	T	.	PASS	. inte  NM_ dis .
ACa01	X	25087714	.	T	C	.	PASS	. inte  NM_ dis .
ACa01	X	48888030	.	G	A	.	PASS	TFE3 exo  NM_ . missens
ACa01	X	48890958	.	G	A	.	PASS	TFE3 intrc NM_ . .
ACa01	X	49084983	.	C	T	.	PASS	CACNA intrc NM_ . .
ACa01	X	50653733	rs7822715	C	T	.	PASS	. ups  NM_ . .
ACa01	X	53112190	rs7821690	C	T	.	PASS	TSPYL2 exo  NM_ . synonymr
ACa01	X	61718822	.	A	T	.	PASS	. inte  NO  dis .
ACa01	X	66789118	.	T	G	.	PASS	AR intrc NM_ . .
ACa01	X	76712110	.	C	T	.	PASS	. dow NM_ . .
ACa01	X	80064380	.	C	T	.	PASS	BRWD3 intrc NM_ . .
ACa01	X	92477284	.	C	T	.	PASS	. inte  NM_ dis .
ACa01	X	1E+08	.	G	A	.	PASS	CSTF2 exo  NM_ . synonymr
ACa01	X	1.03E+08	rs7818697	G	A	.	PASS	ZCCHC exo  NM_ . missens
ACa01	X	1.32E+08	.	C	T	.	PASS	HS6ST2 exo  NM_ . missens
ACa01	X	1.39E+08	.	C	T	.	PASS	MCF2 exo  NM_ . missens
ACa01	X	1.5E+08	.	C	T	.	PASS	CD99L2 intrc NM_ . .
ACa01	MT	7830	rs8788971	G	A	.	PASS	. inte  NO  dis .
ACa02	1	11317067	.	C	T	.	PASS	MTOR exo  NM_ . missens
ACa02	1	11317177	.	C	T	.	PASS	MTOR exo  NM_ . missens
ACa02	1	12898846	rs5506852	G	A	.	PASS	. inte  NM_ dis .
ACa02	1	12921642	rs2994093	G	A	.	PASS	PRAME UTF NM_NM_ .
ACa02	1	13413890	.	C	T	.	PASS	. intrc NM_ . .
ACa02	1	17024409	rs1390932	C	T	.	PASS	ESPNP ncR NR_ . .
ACa02	1	20992955	.	A	C	.	PASS	KIF17 intrc NM_ . .
ACa02	1	52867128	rs3686746	G	A	.	PASS	ORC1 exo  NM_ . synonymr
ACa02	1	70625174	.	T	C	.	PASS	LRRC4 intrc NM_ . .
ACa02	1	91384072	.	T	C	.	PASS	ZNF644 intrc NM_ . .
ACa02	1	1.11E+08	.	C	T	.	PASS	KCNA2 exo  NM_ . synonymr
ACa02	1	1.43E+08	rs2010827	G	C	.	PASS	. inte  NO  dis .
ACa02	1	1.43E+08	.	C	A	.	PASS	. inte  NO  dis .
ACa02	1	1.43E+08	rs2018849	T	G	.	PASS	. inte  NO  dis .
ACa02	1	1.43E+08	rs3724010	A	T	.	PASS	. inte  NR_ dis .
ACa02	1	1.43E+08	.	T	C	.	PASS	. inte  NR_ dis .
ACa02	1	1.43E+08	rs3772379	G	C	.	PASS	. inte  NR_ dis .
ACa02	1	1.44E+08	rs8799699	G	A	.	PASS	NBPF2C intrc NM_ . .
ACa02	1	1.45E+08	.	C	A	.	PASS	NBPF9 intrc NM_ . .
ACa02	1	1.45E+08	.	A	C	.	PASS	NBPF8 intrc NM_ . .
ACa02	1	1.45E+08	rs4649849	A	G	.	PASS	NBPF9 intrc NM_ . .
ACa02	1	1.45E+08	rs8799650	A	C	.	PASS	NBPF2E ncR NR_ . .
ACa02	1	1.45E+08	rs7668601	C	G	.	PASS	NBPF2E ncR NR_ . .
ACa02	1	1.45E+08	rs7823737	C	T	.	PASS	NBPF2E ncR NR_ . .
ACa02	1	1.48E+08	.	C	T	.	PASS	NBPF8 intrc NM_ . .
ACa02	1	1.48E+08	rs2003436	G	A	.	PASS	NBPF8 intrc NM_ . .
ACa02	1	1.48E+08	rs6181174	G	A	.	PASS	NBPF8 intrc NM_ . .
ACa02	1	1.48E+08	rs6181174	G	A	.	PASS	NBPF8 intrc NM_ . .
ACa02	1	1.73E+08	.	A	C	.	PASS	LOC10C ncR NR_ . .
ACa02	1	1.75E+08	rs7494818	C	T	.	PASS	TNR exo  NM_ . missens
ACa02	1	1.79E+08	.	C	T	.	PASS	SOAT1 intrc NM_ . .

ACa02	1	1.79E+08	rs8790889	C	A	.	PASS	AXDND intrc NM_ . .
ACa02	1	2.2E+08	.	G	T	.	PASS	RNU5F- ncR NR_ . .
ACa02	1	2.28E+08	.	G	A	.	PASS	ZNF678 intrc NM_ . .
ACa02	1	2.28E+08	.	A	G	.	PASS	. inte  NM_ dis .
ACa02	1	2.41E+08	.	C	A	.	PASS	RGS7 intrc NM_ . .
ACa02	2	24920686	.	A	G	.	PASS	NCOA1 intrc NM_ . .
ACa02	2	87581132	rs1020943	C	A	.	PASS	. inte  NR_ dis .
ACa02	2	91836143	.	C	T	.	PASS	LOC654 ncR NR_ . .
ACa02	2	91896050	rs2004118	A	T	.	PASS	. inte  NR_ dis .
ACa02	2	96561474	rs2021466	A	T	.	PASS	. inte  NR_ dis .
ACa02	2	97875309	rs3694799	T	C	.	PASS	ANKRD intrc NM_ . .
ACa02	2	1.08E+08	rs5416674	G	A	.	PASS	RGPD4 exo  NM_ missens
ACa02	2	1.09E+08	rs1053772	A	C	.	PASS	LIMS1 intrc NM_ . .
ACa02	2	1.14E+08	.	C	T	.	PASS	WASH2 ncR NR_ . .
ACa02	2	1.32E+08	rs5382277	C	T	.	PASS	RNU6-8 ncR NR_ . .
ACa02	2	1.61E+08	.	G	C	.	PASS	7-Mar intrc NM_ . .
ACa02	2	1.7E+08	rs1875087	G	A	.	PASS	BBS5 intrc NM_ . .
ACa02	2	1.8E+08	.	G	T	.	PASS	TTN exo  NM_ missens
ACa02	2	2.04E+08	.	A	G	.	PASS	CARF intrc NM_ . .
ACa02	2	2.16E+08	.	T	C	.	PASS	ATIC UTF NM_ NM .
ACa02	2	2.28E+08	rs1509794	C	T	.	PASS	COL4A2 exo  NM_ missens
ACa02	2	2.34E+08	.	C	T	.	PASS	NGEF exo  NM_ missens
ACa02	2	2.43E+08	rs7970263	T	C	.	PASS	. inte  NR_ dis .
ACa02	3	4733029	.	G	A	.	PASS	ITPR1 spli  NM_ NM .
ACa02	3	31677754	.	G	A	.	PASS	. UTF NM_ NM .
ACa02	3	49723881	rs6777426	G	C	.	PASS	MST1 exo  NM_ missens
ACa02	3	49724014	rs6779963	G	A	.	PASS	MST1 intrc NM_ . .
ACa02	3	69225746	rs5472981	G	A	.	PASS	FRMD4  exo  NM_ unknow
ACa02	3	69988398	.	C	T	.	PASS	MITF intrc NM_ . .
ACa02	3	1.25E+08	.	C	G	.	PASS	. inte  NM_ dis .
ACa02	3	1.79E+08	rs1219132	G	A	.	PASS	PIK3CA exo  NM_ missens
ACa02	3	1.79E+08	.	C	G	.	PASS	MFN1 intrc NM_ . .
ACa02	3	1.91E+08	.	A	G	.	PASS	GMNC exo  NM_ synonymr
ACa02	3	1.95E+08	.	G	T	.	PASS	. ncR NR_ . .
ACa02	3	1.97E+08	rs4857535	A	G	.	PASS	LOC22C ncR NR_ . .
ACa02	4	1230342	.	C	T	.	PASS	CTBP1 intrc NM_ . .
ACa02	4	9212542	.	G	T	.	PASS	USP17L exo  NM_ missens
ACa02	4	9241015	.	G	T	.	PASS	. inte  NM_ dis .
ACa02	4	9245326	rs7961122	C	G	.	PASS	. ups  NM_ . .
ACa02	4	39328028	.	C	T	.	PASS	MIR127 ncR NR_ . .
ACa02	4	49539207	.	A	G	.	PASS	. inte  NM_ dis .
ACa02	4	54794073	.	G	A	.	PASS	. inte  NR_ dis .
ACa02	4	81123234	rs3705413	C	T	.	PASS	PRDM8 exo  NM_ synonymr
ACa02	4	1E+08	.	C	T	.	PASS	ADH1C exo  NM_ unknow
ACa02	4	1.04E+08	.	T	C	.	PASS	SLC9B2 UTF NM_ NM .
ACa02	4	1.14E+08	.	G	A	.	PASS	ANK2 intrc NM_ . .
ACa02	4	1.45E+08	rs2016625	T	G	.	PASS	GYPB exo  NM_ missens
ACa02	4	1.77E+08	.	G	A	.	PASS	WDR17 intrc NM_ . .
ACa02	4	1.89E+08	rs7619626	C	T	.	PASS	ZFP42 exo  NM_ synonymr
ACa02	5	7301667	rs8684061	C	G	.	PASS	LOC442 ncR NR_ . .
ACa02	5	14692852	.	C	T	.	PASS	OTULIN intrc NM_ . .
ACa02	5	17527667	.	G	A	.	PASS	. inte  NR_ dis .
ACa02	5	34182503	.	G	A	.	PASS	. inte  NR_ dis .
ACa02	5	49410264	rs8659304	A	G	.	PASS	. inte  NO  dis .



ACa02	5	49437291	rs1335780	A	C	.	PASS	.	inte NON dis.
ACa02	5	49440809	rs1483787	G	C	.	PASS	.	inte NON dis.
ACa02	5	63802402	.	C	A	.	PASS	RGS7BI	UTF NM_ NV.
ACa02	5	79598356	rs1416874	T	G	.	PASS	.	inte NR_ dis.
ACa02	5	1.48E+08	.	G	A	.	PASS	SH3TC2	intrc NM_ .
ACa02	5	1.69E+08	rs7284112	G	A	.	PASS	DOCK2	intrc NM_ .
ACa02	5	1.79E+08	rs1829546	C	A	.	PASS	MAML1	intrc NM_ .
ACa02	6	31948477	rs7743469	A	G	.	PASS	STK19	exo NM_ . synonymr
ACa02	6	31973462	rs1403232	T	C	.	PASS	CYP21A	ncR NR_ .
ACa02	6	39278875	rs7596914	C	T	.	PASS	KCNK17	intrc NM_ .
ACa02	6	58778766	rs4928651	T	A	.	PASS	.	inte NR_ dis.
ACa02	6	1.17E+08	.	G	T	.	PASS	DSE	exo NM_ . stopgair
ACa02	7	1518653	.	A	C	.	PASS	INTS1	intrc NM_ .
ACa02	7	37890219	rs7467237	A	G	.	PASS	NME8	intrc NM_ .
ACa02	7	45123761	rs7762925	C	T	.	PASS	NACAD	exo NM_ . missens
ACa02	7	55826532	.	G	T	.	PASS	.	inte NR_ dis.
ACa02	7	56887905	.	A	G	.	PASS	.	inte NR_ dis.
ACa02	7	57082051	rs1422600	C	T	.	PASS	.	inte NR_ dis.
ACa02	7	61969020	rs4460255	G	C	.	PASS	.	inte NON dis.
ACa02	7	63210111	.	C	A	.	PASS	.	inte NR_ dis.
ACa02	7	63212664	rs3740384	G	A	.	PASS	.	inte NR_ dis.
ACa02	7	63213718	rs8672068	G	A	.	PASS	.	inte NR_ dis.
ACa02	7	63214682	.	C	G	.	PASS	.	inte NR_ dis.
ACa02	7	63219127	.	G	A	.	PASS	.	inte NR_ dis.
ACa02	7	63222486	.	G	T	.	PASS	.	inte NR_ dis.
ACa02	7	72604281	rs5541523	C	T	.	PASS	GTF2IP	ncR NR_ .
ACa02	7	1.02E+08	rs3757000	T	C	.	PASS	.	inte NM_ dis.
ACa02	7	1.13E+08	.	A	G	.	PASS	GPR85	exo NM_ . synonymr
ACa02	7	1.51E+08	.	T	G	.	PASS	SLC4A2	intrc NM_ .
ACa02	7	1.51E+08	.	T	G	.	PASS	ABCF2	intrc NM_ .
ACa02	7	1.51E+08	.	T	G	.	PASS	ABCF2	intrc NM_ .
ACa02	7	1.58E+08	rs8681384	G	C	.	PASS	PTPRN	intrc NM_ .
ACa02	8	1678575	.	C	T	.	PASS	.	inte NM_ dis.
ACa02	8	7461251	rs3989791	C	G	.	PASS	.	inte NR_ dis.
ACa02	8	7468906	.	G	A	.	PASS	.	inte NR_ dis.
ACa02	8	10467390	rs7469289	G	A	.	PASS	RP1L1	exo NM_ . synonymr
ACa02	8	12272503	rs7595500	C	G	.	PASS	FAM907	ncR NR_ .
ACa02	8	12584753	.	G	A	.	PASS	MIR392	ncR NR_ .
ACa02	8	17125921	.	G	T	.	PASS	VPS37A	intrc NM_ .
ACa02	8	46841804	.	G	C	.	PASS	.	inte NON dis.
ACa02	8	46849744	rs4440644	C	T	.	PASS	.	inte NON dis.
ACa02	8	81599998	.	G	T	.	PASS	ZNF704	intrc NM_ .
ACa02	8	1.14E+08	.	G	A	.	PASS	CSMD3	intrc NM_ .
ACa02	8	1.44E+08	.	C	T	.	PASS	LY6H	intrc NM_ .
ACa02	9	19596939	rs5356927	G	A	.	PASS	SLC24A	intrc NM_ .
ACa02	9	37015284	rs5620843	C	T	.	PASS	PAX5	intrc NM_ .
ACa02	9	39085808	rs1412360	T	C	.	PASS	CNTNA	exo NM_ . missens
ACa02	9	41954395	rs3755065	C	A	.	PASS	GLIDR	ncR NR_ .
ACa02	9	41955952	rs5368523	T	A	.	PASS	.	ups NR_ .
ACa02	9	66499856	rs7792676	G	T	.	PASS	PTGER	ncR NR_ .
ACa02	9	66500520	rs1968548	C	A	.	PASS	PTGER	ncR NR_ .
ACa02	9	68438589	rs6254382	A	G	.	PASS	LOC642	ncR NR_ .
ACa02	9	92995229	.	G	T	.	PASS	.	inte NR_ dis.
ACa02	9	1.23E+08	rs5781745	G	A	.	PASS	.	inte NM_ dis.

ACa02	9	1.36E+08	.	G	A	.	PASS	RALGD	intrc	NM_	.	.
ACa02	9	1.41E+08	.	G	A	.	PASS	CACNA	exo	NM_	.	missens
ACa02	10	16962027	rs7660547	C	T	.	PASS	CUBN	exo	NM_	.	synonyr
ACa02	10	22006660	rs1930137	C	T	.	PASS	MLLT1C	intrc	NM_	.	.
ACa02	10	43326310	.	T	G	.	PASS	BMS1	splic	NM_NM	.	.
ACa02	10	47405478	rs7819664	T	A	.	PASS	FAM35L	ncR	NR_	.	.
ACa02	10	51470151	rs6185008	G	C	.	PASS	TIMM23	intrc	NM_	.	.
ACa02	10	75451923	.	T	A	.	PASS	AGAP5	intrc	NM_	.	.
ACa02	10	81606558	.	G	A	.	PASS	.	inte	NR_dis	.	.
ACa02	10	1.02E+08	.	C	T	.	PASS	PKD2L1	intrc	NM_	.	.
ACa02	10	1.2E+08	rs2928119	C	G	.	PASS	RAB11F	intrc	NM_	.	.
ACa02	10	1.3E+08	.	C	G	.	PASS	.	inte	NR_dis	.	.
ACa02	10	1.35E+08	rs1021891	C	T	.	PASS	SCART	ncR	NR_	.	.
ACa02	11	1092858	rs6263724	A	C	.	PASS	MUC2	exo	NM_	.	synonyr
ACa02	11	1277292	rs1494932	T	C	.	PASS	MUC5B	intrc	NM_	.	.
ACa02	11	8715859	.	T	G	.	PASS	ST5	intrc	NM_	.	.
ACa02	11	9406464	.	G	A	.	PASS	IPO7	intrc	NM_	.	.
ACa02	11	44125218	.	G	A	.	PASS	EXT2	intrc	NM_	.	.
ACa02	11	61310123	.	G	A	.	PASS	SYT7	intrc	NM_	.	.
ACa02	11	64006105	rs9265024	G	C	.	PASS	VEGFB	UTF	NM_NM	.	.
ACa02	11	64899489	.	T	C	.	PASS	SYVN1	intrc	NM_	.	.
ACa02	11	66034763	.	C	T	.	PASS	KLC2	UTF	NM_NM	.	.
ACa02	11	67140900	.	G	A	.	PASS	LOC10C	ncR	NR_	.	.
ACa02	11	72406877	rs3679844	G	A	.	PASS	ARAP1	exo	NM_	.	synonyr
ACa02	11	72409035	.	G	A	.	PASS	ARAP1	exo	NM_	.	synonyr
ACa02	11	75154422	.	C	A	.	PASS	GDPD5	intrc	NM_	.	.
ACa02	11	76901624	rs3831451	A	G	.	PASS	MYO7A	intrc	NM_	.	.
ACa02	11	77698429	.	A	T	.	PASS	INTS4	intrc	NM_	.	.
ACa02	11	1.05E+08	.	C	T	.	PASS	.	inte	NM_dis	.	.
ACa02	11	1.17E+08	rs1441056	C	T	.	PASS	BACE1	intrc	NM_	.	.
ACa02	11	1.24E+08	rs5379167	G	T	.	PASS	OR8B8	exo	NM_	.	missens
ACa02	11	1.34E+08	.	T	C	.	PASS	.	inte	NM_dis	.	.
ACa02	12	93080	rs1482401	C	G	.	PASS	.	inte	NR_dis	.	.
ACa02	12	3047379	.	T	A	.	PASS	TULP3	exo	NM_	.	missens
ACa02	12	9707317	rs2005141	T	C	.	PASS	.	inte	NR_dis	.	.
ACa02	12	27066602	.	G	A	.	PASS	ASUN	exo	NM_	.	synonyr
ACa02	12	57011270	.	T	C	.	PASS	BAZ2A	exo	NM_	.	synonyr
ACa02	12	57396918	rs3737629	G	A	.	PASS	ZBTB39	exo	NM_	.	missens
ACa02	12	80604519	.	C	T	.	PASS	OTOGL	intrc	NM_	.	.
ACa02	12	82147793	.	G	A	.	PASS	PPFIA2	exo	NM_	.	stopgair
ACa02	12	1.02E+08	.	C	G	.	PASS	.	inte	NM_dis	.	.
ACa02	12	1.08E+08	.	C	T	.	PASS	BTBD11	exo	NM_	.	missens
ACa02	12	1.11E+08	.	G	A	.	PASS	PPTC7	intrc	NM_	.	.
ACa02	12	1.11E+08	rs3495666	A	G	.	PASS	PPTC7	intrc	NM_	.	.
ACa02	12	1.18E+08	.	G	C	.	PASS	NOS1	intrc	NM_	.	.
ACa02	12	1.25E+08	.	C	G	.	PASS	NCOR2	exo	NM_	.	missens
ACa02	13	31035409	.	A	G	.	PASS	HMGB1	UTF	NM_NM	.	.
ACa02	13	42352245	.	A	C	.	PASS	VWA8	intrc	NM_	.	.
ACa02	13	44621118	rs3772091	T	C	.	PASS	.	inte	NR_dis	.	.
ACa02	13	78236166	.	G	T	.	PASS	.	inte	NM_dis	.	.
ACa02	13	1.03E+08	.	C	G	.	PASS	TPP2	intrc	NM_	.	.
ACa02	14	19806361	rs2259899	C	A	.	PASS	.	inte	NR_dis	.	.
ACa02	14	20444114	rs7532438	G	A	.	PASS	OR4K1	exo	NM_	.	missens
ACa02	14	22386739	.	T	A	.	PASS	.	inte	NM_dis	.	.

ACa02	14	23573949	.	G	T	.	PASS	.	inte NM_dis.
ACa02	14	50559357	.	T	C	.	PASS	C14orf1 exo NM_.	missens
ACa02	14	73572961	.	G	C	.	PASS	RBM25 exo NM_.	missens
ACa02	14	75052544	.	G	A	.	PASS	LTBP2 intrc NM_.	.
ACa02	14	1.01E+08	.	A	C	.	PASS	SLC25A intrc NM_.	.
ACa02	14	1.01E+08	rs9310230	C	T	.	PASS	MEG3 ncR NR_.	.
ACa02	14	1.04E+08	.	C	T	.	PASS	TRMT6 intrc NM_.	.
ACa02	15	21195945	rs2259724	A	G	.	PASS	LINC01 ncR NR_NR_.	.
ACa02	15	30850293	rs2648130	G	T	.	PASS	.	inte NM_dis.
ACa02	15	31089768	rs2015085	C	A	.	PASS	.	inte NR_dis.
ACa02	15	32607256	rs2007357	A	G	.	PASS	.	inte NM_dis.
ACa02	15	33927852	.	C	A	.	PASS	RYR3 exo NM_.	unknow
ACa02	15	41193053	.	A	G	.	PASS	VPS18 exo NM_.	synonyr
ACa02	15	48529260	.	G	A	.	PASS	SLC12A intrc NM_.	.
ACa02	15	63481764	.	C	T	.	PASS	RAB8B UTF NM_NV_.	.
ACa02	15	72493057	.	C	T	.	PASS	PKM intrc NM_.	.
ACa02	15	73418657	.	C	A	.	PASS	NEO1 intrc NM_.	.
ACa02	15	75561115	.	C	T	.	PASS	GOLGA intrc NM_.	.
ACa02	15	76077724	rs1401448	T	C	.	PASS	.	inte NR_dis.
ACa02	15	76763454	rs8788873	C	A	.	PASS	SCAPE1 intrc NM_.	.
ACa02	15	84859111	rs2870850	G	A	.	PASS	.	inte NM_dis.
ACa02	15	92397621	.	C	T	.	PASS	SLCO3 intrc NM_.	.
ACa02	15	1.01E+08	rs7724699	C	T	.	PASS	ADAMT exo NM_.	synonyr
ACa02	15	1.03E+08	.	G	A	.	PASS	WASH3 ncR NR_.	.
ACa02	16	15032227	rs7760391	C	T	.	PASS	NPIPA1 intrc NM_.	.
ACa02	16	15744027	.	C	G	.	PASS	NDE1 intrc NM_.	.
ACa02	16	30674106	.	G	A	.	PASS	.	inte NM_dis.
ACa02	16	30750888	.	C	T	.	PASS	SRCAP exo NM_.	missens
ACa02	16	32265903	rs2111615	A	G	.	PASS	TP53TC intrc NM_.	.
ACa02	16	32265931	rs1123661	T	C	.	PASS	TP53TC intrc NM_.	.
ACa02	16	34569998	.	C	A	.	PASS	.	inte NR_dis.
ACa02	16	34877417	rs5547762	C	T	.	PASS	.	inte NR_dis.
ACa02	16	35141389	rs3718897	C	T	.	PASS	.	inte NR_dis.
ACa02	16	46388964	rs4967312	G	T	.	PASS	.	inte NO dis.
ACa02	16	46391668	rs4270195	G	C	.	PASS	.	inte NO dis.
ACa02	16	46391690	rs4347658	A	T	.	PASS	.	inte NO dis.
ACa02	16	46393134	rs4246399	T	C	.	PASS	.	inte NO dis.
ACa02	16	46398753	rs5908263	A	G	.	PASS	.	inte NO dis.
ACa02	16	46401863	rs4249045	T	C	.	PASS	.	inte NO dis.
ACa02	16	46401949	rs7188365	G	T	.	PASS	.	inte NO dis.
ACa02	16	46402193	rs4249050	C	G	.	PASS	.	inte NO dis.
ACa02	16	46404687	rs4505355	C	T	.	PASS	.	inte NO dis.
ACa02	16	46404715	rs1244825	T	G	.	PASS	.	inte NO dis.
ACa02	16	46405534	rs1393031	A	G	.	PASS	.	inte NO dis.
ACa02	16	46405934	rs5614462	A	C	.	PASS	.	inte NO dis.
ACa02	16	46407482	rs4967197	T	G	.	PASS	.	inte NO dis.
ACa02	16	46407951	rs4450416	A	G	.	PASS	.	inte NO dis.
ACa02	16	46408282	rs8056404	C	G	.	PASS	.	inte NO dis.
ACa02	16	46408483	rs4246356	C	T	.	PASS	.	inte NO dis.
ACa02	16	46408518	rs8052624	G	T	.	PASS	.	inte NO dis.
ACa02	16	46408534	rs4249654	A	T	.	PASS	.	inte NO dis.
ACa02	16	46413328	rs2885782	G	T	.	PASS	.	inte NO dis.
ACa02	16	46413340	rs6153388	C	T	.	PASS	.	inte NO dis.
ACa02	16	46413364	.	G	C	.	PASS	.	inte NO dis.

ACa02	16	46420361	rs2875315	T	C	.	PASS	.	inte NON	dis.
ACa02	16	46423135	.	G	A	.	PASS	.	inte NON	dis.
ACa02	16	46433334	rs1479181	C	G	.	PASS	.	inte NON	dis.
ACa02	16	46433422	rs8677676	C	T	.	PASS	.	inte NON	dis.
ACa02	16	70917747	.	C	G	.	PASS	HYDIN	intrc	NM_.
ACa02	16	72094757	rs1891151	G	C	.	PASS	HP	exo NM_.	missens
ACa02	16	72097225	rs1291890	T	C	.	PASS	HPR	intrc	NM_.
ACa02	16	76389509	.	G	T	.	PASS	CNTNA	intrc	NM_.
ACa02	16	89167385	.	C	A	.	PASS	ACSF3	exo NM_.	missens
ACa02	16	89167409	rs7697160	C	T	.	PASS	ACSF3	exo NM_.	missens
ACa02	16	90229186	rs7945920	C	A	.	PASS	.	ncR	NR_.
ACa02	16	90234858	rs3697515	C	A	.	PASS	.	ncR	NR_.
ACa02	16	90234879	rs5596034	A	G	.	PASS	.	ncR	NR_.
ACa02	17	6663752	.	G	A	.	PASS	XAF1	exo NM_.	missens
ACa02	17	7164992	.	A	C	.	PASS	CLDN7	intrc	NM_.
ACa02	17	7818722	.	C	T	.	PASS	LOC284	ncR	NR_.
ACa02	17	10263519	.	G	A	.	PASS	MYH13	intrc	NM_.
ACa02	17	11584352	rs9806119	C	T	.	PASS	DNAH9	intrc	NM_.
ACa02	17	11725588	rs7571703	C	T	.	PASS	DNAH9	intrc	NM_.
ACa02	17	16649883	rs1460005	T	A	.	PASS	CCDC1	intrc	NM_.
ACa02	17	18365605	rs2168782	A	G	.	PASS	.	inte NR_	dis.
ACa02	17	21906266	.	C	G	.	PASS	FLJ360	(ncR	NR_.
ACa02	17	22253154	rs4362423	T	G	.	PASS	.	inte NM_	dis.
ACa02	17	22253204	rs4283255	A	G	.	PASS	.	inte NM_	dis.
ACa02	17	22260691	rs1403689	T	G	.	PASS	.	inte NM_	dis.
ACa02	17	22260798	rs1405621	C	T	.	PASS	.	inte NM_	dis.
ACa02	17	25982780	.	G	C	.	PASS	.	inte NM_	dis.
ACa02	17	34585231	rs7126069	C	T	.	PASS	TBC1D	intrc	NM_.
ACa02	17	36349205	rs573849	T	C	.	PASS	.	ups NM_.	.
ACa02	17	36350145	rs9693530	T	A	.	PASS	.	inte NM_	dis.
ACa02	17	36371573	.	T	A	.	PASS	LOC44	ncR	NR_.
ACa02	17	36498855	.	C	G	.	PASS	GPR17	intrc	NM_.
ACa02	17	50235479	.	G	A	.	PASS	CA10	UTF	NM_NM.
ACa02	17	60347096	rs7516213	G	T	.	PASS	TBC1D	ncR	NR_.
ACa02	17	63533091	rs7607356	G	A	.	PASS	AXIN2	exo NM_.	synonyr
ACa02	17	75187303	.	C	T	.	PASS	SEC14L	exo NM_.	missens
ACa02	17	77166111	.	G	A	.	PASS	RBFOX	intrc	NM_.
ACa02	17	79005358	rs1138327	C	T	.	PASS	BAIAP2	ncR	NR_.
ACa02	17	80735912	rs8791354	A	T	.	PASS	TBCD	intrc	NM_.
ACa02	18	99943	.	G	C	.	PASS	.	inte NR_	dis.
ACa02	18	14143809	rs8658406	G	A	.	PASS	.	inte NM_	dis.
ACa02	18	14143811	rs8676712	C	T	.	PASS	.	inte NM_	dis.
ACa02	19	1397560	.	C	A	.	PASS	GAMT	intrc	NM_.
ACa02	19	2389762	rs3756184	G	A	.	PASS	.	ups NM_.	.
ACa02	19	2785626	.	G	A	.	PASS	THOP1	UTF	NM_NM.
ACa02	19	2785627	.	G	T	.	PASS	THOP1	UTF	NM_NM.
ACa02	19	7621418	rs5460066	G	A	.	PASS	PNPLA	exo NM_.	missens
ACa02	19	15063677	.	T	C	.	PASS	SLC1A	intrc	NM_.
ACa02	19	33870095	.	C	T	.	PASS	CEBPG	UTF	NM_NM.
ACa02	19	36270883	.	G	A	.	PASS	ARHGA	intrc	NM_.
ACa02	19	37772012	rs2385185	G	C	.	PASS	.	inte NR_	dis.
ACa02	19	37785301	rs7125437	C	G	.	PASS	.	inte NR_	dis.
ACa02	19	39026511	.	G	C	.	PASS	RYR1	intrc	NM_.
ACa02	19	41531320	rs1390553	T	A	.	PASS	.	inte NM_	dis.

ACa02	19	52249443	rs7714460	G	A	.	PASS	FPR1	exon	NM_	missens
ACa02	19	53945837	rs1785512	T	C	.	PASS	TPM3P1	ncR	NR_	.
ACa02	19	55032858	rs9207323	G	A	.	PASS	.	intron	NM_	dis.
ACa02	20	17605301	.	T	G	.	PASS	RRBP1	exon	NM_	missens
ACa02	20	23168959	.	G	A	.	PASS	.	intron	NR_	dis.
ACa02	20	25003624	rs7787265	G	A	.	PASS	ACSS1	exon	NM_	synonym
ACa02	20	25003759	rs3775467	G	A	.	PASS	ACSS1	intron	NM_	.
ACa02	20	29612803	.	C	T	.	PASS	FRG1B	ncR	NR_	.
ACa02	20	42144110	.	C	A	.	PASS	L3MBTL	intron	NM_	.
ACa02	20	44511079	.	G	A	.	PASS	ZSWIM1	intron	NM_	.
ACa02	20	61870764	.	G	A	.	PASS	BIRC7	exon	NM_	missens
ACa02	21	9674240	rs3747993	C	G	.	PASS	.	intron	NON	dis.
ACa02	21	9723335	rs3730978	G	A	.	PASS	.	intron	NON	dis.
ACa02	21	10139840	rs2927801	G	A	.	PASS	.	intron	NR_	dis.
ACa02	21	11026580	rs1996169	T	C	.	PASS	BAGE2	intron	NM_	.
ACa02	21	11047309	rs8789866	G	T	.	PASS	BAGE4	intron	NM_	.
ACa02	21	11114478	rs4358221	G	A	.	PASS	.	intron	NM_	dis.
ACa02	21	11123779	.	T	A	.	PASS	.	intron	NM_	dis.
ACa02	21	34144206	rs8664333	A	C	.	PASS	.	upsilon	NM_	.
ACa02	21	37443162	rs7967544	T	G	.	PASS	LOC100	ncR	NR_	.
ACa02	21	45504131	.	G	A	.	PASS	TRAPP1	exon	NM_	synonym
ACa02	21	47976176	.	G	A	.	PASS	DIP2A	intron	NM_	.
ACa02	21	48103323	.	C	T	.	PASS	.	intron	NM_	dis.
ACa02	22	19748622	.	G	A	.	PASS	TBX1	exon	NM_	missens
ACa02	22	20502354	rs3702204	C	T	.	PASS	.	intron	NM_	dis.
ACa02	22	20502806	rs1119554	G	T	.	PASS	.	intron	NM_	dis.
ACa02	22	21044704	rs1880252	C	T	.	PASS	POM121	ncR	NR_	.
ACa02	22	21663503	.	G	A	.	PASS	.	intron	NR_	dis.
ACa02	X	7811824	rs1637792	G	C	.	PASS	VCX	exon	NM_	missens
ACa02	X	10450722	.	G	A	.	PASS	MID1	intron	NM_	.
ACa02	X	27765544	.	G	A	.	PASS	DCAF8	exon	NM_	missens
ACa02	X	30035259	.	C	A	.	PASS	.	intron	NM_	dis.
ACa02	X	34150216	rs7740495	G	A	.	PASS	FAM47A	exon	NM_	synonym
ACa02	X	47082411	.	G	C	.	PASS	CDK16	intron	NM_	.
ACa02	X	47082419	.	G	T	.	PASS	CDK16	UTR	NM_	NM_
ACa02	X	61685369	.	G	T	.	PASS	.	intron	NON	dis.
ACa02	X	61696571	rs8686279	A	C	.	PASS	.	intron	NON	dis.
ACa02	X	61718935	.	C	T	.	PASS	.	intron	NON	dis.
ACa02	X	61718971	.	G	C	.	PASS	.	intron	NON	dis.
ACa02	X	70357408	.	C	T	.	PASS	MED12	exon	NM_	stopgain
ACa02	X	1.02E+08	.	T	A	.	PASS	GPRAS	exon	NM_	synonym
ACa02	X	1.03E+08	.	G	A	.	PASS	.	intron	NM_	dis.
ACa02	X	1.11E+08	.	A	G	.	PASS	DCX	intron	NM_	.
ACa02	X	1.29E+08	.	C	A	.	PASS	OCRL	UTR	NM_	NM_
ACa02	X	1.3E+08	.	C	T	.	PASS	IGSF1	intron	NM_	.
ACa02	X	1.35E+08	rs9883463	T	G	.	PASS	MAP7D1	intron	NM_	.
ACa02	X	1.38E+08	.	G	C	.	PASS	FGF13	intron	NM_	.
ACa02	X	1.46E+08	rs7821231	G	A	.	PASS	.	upsilon	NR_	.
ACa02	X	1.54E+08	.	G	A	.	PASS	FLNA	intron	NM_	.
ACa02	Y	59015673	rs3769023	C	A	.	PASS	.	intron	NON	dis.
ACa02	MT	759	.	C	T	.	PASS	.	intron	NON	dis.
ACa02	MT	14563	rs1057516	C	T	.	PASS	.	intron	NON	dis.
ACa03	1	674109	.	A	G	.	PASS	.	intron	NR_	dis.
ACa03	1	1644945	.	G	A	.	PASS	CDK11A	intron	NM_	.

ACa03	1	3644226	.	C	T	.	PASS	TP73	exon	NM_	missens
ACa03	1	12423089	rs7579432	C	T	.	PASS	VPS13E	intrc	NM_	.
ACa03	1	16890922	rs5565927	T	C	.	PASS	NBPF1	intrc	NM_	.
ACa03	1	16891696	rs7619917	T	C	.	PASS	NBPF1	intrc	NM_	.
ACa03	1	16893407	rs663828	T	C	.	PASS	NBPF1	intrc	NM_	.
ACa03	1	16908275	rs646524	T	G	.	PASS	NBPF1	intrc	NM_	.
ACa03	1	16931160	rs4596945	G	C	.	PASS	NBPF1	intrc	NM_	.
ACa03	1	16957414	rs2296161	C	T	.	PASS	.	ups	NR_	.
ACa03	1	19549286	rs5616387	C	T	.	PASS	EMC1	exon	NM_	missens
ACa03	1	37947479	.	G	A	.	PASS	ZC3H12	intrc	NM_	.
ACa03	1	45472818	rs9490484	G	T	.	PASS	HECTD1	intrc	NM_	.
ACa03	1	63070550	.	T	G	.	PASS	ANGPT1	UTF	NM_NM	.
ACa03	1	75097583	.	G	T	.	PASS	ERICH3	exon	NM_	missens
ACa03	1	76252058	.	C	T	.	PASS	RABGG	intrc	NM_	.
ACa03	1	1.16E+08	.	G	A	.	PASS	NHLH2	exon	NM_	missens
ACa03	1	1.43E+08	rs1409433	T	C	.	PASS	.	inte	NR_dis	.
ACa03	1	1.43E+08	rs2022010	G	A	.	PASS	.	inte	NR_dis	.
ACa03	1	1.43E+08	rs7763460	C	G	.	PASS	.	ncR	NR_	.
ACa03	1	1.43E+08	rs1457064	G	A	.	PASS	.	inte	NR_dis	.
ACa03	1	1.44E+08	.	C	G	.	PASS	NBPF2C	intrc	NM_	.
ACa03	1	1.45E+08	rs1148852	G	C	.	PASS	NBPF9,	intrc	NM_	.
ACa03	1	1.45E+08	rs3746294	A	G	.	PASS	NBPF2C	intrc	NM_	.
ACa03	1	1.45E+08	rs3675661	C	G	.	PASS	NBPF2E	ncR	NR_	.
ACa03	1	1.48E+08	rs7986155	T	A	.	PASS	NBPF8	intrc	NM_	.
ACa03	1	1.56E+08	rs7593611	G	A	.	PASS	MEX3A	exon	NM_	synonyr
ACa03	1	1.59E+08	.	G	T	.	PASS	OR6P1	exon	NM_	missens
ACa03	1	2.01E+08	.	G	C	.	PASS	LAD1	intrc	NM_	.
ACa03	1	2.03E+08	rs7508890	G	A	.	PASS	PPFIA4	exon	NM_	missens
ACa03	1	2.26E+08	rs1454313	A	G	.	PASS	LEFTY1	exon	NM_	missens
ACa03	1	2.48E+08	rs3720052	C	T	.	PASS	OR6F1	exon	NM_	missens
ACa03	1	2.49E+08	rs8789457	A	G	.	PASS	.	ups	NM_	.
ACa03	2	17773489	.	C	A	.	PASS	VSNL1	exon	NM_	missens
ACa03	2	77749254	.	T	A	.	PASS	LRRTM1	UTF	NM_NM	.
ACa03	2	80530489	.	G	A	.	PASS	LRRTM1	exon	NM_	synonyr
ACa03	2	87131091	rs2013675	G	A	.	PASS	.	inte	NR_dis	.
ACa03	2	88071329	.	G	C	.	PASS	RGPD1	intrc	NM_	.
ACa03	2	1.38E+08	.	T	C	.	PASS	.	inte	NM_dis	.
ACa03	2	1.71E+08	rs1473449	G	T	.	PASS	UBR3	intrc	NM_	.
ACa03	2	1.82E+08	.	C	T	.	PASS	ITGA4	exon	NM_	missens
ACa03	2	2.16E+08	.	C	T	.	PASS	ATIC	splic	NM_NM	.
ACa03	2	2.43E+08	.	C	A	.	PASS	.	inte	NR_dis	.
ACa03	3	47297292	rs1050893	G	C	.	PASS	KIF9	intrc	NM_	.
ACa03	3	47297297	.	C	T	.	PASS	KIF9	intrc	NM_	.
ACa03	3	55108112	rs1178604	G	A	.	PASS	CACNA	intrc	NM_	.
ACa03	3	74663610	rs3744125	G	A	.	PASS	.	inte	NM_dis	.
ACa03	3	77459682	rs1451899	C	T	.	PASS	ROBO2	intrc	NM_	.
ACa03	3	1.27E+08	.	G	A	.	PASS	MGLL	intrc	NM_	.
ACa03	3	1.31E+08	.	A	C	.	PASS	NUDT1E	UTF	NM_NM	.
ACa03	3	1.37E+08	.	A	C	.	PASS	IL20RB	intrc	NM_	.
ACa03	3	1.38E+08	.	T	G	.	PASS	ARMC8	exon	NM_	synonyr
ACa03	3	1.79E+08	rs1057519	G	A	.	PASS	PIK3CA	exon	NM_	missens
ACa03	3	1.79E+08	rs1048860	G	A	.	PASS	PIK3CA	exon	NM_	missens
ACa03	3	1.97E+08	.	C	A	.	PASS	FYTDD1	intrc	NM_	.
ACa03	4	2306307	rs3725657	G	A	.	PASS	ZFYVE2	exon	NM_	missens

ACa03	4	6080728	.	A	G	.	PASS	JAKMIP	splinc	NM_NV	.
ACa03	4	9245302	rs8796734	A	G	.	PASS	.	ups	NM_	.
ACa03	4	49261257	rs5941177	C	T	.	PASS	.	intrc	NM_dis	.
ACa03	4	73013446	.	C	T	.	PASS	NPFFR2	exo	NM_	missens
ACa03	4	1.68E+08	.	A	C	.	PASS	SPOCK	intrc	NM_	.
ACa03	5	34180054	rs4288119	G	A	.	PASS	.	intrc	NR_dis	.
ACa03	5	34183130	rs8669155	C	T	.	PASS	.	intrc	NR_dis	.
ACa03	5	1.34E+08	rs7765625	G	A	.	PASS	JADE2	exo	NM_	missens
ACa03	5	1.71E+08	rs5593800	C	T	.	PASS	.	intrc	NM_dis	.
ACa03	5	1.77E+08	.	G	A	.	PASS	.	intrc	NR_dis	.
ACa03	6	3138322	.	A	C	.	PASS	BPHL	intrc	NM_	.
ACa03	6	31324628	rs1513411	G	C	.	PASS	HLA-B	exo	NM_	missens
ACa03	6	31852180	.	C	A	.	PASS	EHMT2	exo	NM_	missens
ACa03	6	35391921	rs7668272	C	T	.	PASS	PPARD	exo	NM_	missens
ACa03	6	47251575	.	G	A	.	PASS	TNFRSF	intrc	NM_	.
ACa03	6	52617512	.	T	A	.	PASS	GSTA2	intrc	NM_	.
ACa03	6	75904503	.	T	G	.	PASS	COL12A	intrc	NM_	.
ACa03	7	11860631	.	C	T	.	PASS	THSD7B	intrc	NM_	.
ACa03	7	25208115	.	C	T	.	PASS	C7orf31	intrc	NM_	.
ACa03	7	43590116	.	G	A	.	PASS	HECW1	exo	NM_	missens
ACa03	7	44191820	.	T	G	.	PASS	GCK	intrc	NM_	.
ACa03	7	56439590	.	C	T	.	PASS	.	intrc	NM_dis	.
ACa03	7	56871105	rs1439657	G	A	.	PASS	.	intrc	NR_dis	.
ACa03	7	56886784	.	C	T	.	PASS	.	intrc	NR_dis	.
ACa03	7	56888186	rs8799634	G	T	.	PASS	.	intrc	NR_dis	.
ACa03	7	56891058	.	A	G	.	PASS	.	intrc	NR_dis	.
ACa03	7	56891160	rs2002309	C	G	.	PASS	.	intrc	NR_dis	.
ACa03	7	56891593	.	C	A	.	PASS	.	intrc	NR_dis	.
ACa03	7	62956286	rs2018986	T	C	.	PASS	.	intrc	NR_dis	.
ACa03	7	75128472	.	C	T	.	PASS	SPDYE1	intrc	NM_	.
ACa03	7	75128489	.	C	T	.	PASS	SPDYE1	intrc	NM_	.
ACa03	7	76166588	.	G	A	.	PASS	.	intrc	NM_dis	.
ACa03	7	79842137	.	G	A	.	PASS	GNAI1	exo	NM_	missens
ACa03	7	92731585	.	C	T	.	PASS	SAMD9	exo	NM_	missens
ACa03	7	95216347	rs2676016	C	T	.	PASS	PDK4	exo	NM_	missens
ACa03	7	1E+08	rs1826826	G	A	.	PASS	NYAP1	intrc	NM_	.
ACa03	7	1.17E+08	rs1409779	C	T	.	PASS	ST7	intrc	NM_	.
ACa03	7	1.44E+08	.	A	C	.	PASS	NOBOX	intrc	NM_	.
ACa03	7	1.52E+08	.	G	C	.	PASS	KMT2C	intrc	NM_	.
ACa03	7	1.59E+08	rs7962502	C	T	.	PASS	.	intrc	NM_dis	.
ACa03	8	6371222	.	G	C	.	PASS	ANGPT1	exo	NM_	synonym
ACa03	8	7468654	rs3763515	G	A	.	PASS	.	intrc	NR_dis	.
ACa03	8	7885536	rs5673338	T	A	.	PASS	.	intrc	NR_dis	.
ACa03	8	17942458	.	C	G	.	PASS	LOC101	ncR	NR_	.
ACa03	8	92346512	.	C	T	.	PASS	SLC26A	intrc	NM_	.
ACa03	8	1.01E+08	.	G	A	.	PASS	VPS13E	intrc	NM_	.
ACa03	8	1.33E+08	rs5609552	T	C	.	PASS	KCNQ3	intrc	NM_	.
ACa03	9	20978329	.	G	A	.	PASS	FOCAD	intrc	NM_	.
ACa03	9	34658334	rs1463382	C	T	.	PASS	IL11RA	intrc	NM_	.
ACa03	9	46843601	rs7495042	G	A	.	PASS	.	ups	NR_	.
ACa03	9	66516655	.	C	T	.	PASS	.	ncR	NR_	.
ACa03	9	67274240	rs7714176	G	A	.	PASS	AQP7P	ncR	NR_	.
ACa03	9	68415355	rs4452915	C	T	.	PASS	.	intrc	NM_dis	.
ACa03	9	68415359	rs7492487	T	C	.	PASS	.	intrc	NM_dis	.

ACa03	9	70993081	rs391727	G	C	.	PASS	PGM5	intrc	NM_	.	.
ACa03	9	74622718	.	G	A	.	PASS	.	inte	NM_	dis	.
ACa03	9	86900782	.	G	T	.	PASS	SLC28A	intrc	NM_	.	.
ACa03	9	1.36E+08	rs2855049	T	C	.	PASS	CEL	intrc	NM_	.	.
ACa03	9	1.39E+08	rs7771119	G	A	.	PASS	NOTCH	exo	NM_	.	synonyr
ACa03	10	12802960	.	G	A	.	PASS	CAMK1	exo	NM_	.	missens
ACa03	10	18430225	.	G	A	.	PASS	CACNB	intrc	NM_	.	.
ACa03	10	35858114	rs7747854	G	A	.	PASS	CCNY	UTF	NM_	NM_	.
ACa03	10	37442393	rs1759035	A	G	.	PASS	ANKRD	intrc	NM_	.	.
ACa03	10	49200211	rs3125109	G	A	.	PASS	.	inte	NR_	dis	.
ACa03	10	72539624	.	G	A	.	PASS	TBATA	intrc	NM_	.	.
ACa03	10	75854181	rs2018088	G	A	.	PASS	VCL	exo	NM_	.	missens
ACa03	10	85841351	.	A	G	.	PASS	.	inte	NM_	dis	.
ACa03	10	88988731	rs3128226	C	G	.	PASS	NUTM2	intrc	NM_	.	.
ACa03	10	98510597	.	G	A	.	PASS	.	inte	NM_	dis	.
ACa03	10	1.2E+08	.	C	G	.	PASS	RAB11F	UTF	NM_	NM_	.
ACa03	10	1.24E+08	rs5495128	C	T	.	PASS	.	inte	NM_	dis	.
ACa03	10	1.26E+08	.	C	A	.	PASS	CPXM2	exo	NM_	.	missens
ACa03	11	44950537	.	G	T	.	PASS	TSPAN	intrc	NM_	.	.
ACa03	11	66512484	.	C	T	.	PASS	C11orf8	intrc	NM_	.	.
ACa03	11	89665513	.	A	T	.	PASS	MIR569	ncR	NR_	.	.
ACa03	12	89716	rs7827727	T	C	.	PASS	LOC10C	ncR	NR_	.	.
ACa03	12	4758160	.	C	A	.	PASS	AKAP3	UTF	NM_	NM_	.
ACa03	12	6709098	.	G	C	.	PASS	CHD4	exo	NM_	.	missens
ACa03	12	6778145	.	G	C	.	PASS	ZNF384	intrc	NM_	.	.
ACa03	12	8327717	.	C	A	.	PASS	ZNF705	intrc	NM_	.	.
ACa03	12	25398284	rs1219135	C	T	.	PASS	KRAS	exo	NM_	.	missens
ACa03	12	26848567	rs3731379	C	T	.	PASS	ITPR2	exo	NM_	.	missens
ACa03	12	31242433	rs4031316	T	C	.	PASS	DDX11	intrc	NM_	.	.
ACa03	12	44124214	rs5661873	C	T	.	PASS	PUS7L	exo	NM_	.	missens
ACa03	12	50790087	rs9815586	G	A	.	PASS	FAM18E	exo	NM_	.	stopgair
ACa03	12	56231265	rs1409167	G	A	.	PASS	MMP19	intrc	NM_	.	.
ACa03	12	1.23E+08	.	C	A	.	PASS	HIP1R	intrc	NM_	.	.
ACa03	12	1.24E+08	.	G	A	.	PASS	DNAH1	intrc	NM_	.	.
ACa03	12	1.31E+08	rs1707911	T	C	.	PASS	.	inte	NM_	dis	.
ACa03	12	1.33E+08	rs7662808	G	A	.	PASS	DDX51	exo	NM_	.	missens
ACa03	13	19539354	rs9079318	C	T	.	PASS	.	inte	NR_	dis	.
ACa03	13	28367362	.	A	C	.	PASS	GSX1	intrc	NM_	.	.
ACa03	13	28623894	rs7666774	G	A	.	PASS	FLT3	exo	NM_	.	stopgair
ACa03	13	36410222	.	C	T	.	PASS	DCLK1	exo	NM_	.	missens
ACa03	13	1.13E+08	.	C	T	.	PASS	SPACA	intrc	NM_	.	.
ACa03	14	19563657	rs2018046	T	G	.	PASS	LOC101	ncR	NR_	.	.
ACa03	14	19624885	rs4982820	G	A	.	PASS	.	inte	NM_	dis	.
ACa03	14	19644287	rs2005137	C	T	.	PASS	.	inte	NM_	dis	.
ACa03	14	19694665	.	T	G	.	PASS	.	inte	NR_	dis	.
ACa03	14	20106847	.	T	C	.	PASS	.	inte	NM_	dis	.
ACa03	14	20148329	rs3763109	C	T	.	PASS	.	inte	NM_	dis	.
ACa03	14	22434146	.	G	T	.	PASS	.	inte	NM_	dis	.
ACa03	14	24523589	rs7592315	G	A	.	PASS	LRRC1	intrc	NM_	.	.
ACa03	14	1.06E+08	.	T	A	.	PASS	.	inte	NM_	dis	.
ACa03	14	1.06E+08	rs7473295	G	A	.	PASS	.	inte	NR_	dis	.
ACa03	15	20216196	rs5686085	C	T	.	PASS	.	inte	NON	dis	.
ACa03	15	20448387	rs5761409	G	C	.	PASS	.	inte	NON	dis	.
ACa03	15	20756984	rs3684417	G	T	.	PASS	.	inte	NM_	dis	.



ACa03	15	21137759	rs1130343	A	C	.	PASS	.	inte NR_dis	.
ACa03	15	21370826	rs1995519	C	G	.	PASS	.	inte NR_dis	.
ACa03	15	22546388	rs1836337	A	G	.	PASS	.	ups NR_	.
ACa03	15	23478648	rs3700524	G	A	.	PASS	.	intrc NM_	.
ACa03	15	23606350	rs3766397	G	A	.	PASS	GOLGA	ncR NR_	.
ACa03	15	30659755	.	G	A	.	PASS	CHRFA	intrc NM_	.
ACa03	15	41136788	rs5573362	C	T	.	PASS	SPINT1	exo NM_	synonyr
ACa03	15	42646731	.	C	T	.	PASS	.	dow NM_	.
ACa03	15	72954595	rs7443087	A	G	.	PASS	GOLGA	exo NM_	missens
ACa03	15	82636965	.	G	A	.	PASS	GOLGA	intrc NM_	.
ACa03	16	1614158	.	T	C	.	PASS	IFT140	exo NM_	missens
ACa03	16	3119290	.	A	T	.	PASS	IL32	exo NM_	synonyr
ACa03	16	12571730	.	C	T	.	PASS	SNX29	intrc NM_	.
ACa03	16	29115328	.	G	A	.	PASS	RRN3P'	ncR NR_	.
ACa03	16	46387441	rs2887413	C	G	.	PASS	.	inte NON dis	.
ACa03	16	46388702	rs4966607	C	T	.	PASS	.	inte NON dis	.
ACa03	16	46389631	rs4359628	T	G	.	PASS	.	inte NON dis	.
ACa03	16	46391941	rs4249500	G	A	.	PASS	.	inte NON dis	.
ACa03	16	46392009	rs4372866	C	T	.	PASS	.	inte NON dis	.
ACa03	16	46392046	rs4396558	T	A	.	PASS	.	inte NON dis	.
ACa03	16	46392187	rs4249160	C	T	.	PASS	.	inte NON dis	.
ACa03	16	46394150	rs4967780	G	C	.	PASS	.	inte NON dis	.
ACa03	16	46394809	rs7203681	C	T	.	PASS	.	inte NON dis	.
ACa03	16	46400019	rs7826866	G	A	.	PASS	.	inte NON dis	.
ACa03	16	46401863	rs4249045	T	C	.	PASS	.	inte NON dis	.
ACa03	16	46401949	rs7188365	G	T	.	PASS	.	inte NON dis	.
ACa03	16	46402061	rs9972801	A	G	.	PASS	.	inte NON dis	.
ACa03	16	46402080	rs4249048	G	C	.	PASS	.	inte NON dis	.
ACa03	16	46402947	rs7823469	C	A	.	PASS	.	inte NON dis	.
ACa03	16	46405534	rs1393031	A	G	.	PASS	.	inte NON dis	.
ACa03	16	46406765	rs4090116	C	T	.	PASS	.	inte NON dis	.
ACa03	16	46406884	rs4090115	C	T	.	PASS	.	inte NON dis	.
ACa03	16	46407723	rs4459567	C	T	.	PASS	.	inte NON dis	.
ACa03	16	46407894	rs6133865	A	T	.	PASS	.	inte NON dis	.
ACa03	16	46408354	rs4341908	A	C	.	PASS	.	inte NON dis	.
ACa03	16	46408513	rs4451975	A	C	.	PASS	.	inte NON dis	.
ACa03	16	46420402	rs7187636	T	C	.	PASS	.	inte NON dis	.
ACa03	16	70020483	.	C	A	.	PASS	PDXDC	ncR NR_	.
ACa03	16	70154480	rs2004697	A	G	.	PASS	PDPR	exo NM_	missens
ACa03	16	70473074	.	A	C	.	PASS	.	ups NM_	.
ACa03	16	89858338	.	C	G	.	PASS	FANCA	exo NM_	missens
ACa03	16	89902722	.	C	A	.	PASS	SPIRE2	intrc NM_	.
ACa03	17	1715169	.	T	G	.	PASS	SMYD4	intrc NM_	.
ACa03	17	9862686	.	G	A	.	PASS	GAS7	UTF NM_NV	.
ACa03	17	17942355	.	G	T	.	PASS	ATPAF2	UTF NM_NV	.
ACa03	17	22253129	rs1440233	G	A	.	PASS	.	inte NM_dis	.
ACa03	17	22253154	rs4362423	T	G	.	PASS	.	inte NM_dis	.
ACa03	17	34813271	rs1409172	A	G	.	PASS	.	inte NM_dis	.
ACa03	17	36281954	rs3737234	C	A	.	PASS	.	inte NR_dis	.
ACa03	17	36636008	.	C	T	.	PASS	ARHGA	exo NM_	missens
ACa03	17	36646848	.	A	G	.	PASS	ARHGA	intrc NM_	.
ACa03	17	38126930	rs8679073	A	T	.	PASS	GSDMA	intrc NM_	.
ACa03	17	42646434	.	G	A	.	PASS	.	inte NM_dis	.
ACa03	17	44144162	.	G	A	.	PASS	KANSL1	intrc NM_	.

ACa03	17	64881187	rs7651139	C	T	.	PASS	CACNG	exo NM_	missens
ACa03	17	73592837	rs7754213	G	A	.	PASS	MYO15l	ncR NR_	.
ACa03	17	74898771	.	G	A	.	PASS	MGAT5l	intrc NM_	.
ACa03	17	75303430	rs5408783	C	T	.	PASS	9-Sep	intrc NM_	.
ACa03	17	79639149	.	G	A	.	PASS	CCDC1	exo NM_	synonyr
ACa03	17	79769449	.	C	T	.	PASS	GCGR	intrc NM_	.
ACa03	17	80039454	rs3732207	C	T	.	PASS	FASN	intrc NM_	.
ACa03	18	12264368	.	C	T	.	PASS	CIDEA	exo NM_	synonyr
ACa03	19	4544051	rs7575217	C	T	.	PASS	SEMA6l	exo NM_	synonyr
ACa03	19	6415948	.	G	A	.	PASS	KHSRP	intrc NM_	.
ACa03	19	7685588	.	G	T	.	PASS	XAB2	intrc NM_	.
ACa03	19	7999266	.	G	T	.	PASS	TIMM44	intrc NM_	.
ACa03	19	8173984	.	C	A	.	PASS	FBN3	intrc NM_	.
ACa03	19	8880680	rs1492924	G	A	.	PASS	.	inte NM_dis	.
ACa03	19	33418071	rs1999730	T	C	.	PASS	CEP89	intrc NM_	.
ACa03	19	37780243	rs3762437	G	T	.	PASS	.	inte NR_dis	.
ACa03	19	37785301	rs7125437	C	G	.	PASS	.	inte NR_dis	.
ACa03	19	41018712	.	C	T	.	PASS	SPTBN2	exo NM_	synonyr
ACa03	19	41893613	.	A	C	.	PASS	EXOSC	intrc NM_	.
ACa03	19	43787795	.	C	G	.	PASS	.	inte NM_dis	.
ACa03	19	48558299	.	C	A	.	PASS	PLA2G4	exo NM_	missens
ACa03	19	49551897	rs6212787	C	A	.	PASS	CGB8	intrc NM_	.
ACa03	19	51331278	.	A	C	.	PASS	KLK15	intrc NM_	.
ACa03	19	53945648	rs5492748	T	C	.	PASS	TPM3P1	ncR NR_	.
ACa03	19	54225561	.	T	C	.	PASS	.	dow NR_	.
ACa03	19	54404000	rs7600928	G	A	.	PASS	PRKCG	exo NM_	synonyr
ACa03	19	58151254	.	G	T	.	PASS	ZNF211	intrc NM_	.
ACa03	19	58385467	rs7704038	T	G	.	PASS	ZNF814	exo NM_	missens
ACa03	19	59083815	.	C	T	.	PASS	MZF1-A	ncR NR_	.
ACa03	20	2380513	.	C	T	.	PASS	TGM6	intrc NM_	.
ACa03	20	5909667	.	G	T	.	PASS	.	inte NM_dis	.
ACa03	20	26174148	.	C	A	.	PASS	MIR663	ncR NR_	.
ACa03	20	29628491	rs9569348	A	G	.	PASS	FRG1B	ncR NR_	.
ACa03	20	44099904	.	C	A	.	PASS	WFDC2	intrc NM_	.
ACa03	21	10535397	rs3772733	C	T	.	PASS	.	inte NR_dis	.
ACa03	21	11059912	rs9184726	C	T	.	PASS	BAGE1E	intrc NM_	.
ACa03	21	11114515	rs9266067	A	G	.	PASS	.	inte NM_dis	.
ACa03	21	11164201	.	G	A	.	PASS	.	inte NM_dis	.
ACa03	21	34954231	.	C	T	.	PASS	DONSO	intrc NM_	.
ACa03	21	37443162	rs7967544	T	G	.	PASS	LOC10C	ncR NR_	.
ACa03	22	16405002	rs2019683	C	T	.	PASS	.	inte NM_dis	.
ACa03	22	21349411	rs7543647	C	T	.	PASS	LZTR1	intrc NM_	.
ACa03	22	28392112	rs5711604	G	A	.	PASS	TTC28-	ncR NR_	.
ACa03	22	29804684	rs1856371	C	T	.	PASS	.	inte NM_dis	.
ACa03	22	35811911	rs3713772	C	T	.	PASS	MCM5	exo NM_	synonyr
ACa03	22	38621350	.	G	A	.	PASS	TMEM1	intrc NM_	.
ACa03	22	39218542	.	G	A	.	PASS	NPTXR	UTF NM_NM	.
ACa03	22	48023174	.	C	A	.	PASS	LINC001	ncR NR_	.
ACa03	X	1010738	rs6644312	G	T	.	PASS	.	inte NM_dis	.
ACa03	X	9791221	rs2010857	T	C	.	PASS	SHROC	intrc NM_	.
ACa03	X	10062212	.	C	T	.	PASS	WWC3	exo NM_	missens
ACa03	X	38008990	rs7457127	C	T	.	PASS	SRPX	exo NM_	missens
ACa03	X	48544044	.	G	A	.	PASS	WAS	intrc NM_	.
ACa03	X	49069162	rs7825308	G	A	.	PASS	CACNA	exo NM_	missens

ACa03	X	61687463	.	G	C	.	PASS	.	inter	NON dis.
ACa03	X	61712615	.	T	C	.	PASS	.	inter	NON dis.
ACa03	X	61712692	rs7756689	A	G	.	PASS	.	inter	NON dis.
ACa03	X	72797180	rs2486782	A	T	.	PASS	CHIC1	intrc	NM_.
ACa03	X	1.12E+08	.	G	A	.	PASS	AMOT	exo	NM_ missens
ACa03	X	1.2E+08	.	T	C	.	PASS	C1GAL1	exo	NM_ missens
ACa03	X	1.24E+08	.	C	T	.	PASS	.	ups	NM_.
ACa03	X	1.39E+08	rs1016097	C	A	.	PASS	MCF2	intrc	NM_.
ACa03	X	1.52E+08	.	G	A	.	PASS	NSDHL	intrc	NM_.
ACa03	X	1.55E+08	rs7802961	G	A	.	PASS	.	inter	NM_dis.
ACa03	MT	4451	.	T	C	.	PASS	.	inter	NON dis.
ACa03	MT	5777	rs3868289	G	A	.	PASS	.	inter	NON dis.
ACa03	MT	12474	.	C	A	.	PASS	.	inter	NON dis.
ACa04	1	1396169	rs7466465	C	T	.	PASS	ATAD3C	exo	NM_ synonymr
ACa04	1	1582548	.	C	G	.	PASS	CDK11E	intrc	NM_.
ACa04	1	11710616	rs1454709	C	T	.	PASS	FBXO2	exo	NM_ missens
ACa04	1	11740656	.	C	T	.	PASS	MAD2L2	exo	NM_ missens
ACa04	1	12921635	rs1440990	G	A	.	PASS	PRAME	UTF	NM_NM.
ACa04	1	12936256	rs1157686	G	C	.	PASS	.	inter	NM_dis.
ACa04	1	17007400	.	T	A	.	PASS	.	ups	NR_.
ACa04	1	17183526	rs7511577	C	T	.	PASS	.	inter	NM_dis.
ACa04	1	21048338	.	G	C	.	PASS	SH2D5	exo	NM_ missens
ACa04	1	23743493	rs5551428	C	T	.	PASS	TCEA3	intrc	NM_.
ACa04	1	24657930	rs1422489	G	A	.	PASS	GRHL3	exo	NM_ missens
ACa04	1	25616915	.	G	A	.	PASS	RHD	intrc	NM_.
ACa04	1	32160745	.	G	A	.	PASS	COL16A1	intrc	NM_.
ACa04	1	33402492	rs7753177	G	A	.	PASS	RNF19E	exo	NM_ unknow
ACa04	1	38003606	.	C	T	.	PASS	SNIP1	exo	NM_ missens
ACa04	1	39906714	.	G	C	.	PASS	MACF1	exo	NM_ missens
ACa04	1	39906811	.	G	T	.	PASS	MACF1	intrc	NM_.
ACa04	1	39907024	.	G	T	.	PASS	MACF1	intrc	NM_.
ACa04	1	39908309	.	G	C	.	PASS	MACF1	intrc	NM_.
ACa04	1	41583066	.	A	G	.	PASS	SCMH1	intrc	NM_.
ACa04	1	44595584	rs7580073	C	T	.	PASS	KLF17	exo	NM_ missens
ACa04	1	46707594	rs8662033	C	A	.	PASS	.	inter	NM_dis.
ACa04	1	54656279	.	C	T	.	PASS	CYB5R1	intrc	NM_.
ACa04	1	62503734	.	C	G	.	PASS	INADL	intrc	NM_.
ACa04	1	70144225	.	G	A	.	PASS	.	inter	NR_dis.
ACa04	1	74790728	.	G	A	.	PASS	FPGT-T	intrc	NM_.
ACa04	1	93222477	.	G	A	.	PASS	EVI5	intrc	NM_.
ACa04	1	94484293	.	C	A	.	PASS	ABCA4	intrc	NM_.
ACa04	1	99225562	.	G	A	.	PASS	SNX7	intrc	NM_.
ACa04	1	1.11E+08	rs7598590	G	A	.	PASS	CD53	intrc	NM_.
ACa04	1	1.13E+08	.	G	A	.	PASS	LOC643	exo	NM_ synonymr
ACa04	1	1.21E+08	rs2004173	G	A	.	PASS	FCGR11	UTF	NM_NM.
ACa04	1	1.43E+08	rs1043712	C	T	.	PASS	.	inter	NON dis.
ACa04	1	1.43E+08	.	C	T	.	PASS	.	inter	NR_dis.
ACa04	1	1.43E+08	rs2002777	G	A	.	PASS	.	inter	NR_dis.
ACa04	1	1.43E+08	rs7506054	A	G	.	PASS	.	inter	NR_dis.
ACa04	1	1.43E+08	rs1694653	C	G	.	PASS	.	inter	NR_dis.
ACa04	1	1.45E+08	rs4125366	A	T	.	PASS	NBPF2C	intrc	NM_.
ACa04	1	1.45E+08	.	T	G	.	PASS	NBPF2f	ncR	NR_.
ACa04	1	1.46E+08	.	A	G	.	PASS	NBPF2f	ncR	NR_.
ACa04	1	1.48E+08	rs6181199	G	A	.	PASS	NBPF11	intrc	NM_.

ACa04	1	1.48E+08	rs8799948	C	A	.	PASS	NBPF8	intrc	NM_	.	.
ACa04	1	1.48E+08	rs482979	C	T	.	PASS	NBPF2 $\epsilon$	ncR	NR_	.	.
ACa04	1	1.49E+08	rs2021032	T	G	.	PASS	NBPF2 $\epsilon$	ncR	NR_	.	.
ACa04	1	1.49E+08	rs2009700	C	G	.	PASS	NBPF2 $\epsilon$	ncR	NR_	.	.
ACa04	1	1.49E+08	rs2003739	G	A	.	PASS	NBPF2 $\epsilon$	ncR	NR_	.	.
ACa04	1	1.49E+08	rs3705433	G	A	.	PASS	NBPF2 $\epsilon$	ncR	NR_	.	.
ACa04	1	1.49E+08	rs226753	G	C	.	PASS	NBPF2 $\epsilon$	ncR	NR_	.	.
ACa04	1	1.49E+08	.	G	A	.	PASS	NBPF2 $\epsilon$	ncR	NR_	.	.
ACa04	1	1.49E+08	rs2787777	C	T	.	PASS	.	inte	NR_dis	.	.
ACa04	1	1.53E+08	rs3750007	T	A	.	PASS	.	dow	NM_	.	.
ACa04	1	1.54E+08	.	C	T	.	PASS	.	inte	NM_dis	.	.
ACa04	1	1.54E+08	.	C	G	.	PASS	INTS3	intrc	NM_	.	.
ACa04	1	1.54E+08	.	C	A	.	PASS	SLC27A	intrc	NM_	.	.
ACa04	1	1.55E+08	.	A	T	.	PASS	SLC50A	exo	NM_	synonyr	.
ACa04	1	1.56E+08	.	G	T	.	PASS	ARHGE	intrc	NM_	.	.
ACa04	1	1.57E+08	.	C	T	.	PASS	PEAR1	intrc	NM_	.	.
ACa04	1	1.57E+08	.	C	T	.	PASS	PEAR1	exo	NM_	synonyr	.
ACa04	1	1.73E+08	.	C	T	.	PASS	TNFSF $\zeta$	intrc	NM_	.	.
ACa04	1	1.97E+08	.	C	G	.	PASS	ASPM	exo	NM_	missens	.
ACa04	1	2.01E+08	rs1997462	G	A	.	PASS	KIF21B	intrc	NM_	.	.
ACa04	1	2.04E+08	rs3692540	G	A	.	PASS	PLEKH $\gamma$	exo	NM_	missens	.
ACa04	1	2.21E+08	.	G	A	.	PASS	C1orf11	exo	NM_	missens	.
ACa04	1	2.24E+08	.	C	T	.	PASS	CAPN2	exo	NM_	missens	.
ACa04	1	2.24E+08	.	G	A	.	PASS	.	inte	NM_dis	.	.
ACa04	1	2.29E+08	rs7793949	G	A	.	PASS	OBSCN	intrc	NM_	.	.
ACa04	2	9347094	.	C	T	.	PASS	ASAP2	UTF	NM_NV	.	.
ACa04	2	9991574	.	C	G	.	PASS	TAF1B	intrc	NM_	.	.
ACa04	2	24290671	.	G	C	.	PASS	SF3B6	exo	NM_	synonyr	.
ACa04	2	27445559	.	G	C	.	PASS	CAD	intrc	NM_	.	.
ACa04	2	27763222	.	C	A	.	PASS	.	inte	NM_dis	.	.
ACa04	2	44547496	.	C	T	.	PASS	SLC3A1	exo	NM_	synonyr	.
ACa04	2	44547872	.	C	T	.	PASS	SLC3A1	UTF	NM_NV	.	.
ACa04	2	46787755	.	A	G	.	PASS	RHOQ	intrc	NM_	.	.
ACa04	2	65729306	.	C	G	.	PASS	.	inte	NM_dis	.	.
ACa04	2	69009288	.	C	G	.	PASS	ARHGA	intrc	NM_	.	.
ACa04	2	71839619	.	C	T	.	PASS	DYSF	intrc	NM_	.	.
ACa04	2	85570645	rs3764475	C	T	.	PASS	RETSA	intrc	NM_	.	.
ACa04	2	86362060	rs1425097	C	T	.	PASS	PTCD3	exo	NM_	synonyr	.
ACa04	2	86440603	.	C	T	.	PASS	.	dow	NM_	.	.
ACa04	2	86851036	.	G	A	.	PASS	RNF10 $\beta$	intrc	NM_	.	.
ACa04	2	87211799	rs8671368	A	G	.	PASS	RGPD2	intrc	NM_	.	.
ACa04	2	87211809	rs8674281	C	A	.	PASS	RGPD1	intrc	NM_	.	.
ACa04	2	87276887	.	C	T	.	PASS	LOC28 $\epsilon$	ncR	NR_	.	.
ACa04	2	90473577	rs1210470	G	A	.	PASS	.	inte	NR_dis	.	.
ACa04	2	95858692	rs2015850	T	C	.	PASS	.	inte	NM_dis	.	.
ACa04	2	1.03E+08	.	C	T	.	PASS	SLC9A2	exo	NM_	synonyr	.
ACa04	2	1.12E+08	.	G	A	.	PASS	ACOXL	intrc	NM_	.	.
ACa04	2	1.13E+08	.	G	C	.	PASS	POLR1 $\beta$	intrc	NM_	.	.
ACa04	2	1.19E+08	rs6216365	A	T	.	PASS	INSIG2	intrc	NM_	.	.
ACa04	2	1.28E+08	.	C	T	.	PASS	IWS1	UTF	NM_NV	.	.
ACa04	2	1.31E+08	.	C	T	.	PASS	POTEF	intrc	NM_	.	.
ACa04	2	1.31E+08	rs1839843	T	C	.	PASS	POTEF	exo	NM_	synonyr	.
ACa04	2	1.32E+08	rs2001821	A	G	.	PASS	POTEE	intrc	NM_	.	.
ACa04	2	1.32E+08	.	C	T	.	PASS	LOC401	ncR	NR_	.	.

ACa04	2	1.54E+08	G	T	PASS	RPRM	UTF	NM_NV	.	
ACa04	2	1.6E+08	G	C	PASS	WDSUE	intrc	NM_	.	
ACa04	2	1.78E+08	T	G	PASS	.	inte	NM_dis	.	
ACa04	2	1.8E+08	C	T	PASS	CCDC1	exo	NM_	missens	
ACa04	2	1.98E+08	T	G	PASS	GTF3C	intrc	NM_	.	
ACa04	2	2.11E+08	T	C	PASS	CPS1	intrc	NM_	.	
ACa04	2	2.17E+08	C	T	PASS	TMEM1	intrc	NM_	.	
ACa04	2	2.31E+08	G	A	PASS	SP140	exo	NM_	missens	
ACa04	2	2.31E+08	G	A	PASS	SP140	intrc	NM_	.	
ACa04	2	2.4E+08	C	T	PASS	HDAC4	intrc	NM_	.	
ACa04	3	12892058	G	A	PASS	.	inte	NM_dis	.	
ACa04	3	15117322	G	A	PASS	ZFYVE2	intrc	NM_	.	
ACa04	3	15286887	G	A	PASS	CAPN7	intrc	NM_	.	
ACa04	3	31837795	G	T	PASS	OSBPL	intrc	NM_	.	
ACa04	3	32586427	C	G	PASS	DYNC11	exo	NM_	missens	
ACa04	3	47038617	C	T	PASS	NBEAL2	intrc	NM_	.	
ACa04	3	47270077	G	A	PASS	KIF9-A5	ncR	NR_	.	
ACa04	3	49060155	C	T	PASS	NDUFA	exo	NM_	synonyr	
ACa04	3	50386165	C	T	PASS	NPRL2	exo	NM_	missens	
ACa04	3	50413184	G	A	PASS	CACNA	intrc	NM_	.	
ACa04	3	52552723	rs7801345	C	T	PASS	STAB1	intrc	NM_	.
ACa04	3	52836359	rs3677973	G	A	PASS	ITIH3	exo	NM_	missens
ACa04	3	55508349	rs7454520	G	A	PASS	WNT5A	intrc	NM_	.
ACa04	3	97439031	A	T	PASS	EPHA6	intrc	NM_	.	
ACa04	3	99643257	rs1911937	G	A	PASS	MIR548	ncR	NR_	.
ACa04	3	1.14E+08	C	T	PASS	ZNF80	exo	NM_	missens	
ACa04	3	1.2E+08	C	G	PASS	GPR15	exo	NM_	missens	
ACa04	3	1.23E+08	C	T	PASS	SEMA5	intrc	NM_	.	
ACa04	3	1.29E+08	C	T	PASS	H1FX	exo	NM_	missens	
ACa04	3	1.29E+08	C	T	PASS	RPL32F	ncR	NR_	.	
ACa04	3	1.29E+08	C	T	PASS	MBD4	exo	NM_	missens	
ACa04	3	1.29E+08	C	T	PASS	MBD4	intrc	NM_	.	
ACa04	3	1.3E+08	G	A	PASS	COL6A	exo	NM_	synonyr	
ACa04	3	1.31E+08	C	T	PASS	ATP2C	exo	NM_	synonyr	
ACa04	3	1.38E+08	rs1469630	G	A	PASS	NME9	intrc	NM_	.
ACa04	3	1.39E+08	C	A	PASS	FOXL2	exo	NM_	stopgair	
ACa04	3	1.41E+08	G	A	PASS	GRK7	exo	NM_	synonyr	
ACa04	3	1.42E+08	T	G	PASS	ATR	intrc	NM_	.	
ACa04	3	1.51E+08	rs7613736	G	C	PASS	P2RY12	intrc	NM_	.
ACa04	3	1.58E+08	C	T	PASS	MLF1	intrc	NM_	.	
ACa04	3	1.67E+08	G	A	PASS	ZBBX	intrc	NM_	.	
ACa04	3	1.71E+08	G	C	PASS	SLC2A2	exo	NM_	synonyr	
ACa04	3	1.72E+08	C	T	PASS	FNDC3	exo	NM_	synonyr	
ACa04	3	1.84E+08	C	G	PASS	HTR3E	exo	NM_	missens	
ACa04	3	1.85E+08	G	A	PASS	SEN2	intrc	NM_	.	
ACa04	3	1.87E+08	G	A	PASS	RFC4	intrc	NM_	.	
ACa04	3	1.93E+08	C	T	PASS	HRASL	intrc	NM_	.	
ACa04	3	1.95E+08	rs8795450	C	T	PASS	.	inte	NM_dis	.
ACa04	3	1.95E+08	C	T	PASS	.	inte	NM_dis	.	
ACa04	3	1.96E+08	rs4927838	G	A	PASS	SDHAP	ncR	NR_	.
ACa04	3	1.96E+08	rs1739998	C	T	PASS	SDHAP	ncR	NR_	.
ACa04	4	67919	rs4022005	C	T	PASS	ZNF595	intrc	NM_	.
ACa04	4	983923	rs7518089	C	T	PASS	SLC26A	exo	NM_	synonyr
ACa04	4	23814675	rs7529426	G	A	PASS	PPARG	exo	NM_	missens

ACa04	4	28824738	.	G	A	.	PASS	.	inter NR_dis	
ACa04	4	40099192	.	G	A	.	PASS	N4BP2	splice NM_NV	
ACa04	4	41608010	.	C	G	.	PASS	LIMCH1	exon NM_	missense
ACa04	4	49237957	rs7541707	G	T	.	PASS	.	inter NM_dis	
ACa04	4	57220835	.	G	A	.	PASS	AASDH	intron NM_	.
ACa04	4	75067120	rs5423520	C	T	.	PASS	MTHFD1	intron NM_	.
ACa04	4	79507362	.	G	C	.	PASS	ANXA3	intron NM_	.
ACa04	4	1.04E+08	rs8789415	C	A	.	PASS	CISD2	UTR NM_NV	.
ACa04	4	1.1E+08	rs8900187	C	T	.	PASS	COL25A1	intron NM_	.
ACa04	4	1.19E+08	.	G	A	.	PASS	SNHG8	ncR NR_	.
ACa04	4	1.29E+08	rs1378897	A	T	.	PASS	MFSD8	intron NM_	.
ACa04	4	1.34E+08	.	G	C	.	PASS	PCDH10	exon NM_	missense
ACa04	4	1.45E+08	rs3676041	A	G	.	PASS	GYPB	intron NM_	.
ACa04	4	1.57E+08	.	T	G	.	PASS	GUCY1B3	intron NM_	.
ACa04	4	1.7E+08	.	T	C	.	PASS	NEK1	intron NM_	.
ACa04	4	1.88E+08	.	G	C	.	PASS	.	upsilon NR_	.
ACa04	5	311434	.	G	A	.	PASS	PDCD6	exon NM_	missense
ACa04	5	12795084	.	C	T	.	PASS	LINC01033	ncR NR_	.
ACa04	5	42467975	.	G	A	.	PASS	GHR	intron NM_	.
ACa04	5	55439821	.	A	C	.	PASS	ANKRD18	intron NM_	.
ACa04	5	56718954	.	G	A	.	PASS	.	inter NM_dis	
ACa04	5	66085342	.	T	A	.	PASS	MAST4	intron NM_	.
ACa04	5	67861845	.	C	T	.	PASS	.	inter NM_dis	
ACa04	5	69716102	.	G	C	.	PASS	GTF2H2	ncR NR_	.
ACa04	5	70503586	rs2848141	C	T	.	PASS	.	inter NR_dis	
ACa04	5	74011331	.	C	T	.	PASS	HEXB	splice NM_NV	
ACa04	5	74012431	.	C	T	.	PASS	HEXB	exon NM_	stopgain
ACa04	5	1.19E+08	.	C	T	.	PASS	HSD17E1	exon NM_	missense
ACa04	5	1.4E+08	.	C	A	.	PASS	HARS	intron NM_	.
ACa04	5	1.4E+08	.	C	A	.	PASS	HARS	intron NM_	.
ACa04	5	1.51E+08	rs1024566	A	C	.	PASS	G3BP1	intron NM_	.
ACa04	5	1.51E+08	.	C	T	.	PASS	GLRA1	intron NM_	.
ACa04	5	1.57E+08	.	G	C	.	PASS	ADAM10	intron NM_	.
ACa04	5	1.58E+08	.	G	A	.	PASS	EBF1	intron NM_	.
ACa04	5	1.68E+08	rs5341551	G	A	.	PASS	TENM2	intron NM_	.
ACa04	5	1.76E+08	.	C	T	.	PASS	EIF4E1L	intron NM_	.
ACa04	5	1.79E+08	.	G	C	.	PASS	CBY3	exon NM_	synonym
ACa04	6	335156	rs2013466	C	G	.	PASS	DUSP2	exon NM_	missense
ACa04	6	3138326	.	C	G	.	PASS	BPHL	intron NM_	.
ACa04	6	4892397	.	C	G	.	PASS	CDYL	exon NM_	missense
ACa04	6	26158679	rs7489137	G	A	.	PASS	HIST1H1A	exon NM_	synonym
ACa04	6	27279024	.	C	T	.	PASS	POM121	exon NM_	missense
ACa04	6	27279395	.	C	G	.	PASS	POM121	exon NM_	missense
ACa04	6	28255115	rs9402071	C	T	.	PASS	PGBD1	intron NM_	.
ACa04	6	30627926	.	G	C	.	PASS	DHX16	exon NM_	synonym
ACa04	6	30629422	.	G	C	.	PASS	DHX16	intron NM_	.
ACa04	6	31239998	.	G	A	.	PASS	.	upsilon NM_	.
ACa04	6	31544686	.	G	A	.	PASS	TNF	intron NM_	.
ACa04	6	31868501	.	G	A	.	PASS	ZBTB12	exon NM_	synonym
ACa04	6	31948488	.	C	T	.	PASS	STK19	exon NM_	missense
ACa04	6	31973995	rs5421901	C	T	.	PASS	CYP21A2	ncR NR_	.
ACa04	6	31974685	.	C	T	.	PASS	CYP21A2	exon NM_	unknown
ACa04	6	31974901	.	C	T	.	PASS	CYP21A2	ncR NR_	.
ACa04	6	36341267	.	C	A	.	PASS	ETV7	exon NM_	synonym

ACa04	6	37420800	.	T	G	.	PASS	CMTR1 intrc NM_	.	.
ACa04	6	44279287	rs3746609	A	C	.	PASS	AARS2 intrc NM_	.	.
ACa04	6	46826299	rs5482384	C	T	.	PASS	GPR116 exo  NM_	missens	
ACa04	6	50011361	rs1442276	G	A	.	PASS	DEFB11 exo  NM_	missens	
ACa04	6	80737801	rs9008212	C	G	.	PASS	TTK intrc NM_	.	.
ACa04	6	90562798	.	C	T	.	PASS	CASP8 intrc NM_	.	.
ACa04	6	1.1E+08	rs7466151	C	T	.	PASS	AK9 intrc NM_	.	.
ACa04	6	1.19E+08	.	C	T	.	PASS	CEP85L exo  NM_	missens	
ACa04	6	1.54E+08	rs5411063	G	A	.	PASS	.	inte  NM_ dis	.
ACa04	6	1.6E+08	.	G	C	.	PASS	LOC100 ncR NR_	.	.
ACa04	7	1513164	rs3695415	G	A	.	PASS	INTS1 intrc NM_	.	.
ACa04	7	4829784	rs9183664	C	T	.	PASS	AP5Z1 intrc NM_	.	.
ACa04	7	7106766	.	G	T	.	PASS	.	inte  NM_ dis	.
ACa04	7	29742438	.	C	T	.	PASS	.	inte  NR_ dis	.
ACa04	7	45016694	rs1485954	C	T	.	PASS	MYO1G intrc NM_	.	.
ACa04	7	56881682	rs3677059	G	A	.	PASS	.	inte  NR_ dis	.
ACa04	7	56886709	.	C	G	.	PASS	.	inte  NR_ dis	.
ACa04	7	56886816	.	A	T	.	PASS	.	inte  NR_ dis	.
ACa04	7	56891472	.	T	C	.	PASS	.	inte  NR_ dis	.
ACa04	7	62956286	rs2018986	T	C	.	PASS	.	inte  NR_ dis	.
ACa04	7	63040357	rs1860492	C	T	.	PASS	.	inte  NR_ dis	.
ACa04	7	63216281	.	C	A	.	PASS	.	inte  NR_ dis	.
ACa04	7	63219061	.	G	C	.	PASS	.	inte  NR_ dis	.
ACa04	7	66648249	rs2687038	T	C	.	PASS	TYW1 intrc NM_	.	.
ACa04	7	70881071	.	A	C	.	PASS	WBSCF intrc NM_	.	.
ACa04	7	75240989	.	G	T	.	PASS	HIP1 intrc NM_	.	.
ACa04	7	97558116	.	A	G	.	PASS	.	inte  NM_ dis	.
ACa04	7	1E+08	rs3730249	G	A	.	PASS	SRRT intrc NM_	.	.
ACa04	7	1.28E+08	rs3721622	G	A	.	PASS	RBM28 exo  NM_	missens	
ACa04	7	1.28E+08	.	G	C	.	PASS	RBM28 exo  NM_	missens	
ACa04	7	1.29E+08	rs1030263	C	T	.	PASS	KCP intrc NM_	.	.
ACa04	7	1.42E+08	.	C	T	.	PASS	.	inte  NM_ dis	.
ACa04	7	1.49E+08	.	G	C	.	PASS	EZH2 intrc NM_	.	.
ACa04	7	1.52E+08	rs8678229	G	T	.	PASS	KMT2C intrc NM_	.	.
ACa04	8	7438248	.	G	A	.	PASS	.	inte  NR_ dis	.
ACa04	8	7468775	rs6264068	C	T	.	PASS	.	inte  NR_ dis	.
ACa04	8	11410882	.	G	A	.	PASS	BLK intrc NM_	.	.
ACa04	8	12045755	.	A	G	.	PASS	FAM86E intrc NM_	.	.
ACa04	8	12293612	.	G	A	.	PASS	FAM86E intrc NM_	.	.
ACa04	8	23104273	rs7607907	C	T	.	PASS	CHMP7 exo  NM_	missens	
ACa04	8	32406297	.	G	A	.	PASS	NRG1 exo  NM_	missens	
ACa04	8	37732570	rs3736343	G	A	.	PASS	RAB11F exo  NM_	missens	
ACa04	8	54628641	.	C	T	.	PASS	ATP6V1 intrc NM_	.	.
ACa04	8	73937164	.	G	A	.	PASS	TERF1 exo  NM_	synonym	
ACa04	8	80677293	rs9872967	T	A	.	PASS	HEY1 UTF NM_ NM_	.	.
ACa04	8	89497390	.	G	A	.	PASS	.	inte  NM_ dis	.
ACa04	8	90426559	.	G	A	.	PASS	.	inte  NM_ dis	.
ACa04	8	91586038	.	T	A	.	PASS	.	inte  NR_ dis	.
ACa04	8	1.01E+08	.	G	C	.	PASS	RGS22 intrc NM_	.	.
ACa04	8	1.14E+08	.	G	A	.	PASS	CSMD3 intrc NM_	.	.
ACa04	8	1.21E+08	.	G	T	.	PASS	TAF2 exo  NM_	missens	
ACa04	8	1.24E+08	.	G	A	.	PASS	.	inte  NR_ dis	.
ACa04	8	1.26E+08	rs1436548	G	C	.	PASS	KIAA019 exo  NM_	missens	
ACa04	8	1.26E+08	.	G	C	.	PASS	KIAA019 intrc NM_	.	.

ACa04	8	1.41E+08	.	G	A	.	PASS	TRAPP6	intrc	NM_	.	.
ACa04	9	14997152	.	C	T	.	PASS	LOC389	ncR	NR_	.	.
ACa04	9	19078284	rs7682516	C	T	.	PASS	HAUS6	exo	NM_	missens	
ACa04	9	21077312	.	C	T	.	PASS	IFNB1	exo	NM_	missens	
ACa04	9	33923025	.	G	C	.	PASS	UBAP2	exo	NM_	stopgair	
ACa04	9	39144453	rs3764507	T	C	.	PASS	CNTNA	intrc	NM_	.	.
ACa04	9	45733695	.	C	G	.	PASS	LOC102	inte	NR_	dis	.
ACa04	9	67786147	.	G	C	.	PASS	FAM27E	ncR	NR_	.	.
ACa04	9	69452504	.	G	A	.	PASS	.	inte	NM_	dis	.
ACa04	9	72832084	.	C	G	.	PASS	SMC5-A	ncR	NR_	.	.
ACa04	9	79946883	.	C	G	.	PASS	VPS13A	intrc	NM_	.	.
ACa04	9	82336825	.	T	G	.	PASS	TLE4	intrc	NM_	.	.
ACa04	9	98678009	.	G	C	.	PASS	ERCC6l	exo	NM_	missens	
ACa04	9	1.15E+08	rs9619494	C	T	.	PASS	HSDL2	splie	NM_	NM_	.
ACa04	9	1.25E+08	.	C	T	.	PASS	DAB2IP	exo	NM_	synonyr	
ACa04	9	1.29E+08	.	G	A	.	PASS	LMX1B	exo	NM_	synonyr	
ACa04	9	1.31E+08	.	G	A	.	PASS	CERCA	intrc	NM_	.	.
ACa04	9	1.32E+08	rs7589091	C	T	.	PASS	IER5L	UTF	NM_	NM_	.
ACa04	9	1.33E+08	.	C	A	.	PASS	GPR107	splie	NM_	NM_	.
ACa04	9	1.34E+08	.	G	T	.	PASS	RAPGE	intrc	NM_	.	.
ACa04	9	1.4E+08	.	C	T	.	PASS	.	inte	NM_	dis	.
ACa04	9	1.4E+08	.	C	T	.	PASS	PNPLA7	exo	NM_	unknow	
ACa04	10	11971934	.	C	A	.	PASS	UPF2	exo	NM_	stopgair	
ACa04	10	21805480	rs2018361	T	C	.	PASS	SKIDA1	exo	NM_	synonyr	
ACa04	10	45487624	.	T	G	.	PASS	RASSF4	intrc	NM_	.	.
ACa04	10	45487625	.	T	G	.	PASS	RASSF4	intrc	NM_	.	.
ACa04	10	71025668	.	G	T	.	PASS	HKDC1	intrc	NM_	.	.
ACa04	10	71026465	rs3760330	G	A	.	PASS	HKDC1	exo	NM_	synonyr	
ACa04	10	71027074	.	G	A	.	PASS	HKDC1	UTF	NM_	NM_	.
ACa04	10	73039805	.	G	C	.	PASS	UNC5B	splie	NM_	NM_	.
ACa04	10	73053568	rs7593379	G	A	.	PASS	UNC5B	exo	NM_	missens	
ACa04	10	73330675	rs7698966	G	A	.	PASS	CDH23	exo	NM_	synonyr	
ACa04	10	81292524	.	C	T	.	PASS	.	inte	NM_	dis	.
ACa04	10	81292525	.	A	G	.	PASS	.	inte	NM_	dis	.
ACa04	10	94409977	.	C	G	.	PASS	KIF11	intrc	NM_	.	.
ACa04	10	1.05E+08	.	G	A	.	PASS	PDCD1	intrc	NM_	.	.
ACa04	10	1.24E+08	.	G	A	.	PASS	PLEKH7	intrc	NM_	.	.
ACa04	10	1.35E+08	rs7966467	A	G	.	PASS	.	inte	NM_	dis	.
ACa04	11	1026075	rs7657851	G	A	.	PASS	MUC6	exo	NM_	synonyr	
ACa04	11	4351281	rs8667539	C	G	.	PASS	.	inte	NR_	dis	.
ACa04	11	9990085	.	G	A	.	PASS	SBF2	exo	NM_	missens	
ACa04	11	25004735	.	C	T	.	PASS	LUZP2	exo	NM_	stopgair	
ACa04	11	32456855	.	C	T	.	PASS	WT1	exo	NM_	missens	
ACa04	11	46397105	.	A	G	.	PASS	DGKZ	exo	NM_	missens	
ACa04	11	47194231	.	G	T	.	PASS	ARFGA1	intrc	NM_	.	.
ACa04	11	56229791	.	C	A	.	PASS	.	dow	NM_	.	.
ACa04	11	61249334	rs7463740	C	T	.	PASS	PPP1R3	exo	NM_	missens	
ACa04	11	61687361	.	T	G	.	PASS	RAB3IL	intrc	NM_	.	.
ACa04	11	63033390	.	C	T	.	PASS	MIR368	ncR	NR_	.	.
ACa04	11	63681628	rs3704854	C	T	.	PASS	RCOR2	exo	NM_	missens	
ACa04	11	63992577	.	C	G	.	PASS	TRPT1	intrc	NM_	.	.
ACa04	11	63995110	.	C	G	.	PASS	NUDT2	exo	NM_	missens	
ACa04	11	64004869	.	G	T	.	PASS	VEGFB	intrc	NM_	.	.
ACa04	11	64010930	.	G	A	.	PASS	FKBP2	exo	NM_	missens	



ACa04	11	64011526	.	G	A	.	PASS	FKBP2	UTF	NM_	NM_	.
ACa04	11	64119499	.	C	T	.	PASS	CCDC8	intrc	NM_	.	.
ACa04	11	65315334	rs7459229	C	T	.	PASS	LTBP3	intrc	NM_	.	.
ACa04	11	73997380	.	C	G	.	PASS	P4HA3	exo	NM_	missens	.
ACa04	11	1.13E+08	.	G	A	.	PASS	NCAM1	intrc	NM_	.	.
ACa04	11	1.17E+08	rs3521580	T	C	.	PASS	PCSK7	intrc	NM_	.	.
ACa04	11	1.17E+08	rs3580670	C	T	.	PASS	PCSK7	intrc	NM_	.	.
ACa04	11	1.25E+08	rs9203240	C	T	.	PASS	HEPAC	UTF	NM_	NM_	.
ACa04	11	1.3E+08	.	C	T	.	PASS	ZBTB44	exo	NM_	missens	.
ACa04	12	7031400	.	C	G	.	PASS	ENO2	intrc	NM_	.	.
ACa04	12	7031852	.	C	T	.	PASS	ENO2	intrc	NM_	.	.
ACa04	12	8234860	.	C	T	.	PASS	NECAP	UTF	NM_	NM_	.
ACa04	12	31242999	rs7123030	G	A	.	PASS	DDX11	exo	NM_	missens	.
ACa04	12	32135759	.	G	A	.	PASS	KIAA15	!	exo	NM_	missens
ACa04	12	41585427	.	G	C	.	PASS	PDZRN	intrc	NM_	.	.
ACa04	12	46321767	.	C	G	.	PASS	SCAF11	exo	NM_	missens	.
ACa04	12	58158669	.	C	T	.	PASS	CYP27E	exo	NM_	missens	.
ACa04	12	58160118	.	C	G	.	PASS	CYP27E	intrc	NM_	.	.
ACa04	12	63153019	rs8674713	G	A	.	PASS	PPM1H	intrc	NM_	.	.
ACa04	12	68709753	rs9109827	C	T	.	PASS	MDM1	intrc	NM_	.	.
ACa04	12	80848802	rs9642294	C	T	.	PASS	PTPRQ	intrc	NM_	.	.
ACa04	12	88429683	.	T	G	.	PASS	C12orf2	intrc	NM_	.	.
ACa04	12	94132221	.	C	A	.	PASS	CRADD	intrc	NM_	.	.
ACa04	12	1.02E+08	.	G	C	.	PASS	MYBPC	exo	NM_	missens	.
ACa04	12	1.14E+08	.	C	T	.	PASS	RBM19	intrc	NM_	.	.
ACa04	12	1.16E+08	.	C	T	.	PASS	MED13l	exo	NM_	synonyr	.
ACa04	12	1.21E+08	.	G	A	.	PASS	GCN1L	intrc	NM_	.	.
ACa04	12	1.21E+08	rs7540482	G	A	.	PASS	PLA2G1	intrc	NM_	.	.
ACa04	12	1.24E+08	.	G	A	.	PASS	SBNO1	intrc	NM_	.	.
ACa04	12	1.33E+08	.	C	G	.	PASS	EP400	intrc	NM_	.	.
ACa04	13	21244946	.	A	C	.	PASS	IFT88	intrc	NM_	.	.
ACa04	13	35716455	.	G	C	.	PASS	NBEA	exo	NM_	missens	.
ACa04	13	43462522	.	G	C	.	PASS	EPSTI1	exo	NM_	stopgair	.
ACa04	13	99554177	.	C	A	.	PASS	DOCK9	intrc	NM_	.	.
ACa04	13	1.03E+08	rs7720033	G	T	.	PASS	FGF14	exo	NM_	synonyr	.
ACa04	14	19750514	rs1450473	C	T	.	PASS	.	inte	NR_	dis	.
ACa04	14	22237385	.	A	C	.	PASS	.	inte	NM_	dis	.
ACa04	14	24422863	.	G	A	.	PASS	DHRS4	ncR	NR_	.	.
ACa04	14	24423433	.	G	A	.	PASS	DHRS4	ncR	NR_	.	.
ACa04	14	38218126	.	C	T	.	PASS	.	inte	NM_	dis	.
ACa04	14	50033101	.	G	C	.	PASS	.	inte	NR_	dis	.
ACa04	14	55326401	rs1501582	C	T	.	PASS	GCH1	exo	NM_	synonyr	.
ACa04	14	60427856	.	C	A	.	PASS	LRRC9	ncR	NR_	.	.
ACa04	14	65488560	.	C	A	.	PASS	MAX,Ct	intrc	NM_	.	.
ACa04	14	65488830	.	C	A	.	PASS	MAX,Ct	intrc	NM_	.	.
ACa04	14	70346418	rs7676169	G	A	.	PASS	SMOC1	exo	NM_	missens	.
ACa04	14	73718454	.	C	T	.	PASS	PAPLN	exo	NM_	synonyr	.
ACa04	14	77257611	.	G	A	.	PASS	ANGEL	intrc	NM_	.	.
ACa04	14	89591578	.	G	C	.	PASS	.	inte	NM_	dis	.
ACa04	14	93177988	.	G	A	.	PASS	LGMN	intrc	NM_	.	.
ACa04	14	95111247	rs3756754	G	A	.	PASS	SERPIN	ncR	NR_	.	.
ACa04	14	1.06E+08	.	T	G	.	PASS	MTA1	intrc	NM_	.	.
ACa04	14	1.06E+08	rs5537870	G	A	.	PASS	.	inte	NR_	dis	.
ACa04	14	1.07E+08	rs1289410	G	A	.	PASS	.	inte	NR_	dis	.

ACa04	15	21021529	.	C	T	.	PASS	.	inte NR_dis.
ACa04	15	23105942	.	C	A	.	PASS	LOC283	ncR NR_.
ACa04	15	28408339	rs5409237	C	T	.	PASS	HERC2	exo NM_.
ACa04	15	28649661	.	T	G	.	PASS	.	inte NR_dis.
ACa04	15	29064347	.	T	G	.	PASS	PDCD6l	ncR NR_.
ACa04	15	30874998	.	T	C	.	PASS	ULK4P1	ncR NR_.
ACa04	15	31089768	rs2015085	C	A	.	PASS	.	inte NR_dis.
ACa04	15	41822216	rs7481072	C	T	.	PASS	RPAP1	intrc NM_.
ACa04	15	41827886	.	C	T	.	PASS	RPAP1	intrc NM_.
ACa04	15	41828755	.	C	G	.	PASS	RPAP1	exo NM_.
ACa04	15	42154421	rs7754448	G	A	.	PASS	SPTBN1	exo NM_.
ACa04	15	43927718	.	G	T	.	PASS	CATSP1	intrc NM_.
ACa04	15	44100887	rs1922871	C	T	.	PASS	MFAP1	intrc NM_.
ACa04	15	44849933	.	C	T	.	PASS	EIF3J	intrc NM_.
ACa04	15	45120967	rs6202600	G	A	.	PASS	.	inte NM_dis.
ACa04	15	45697652	.	G	A	.	PASS	SPATA1	exo NM_.
ACa04	15	56390588	.	G	A	.	PASS	RFX7	intrc NM_.
ACa04	15	60678134	.	C	T	.	PASS	ANXA2	intrc NM_.
ACa04	15	65041446	rs5478938	C	T	.	PASS	RBPMS	intrc NM_.
ACa04	15	66774038	.	C	A	.	PASS	MAP2K1	intrc NM_.
ACa04	15	67920461	.	G	C	.	PASS	MAP2K1	intrc NM_.
ACa04	15	74468572	.	G	A	.	PASS	ISLR	UTF NM_NV.
ACa04	15	75518573	.	C	T	.	PASS	.	inte NM_dis.
ACa04	15	78922067	.	C	T	.	PASS	CHRNA2	exo NM_.
ACa04	15	79586294	.	C	G	.	PASS	ANKRD	exo NM_.
ACa04	15	84924696	rs2401418	T	C	.	PASS	.	inte NM_dis.
ACa04	15	89828324	.	C	T	.	PASS	FANCI	splic NM_NV.
ACa04	15	91551123	.	C	G	.	PASS	VPS33E	exo NM_.
ACa04	15	94884003	.	C	G	.	PASS	MCTP2	intrc NM_.
ACa04	15	1E+08	.	C	T	.	PASS	MEF2A	intrc NM_.
ACa04	15	1.02E+08	rs7510253	C	T	.	PASS	TARSL2	exo NM_.
ACa04	16	138813	rs7504825	G	A	.	PASS	NPRL3	exo NM_.
ACa04	16	1498194	.	C	T	.	PASS	CLCN7	intrc NM_.
ACa04	16	7703685	.	G	A	.	PASS	RBFOX	intrc NM_.
ACa04	16	10775977	.	G	A	.	PASS	TEKT5	exo NM_.
ACa04	16	12061615	.	C	T	.	PASS	TNFRSF	exo NM_.
ACa04	16	14932478	.	G	A	.	PASS	NOMO1	intrc NM_.
ACa04	16	15460754	rs5522924	C	T	.	PASS	NPIPA5	intrc NM_.
ACa04	16	16465395	rs6203288	T	C	.	PASS	.	inte NR_dis.
ACa04	16	18840681	rs7654396	C	T	.	PASS	SMG1	exo NM_.
ACa04	16	22274612	.	G	A	.	PASS	EEF2K	intrc NM_.
ACa04	16	22314516	.	C	T	.	PASS	POLR3f	intrc NM_.
ACa04	16	22492403	.	A	G	.	PASS	SMG1P	ncR NR_.
ACa04	16	28181173	.	C	G	.	PASS	XPO6	exo NM_.
ACa04	16	28188845	.	G	A	.	PASS	XPO6	intrc NM_.
ACa04	16	29634159	.	G	A	.	PASS	.	inte NR_dis.
ACa04	16	30777461	.	T	A	.	PASS	RNF40	intrc NM_.
ACa04	16	31283023	.	C	T	.	PASS	ITGAM	intrc NM_.
ACa04	16	33393614	rs7896651	A	C	.	PASS	.	inte NR_dis.
ACa04	16	48311245	rs7515102	C	G	.	PASS	LONP2	splic NM_NV.
ACa04	16	58571009	.	C	T	.	PASS	CNOT1	exo NM_.
ACa04	16	67650756	.	C	G	.	PASS	CTCF	exo NM_.
ACa04	16	71917174	.	T	A	.	PASS	ZNF821	UTF NM_NV.
ACa04	16	74366694	rs2911030	A	G	.	PASS	LOC283	ncR NR_.

ACa04	16	89748999	.	G	A	.	PASS	.	inte  NM_ dis.
ACa04	16	90239923	.	C	T	.	PASS	.	ncR NR_ .
ACa04	17	3819296	rs7805194	C	T	.	PASS	P2RX1	intrc NM_ .
ACa04	17	6905777	.	C	T	.	PASS	ALOX12	ncR NR_ .
ACa04	17	7452538	.	C	G	.	PASS	TNFSF1	exo  NM_ missens
ACa04	17	7644304	.	C	T	.	PASS	DNAH2	exo  NM_ synonymr
ACa04	17	10261063	.	A	G	.	PASS	MYH13	exo  NM_ missens
ACa04	17	11502002	.	G	C	.	PASS	DNAH9	exo  NM_ missens
ACa04	17	15905433	rs5595610	G	A	.	PASS	TTC19	intrc NM_ .
ACa04	17	17715857	.	C	G	.	PASS	SREBF	UTF NM_ NM.
ACa04	17	18580745	.	G	C	.	PASS	ZNF286	intrc NM_ .
ACa04	17	20239326	.	C	T	.	PASS	CCDC1	ncR NR_ .
ACa04	17	20361478	.	G	A	.	PASS	LGALS	intrc NM_ .
ACa04	17	21904546	rs7841783	G	A	.	PASS	FLJ360	(ncR NR_ .
ACa04	17	27051414	.	C	T	.	PASS	TLCD1	UTF NM_ NM.
ACa04	17	27186144	.	G	C	.	PASS	ERAL1	intrc NM_ .
ACa04	17	27188767	.	G	A	.	PASS	.	ups  NR_ .
ACa04	17	30267462	.	C	G	.	PASS	SUZ12	exo  NM_ missens
ACa04	17	30267521	.	C	A	.	PASS	SUZ12	intrc NM_ .
ACa04	17	30509668	.	G	C	.	PASS	RHOT1	intrc NM_ .
ACa04	17	34585113	.	G	T	.	PASS	LOC101	intrc NM_ .
ACa04	17	34585273	rs8795183	C	T	.	PASS	TBC1D	intrc NM_ .
ACa04	17	34959090	.	G	A	.	PASS	MRM1	intrc NM_ .
ACa04	17	35696532	.	G	C	.	PASS	ACACA	intrc NM_ .
ACa04	17	35879278	.	G	A	.	PASS	SYNRG	intrc NM_ .
ACa04	17	36349424	.	C	A	.	PASS	.	ups  NM_ .
ACa04	17	37564752	.	G	C	.	PASS	MED1	exo  NM_ missens
ACa04	17	39563642	rs1035039	C	T	.	PASS	LOC10	ncR NR_ .
ACa04	17	40189689	.	G	A	.	PASS	ZNF385	intrc NM_ .
ACa04	17	42336474	.	C	T	.	PASS	SLC4A1	intrc NM_ .
ACa04	17	48456415	.	C	T	.	PASS	EME1	intrc NM_ .
ACa04	17	48695858	.	C	T	.	PASS	CACNA	intrc NM_ .
ACa04	17	56382745	.	C	G	.	PASS	BZRAP	' splic NM_ NM.
ACa04	17	61875411	.	G	C	.	PASS	DDX42	exo  NM_ missens
ACa04	17	61875421	.	G	T	.	PASS	DDX42	exo  NM_ missens
ACa04	17	63685153	.	T	G	.	PASS	CEP112	intrc NM_ .
ACa04	17	73830621	.	G	C	.	PASS	UNC13I	intrc NM_ .
ACa04	17	78210752	rs1405528	C	T	.	PASS	SLC26A	exo  NM_ synonymr
ACa04	17	79077457	.	C	T	.	PASS	BAIAP2	exo  NM_ synonymr
ACa04	17	81180181	rs3677917	A	G	.	PASS	FLJ436	(ncR NR_ .
ACa04	18	6241463	.	G	C	.	PASS	L3MBTL	intrc NM_ .
ACa04	18	7231454	.	G	A	.	PASS	LRRC3	(exo  NM_ synonymr
ACa04	18	9561991	.	C	G	.	PASS	PPP4R	' exo  NM_ missens
ACa04	18	9885754	.	G	C	.	PASS	TXNDC	UTF NM_ NM.
ACa04	18	10682288	.	C	G	.	PASS	PIEZO2	exo  NM_ missens
ACa04	18	13734582	.	G	A	.	PASS	RNMT	exo  NM_ missens
ACa04	18	14186351	.	C	T	.	PASS	ANKRD	ncR NR_ .
ACa04	18	24173671	.	G	T	.	PASS	KCTD1	intrc NM_ .
ACa04	18	44773328	.	C	T	.	PASS	SKOR2	exo  NM_ missens
ACa04	18	53252369	.	G	A	.	PASS	TCF4	intrc NM_ .
ACa04	18	53695975	.	C	T	.	PASS	.	inte  NR_ dis.
ACa04	18	60027077	rs7468202	C	T	.	PASS	TNFRS1	intrc NM_ .
ACa04	18	66564563	.	G	A	.	PASS	CCDC1	(exo  NM_ synonymr
ACa04	18	77132914	.	A	G	.	PASS	ATP9B	intrc NM_ .

ACa04	19	544031	rs9545783	C	T	.	PASS	.	ups <sup>i</sup>	NM_	.
ACa04	19	1067640	.	G	A	.	PASS	HMHA1	intrc	NM_	.
ACa04	19	1068927	.	G	C	.	PASS	HMHA1	intrc	NM_	.
ACa04	19	1625821	.	G	T	.	PASS	TCF3	intrc	NM_	.
ACa04	19	1627347	rs3742787	G	A	.	PASS	TCF3	intrc	NM_	.
ACa04	19	1923847	rs1418930	A	T	.	PASS	SCAMP	intrc	NM_	.
ACa04	19	2805172	.	G	T	.	PASS	THOP1	exo <sup>i</sup>	NM_	stopgair
ACa04	19	2806807	rs7627736	G	A	.	PASS	THOP1	intrc	NM_	.
ACa04	19	3359586	.	C	T	.	PASS	NFIC	UTF	NM_	NM_
ACa04	19	4423978	.	G	C	.	PASS	CHAF17	intrc	NM_	.
ACa04	19	6161470	.	G	A	.	PASS	ACSBG	intrc	NM_	.
ACa04	19	7707610	.	T	A	.	PASS	STXBP2	intrc	NM_	.
ACa04	19	8430554	.	A	G	.	PASS	ANGPT1	intrc	NM_	.
ACa04	19	8444864	.	G	C	.	PASS	RAB11E	ncR	NR_	.
ACa04	19	8604992	.	C	G	.	PASS	MYO1F	intrc	NM_	.
ACa04	19	9049466	.	G	T	.	PASS	MUC16	exo <sup>i</sup>	NM_	stopgair
ACa04	19	9049499	.	G	A	.	PASS	MUC16	exo <sup>i</sup>	NM_	missens
ACa04	19	9071765	.	G	A	.	PASS	MUC16	exo <sup>i</sup>	NM_	synonyr
ACa04	19	9072600	rs7741875	G	A	.	PASS	MUC16	exo <sup>i</sup>	NM_	missens
ACa04	19	10812558	.	C	T	.	PASS	QTRT1	intrc	NM_	.
ACa04	19	12460871	.	G	C	.	PASS	ZNF442	exo <sup>i</sup>	NM_	missens
ACa04	19	12876605	.	G	A	.	PASS	HOOK2	intrc	NM_	.
ACa04	19	12902551	.	G	T	.	PASS	JUNB	UTF	NM_	NM_
ACa04	19	16890254	.	C	G	.	PASS	NWD1	exo <sup>i</sup>	NM_	missens
ACa04	19	17657528	rs7797020	G	A	.	PASS	FAM12C	exo <sup>i</sup>	NM_	missens
ACa04	19	17989080	.	G	A	.	PASS	SLC5A5	intrc	NM_	.
ACa04	19	19643635	.	A	T	.	PASS	YJEFN3	intrc	NM_	.
ACa04	19	20002691	.	C	T	.	PASS	ZNF253	exo <sup>i</sup>	NM_	missens
ACa04	19	22379589	.	G	A	.	PASS	ZNF676	UTF	NM_	NM_
ACa04	19	30156809	.	C	G	.	PASS	PLEKHf	intrc	NM_	.
ACa04	19	33302189	.	G	A	.	PASS	.	inte <sup>i</sup>	NM_	dis.
ACa04	19	36108349	.	G	C	.	PASS	HAUS5	intrc	NM_	.
ACa04	19	36759849	rs8683521	T	G	.	PASS	.	inte <sup>i</sup>	NM_	dis.
ACa04	19	36759850	rs8793125	T	C	.	PASS	.	inte <sup>i</sup>	NM_	dis.
ACa04	19	37240872	rs7653982	C	T	.	PASS	ZNF850	exo <sup>i</sup>	NM_	missens
ACa04	19	39869313	rs9896621	C	T	.	PASS	SAMD4	intrc	NM_	.
ACa04	19	40370173	.	G	A	.	PASS	FCGBP	intrc	NM_	.
ACa04	19	42406617	rs1408143	C	T	.	PASS	ARHGE	intrc	NM_	.
ACa04	19	42558106	.	G	C	.	PASS	GRIK5	intrc	NM_	.
ACa04	19	42569637	rs1444115	C	T	.	PASS	GRIK5	intrc	NM_	.
ACa04	19	43349628	.	G	A	.	PASS	PSG10f	ncR	NR_	.
ACa04	19	44156138	.	G	C	.	PASS	PLAUR	intrc	NM_	.
ACa04	19	44156387	rs4251912	G	A	.	PASS	PLAUR	exo <sup>i</sup>	NM_	synonyr
ACa04	19	46417852	.	C	G	.	PASS	NANOS	exo <sup>i</sup>	NM_	missens
ACa04	19	47545927	.	G	T	.	PASS	NPAS1	intrc	NM_	.
ACa04	19	50160962	.	C	A	.	PASS	SCAF1	intrc	NM_	.
ACa04	19	52496934	.	G	A	.	PASS	ZNF615	exo <sup>i</sup>	NM_	synonyr
ACa04	19	53059406	.	T	G	.	PASS	.	dow	NM_	.
ACa04	19	55344025	.	G	A	.	PASS	.	ups <sup>i</sup>	NM_	.
ACa04	19	55421386	.	G	C	.	PASS	NCR1	exo <sup>i</sup>	NM_	missens
ACa04	19	57641484	.	G	C	.	PASS	USP29	exo <sup>i</sup>	NM_	missens
ACa04	19	57641504	.	G	C	.	PASS	USP29	exo <sup>i</sup>	NM_	missens
ACa04	20	1569372	.	C	T	.	PASS	SIRPB1	intrc	NM_	.
ACa04	20	2378367	.	T	G	.	PASS	TGM6	intrc	NM_	.

ACa04	20	2575258	.	G	A	.	PASS	TMC2	intrc	NM_	.
ACa04	20	3674136	.	G	A	.	PASS	SIGLEC	exo	NM_	missens
ACa04	20	8722139	rs7610831	C	G	.	PASS	PLCB1	exo	NM_	missens
ACa04	20	17705827	.	C	G	.	PASS	BANF2	intrc	NM_	.
ACa04	20	17943516	.	G	A	.	PASS	SNORD	ncR	NR_	.
ACa04	20	29623957	rs8120738	C	G	.	PASS	FRG1B	ncR	NR_	.
ACa04	20	29624070	rs7791580	G	A	.	PASS	FRG1B	ncR	NR_	.
ACa04	20	30640006	.	C	T	.	PASS	HCK	UTF	NM_	NM_
ACa04	20	33328131	.	C	G	.	PASS	NCOA6	intrc	NM_	.
ACa04	20	33328684	rs1904867	C	T	.	PASS	NCOA6	exo	NM_	missens
ACa04	20	48562018	.	C	T	.	PASS	RNF114	exo	NM_	stopgair
ACa04	20	53226961	.	C	T	.	PASS	DOK5	exo	NM_	unknow
ACa04	20	57767593	.	C	T	.	PASS	ZNF831	exo	NM_	synonyr
ACa04	20	60859560	.	G	T	.	PASS	OSBPL	intrc	NM_	.
ACa04	20	61942626	.	G	A	.	PASS	COL20A	intrc	NM_	.
ACa04	20	62843563	rs1874434	G	A	.	PASS	MYT1	intrc	NM_	.
ACa04	21	9873531	.	C	T	.	PASS	.	inte	NR_	dis.
ACa04	21	9892201	.	A	C	.	PASS	.	inte	NR_	dis.
ACa04	21	10139683	.	T	G	.	PASS	.	inte	NR_	dis.
ACa04	21	10624133	rs3707796	G	A	.	PASS	.	inte	NR_	dis.
ACa04	21	11058377	rs7469658	C	T	.	PASS	BAGE2,	intrc	NM_	.
ACa04	21	11119368	rs4638882	C	A	.	PASS	.	inte	NM_	dis.
ACa04	21	37510089	.	T	C	.	PASS	CBR3-A	ncR	NR_	.
ACa04	21	39325007	.	G	A	.	PASS	.	inte	NM_	dis.
ACa04	21	43833080	.	G	A	.	PASS	UBASH	intrc	NM_	.
ACa04	21	44485591	.	G	C	.	PASS	CBS	exo	NM_	missens
ACa04	21	46392916	rs7276130	G	A	.	PASS	FAM207	intrc	NM_	.
ACa04	21	46931982	.	C	G	.	PASS	COL18A	intrc	NM_	.
ACa04	22	16123397	.	C	T	.	PASS	.	inte	NON	dis.
ACa04	22	16350457	.	T	A	.	PASS	.	inte	NM_	dis.
ACa04	22	16402051	.	G	C	.	PASS	.	inte	NM_	dis.
ACa04	22	18769491	rs3769174	G	T	.	PASS	GGT3P	ncR	NR_	.
ACa04	22	18905842	rs2870983	C	T	.	PASS	PRODH	exo	NM_	missens
ACa04	22	20946316	.	G	A	.	PASS	.	inte	NM_	dis.
ACa04	22	21680779	rs1389774	C	G	.	PASS	.	inte	NR_	dis.
ACa04	22	25043098	rs3731564	G	C	.	PASS	POM12	ncR	NR_	.
ACa04	22	29804684	rs1856371	C	T	.	PASS	.	inte	NM_	dis.
ACa04	22	30772838	.	C	G	.	PASS	KIAA16	ncR	NR_	.
ACa04	22	30975994	rs5669283	G	A	.	PASS	PES1	intrc	NM_	.
ACa04	22	35729221	.	G	T	.	PASS	TOM1	intrc	NM_	.
ACa04	22	37868474	rs7606577	G	A	.	PASS	MFNG	intrc	NM_	.
ACa04	22	39387762	.	G	C	.	PASS	APOBE	ncR	NR_	.
ACa04	22	39760283	.	G	C	.	PASS	SYNGR	exo	NM_	missens
ACa04	22	41278055	rs1409901	C	T	.	PASS	XPNPE	exo	NM_	missens
ACa04	22	41574519	.	G	C	.	PASS	EP300	exo	NM_	missens
ACa04	22	42263232	rs3731131	G	A	.	PASS	SREBF	exo	NM_	synonyr
ACa04	22	45754721	.	C	G	.	PASS	SMC1B	intrc	NM_	.
ACa04	22	49834699	.	C	T	.	PASS	.	inte	NR_	dis.
ACa04	22	50582294	.	G	A	.	PASS	MOV10l	intrc	NM_	.
ACa04	22	50727449	rs7711497	G	A	.	PASS	PLXNB	exo	NM_	synonyr
ACa04	X	1584248	.	C	T	.	PASS	P2RY8	UTF	NM_	NM_
ACa04	X	2132123	rs8673094	G	A	.	PASS	.	inte	NM_	dis.
ACa04	X	8433469	rs7643909	T	C	.	PASS	VCX3B	UTF	NM_	NM_
ACa04	X	9373412	rs6640384	G	A	.	PASS	.	inte	NM_	dis.

ACa04	X	12903684	.	C	G	.	PASS	TLR7	exon NM_	missens
ACa04	X	12938436	.	C	A	.	PASS	TLR8	exon NM_	stopgain
ACa04	X	32834767	.	G	T	.	PASS	DMD	intron NM_	.
ACa04	X	43591975	.	G	A	.	PASS	MAOA	exon NM_	missens
ACa04	X	48123486	.	G	A	.	PASS	SSX1	intron NM_	.
ACa04	X	48690443	.	G	A	.	PASS	PCSK1	exon NM_	synonym
ACa04	X	49643021	.	C	G	.	PASS	USP27	ncR NR_	.
ACa04	X	54099413	.	G	A	.	PASS	FAM12C	UTR NM_	NM_
ACa04	X	54184236	.	A	G	.	PASS	FAM12C	intron NM_	.
ACa04	X	54577415	.	G	A	.	PASS	GNL3L	exon NM_	synonym
ACa04	X	56763695	.	C	T	.	PASS	UQCRB	ncR NR_	.
ACa04	X	69898849	.	T	C	.	PASS	TEX11	intron NM_	.
ACa04	X	70348196	.	C	G	.	PASS	MED12	exon NM_	stopgain
ACa04	X	70367605	.	G	A	.	PASS	NLGN3	exon NM_	stopgain
ACa04	X	70814750	.	C	G	.	PASS	BCYRN	ncR NR_	.
ACa04	X	1.17E+08	.	G	A	.	PASS	.	intron NM_	dis.
ACa04	X	1.29E+08	.	C	T	.	PASS	SASH3	exon NM_	stopgain
ACa04	X	1.29E+08	.	G	C	.	PASS	UTP14A	exon NM_	missens
ACa04	X	1.29E+08	.	G	A	.	PASS	BCORL	exon NM_	missens
ACa04	X	1.31E+08	.	G	A	.	PASS	FIRRE	ncR NR_	.
ACa04	X	1.36E+08	.	C	T	.	PASS	ARHGE	exon NM_	missens
ACa04	X	1.5E+08	.	G	A	.	PASS	HMGB3	exon NM_	unknown
ACa04	X	1.53E+08	rs7824625	G	A	.	PASS	TREX2	exon NM_	missens
ACa04	X	1.53E+08	.	A	C	.	PASS	BCAP31	intron NM_	.
ACa06	1	674136	.	T	C	.	PASS	.	intron NR_	dis.
ACa06	1	674146	rs7810569	G	A	.	PASS	.	intron NR_	dis.
ACa06	1	1454505	rs1149269	C	T	.	PASS	ATAD3B	intron NM_	.
ACa06	1	2518366	.	G	T	.	PASS	FAM213	exon NM_	synonym
ACa06	1	3410162	.	G	A	.	PASS	MEGF6	intron NM_	.
ACa06	1	9165837	.	A	C	.	PASS	GPR157	intron NM_	.
ACa06	1	16363042	rs2008876	C	T	.	PASS	.	intron NM_	dis.
ACa06	1	16890922	rs5565927	T	C	.	PASS	NBPF1	intron NM_	.
ACa06	1	16904073	rs6177234	C	A	.	PASS	NBPF1	intron NM_	.
ACa06	1	16957316	rs1008195	C	G	.	PASS	CROCC	ncR NR_	.
ACa06	1	17044324	rs5388409	G	A	.	PASS	ESPNP	ncR NR_	.
ACa06	1	17280821	rs6669627	G	C	.	PASS	CROCC	exon NM_	missens
ACa06	1	18962986	.	A	C	.	PASS	PAX7	intron NM_	.
ACa06	1	27994920	rs7661411	C	T	.	PASS	IFI6	intron NM_	.
ACa06	1	42049019	rs7802118	C	T	.	PASS	HIVEP3	exon NM_	missens
ACa06	1	46707738	rs8664767	C	T	.	PASS	.	intron NM_	dis.
ACa06	1	51525497	.	G	C	.	PASS	.	intron NM_	dis.
ACa06	1	1.43E+08	rs7581372	T	C	.	PASS	.	intron NR_	dis.
ACa06	1	1.43E+08	rs7697846	A	C	.	PASS	.	intron NR_	dis.
ACa06	1	1.43E+08	rs2016919	T	A	.	PASS	.	intron NR_	dis.
ACa06	1	1.43E+08	.	C	A	.	PASS	.	intron NR_	dis.
ACa06	1	1.43E+08	rs3703375	C	A	.	PASS	.	intron NR_	dis.
ACa06	1	1.43E+08	rs1996515	T	A	.	PASS	.	intron NR_	dis.
ACa06	1	1.43E+08	.	A	T	.	PASS	.	intron NR_	dis.
ACa06	1	1.43E+08	.	C	G	.	PASS	.	intron NR_	dis.
ACa06	1	1.44E+08	.	G	A	.	PASS	LINC017	ncR NR_	.
ACa06	1	1.45E+08	.	T	A	.	PASS	NBPF9	intron NM_	.
ACa06	1	1.45E+08	.	G	T	.	PASS	NBPF25	ncR NR_	.
ACa06	1	1.48E+08	rs8799960	G	C	.	PASS	NBPF8	intron NM_	.
ACa06	1	1.49E+08	rs2003739	G	A	.	PASS	NBPF25	ncR NR_	.

ACa06	1	1.49E+08	rs3705433	G	A	.	PASS	NBPF25	ncR NR_ . .
ACa06	1	1.58E+08	.	T	G	.	PASS	FCRL4	intrc NM_ . .
ACa06	1	2.23E+08	rs1839036	T	A	.	PASS	.	inte  NR_ dis .
ACa06	1	2.24E+08	.	T	C	.	PASS	.	inte  NM_ dis .
ACa06	1	2.24E+08	.	A	G	.	PASS	.	inte  NM_ dis .
ACa06	1	2.26E+08	.	A	C	.	PASS	ENAH	intrc NM_ . .
ACa06	1	2.28E+08	rs1828179	T	C	.	PASS	.	inte  NM_ dis .
ACa06	2	87581867	rs4096246	A	C	.	PASS	.	inte  NR_ dis .
ACa06	2	88071329	.	G	C	.	PASS	RGPD1	intrc NM_ . .
ACa06	2	91692625	.	G	A	.	PASS	.	inte  NON dis .
ACa06	2	91894128	.	G	T	.	PASS	.	inte  NR_ dis .
ACa06	2	1.13E+08	rs2011280	G	A	.	PASS	ANAPC	exo  NM_ . missens
ACa06	2	1.14E+08	rs8685337	G	A	.	PASS	.	ups  NR_ . .
ACa06	2	1.14E+08	rs2747968	A	G	.	PASS	WASH2	ncR NR_ . .
ACa06	2	1.19E+08	rs1029282	G	T	.	PASS	INSIG2	intrc NM_ . .
ACa06	2	1.32E+08	rs2001821	A	G	.	PASS	POTEE	intrc NM_ . .
ACa06	2	1.33E+08	rs7800646	C	T	.	PASS	.	inte  NM_ dis .
ACa06	2	1.7E+08	.	T	C	.	PASS	DHRS9	intrc NM_ . .
ACa06	2	1.73E+08	.	A	T	.	PASS	SLC25A	intrc NM_ . .
ACa06	2	1.82E+08	rs1875561	C	T	.	PASS	UBE2E3	intrc NM_ . .
ACa06	2	2.14E+08	rs8671576	C	G	.	PASS	IKZF2	intrc NM_ . .
ACa06	3	47384995	.	T	G	.	PASS	KLHL18	intrc NM_ . .
ACa06	3	1.48E+08	.	G	A	.	PASS	AGTR1	exo  NM_ . synonymr
ACa06	3	1.49E+08	.	T	G	.	PASS	CP	intrc NM_ . .
ACa06	3	1.49E+08	.	T	G	.	PASS	CP	intrc NM_ . .
ACa06	3	1.95E+08	rs3760511	G	A	.	PASS	.	inte  NM_ dis .
ACa06	3	1.96E+08	rs8677455	A	G	.	PASS	LINC00	ncR NR_ . .
ACa06	3	1.97E+08	rs1128840	A	G	.	PASS	.	inte  NR_ dis .
ACa06	4	60459	.	C	T	.	PASS	ZNF595	intrc NM_ . .
ACa06	4	20568852	rs1443656	G	A	.	PASS	SLIT2	intrc NM_ . .
ACa06	5	16483589	.	G	A	.	PASS	FAM134	intrc NM_ . .
ACa06	5	34179578	.	C	T	.	PASS	.	inte  NR_ dis .
ACa06	5	69206624	rs3759258	G	T	.	PASS	.	inte  NR_ dis .
ACa06	5	85581332	rs8790446	T	C	.	PASS	NBPF25	ncR NR_ . .
ACa06	5	99715839	.	G	A	.	PASS	LOC10C	ncR NR_ . .
ACa06	5	1.51E+08	.	A	C	.	PASS	SLC36A	intrc NM_ . .
ACa06	5	1.63E+08	.	A	G	.	PASS	CCNG1	intrc NM_ . .
ACa06	5	1.78E+08	.	C	A	.	PASS	COL23A	exo  NM_ . missens
ACa06	5	1.79E+08	.	C	A	.	PASS	ADAMT	intrc NM_ . .
ACa06	6	26020676	rs3719775	T	C	.	PASS	.	ups  NM_ . .
ACa06	6	26104023	rs9202904	C	G	.	PASS	.	ups  NM_ . .
ACa06	6	58776826	rs4292554	A	G	.	PASS	.	inte  NR_ dis .
ACa06	6	58779162	rs4437505	G	T	.	PASS	.	inte  NR_ dis .
ACa06	6	1.39E+08	rs7508774	C	T	.	PASS	KIAA12	intrc NM_ . .
ACa06	6	1.52E+08	.	A	C	.	PASS	SYNE1	intrc NM_ . .
ACa06	6	1.68E+08	rs1436754	G	A	.	PASS	TCP10L	intrc NM_ . .
ACa06	6	1.7E+08	.	A	G	.	PASS	WDR27	intrc NM_ . .
ACa06	7	4153191	.	A	C	.	PASS	SDK1	intrc NM_ . .
ACa06	7	6005457	rs2016650	T	A	.	PASS	RSPH1C	intrc NM_ . .
ACa06	7	36543628	.	T	G	.	PASS	.	inte  NM_ dis .
ACa06	7	56881190	.	C	G	.	PASS	.	inte  NR_ dis .
ACa06	7	56883751	.	C	G	.	PASS	.	inte  NR_ dis .
ACa06	7	56887007	.	C	G	.	PASS	.	inte  NR_ dis .
ACa06	7	56887955	.	C	A	.	PASS	.	inte  NR_ dis .

ACa06	7	56888086	.	G	T	.	PASS	.	inte NR_dis	.
ACa06	7	56888134	.	C	T	.	PASS	.	inte NR_dis	.
ACa06	7	56902845	.	A	C	.	PASS	.	inte NR_dis	.
ACa06	7	61969095	rs4596537	C	A	.	PASS	.	inte NO dis	.
ACa06	7	61970255	rs2167825	A	C	.	PASS	.	inte NO dis	.
ACa06	7	62956351	rs586765	G	T	.	PASS	.	inte NR_dis	.
ACa06	7	63213633	rs8688020	G	A	.	PASS	.	inte NR_dis	.
ACa06	7	76130717	rs2462259	C	T	.	PASS	DTX2	intrc NM_	.
ACa06	7	1.02E+08	rs6248349	G	A	.	PASS	POLR2	intrc NM_	.
ACa06	7	1.28E+08	rs3741264	C	G	.	PASS	LINC01	(ncR NR_	.
ACa06	7	1.52E+08	.	T	C	.	PASS	KMT2C	intrc NM_	.
ACa06	8	7386635	rs2077351	A	C	.	PASS	.	inte NM_dis	.
ACa06	8	38123857	.	T	G	.	PASS	PPAPD	(intrc NM_	.
ACa06	8	43828037	rs7503847	T	G	.	PASS	.	inte NM_dis	.
ACa06	8	43838571	rs7967153	G	A	.	PASS	.	inte NM_dis	.
ACa06	8	43838646	.	A	G	.	PASS	.	inte NM_dis	.
ACa06	8	46844372	rs4363208	C	G	.	PASS	.	inte NO dis	.
ACa06	8	46849129	rs3740584	G	C	.	PASS	.	inte NO dis	.
ACa06	8	1.12E+08	.	C	T	.	PASS	.	ncR NR_	.
ACa06	8	1.44E+08	.	G	A	.	PASS	ARC	exo NM_	missens
ACa06	8	1.45E+08	rs7821104	T	G	.	PASS	OPLAH	intrc NM_	.
ACa06	9	46843601	rs7495042	G	A	.	PASS	.	ups NR_	.
ACa06	9	68415282	rs4928839	A	C	.	PASS	.	inte NM_dis	.
ACa06	9	68427877	rs4568707	G	A	.	PASS	LOC642	ncR NR_	.
ACa06	9	70731624	rs1435617	T	C	.	PASS	.	inte NM_dis	.
ACa06	9	70731789	rs3773733	T	C	.	PASS	.	inte NM_dis	.
ACa06	9	91150674	.	C	G	.	PASS	NXNL2	intrc NM_	.
ACa06	9	1.27E+08	.	T	G	.	PASS	.	inte NM_dis	.
ACa06	9	1.28E+08	.	C	T	.	PASS	MAPKA	intrc NM_	.
ACa06	10	23639834	rs1397322	T	C	.	PASS	.	inte NM_dis	.
ACa06	10	24564647	.	G	T	.	PASS	MIR603	ncR NR_	.
ACa06	10	33338230	rs9631413	T	C	.	PASS	.	inte NM_dis	.
ACa06	10	35437448	.	T	C	.	PASS	CREM	intrc NM_	.
ACa06	10	46952565	rs694157	A	G	.	PASS	.	inte NR_dis	.
ACa06	10	79540724	rs5275172	G	A	.	PASS	.	inte NM_dis	.
ACa06	10	79603188	rs1888127	G	A	.	PASS	DLG5	intrc NM_	.
ACa06	10	81270971	rs2573327	T	C	.	PASS	.	inte NM_dis	.
ACa06	10	88988731	rs3128226	C	G	.	PASS	NUTM2	intrc NM_	.
ACa06	11	49896522	.	T	C	.	PASS	.	inte NR_dis	.
ACa06	11	49896523	.	G	A	.	PASS	.	inte NR_dis	.
ACa06	11	67386723	rs9035709	C	T	.	PASS	.	inte NR_dis	.
ACa06	11	71373513	rs1874489	T	C	.	PASS	.	inte NM_dis	.
ACa06	11	76062600	rs9666739	G	T	.	PASS	PRKRIF	exo NM_	missens
ACa06	11	76320147	rs5688517	G	A	.	PASS	.	inte NM_dis	.
ACa06	11	1.24E+08	.	G	A	.	PASS	OR8G5	exo NM_	missens
ACa06	11	1.32E+08	.	T	G	.	PASS	NTM	intrc NM_	.
ACa06	12	52883962	rs7606061	T	C	.	PASS	KRT6A	intrc NM_	.
ACa06	12	56481671	.	T	C	.	PASS	ERBB3	exo NM_	missens
ACa06	12	1.04E+08	rs7597010	C	T	.	PASS	TDG	UTF NM_NM	.
ACa06	13	64320876	rs2004528	C	T	.	PASS	.	inte NR_dis	.
ACa06	13	1.1E+08	rs1510074	G	A	.	PASS	MYO16	exo NM_	synonym
ACa06	14	19890942	rs7446578	T	C	.	PASS	DUXAP	ncR NR_	.
ACa06	14	19962107	.	C	T	.	PASS	.	inte NR_dis	.
ACa06	14	20073097	rs2006543	C	T	.	PASS	.	inte NM_dis	.



ACa06	14	20073103	rs2020426	T	C	.	PASS	.	inte NM_dis.
ACa06	14	20158519	rs7704695	G	T	.	PASS	.	inte NM_dis.
ACa06	14	62014518	.	G	A	.	PASS	PRKCH	exo NM_ . unknow
ACa06	14	77794476	.	A	T	.	PASS	GSTZ1	intrc NM_ . .
ACa06	14	1.06E+08	.	C	T	.	PASS	.	inte NR_dis.
ACa06	15	20358726	rs6200967	C	T	.	PASS	.	inte NON_dis.
ACa06	15	23265062	.	C	T	.	PASS	.	inte NR_dis.
ACa06	15	25304994	.	A	C	.	PASS	.	dow NR_ . .
ACa06	15	30433484	rs7751825	G	C	.	PASS	GOLGA	ncR NR_ . .
ACa06	15	31048067	rs2449652	T	C	.	PASS	LOC10C	ncR NR_ . .
ACa06	15	31048088	rs2449653	T	C	.	PASS	LOC10C	ncR NR_ . .
ACa06	15	32685477	.	G	A	.	PASS	GOLGA	intrc NM_ . .
ACa06	15	32695794	.	G	A	.	PASS	.	ups  NM_ . .
ACa06	15	45120967	rs6202600	G	A	.	PASS	.	inte NM_dis.
ACa06	15	50521102	.	A	C	.	PASS	SLC27A	intrc NM_ . .
ACa06	15	64388133	.	T	A	.	PASS	SNX1	UTF NM_ NM_ .
ACa06	15	84909514	.	C	T	.	PASS	GOLGA	exo NM_ . missens
ACa06	15	84917347	rs3743150	T	G	.	PASS	.	inte NM_dis.
ACa06	15	85053791	rs9700260	C	G	.	PASS	GOLGA	ncR NR_ . .
ACa06	15	85060248	rs364085	T	C	.	PASS	.	ups  NR_ . .
ACa06	16	16456691	rs2009400	G	A	.	PASS	.	inte NR_dis.
ACa06	16	16456731	rs2016432	C	T	.	PASS	.	inte NR_dis.
ACa06	16	18478257	.	C	T	.	PASS	.	inte NR_dis.
ACa06	16	21844945	rs5667377	T	C	.	PASS	.	inte NR_dis.
ACa06	16	29110458	rs5618411	T	C	.	PASS	RRN3P1	ncR NR_ . .
ACa06	16	29538827	rs8792106	A	T	.	PASS	.	dow NR_ . .
ACa06	16	46392004	rs4319791	C	T	.	PASS	.	inte NON_dis.
ACa06	16	46395310	rs4349321	G	A	.	PASS	.	inte NON_dis.
ACa06	16	46395945	rs4246344	G	A	.	PASS	.	inte NON_dis.
ACa06	16	46399446	.	A	T	.	PASS	.	inte NON_dis.
ACa06	16	46399518	rs8799648	A	G	.	PASS	.	inte NON_dis.
ACa06	16	46402061	rs9972801	A	G	.	PASS	.	inte NON_dis.
ACa06	16	46403685	rs4324300	G	A	.	PASS	.	inte NON_dis.
ACa06	16	46405090	rs9328621	T	C	.	PASS	.	inte NON_dis.
ACa06	16	46405110	rs4380209	C	T	.	PASS	.	inte NON_dis.
ACa06	16	46405469	rs4291933	A	G	.	PASS	.	inte NON_dis.
ACa06	16	46405548	rs4011858	G	C	.	PASS	.	inte NON_dis.
ACa06	16	46406714	.	G	C	.	PASS	.	inte NON_dis.
ACa06	16	46406854	rs7205231	T	A	.	PASS	.	inte NON_dis.
ACa06	16	46408278	rs4093117	C	A	.	PASS	.	inte NON_dis.
ACa06	16	46408358	rs4249029	G	A	.	PASS	.	inte NON_dis.
ACa06	16	46409112	.	C	T	.	PASS	.	inte NON_dis.
ACa06	16	90224905	rs6205366	G	A	.	PASS	.	ncR NR_ . .
ACa06	17	20254635	rs2543804	G	A	.	PASS	CCDC1	ncR NR_ . .
ACa06	17	20319816	rs7126379	T	C	.	PASS	.	ups  NR_ . .
ACa06	17	20319971	rs7126379	G	A	.	PASS	.	ups  NR_ . .
ACa06	17	21904546	rs7841783	G	A	.	PASS	FLJ360	(ncR NR_ . .
ACa06	17	22251757	.	T	A	.	PASS	.	inte NM_dis.
ACa06	17	22258648	rs1437650	T	G	.	PASS	.	inte NM_dis.
ACa06	17	22258694	.	G	A	.	PASS	.	inte NM_dis.
ACa06	17	34795273	rs6207957	C	T	.	PASS	.	intrc NM_ . .
ACa06	17	39432066	rs7482024	G	T	.	PASS	KRTAP5	exo NM_ . synonymr
ACa06	17	40762339	rs1459625	G	A	.	PASS	TUBG1	intrc NM_ . .
ACa06	17	43663697	.	A	T	.	PASS	.	inte NR_dis.

ACa06	18	11644538	rs2012257	C	G	.	PASS	.	inte NM_dis.
ACa06	18	11644705	rs3734996	A	T	.	PASS	.	inte NM_dis.
ACa06	18	61256074	rs7520640	G	A	.	PASS	SERPIN	intrc NM_.
ACa06	19	4902496	.	A	C	.	PASS	ARRDC	intrc NM_.
ACa06	19	35828631	.	T	A	.	PASS	CD22	intrc NM_.
ACa06	19	37780300	rs7641371	G	T	.	PASS	.	inte NR_dis.
ACa06	19	37784701	.	G	A	.	PASS	.	inte NR_dis.
ACa06	19	43422207	.	C	A	.	PASS	.	ups NM_.
ACa06	19	46118992	.	T	A	.	PASS	EML2	intrc NM_.
ACa06	19	53788121	rs3499068	A	G	.	PASS	.	dow NR_.
ACa06	19	53788159	rs5615613	C	T	.	PASS	.	dow NR_.
ACa06	19	54745775	rs1334652	G	A	.	PASS	LILRA6,	intrc NM_.
ACa06	19	56755845	rs3751555	G	A	.	PASS	.	inte NM_dis.
ACa06	20	33345744	.	C	T	.	PASS	NCOA6	exo NM_.
ACa06	21	9649976	rs7984422	A	G	.	PASS	.	inte NO dis.
ACa06	21	11124384	rs2017188	T	C	.	PASS	.	inte NM_dis.
ACa06	22	16350628	rs3753995	G	A	.	PASS	.	inte NM_dis.
ACa06	22	16400056	.	A	T	.	PASS	.	inte NM_dis.
ACa06	22	16401857	rs2021509	A	G	.	PASS	.	inte NM_dis.
ACa06	22	20339179	.	T	G	.	PASS	DGCR6	inte NM_dis.
ACa06	22	20715169	rs6221896	C	T	.	PASS	.	inte NM_dis.
ACa06	22	21579897	rs2016329	G	T	.	PASS	.	inte NR_dis.
ACa06	22	25045452	rs6223125	C	T	.	PASS	POM12	ncR NR_.
ACa06	22	29818992	rs367416	T	C	.	PASS	.	inte NM_dis.
ACa06	22	42538399	rs3609392	C	T	.	PASS	CYP2D7	ncR NR_.
ACa06	22	42910604	.	C	A	.	PASS	RRP7A	intrc NM_.
ACa06	22	44579135	.	G	A	.	PASS	PARVG	intrc NM_.
ACa06	X	53254115	.	C	T	.	PASS	KDM5C	UTF NM_NV.
ACa06	X	61687463	.	G	C	.	PASS	.	inte NO dis.
ACa06	X	61712648	.	C	T	.	PASS	.	inte NO dis.
ACa06	X	61712657	rs7520049	T	C	.	PASS	.	inte NO dis.
ACa06	X	61712692	rs7756689	A	G	.	PASS	.	inte NO dis.
ACa06	X	61718950	.	A	C	.	PASS	.	inte NO dis.
ACa06	X	70280889	rs1048883	C	T	.	PASS	SNX12	exo NM_.
ACa06	X	71091139	.	T	A	.	PASS	.	inte NM_dis.
ACa06	X	71358615	.	G	A	.	PASS	NHSL2	exo NM_.
ACa06	X	1.39E+08	rs1423249	G	A	.	PASS	.	inte NM_dis.
ACa06	X	1.52E+08	.	C	T	.	PASS	.	inte NM_dis.
ACa07	1	135163	rs3744991	C	T	.	PASS	LINC01	ncR NR_.
ACa07	1	888176	.	C	T	.	PASS	NOC2L	intrc NM_.
ACa07	1	897337	rs1159856	C	T	.	PASS	KLHL17	exo NM_.
ACa07	1	915454	.	G	A	.	PASS	PERM1	exo NM_.
ACa07	1	949634	.	C	T	.	PASS	ISG15	exo NM_.
ACa07	1	1177864	rs5413521	C	T	.	PASS	FAM132	UTF NM_NV.
ACa07	1	1192565	rs7680451	C	T	.	PASS	UBE2J2	intrc NM_.
ACa07	1	1262554	.	G	A	.	PASS	CPTP	intrc NM_.
ACa07	1	1290074	.	C	T	.	PASS	MXRA8	exo NM_.
ACa07	1	1323140	rs7800811	C	T	.	PASS	CCNL2	intrc NM_.
ACa07	1	1559099	.	G	A	.	PASS	MIB2	intrc NM_.
ACa07	1	1573264	rs2014492	C	T	.	PASS	CDK11E	intrc NM_.
ACa07	1	1575704	rs7463384	G	A	.	PASS	CDK11E	exo NM_.
ACa07	1	1580887	.	C	T	.	PASS	CDK11E	intrc NM_.
ACa07	1	1581607	.	C	T	.	PASS	CDK11E	intrc NM_.
ACa07	1	1961685	.	C	A	.	PASS	GABRD	exo NM_.

ACa07	1	1987788	.	G	A	.	PASS	PRKCZ	intrc	NM_	.	.
ACa07	1	2341796	.	G	A	.	PASS	PEX10	intrc	NM_	.	.
ACa07	1	3410459	.	A	G	.	PASS	MEGF6	exo	NM_	.	synonyr
ACa07	1	3777167	.	C	A	.	PASS	DFFB	intrc	NM_	.	.
ACa07	1	5947402	.	G	T	.	PASS	NPHP4	exo	NM_	.	unknow
ACa07	1	6008389	.	G	A	.	PASS	NPHP4	intrc	NM_	.	.
ACa07	1	6183992	rs9430027	C	T	.	PASS	CHD5	intrc	NM_	.	.
ACa07	1	6185193	.	C	T	.	PASS	CHD5	exo	NM_	.	missens
ACa07	1	6190317	.	C	T	.	PASS	CHD5	exo	NM_	.	missens
ACa07	1	6272914	rs9864160	G	A	.	PASS	RNF207	intrc	NM_	.	.
ACa07	1	6647232	rs7562596	C	T	.	PASS	ZBTB48	intrc	NM_	.	.
ACa07	1	7724209	rs1431018	C	T	.	PASS	CAMTA	exo	NM_	.	synonyr
ACa07	1	7731947	.	T	A	.	PASS	CAMTA	intrc	NM_	.	.
ACa07	1	7811261	rs7748471	C	T	.	PASS	CAMTA	exo	NM_	.	synonyr
ACa07	1	9085255	rs9446685	C	T	.	PASS	SLC2A7	intrc	NM_	.	.
ACa07	1	9165694	rs1476580	G	A	.	PASS	GPR157	exo	NM_	.	missens
ACa07	1	9642260	.	C	T	.	PASS	SLC25A	intrc	NM_	.	.
ACa07	1	11896347	.	C	T	.	PASS	CLCN6	intrc	NM_	.	.
ACa07	1	11939929	.	A	G	.	PASS	.	inte	NM_	.	dis.
ACa07	1	12018717	rs7934532	C	T	.	PASS	PLOD1	intrc	NM_	.	.
ACa07	1	12123731	.	C	T	.	PASS	TNFRSF	intrc	NM_	.	.
ACa07	1	12372069	.	G	T	.	PASS	VPS13E	intrc	NM_	.	.
ACa07	1	12520438	.	C	T	.	PASS	VPS13E	exo	NM_	.	missens
ACa07	1	12942392	rs2021163	G	C	.	PASS	PRAME	intrc	NM_	.	.
ACa07	1	13497520	rs5876978	C	T	.	PASS	PRAME	intrc	NM_	.	.
ACa07	1	15844727	rs4646008	G	A	.	PASS	CASP9	exo	NM_	.	missens
ACa07	1	16451683	rs3745685	C	T	.	PASS	EPHA2	UTF	NM_	.	NM.
ACa07	1	16534709	.	G	A	.	PASS	ARHGE	exo	NM_	.	missens
ACa07	1	16895623	rs3734377	G	A	.	PASS	NBPF1	exo	NM_	.	unknow
ACa07	1	16904073	rs6177234	C	A	.	PASS	NBPF1	intrc	NM_	.	.
ACa07	1	16916702	rs4112521	T	C	.	PASS	NBPF1	intrc	NM_	.	.
ACa07	1	16918693	rs1213433	A	T	.	PASS	NBPF1	UTF	NM_	.	NM.
ACa07	1	17007589	rs3930814	G	A	.	PASS	.	ups	NR_	.	.
ACa07	1	17318448	rs5780915	G	A	.	PASS	ATP13A	intrc	NM_	.	.
ACa07	1	18618364	rs3774826	C	T	.	PASS	IGSF21	exo	NM_	.	missens
ACa07	1	19180811	rs3766882	C	T	.	PASS	TAS1R2	exo	NM_	.	missens
ACa07	1	19447882	rs3471023	G	A	.	PASS	UBR4	exo	NM_	.	synonyr
ACa07	1	19465611	.	G	A	.	PASS	UBR4	exo	NM_	.	synonyr
ACa07	1	19582577	.	A	G	.	PASS	MRT04	intrc	NM_	.	.
ACa07	1	19665997	rs3712996	C	T	.	PASS	CAPZB	UTF	NM_	.	NM.
ACa07	1	20027202	.	G	A	.	PASS	TMCO4	intrc	NM_	.	.
ACa07	1	21928363	rs1001195	G	A	.	PASS	RAP1G	intrc	NM_	.	.
ACa07	1	22201078	.	C	T	.	PASS	HSPG2	intrc	NM_	.	.
ACa07	1	22207859	.	A	G	.	PASS	HSPG2	exo	NM_	.	unknow
ACa07	1	22303276	rs7584776	C	T	.	PASS	.	ups	NM_	.	.
ACa07	1	22332199	.	C	A	.	PASS	CELA3	exo	NM_	.	missens
ACa07	1	23285608	.	G	A	.	PASS	.	intrc	NM_	.	.
ACa07	1	24122428	.	G	T	.	PASS	GALE	UTF	NM_	.	NM.
ACa07	1	24133341	rs1391690	C	T	.	PASS	HMGCL	intrc	NM_	.	.
ACa07	1	25228982	rs7518873	G	A	.	PASS	RUNX3	exo	NM_	.	synonyr
ACa07	1	25725774	.	G	T	.	PASS	RHCE	intrc	NM_	.	.
ACa07	1	26104493	.	G	A	.	PASS	MAN1C	intrc	NM_	.	.
ACa07	1	26232774	.	G	A	.	PASS	STMN1	intrc	NM_	.	.
ACa07	1	26487992	.	C	T	.	PASS	FAM11C	exo	NM_	.	synonyr

ACa07	1	26510587	rs7737670	C	T	.	PASS	CNKSR	exon	NM_	missens
ACa07	1	26612349	rs7767332	C	T	.	PASS	UBXN1	exon	NM_	missens
ACa07	1	26881685	.	G	A	.	PASS	RPS6K7	exon	NM_	missens
ACa07	1	27106354	rs8792552	C	T	.	PASS	ARID1A	exon	NM_	stopgain
ACa07	1	27158954	.	C	T	.	PASS	ZDHHC	exon	NM_	missens
ACa07	1	27432696	rs1003250	G	A	.	PASS	SLC9A1	intron	NM_	.
ACa07	1	27440796	rs7625790	C	T	.	PASS	SLC9A1	intron	NM_	.
ACa07	1	27629951	rs9468364	G	A	.	PASS	WDTC1	intron	NM_	.
ACa07	1	27652113	.	C	T	.	PASS	LOC644	ncR	NR_	.
ACa07	1	28315229	.	G	A	.	PASS	EYA3	intron	NM_	.
ACa07	1	29063869	.	G	C	.	PASS	YTHDF2	intron	NM_	.
ACa07	1	31845811	rs7596455	G	A	.	PASS	FABP3	exon	NM_	synonym
ACa07	1	32280661	rs9232513	G	A	.	PASS	SPOCD	exon	NM_	missens
ACa07	1	32542285	.	G	A	.	PASS	TMEM3	intron	NM_	.
ACa07	1	32751255	.	C	A	.	PASS	LCK	exon	NM_	missens
ACa07	1	32914631	.	G	A	.	PASS	.	intron	NM_dis	.
ACa07	1	33318809	.	C	T	.	PASS	S100PB	intron	NM_	.
ACa07	1	35865003	rs9651423	A	G	.	PASS	ZMYM4	intron	NM_	.
ACa07	1	38082341	rs7723940	G	A	.	PASS	RSPO1	exon	NM_	missens
ACa07	1	38155909	.	G	A	.	PASS	C1orf10	intron	NM_	.
ACa07	1	38200891	rs1814745	C	T	.	PASS	EPHA1	intron	NM_	.
ACa07	1	39923930	.	C	T	.	PASS	MACF1	intron	NM_	.
ACa07	1	39930863	.	G	A	.	PASS	MACF1	intron	NM_	.
ACa07	1	39951571	.	A	C	.	PASS	MACF1	UTR	NM_NM	.
ACa07	1	39989003	rs5523408	C	T	.	PASS	PPIEL	ncR	NR_	.
ACa07	1	40030304	.	G	T	.	PASS	PABPC2	intron	NM_	.
ACa07	1	40562796	.	G	A	.	PASS	PPT1	exon	NM_	missens
ACa07	1	40705849	.	T	C	.	PASS	RLF	exon	NM_	synonym
ACa07	1	40706184	.	G	A	.	PASS	RLF	UTR	NM_NM	.
ACa07	1	41283715	rs9093579	G	T	.	PASS	KCNQ4	intron	NM_	.
ACa07	1	41303941	.	T	A	.	PASS	KCNQ4	intron	NM_	.
ACa07	1	42654359	rs1179985	C	T	.	PASS	FOXJ3	intron	NM_	.
ACa07	1	43166550	rs7456140	G	A	.	PASS	YBX1	exon	NM_	missens
ACa07	1	43852750	.	G	A	.	PASS	MED8	intron	NM_	.
ACa07	1	44166300	.	C	T	.	PASS	KDM4A	ncR	NR_	.
ACa07	1	45267625	.	C	T	.	PASS	PLK3	intron	NM_	.
ACa07	1	46088738	.	C	A	.	PASS	CCDC1	exon	NM_	missens
ACa07	1	46726082	rs7290104	C	T	.	PASS	RAD54L	intron	NM_	.
ACa07	1	46874979	.	A	G	.	PASS	FAAH	intron	NM_	.
ACa07	1	47025920	rs5508458	C	T	.	PASS	MKNK1	exon	NM_	synonym
ACa07	1	47358142	.	C	T	.	PASS	CYP4Z2	ncR	NR_	.
ACa07	1	50307777	.	G	T	.	PASS	AGBL4	intron	NM_	.
ACa07	1	51808840	rs7570389	C	T	.	PASS	TTC39A	intron	NM_	.
ACa07	1	53720726	rs9512571	C	T	.	PASS	LRP8	intron	NM_	.
ACa07	1	53990329	rs7759188	C	T	.	PASS	GLIS1	intron	NM_	.
ACa07	1	54661138	.	G	A	.	PASS	CYB5R1	exon	NM_	missens
ACa07	1	55518417	rs3769455	G	A	.	PASS	PCSK9	exon	NM_	missens
ACa07	1	57157158	rs7815069	C	T	.	PASS	PRKAA2	exon	NM_	missens
ACa07	1	58522063	.	C	T	.	PASS	DAB1	intron	NM_	.
ACa07	1	65312146	.	T	A	.	PASS	JAK1	intron	NM_	.
ACa07	1	67390207	.	C	T	.	PASS	WDR78	intron	NM_	.
ACa07	1	74667202	.	C	A	.	PASS	FPGT,F	intron	NM_	.
ACa07	1	77661094	.	A	G	.	PASS	PIGK	intron	NM_	.
ACa07	1	79383715	rs1785229	G	A	.	PASS	ELTD1	exon	NM_	synonym

ACa07	1	79521735	.	G	A	.	PASS	.	inte NM_dis	.
ACa07	1	82431836	rs1394863	C	T	.	PASS	LPHN2	exo NM_	synonyr
ACa07	1	85279635	rs7636045	C	T	.	PASS	LPAR3	exo NM_	missens
ACa07	1	86119846	.	C	A	.	PASS	ZNHIT6	intrc NM_	.
ACa07	1	92251861	.	G	T	.	PASS	TGFBR1	intrc NM_	.
ACa07	1	94485309	.	G	C	.	PASS	ABCA4	exo NM_	synonyr
ACa07	1	94520782	rs6174943	G	A	.	PASS	ABCA4	exo NM_	synonyr
ACa07	1	1.01E+08	.	T	A	.	PASS	LRRC3	intrc NM_	.
ACa07	1	1.03E+08	.	A	T	.	PASS	COL11A1	intrc NM_	.
ACa07	1	1.09E+08	.	A	C	.	PASS	PRPF38	exo NM_	missens
ACa07	1	1.1E+08	rs9363214	C	T	.	PASS	CELSR2	intrc NM_	.
ACa07	1	1.11E+08	rs7774328	G	A	.	PASS	STRIP1	intrc NM_	.
ACa07	1	1.11E+08	.	C	T	.	PASS	RBM15	exo NM_	missens
ACa07	1	1.12E+08	.	T	C	.	PASS	CHIA	UTF NM_NV	.
ACa07	1	1.12E+08	.	C	T	.	PASS	C1orf16	exo NM_	unknow
ACa07	1	1.12E+08	.	T	C	.	PASS	FAM212	UTF NM_NV	.
ACa07	1	1.13E+08	rs7556469	C	T	.	PASS	MOV10	exo NM_	missens
ACa07	1	1.13E+08	.	G	A	.	PASS	RHOC	exo NM_	synonyr
ACa07	1	1.14E+08	.	G	T	.	PASS	MAGI3	exo NM_	missens
ACa07	1	1.15E+08	.	T	G	.	PASS	AMPD1	intrc NM_	.
ACa07	1	1.15E+08	rs3724512	C	T	.	PASS	AMPD1	exo NM_	missens
ACa07	1	1.18E+08	.	G	A	.	PASS	TTF2	intrc NM_	.
ACa07	1	1.18E+08	.	G	T	.	PASS	SPAG17	intrc NM_	.
ACa07	1	1.2E+08	.	C	T	.	PASS	NBPF7	intrc NM_	.
ACa07	1	1.2E+08	rs1041798	C	T	.	PASS	NOTCH	intrc NM_	.
ACa07	1	1.2E+08	.	A	G	.	PASS	NOTCH	spl c NM_NV	.
ACa07	1	1.43E+08	.	T	G	.	PASS	ANKRD	ncR NR_	.
ACa07	1	1.45E+08	rs9441133	T	G	.	PASS	NBPF9	exo NM_	unknow
ACa07	1	1.45E+08	rs4067693	G	C	.	PASS	NBPF20	intrc NM_	.
ACa07	1	1.45E+08	.	A	G	.	PASS	NBPF9	exo NM_	unknow
ACa07	1	1.45E+08	rs7819390	C	T	.	PASS	SEC22E	exo NM_	unknow
ACa07	1	1.45E+08	rs7515424	T	A	.	PASS	NBPF28	ncR NR_	.
ACa07	1	1.45E+08	.	C	T	.	PASS	NBPF28	ncR NR_	.
ACa07	1	1.46E+08	.	C	T	.	PASS	POLR3C	exo NM_	missens
ACa07	1	1.46E+08	.	G	A	.	PASS	NBPF28	ncR NR_	.
ACa07	1	1.49E+08	.	G	A	.	PASS	LOC101	ncR NR_	.
ACa07	1	1.49E+08	.	C	T	.	PASS	NBPF28	ncR NR_	.
ACa07	1	1.5E+08	.	C	T	.	PASS	TARS2	intrc NM_	.
ACa07	1	1.51E+08	.	G	A	.	PASS	PI4KB	exo NM_	stopgair
ACa07	1	1.51E+08	.	T	C	.	PASS	POGZ	exo NM_	missens
ACa07	1	1.52E+08	.	G	A	.	PASS	FLG2	exo NM_	synonyr
ACa07	1	1.53E+08	rs9479104	C	T	.	PASS	PGLYR1	intrc NM_	.
ACa07	1	1.54E+08	.	C	T	.	PASS	S100A1	intrc NM_	.
ACa07	1	1.54E+08	.	A	G	.	PASS	INTS3	intrc NM_	.
ACa07	1	1.54E+08	rs7704251	G	A	.	PASS	DENND	exo NM_	missens
ACa07	1	1.55E+08	.	C	A	.	PASS	UBE2Q	spl c NM_NV	.
ACa07	1	1.55E+08	.	C	T	.	PASS	MTX1	intrc NM_	.
ACa07	1	1.55E+08	.	C	A	.	PASS	ASH1L	exo NM_	missens
ACa07	1	1.56E+08	.	C	A	.	PASS	YY1AP1	intrc NM_	.
ACa07	1	1.56E+08	rs9321901	C	T	.	PASS	PMF1	UTF NM_NV	.
ACa07	1	1.57E+08	.	T	C	.	PASS	ARHGE	intrc NM_	.
ACa07	1	1.57E+08	rs3718046	C	T	.	PASS	ETV3L	exo NM_	missens
ACa07	1	1.58E+08	rs2000983	A	G	.	PASS	.	inte NM_dis	.
ACa07	1	1.58E+08	rs7734794	G	A	.	PASS	CD1B	exo NM_	synonyr

ACa07	1	1.6E+08	rs7622475	C	T	.	PASS	CRP	intrc	NM_	.
ACa07	1	1.61E+08	.	G	A	.	PASS	ADAMT	exo	NM_	missens
ACa07	1	1.62E+08	rs2010794	C	T	.	PASS	C1orf22	exo	NM_	synonyr
ACa07	1	1.63E+08	.	C	A	.	PASS	RGS4	exo	NM_	missens
ACa07	1	1.65E+08	.	A	G	.	PASS	PBX1	exo	NM_	missens
ACa07	1	1.67E+08	.	C	T	.	PASS	POU2F	exo	NM_	synonyr
ACa07	1	1.69E+08	.	G	A	.	PASS	CCDC1	intrc	NM_	.
ACa07	1	1.7E+08	.	A	G	.	PASS	SELP	intrc	NM_	.
ACa07	1	1.7E+08	.	C	T	.	PASS	SCYL3	intrc	NM_	.
ACa07	1	1.74E+08	.	G	A	.	PASS	RABGA	intrc	NM_	.
ACa07	1	1.77E+08	.	T	G	.	PASS	PAPPA2	intrc	NM_	.
ACa07	1	1.77E+08	rs7763360	C	T	.	PASS	ASTN1	exo	NM_	synonyr
ACa07	1	1.79E+08	.	C	A	.	PASS	ABL2	exo	NM_	stopgair
ACa07	1	1.8E+08	rs1014592	C	T	.	PASS	NPHS2	UTF	NM_NM	.
ACa07	1	1.8E+08	.	C	T	.	PASS	CEP35C	intrc	NM_	.
ACa07	1	1.82E+08	rs7733795	C	A	.	PASS	CACNA	exo	NM_	missens
ACa07	1	1.82E+08	rs7640679	G	A	.	PASS	ZNF648	exo	NM_	missens
ACa07	1	1.82E+08	.	G	A	.	PASS	TEDDM	exo	NM_	missens
ACa07	1	1.83E+08	rs7702036	C	T	.	PASS	NPL	exo	NM_	missens
ACa07	1	1.86E+08	.	C	A	.	PASS	TPR	exo	NM_	missens
ACa07	1	1.97E+08	.	C	T	.	PASS	CRB1	intrc	NM_	.
ACa07	1	2.01E+08	.	A	G	.	PASS	CAMSA	intrc	NM_	.
ACa07	1	2.01E+08	rs3712350	G	A	.	PASS	KIF21B	exo	NM_	missens
ACa07	1	2.01E+08	rs3723002	C	T	.	PASS	CACNA	intrc	NM_	.
ACa07	1	2.02E+08	rs3694010	G	A	.	PASS	NAV1	exo	NM_	missens
ACa07	1	2.02E+08	.	G	T	.	PASS	TIMM17	intrc	NM_	.
ACa07	1	2.04E+08	rs1044866	C	T	.	PASS	ETNK2	intrc	NM_	.
ACa07	1	2.05E+08	.	C	T	.	PASS	CNTN2	intrc	NM_	.
ACa07	1	2.07E+08	.	T	G	.	PASS	C4BPA	exo	NM_	synonyr
ACa07	1	2.08E+08	.	G	A	.	PASS	CR1L	intrc	NM_	.
ACa07	1	2.08E+08	.	T	C	.	PASS	PLXNA2	intrc	NM_	.
ACa07	1	2.1E+08	.	C	G	.	PASS	HSD11E	intrc	NM_	.
ACa07	1	2.11E+08	.	T	C	.	PASS	RCOR3	intrc	NM_	.
ACa07	1	2.13E+08	rs9188348	C	T	.	PASS	TATDN	intrc	NM_	.
ACa07	1	2.13E+08	.	C	T	.	PASS	FLVCR1	exo	NM_	missens
ACa07	1	2.13E+08	.	G	T	.	PASS	RPS6K	exo	NM_	missens
ACa07	1	2.15E+08	.	A	G	.	PASS	PTPN14	intrc	NM_	.
ACa07	1	2.15E+08	.	G	A	.	PASS	PTPN14	intrc	NM_	.
ACa07	1	2.16E+08	rs9106912	T	C	.	PASS	USH2A	exo	NM_	missens
ACa07	1	2.16E+08	.	G	T	.	PASS	USH2A	intrc	NM_	.
ACa07	1	2.16E+08	rs7564262	C	T	.	PASS	USH2A	exo	NM_	missens
ACa07	1	2.17E+08	rs1909372	C	T	.	PASS	ESRRG	UTF	NM_NM	.
ACa07	1	2.2E+08	.	C	T	.	PASS	SLC30A	splie	NM_NM	.
ACa07	1	2.2E+08	.	C	T	.	PASS	IARS2	exo	NM_	synonyr
ACa07	1	2.2E+08	rs7799500	C	T	.	PASS	IARS2	exo	NM_	missens
ACa07	1	2.21E+08	.	C	A	.	PASS	2-Mar	exo	NM_	missens
ACa07	1	2.23E+08	.	T	G	.	PASS	DISP1	exo	NM_	missens
ACa07	1	2.24E+08	.	C	T	.	PASS	NVL	intrc	NM_	.
ACa07	1	2.26E+08	.	G	A	.	PASS	TMEM6	intrc	NM_	.
ACa07	1	2.26E+08	.	G	A	.	PASS	LEFTY2	exo	NM_	missens
ACa07	1	2.27E+08	rs9303868	C	T	.	PASS	.	inte	NM_dis	.
ACa07	1	2.27E+08	.	G	A	.	PASS	ADCK3	intrc	NM_	.
ACa07	1	2.29E+08	.	A	T	.	PASS	OBSCN	exo	NM_	missens
ACa07	1	2.31E+08	.	G	A	.	PASS	TRIM67	exo	NM_	missens

ACa07	1	2.33E+08	.	C	T	.	PASS	KIAA181	intrc	NM_	.	.
ACa07	1	2.34E+08	rs1006991	C	T	.	PASS	KCNK1	exo	NM_	.	synonyr
ACa07	1	2.38E+08	rs3676265	C	T	.	PASS	RYR2	intrc	NM_	.	.
ACa07	1	2.43E+08	.	C	T	.	PASS	PLD5	intrc	NM_	.	.
ACa07	1	2.44E+08	.	C	T	.	PASS	AKT3	splic	NM_NM	.	.
ACa07	1	2.47E+08	rs1000082	G	A	.	PASS	.	inte	NM_dis	.	.
ACa07	1	2.47E+08	rs1825931	C	T	.	PASS	ZNF496	intrc	NM_	.	.
ACa07	1	2.49E+08	rs7580154	C	T	.	PASS	ZNF692	exo	NM_	.	missens
ACa07	2	1426925	rs3724090	G	A	.	PASS	TPO	intrc	NM_	.	.
ACa07	2	3212531	rs7778730	G	A	.	PASS	TSSC1	intrc	NM_	.	.
ACa07	2	3391996	.	A	G	.	PASS	TRAPP	exo	NM_	.	missens
ACa07	2	3428371	rs5690508	G	A	.	PASS	TRAPP	exo	NM_	.	missens
ACa07	2	7594616	.	T	C	.	PASS	.	inte	NR_dis	.	.
ACa07	2	9002811	rs7490370	G	A	.	PASS	MBOAT	exo	NM_	.	missens
ACa07	2	9630641	rs3691590	C	T	.	PASS	ADAM1	exo	NM_	.	missens
ACa07	2	11311984	rs9653906	G	A	.	PASS	PQLC3	intrc	NM_	.	.
ACa07	2	16736197	.	C	T	.	PASS	FAM497	intrc	NM_	.	.
ACa07	2	16740691	rs3765736	C	T	.	PASS	FAM497	intrc	NM_	.	.
ACa07	2	17830745	rs3680831	C	T	.	PASS	VSNL1	exo	NM_	.	synonyr
ACa07	2	18112529	rs7556987	C	T	.	PASS	KCNS3	exo	NM_	.	missens
ACa07	2	23916391	.	G	A	.	PASS	KLHL29	exo	NM_	.	missens
ACa07	2	24432146	rs5650507	G	A	.	PASS	ITSN2	intrc	NM_	.	.
ACa07	2	24980875	rs7736455	G	A	.	PASS	NCOA1	exo	NM_	.	synonyr
ACa07	2	27305031	rs1479767	G	A	.	PASS	EMILIN	exo	NM_	.	missens
ACa07	2	27456909	.	G	A	.	PASS	CAD	exo	NM_	.	missens
ACa07	2	27462259	.	A	T	.	PASS	CAD	exo	NM_	.	missens
ACa07	2	27716532	.	G	A	.	PASS	FNDC4	intrc	NM_	.	.
ACa07	2	30142703	.	G	A	.	PASS	ALK	intrc	NM_	.	.
ACa07	2	32750576	rs7664313	G	A	.	PASS	BIRC6	exo	NM_	.	missens
ACa07	2	32929615	rs1047800	G	A	.	PASS	TTC27	intrc	NM_	.	.
ACa07	2	33127368	.	A	G	.	PASS	LINC00	ncR	NR_	.	.
ACa07	2	37085088	.	C	T	.	PASS	STRN	exo	NM_	.	missens
ACa07	2	40655592	rs7725290	C	T	.	PASS	SLC8A1	intrc	NM_	.	.
ACa07	2	44204020	.	T	G	.	PASS	LRPPR	intrc	NM_	.	.
ACa07	2	48741989	.	T	C	.	PASS	PPP1R2	UTF	NM_NM	.	.
ACa07	2	49003359	.	C	A	.	PASS	STON1	intrc	NM_	.	.
ACa07	2	54875965	.	C	T	.	PASS	SPTBN	intrc	NM_	.	.
ACa07	2	54876819	.	C	A	.	PASS	SPTBN	exo	NM_	.	missens
ACa07	2	55237295	.	T	C	.	PASS	RTN4	UTF	NM_NM	.	.
ACa07	2	56103922	rs7787019	T	C	.	PASS	EFEMP	intrc	NM_	.	.
ACa07	2	56420574	rs7608139	C	T	.	PASS	CCDC8	exo	NM_	.	synonyr
ACa07	2	60679661	.	T	C	.	PASS	BCL11A	UTF	NM_NM	.	.
ACa07	2	63660799	.	C	T	.	PASS	WDPCF	intrc	NM_	.	.
ACa07	2	64114789	.	A	T	.	PASS	UGP2	intrc	NM_	.	.
ACa07	2	64321781	.	A	C	.	PASS	PEL1	UTF	NM_NM	.	.
ACa07	2	69040538	.	C	T	.	PASS	ARHGA	exo	NM_	.	missens
ACa07	2	69420334	.	A	G	.	PASS	ANTXR	intrc	NM_	.	.
ACa07	2	70905828	.	C	A	.	PASS	ADD2	intrc	NM_	.	.
ACa07	2	71304538	.	C	T	.	PASS	NAGK	intrc	NM_	.	.
ACa07	2	71795020	.	C	A	.	PASS	DYSF	intrc	NM_	.	.
ACa07	2	75745201	rs7670256	C	T	.	PASS	EVA1A	exo	NM_	.	synonyr
ACa07	2	84811352	.	A	G	.	PASS	DNAH6	exo	NM_	.	missens
ACa07	2	85262073	rs1883943	G	A	.	PASS	KCMF1	intrc	NM_	.	.
ACa07	2	85578699	.	G	A	.	PASS	RETSA	intrc	NM_	.	.

ACa07	2	85781324	.	G	T	.	PASS	GGCX	exo NM_	synonyr
ACa07	2	85819135	.	T	C	.	PASS	VAMP5	intrc NM_	.
ACa07	2	87169353	.	C	T	.	PASS	RGPD2	intrc NM_	.
ACa07	2	87357125	.	A	C	.	PASS	.	inte NR_dis	.
ACa07	2	87373787	rs1915368	G	A	.	PASS	.	inte NR_dis	.
ACa07	2	87580866	rs7778874	G	A	.	PASS	.	inte NR_dis	.
ACa07	2	87580910	rs2923588	G	A	.	PASS	.	inte NR_dis	.
ACa07	2	89292023	rs3763447	C	T	.	PASS	.	inte NR_dis	.
ACa07	2	89399384	.	T	G	.	PASS	.	inte NR_dis	.
ACa07	2	90048195	.	T	C	.	PASS	.	inte NR_dis	.
ACa07	2	91744332	rs8689209	G	A	.	PASS	.	inte NO dis	.
ACa07	2	91746820	rs3759446	C	A	.	PASS	.	inte NO dis	.
ACa07	2	91812093	rs1210521	G	A	.	PASS	.	inte NO dis	.
ACa07	2	95482920	rs2931782	G	A	.	PASS	ANKRD	ncR NR_	.
ACa07	2	96148540	.	A	G	.	PASS	TRIM43	intrc NM_	.
ACa07	2	96798403	rs7784367	C	T	.	PASS	ASTL	exo NM_	synonyr
ACa07	2	96964625	.	C	T	.	PASS	SNRNP	exo NM_	synonyr
ACa07	2	97311987	rs5704884	G	A	.	PASS	FER1L5	intrc NM_	.
ACa07	2	97494583	.	T	C	.	PASS	CNNM3	intrc NM_	.
ACa07	2	97784149	rs5571075	G	A	.	PASS	ANKRD	exo NM_	synonyr
ACa07	2	98128563	.	T	C	.	PASS	ANKRD	intrc NM_	.
ACa07	2	98373844	.	C	A	.	PASS	TMEM1	exo NM_	synonyr
ACa07	2	1E+08	rs7682782	C	T	.	PASS	AFF3	exo NM_	missens
ACa07	2	1.03E+08	.	G	A	.	PASS	IL18R1	exo NM_	missens
ACa07	2	1.06E+08	rs7516119	G	A	.	PASS	TGFBR1	exo NM_	synonyr
ACa07	2	1.07E+08	rs2018112	C	T	.	PASS	RGPD3	exo NM_	missens
ACa07	2	1.11E+08	rs7589510	C	T	.	PASS	BUB1	exo NM_	missens
ACa07	2	1.13E+08	.	G	A	.	PASS	.	inte NM_dis	.
ACa07	2	1.14E+08	.	A	G	.	PASS	.	dow NM_	.
ACa07	2	1.14E+08	.	A	G	.	PASS	IL36A	exo NM_	missens
ACa07	2	1.14E+08	.	G	A	.	PASS	.	inte NM_dis	.
ACa07	2	1.17E+08	.	T	C	.	PASS	DPP10	intrc NM_	.
ACa07	2	1.21E+08	rs7642264	C	T	.	PASS	RALB	exo NM_	synonyr
ACa07	2	1.28E+08	.	T	A	.	PASS	PROC	intrc NM_	.
ACa07	2	1.28E+08	.	G	A	.	PASS	MYO7B	intrc NM_	.
ACa07	2	1.31E+08	rs7817298	C	T	.	PASS	SMPD4	intrc NM_	.
ACa07	2	1.31E+08	rs1340756	G	C	.	PASS	.	inte NM_dis	.
ACa07	2	1.33E+08	rs1820004	C	T	.	PASS	.	inte NM_dis	.
ACa07	2	1.33E+08	.	A	G	.	PASS	GPR39	intrc NM_	.
ACa07	2	1.34E+08	.	C	T	.	PASS	MIR785	ncR NR_	.
ACa07	2	1.42E+08	.	C	A	.	PASS	LRP1B	intrc NM_	.
ACa07	2	1.52E+08	.	G	A	.	PASS	NEB	exo NM_	missens
ACa07	2	1.53E+08	.	G	T	.	PASS	STAM2	intrc NM_	.
ACa07	2	1.53E+08	.	G	A	.	PASS	FMNL2	intrc NM_	.
ACa07	2	1.54E+08	rs1012824	C	T	.	PASS	PRPF4C	intrc NM_	.
ACa07	2	1.54E+08	rs9859742	A	C	.	PASS	ARL6IP1	intrc NM_	.
ACa07	2	1.6E+08	rs2003571	C	T	.	PASS	TANC1	exo NM_	missens
ACa07	2	1.63E+08	rs3721419	G	A	.	PASS	SLC4A1	exo NM_	missens
ACa07	2	1.63E+08	.	G	T	.	PASS	DPP4	intrc NM_	.
ACa07	2	1.63E+08	rs1029714	C	T	.	PASS	DPP4	intrc NM_	.
ACa07	2	1.66E+08	.	G	A	.	PASS	SCN3A	intrc NM_	.
ACa07	2	1.7E+08	.	T	G	.	PASS	ABCB11	intrc NM_	.
ACa07	2	1.7E+08	.	G	T	.	PASS	BBS5	UTF NM_NM	.
ACa07	2	1.72E+08	.	A	G	.	PASS	LOC101	ncR NR_	.



ACa07	2	1.72E+08	rs9215367	C	T	.	PASS	GORAS	exon	NM_	stopgain	
ACa07	2	1.73E+08	.		T	A	.	PASS	DYNC11	intrc	NM_	.
ACa07	2	1.74E+08	rs9638533	G	A	.	PASS	RAPGE	intrc	NM_	.	
ACa07	2	1.75E+08	.		T	C	.	PASS	WIPF1	intrc	NM_	.
ACa07	2	1.76E+08	.		T	C	.	PASS	CHRNA	intrc	NM_	.
ACa07	2	1.76E+08	.		G	A	.	PASS	.	inte	NM_dis	.
ACa07	2	1.78E+08	.		A	T	.	PASS	AGPS	intrc	NM_	.
ACa07	2	1.79E+08	.		G	A	.	PASS	PDE11A	intrc	NM_	.
ACa07	2	1.8E+08	rs9603080	T	A	.	PASS	TTN	intrc	NM_	.	
ACa07	2	1.84E+08	rs3772721	C	T	.	PASS	DNAJC7	exon	NM_	missens	
ACa07	2	1.87E+08	rs3766275	T	C	.	PASS	FSIP2	exon	NM_	missens	
ACa07	2	1.87E+08	.		A	G	.	PASS	FSIP2	exon	NM_	missens
ACa07	2	1.88E+08	.		T	C	.	PASS	ITGAV	intrc	NM_	.
ACa07	2	1.9E+08	rs3768239	G	A	.	PASS	COL5A2	intrc	NM_	.	
ACa07	2	1.9E+08	rs7715235	C	T	.	PASS	WDR75	intrc	NM_	.	
ACa07	2	1.92E+08	.		G	A	.	PASS	STAT1	intrc	NM_	.
ACa07	2	1.93E+08	.		G	A	.	PASS	SDPR	exon	NM_	missens
ACa07	2	1.97E+08	.		T	A	.	PASS	STK17E	exon	NM_	missens
ACa07	2	2.01E+08	.		C	T	.	PASS	KCTD18	exon	NM_	missens
ACa07	2	2.02E+08	.		T	C	.	PASS	CLK1	exon	NM_	missens
ACa07	2	2.03E+08	rs5481928	G	A	.	PASS	KIAA207	exon	NM_	synonyr	
ACa07	2	2.04E+08	rs1901033	T	A	.	PASS	NBEAL1	intrc	NM_	.	
ACa07	2	2.04E+08	rs7778048	A	G	.	PASS	RAPH1	exon	NM_	synonyr	
ACa07	2	2.07E+08	rs1477917	G	A	.	PASS	EEF1B2	exon	NM_	synonyr	
ACa07	2	2.07E+08	rs5379398	G	A	.	PASS	ADAM2	intrc	NM_	.	
ACa07	2	2.09E+08	.		G	C	.	PASS	CRYGD	exon	NM_	missens
ACa07	2	2.1E+08	.		C	A	.	PASS	.	inte	NM_dis	.
ACa07	2	2.11E+08	.		G	A	.	PASS	UNC80	exon	NM_	missens
ACa07	2	2.11E+08	.		C	T	.	PASS	UNC80	intrc	NM_	.
ACa07	2	2.11E+08	.		A	G	.	PASS	UNC80	intrc	NM_	.
ACa07	2	2.11E+08	.		T	C	.	PASS	CPS1	intrc	NM_	.
ACa07	2	2.19E+08	.		G	T	.	PASS	TNS1	intrc	NM_	.
ACa07	2	2.19E+08	.		A	T	.	PASS	.	inte	NM_dis	.
ACa07	2	2.19E+08	.		C	A	.	PASS	CATIP-1	ncR	NR_	.
ACa07	2	2.19E+08	.		G	T	.	PASS	SLC11A	splic	NM_NM	.
ACa07	2	2.19E+08	rs5756405	G	A	.	PASS	VIL1	intrc	NM_	.	
ACa07	2	2.2E+08	.		G	T	.	PASS	TTLL4	intrc	NM_	.
ACa07	2	2.2E+08	rs3732211	G	A	.	PASS	CCDC10	intrc	NM_	.	
ACa07	2	2.2E+08	.		G	A	.	PASS	DNAJB2	exon	NM_	synonyr
ACa07	2	2.2E+08	rs7469670	C	T	.	PASS	DES	intrc	NM_	.	
ACa07	2	2.2E+08	rs5290584	C	T	.	PASS	SPEG	splic	NM_NM	.	
ACa07	2	2.22E+08	.		T	A	.	PASS	EPHA4	exon	NM_	missens
ACa07	2	2.28E+08	.		C	T	.	PASS	IRS1	exon	NM_	synonyr
ACa07	2	2.28E+08	.		A	T	.	PASS	LOC654	ncR	NR_	.
ACa07	2	2.31E+08	rs499449	C	T	.	PASS	FBXO3f	intrc	NM_	.	
ACa07	2	2.32E+08	rs7533248	G	A	.	PASS	NMUR1	exon	NM_	missens	
ACa07	2	2.33E+08	.		C	A	.	PASS	DIS3L2	splic	NM_NM	.
ACa07	2	2.33E+08	.		G	T	.	PASS	DIS3L2	intrc	NM_	.
ACa07	2	2.33E+08	.		G	A	.	PASS	ALPPL2	intrc	NM_	.
ACa07	2	2.34E+08	rs2020267	G	A	.	PASS	INPP5D	exon	NM_	unknow	
ACa07	2	2.35E+08	rs1053770	C	T	.	PASS	MROH2	intrc	NM_	.	
ACa07	2	2.35E+08	.		C	T	.	PASS	MROH2	exon	NM_	synonyr
ACa07	2	2.37E+08	.		C	T	.	PASS	IQCA1	intrc	NM_	.
ACa07	2	2.39E+08	rs7483373	C	T	.	PASS	PER2	exon	NM_	missens	

ACa07	2	2.41E+08	.	C	T	.	PASS	LOC150	ncR NR_	.	.
ACa07	2	2.42E+08	rs3776284	G	A	.	PASS	KIF1A	exo NM_	synonyr	
ACa07	2	2.42E+08	rs1500761	C	T	.	PASS	KIF1A	intrc NM_	.	.
ACa07	2	2.42E+08	.	G	T	.	PASS	.	ups  NM_	.	.
ACa07	2	2.42E+08	.	C	T	.	PASS	.	inte  NR_	dis	.
ACa07	2	2.42E+08	.	G	A	.	PASS	SNED1	intrc NM_	.	.
ACa07	3	439920	rs3731564	C	T	.	PASS	CHL1	exo NM_	synonyr	
ACa07	3	1363137	rs5694312	C	T	.	PASS	CNTN6	intrc NM_	.	.
ACa07	3	8574667	.	C	T	.	PASS	LMCD1	intrc NM_	.	.
ACa07	3	9594406	.	G	A	.	PASS	LHFPL4	UTF NM_	NM_	.
ACa07	3	9895229	rs7502023	C	T	.	PASS	.	inte  NM_	dis	.
ACa07	3	9972567	.	T	C	.	PASS	IL17RC	intrc NM_	.	.
ACa07	3	9979307	rs7567892	C	T	.	PASS	CRELD1	exo NM_	missens	
ACa07	3	10102136	.	C	T	.	PASS	FANCD1	intrc NM_	.	.
ACa07	3	10953794	.	C	T	.	PASS	SLC6A1	exo NM_	missens	
ACa07	3	11832172	.	G	A	.	PASS	TAMM4	intrc NM_	.	.
ACa07	3	12510284	.	G	A	.	PASS	.	inte  NM_	dis	.
ACa07	3	12572765	rs9925095	C	T	.	PASS	TSEN2	intrc NM_	.	.
ACa07	3	12632551	.	G	T	.	PASS	RAF1	intrc NM_	.	.
ACa07	3	12957408	.	C	A	.	PASS	IQSEC1	intrc NM_	.	.
ACa07	3	15281998	.	T	A	.	PASS	CAPN7	exo NM_	missens	
ACa07	3	17209148	.	T	C	.	PASS	TBC1D1	intrc NM_	.	.
ACa07	3	19556925	.	G	T	.	PASS	KCNH8	intrc NM_	.	.
ACa07	3	24003631	.	G	A	.	PASS	NR1D2	exo NM_	synonyr	
ACa07	3	25654229	.	C	T	.	PASS	TOP2B	intrc NM_	.	.
ACa07	3	27047435	.	A	G	.	PASS	.	inte  NM_	dis	.
ACa07	3	27478853	rs8972401	A	G	.	PASS	SLC4A7	intrc NM_	.	.
ACa07	3	30713346	rs1124655	G	A	.	PASS	TGFBR1	exo NM_	missens	
ACa07	3	31203246	.	C	T	.	PASS	.	inte  NM_	dis	.
ACa07	3	31621381	rs7802104	C	T	.	PASS	STT3B	exo NM_	unknow	
ACa07	3	36526355	.	G	T	.	PASS	STAC	intrc NM_	.	.
ACa07	3	36779885	rs5407838	G	A	.	PASS	DCLK3	exo NM_	missens	
ACa07	3	37045772	rs5599017	G	A	.	PASS	MLH1	intrc NM_	.	.
ACa07	3	37340490	.	T	C	.	PASS	GOLGA	exo NM_	synonyr	
ACa07	3	38153245	rs3732183	G	A	.	PASS	DLEC1	intrc NM_	.	.
ACa07	3	38540225	.	C	T	.	PASS	EXOGL	intrc NM_	.	.
ACa07	3	38753883	rs7485706	G	A	.	PASS	SCN10A	exo NM_	synonyr	
ACa07	3	44621509	.	G	A	.	PASS	ZKSCAN1	intrc NM_	.	.
ACa07	3	45943055	rs7745693	G	A	.	PASS	CCR9	exo NM_	missens	
ACa07	3	46786468	.	G	A	.	PASS	.	ups  NM_	.	.
ACa07	3	47058834	.	G	A	.	PASS	SETD2	intrc NM_	.	.
ACa07	3	48476363	rs7512571	C	T	.	PASS	CCDC5	exo NM_	missens	
ACa07	3	48613210	rs5304720	G	A	.	PASS	COL7A1	intrc NM_	.	.
ACa07	3	48716575	rs3713830	C	T	.	PASS	NCKIP5	exo NM_	missens	
ACa07	3	49050939	.	C	T	.	PASS	WDR6	exo NM_	missens	
ACa07	3	49095171	rs2001906	C	T	.	PASS	QRICH1	exo NM_	synonyr	
ACa07	3	49362425	.	G	A	.	PASS	USP4	exo NM_	missens	
ACa07	3	49689519	.	C	T	.	PASS	BSN	exo NM_	stopgair	
ACa07	3	49897525	.	G	T	.	PASS	CAMKV	intrc NM_	.	.
ACa07	3	50416564	rs7596904	C	T	.	PASS	CACNA	exo NM_	unknow	
ACa07	3	51909508	rs1821535	G	A	.	PASS	IQCF5-1	ncR NR_	.	.
ACa07	3	51993350	.	A	G	.	PASS	PCBP4	intrc NM_	.	.
ACa07	3	51995196	rs7780907	G	A	.	PASS	PCBP4	exo NM_	missens	
ACa07	3	52242097	.	A	G	.	PASS	ALAS1	splis NM_	NM_	.

ACa07	3	52412482	.	G	A	.	PASS	DNAH1	intrc	NM_	.	.
ACa07	3	52415487	.	A	G	.	PASS	DNAH1	intrc	NM_	.	.
ACa07	3	52425181	.	C	T	.	PASS	DNAH1	intrc	NM_	.	.
ACa07	3	52476458	rs9624625	C	T	.	PASS	SEMA3f	intrc	NM_	.	.
ACa07	3	52675780	.	A	T	.	PASS	PBRM1	intrc	NM_	.	.
ACa07	3	52713682	.	T	G	.	PASS	PBRM1	exo	NM_	.	missens
ACa07	3	53766890	.	C	T	.	PASS	CACNA	exo	NM_	.	missens
ACa07	3	53910929	rs2000990	C	T	.	PASS	ACTR8	intrc	NM_	.	.
ACa07	3	54952366	rs9858893	T	C	.	PASS	CACNA	intrc	NM_	.	.
ACa07	3	54952367	rs1042360	T	C	.	PASS	CACNA	intrc	NM_	.	.
ACa07	3	57168155	.	G	A	.	PASS	IL17RD	intrc	NM_	.	.
ACa07	3	57269719	.	C	A	.	PASS	APPL1	intrc	NM_	.	.
ACa07	3	57613858	.	G	T	.	PASS	DENND	UTF	NM_	NM_	.
ACa07	3	58383459	.	G	T	.	PASS	PXK	intrc	NM_	.	.
ACa07	3	64547317	rs7458693	C	T	.	PASS	ADAMT	exo	NM_	.	synonyr
ACa07	3	69168127	.	A	G	.	PASS	LMOD3	exo	NM_	.	missens
ACa07	3	69987019	.	C	T	.	PASS	MITF	exo	NM_	.	missens
ACa07	3	75478300	rs7794528	C	T	.	PASS	FAM86I	ncR	NR_	.	.
ACa07	3	97666222	.	G	A	.	PASS	MINA	exo	NM_	.	missens
ACa07	3	1.04E+08	.	A	G	.	PASS	.	inte	NR_	dis	.
ACa07	3	1.08E+08	.	G	T	.	PASS	KIAA15i	intrc	NM_	.	.
ACa07	3	1.09E+08	.	C	T	.	PASS	MORC1	intrc	NM_	.	.
ACa07	3	1.13E+08	.	G	T	.	PASS	CFAP44	exo	NM_	.	synonyr
ACa07	3	1.19E+08	.	A	C	.	PASS	TMEM3	splic	NM_	NM_	.
ACa07	3	1.19E+08	.	C	A	.	PASS	TMEM3	intrc	NM_	.	.
ACa07	3	1.21E+08	rs3684939	G	A	.	PASS	STXBPf	exo	NM_	.	missens
ACa07	3	1.23E+08	rs1001693	G	A	.	PASS	SEMA5l	intrc	NM_	.	.
ACa07	3	1.25E+08	rs1465223	G	A	.	PASS	.	inte	NM_	dis	.
ACa07	3	1.26E+08	.	C	A	.	PASS	UROC1	intrc	NM_	.	.
ACa07	3	1.27E+08	rs5528272	G	A	.	PASS	PLXNA1	exo	NM_	.	synonyr
ACa07	3	1.27E+08	rs7511092	G	A	.	PASS	TPRA1	exo	NM_	.	synonyr
ACa07	3	1.28E+08	.	A	G	.	PASS	.	inte	NR_	dis	.
ACa07	3	1.29E+08	rs5631647	C	T	.	PASS	LOC65c	ncR	NR_	.	.
ACa07	3	1.29E+08	.	A	G	.	PASS	RPL32F	ncR	NR_	.	.
ACa07	3	1.31E+08	.	G	A	.	PASS	NUDT1f	exo	NM_	.	missens
ACa07	3	1.32E+08	.	C	A	.	PASS	ACPP	UTF	NM_	NM_	.
ACa07	3	1.39E+08	.	G	A	.	PASS	PRR23f	exo	NM_	.	missens
ACa07	3	1.39E+08	.	C	T	.	PASS	PRR23C	exo	NM_	.	synonyr
ACa07	3	1.4E+08	rs1408440	C	T	.	PASS	CLSTN2	exo	NM_	.	synonyr
ACa07	3	1.41E+08	.	G	A	.	PASS	RASA2	exo	NM_	.	synonyr
ACa07	3	1.42E+08	.	C	T	.	PASS	TFDP2	intrc	NM_	.	.
ACa07	3	1.42E+08	rs7685217	A	T	.	PASS	ATR	intrc	NM_	.	.
ACa07	3	1.43E+08	rs7705095	C	T	.	PASS	PCOLC	exo	NM_	.	missens
ACa07	3	1.45E+08	.	G	A	.	PASS	.	inte	NM_	dis	.
ACa07	3	1.5E+08	.	C	T	.	PASS	.	inte	NR_	dis	.
ACa07	3	1.5E+08	rs7605662	C	T	.	PASS	EIF2A	exo	NM_	.	synonyr
ACa07	3	1.58E+08	.	C	A	.	PASS	GFM1	intrc	NM_	.	.
ACa07	3	1.6E+08	.	G	A	.	PASS	MIR16-2	ncR	NR_	.	.
ACa07	3	1.67E+08	.	G	A	.	PASS	.	inte	NM_	dis	.
ACa07	3	1.7E+08	.	G	C	.	PASS	.	inte	NM_	dis	.
ACa07	3	1.7E+08	rs5388049	C	T	.	PASS	SKIL	exo	NM_	.	missens
ACa07	3	1.77E+08	rs9368630	G	A	.	PASS	.	inte	NM_	dis	.
ACa07	3	1.79E+08	.	G	T	.	PASS	KCNMB	UTF	NM_	NM_	.
ACa07	3	1.79E+08	rs7652687	C	T	.	PASS	USP13	exo	NM_	.	synonyr

ACa07	3	1.81E+08	rs5714458	C	T	.	PASS	LOC101ncR	NR_	.
ACa07	3	1.83E+08	.	T	G	.	PASS	MCCC1	exo NM_	missens
ACa07	3	1.83E+08	.	C	T	.	PASS	KLHL6	exo NM_	missens
ACa07	3	1.84E+08	rs9015268	C	T	.	PASS	HTR3D	intrc	NM_
ACa07	3	1.84E+08	.	T	C	.	PASS	VWA5B	intrc	NM_
ACa07	3	1.84E+08	rs3748943	G	A	.	PASS	ECE2	exo NM_	missens
ACa07	3	1.87E+08	.	T	A	.	PASS	SST	intrc	NM_
ACa07	3	1.88E+08	rs7531929	C	T	.	PASS	LPP	exo NM_	synonyr
ACa07	3	1.94E+08	rs7777314	G	A	.	PASS	TMEM4	intrc	NM_
ACa07	3	1.95E+08	.	C	T	.	PASS	.	inte NM_	dis
ACa07	3	1.95E+08	.	C	T	.	PASS	.	inte NM_	dis
ACa07	3	1.95E+08	.	C	T	.	PASS	MUC4	intrc	NM_
ACa07	3	1.96E+08	.	C	T	.	PASS	.	inte NM_	dis
ACa07	3	1.96E+08	rs8866852	G	A	.	PASS	NRROS	intrc	NM_
ACa07	3	1.98E+08	rs7637750	A	G	.	PASS	.	inte NR_	dis
ACa07	4	429436	.	G	T	.	PASS	ABCA1	ncR	NR_
ACa07	4	952132	rs7620115	G	A	.	PASS	TMEM1	exo NM_	unknow
ACa07	4	1215618	.	C	A	.	PASS	CTBP1	intrc	NM_
ACa07	4	1646117	rs9125004	C	T	.	PASS	FAM53	intrc	NM_
ACa07	4	1739773	.	C	T	.	PASS	TACC3	intrc	NM_
ACa07	4	1834370	.	G	A	.	PASS	LETM1	intrc	NM_
ACa07	4	1953047	rs5508099	G	A	.	PASS	WHSC1	intrc	NM_
ACa07	4	2260660	.	T	C	.	PASS	MXD4	intrc	NM_
ACa07	4	3478009	.	G	A	.	PASS	DOK7	intrc	NM_
ACa07	4	3498489	rs9333127	G	A	.	PASS	.	intrc	NM_
ACa07	4	3769294	.	C	T	.	PASS	ADRA2	exo NM_	stopgair
ACa07	4	6303946	rs5603533	C	T	.	PASS	WFS1	exo NM_	synonyr
ACa07	4	6415457	.	G	A	.	PASS	PPP2R2	intrc	NM_
ACa07	4	7663381	.	G	A	.	PASS	SORCS	intrc	NM_
ACa07	4	7783107	rs3763511	G	A	.	PASS	AFAP1	exo NM_	missens
ACa07	4	8099021	rs2006520	C	T	.	PASS	ABLIM2	intrc	NM_
ACa07	4	8218865	rs7521101	C	T	.	PASS	SH3TC	exo NM_	synonyr
ACa07	4	10447435	rs7804064	G	A	.	PASS	ZNF518	exo NM_	missens
ACa07	4	13615962	.	C	A	.	PASS	BOD1L	exo NM_	missens
ACa07	4	15581724	.	G	A	.	PASS	CC2D2	exo NM_	missens
ACa07	4	20728844	.	A	T	.	PASS	PACRG	intrc	NM_
ACa07	4	24854707	.	T	C	.	PASS	CCDC1	exo NM_	missens
ACa07	4	33744074	rs1420745	A	G	.	PASS	.	inte NR_	dis
ACa07	4	39739166	rs5344165	C	T	.	PASS	UBE2K	intrc	NM_
ACa07	4	39771917	.	C	T	.	PASS	UBE2K	intrc	NM_
ACa07	4	40022163	.	G	T	.	PASS	.	inte NM_	dis
ACa07	4	40245476	rs7759148	G	A	.	PASS	RHOH	exo NM_	missens
ACa07	4	40776896	.	A	T	.	PASS	NSUN7	exo NM_	missens
ACa07	4	47033791	rs2856467	C	T	.	PASS	GABRB	intrc	NM_
ACa07	4	49244763	rs1451863	C	T	.	PASS	.	inte NM_	dis
ACa07	4	49261257	rs5941177	C	T	.	PASS	.	inte NM_	dis
ACa07	4	52861933	.	C	T	.	PASS	LRRC6	exo NM_	missens
ACa07	4	53578826	.	C	T	.	PASS	DANCR	ncR	NR_
ACa07	4	56738008	.	G	C	.	PASS	EXOC1	intrc	NM_
ACa07	4	57460905	.	C	A	.	PASS	THEGL	intrc	NM_
ACa07	4	68693318	.	G	A	.	PASS	TMPRS	intrc	NM_
ACa07	4	70361565	.	C	T	.	PASS	UGT2B	exo NM_	stopgair
ACa07	4	70803516	.	A	T	.	PASS	CSN1S	splc	NM_NM
ACa07	4	72412020	rs7619680	C	T	.	PASS	SLC4A4	intrc	NM_

ACa07	4	73169633	.	C	T	.	PASS	ADAMT	splice	NM_NM	.
ACa07	4	74365007	rs1194702	T	A	.	PASS	AFM	intronic	NM	.
ACa07	4	74477637	.	G	T	.	PASS	RASSF1	intronic	NM	.
ACa07	4	76804222	rs3691209	C	T	.	PASS	PPEF2	exonic	NM	missense
ACa07	4	77290615	.	G	T	.	PASS	CCDC1	exonic	NM	synonymous
ACa07	4	77651986	rs7609961	C	T	.	PASS	SHROCK	exonic	NM	missense
ACa07	4	79291009	.	G	T	.	PASS	FRAS1	exonic	NM	stopgain
ACa07	4	83931968	.	A	G	.	PASS	LIN54	UTR	NM_NM	.
ACa07	4	85660018	rs8867538	T	C	.	PASS	WDFY3	intronic	NM	.
ACa07	4	89671588	.	G	T	.	PASS	FAM137	exonic	NM	missense
ACa07	4	1.04E+08	.	C	A	.	PASS	NFKB1	intronic	NM	.
ACa07	4	1.06E+08	.	G	A	.	PASS	TET2	exonic	NM	missense
ACa07	4	1.07E+08	rs3719859	C	T	.	PASS	TBCK	exonic	NM	unknown
ACa07	4	1.11E+08	.	C	T	.	PASS	ENPEP	exonic	NM	synonymous
ACa07	4	1.13E+08	.	A	G	.	PASS	.	intronic	NM	disrupt
ACa07	4	1.19E+08	.	A	G	.	PASS	NDST3	intronic	NM	.
ACa07	4	1.2E+08	.	A	G	.	PASS	LOC729	ncRNA	NR	.
ACa07	4	1.2E+08	.	G	T	.	PASS	METTL7	exonic	NM	stopgain
ACa07	4	1.22E+08	.	C	A	.	PASS	NDNF	exonic	NM	missense
ACa07	4	1.26E+08	rs7744530	T	C	.	PASS	ANKRD	exonic	NM	missense
ACa07	4	1.29E+08	.	G	T	.	PASS	C4orf29	exonic	NM	missense
ACa07	4	1.29E+08	rs7741072	A	G	.	PASS	C4orf29	exonic	NM	missense
ACa07	4	1.33E+08	.	C	A	.	PASS	.	intronic	NR	disrupt
ACa07	4	1.39E+08	.	G	A	.	PASS	.	intronic	NR	disrupt
ACa07	4	1.42E+08	.	G	T	.	PASS	TBC1D9	exonic	NM	synonymous
ACa07	4	1.42E+08	.	G	A	.	PASS	TBC1D9	exonic	NM	synonymous
ACa07	4	1.43E+08	.	A	G	.	PASS	IL15	exonic	NM	synonymous
ACa07	4	1.45E+08	.	C	A	.	PASS	GYPB	intronic	NM	.
ACa07	4	1.54E+08	rs8661228	T	C	.	PASS	TRIM2	intronic	NM	.
ACa07	4	1.66E+08	rs4095550	G	A	.	PASS	KLHL2	intronic	NM	.
ACa07	4	1.73E+08	.	G	A	.	PASS	GALNT1	intronic	NM	.
ACa07	4	1.84E+08	.	A	G	.	PASS	TENM3	exonic	NM	missense
ACa07	4	1.86E+08	rs9420962	C	T	.	PASS	CCDC1	intronic	NM	.
ACa07	4	1.87E+08	.	G	A	.	PASS	SORBS	exonic	NM	synonymous
ACa07	4	1.87E+08	rs7781796	G	A	.	PASS	F11-AS1	ncRNA	NR	.
ACa07	5	482582	.	A	G	.	PASS	SLC9A3	intronic	NM	.
ACa07	5	620233	.	G	A	.	PASS	CEP72	exonic	NM	missense
ACa07	5	833995	rs412221	G	C	.	PASS	ZDHHC	intronic	NM	.
ACa07	5	1089337	rs1006578	C	T	.	PASS	SLC12A	intronic	NM	.
ACa07	5	1879655	.	C	A	.	PASS	IRX4	exonic	NM	missense
ACa07	5	4420496	rs9030458	G	A	.	PASS	.	intronic	NM	disrupt
ACa07	5	5461158	rs7491497	G	A	.	PASS	ICE1	exonic	NM	missense
ACa07	5	6491435	.	G	T	.	PASS	UBE2Q1	exonic	NM	missense
ACa07	5	6748634	.	A	G	.	PASS	PAPD7	exonic	NM	missense
ACa07	5	11159846	rs1497666	G	A	.	PASS	CTNND	exonic	NM	synonymous
ACa07	5	13820656	rs6554817	G	A	.	PASS	DNAH5	intronic	NM	.
ACa07	5	14145003	rs9140889	G	C	.	PASS	TRIO	intronic	NM	.
ACa07	5	14461080	rs7661668	G	A	.	PASS	TRIO	intronic	NM	.
ACa07	5	32522898	rs9251299	G	A	.	PASS	.	intronic	NM	disrupt
ACa07	5	33642089	rs5697598	G	A	.	PASS	ADAMT	intronic	NM	.
ACa07	5	34182050	rs8799835	G	C	.	PASS	.	intronic	NR	disrupt
ACa07	5	34182071	rs9765292	G	T	.	PASS	.	intronic	NR	disrupt
ACa07	5	34182201	rs9765293	C	T	.	PASS	.	intronic	NR	disrupt
ACa07	5	38557659	.	C	A	.	PASS	MIR365	ncRNA	NR	.

ACa07	5 40762835 .	T	A	. PASS	PRKAA1 UTF NM_ NM_ .
ACa07	5 41794029 .	A	G	. PASS	OXCT1 intrc NM_ . .
ACa07	5 43296059 .	G	T	. PASS	HMGCS intrc NM_ . .
ACa07	5 49410188 .	T	C	. PASS	. inte  NR_ dis .
ACa07	5 49410224 rs4327635 T	T	C	. PASS	. inte  NR_ dis .
ACa07	5 49410231 .	A	G	. PASS	. inte  NR_ dis .
ACa07	5 56778002 rs2005764 C	C	T	. PASS	ACTBL2 exo  NM_ . missens
ACa07	5 59189136 .	C	T	. PASS	PDE4D exo  NM_ . missens
ACa07	5 62073158 rs5582099 C	C	T	. PASS	. inte  NM_ dis .
ACa07	5 64817356 .	C	A	. PASS	CENPK spli c NM_ NM_ .
ACa07	5 65324199 .	G	A	. PASS	ERBB2I intrc NM_ . .
ACa07	5 66430158 rs5672287 G	G	A	. PASS	MAST4 intrc NM_ . .
ACa07	5 66461072 .	A	G	. PASS	MAST4 exo  NM_ . missens
ACa07	5 66461884 rs2016310 C	C	T	. PASS	MAST4 exo  NM_ . missens
ACa07	5 67592074 .	C	T	. PASS	PIK3R1 exo  NM_ . synonymr
ACa07	5 68670689 .	A	G	. PASS	RAD17 intrc NM_ . .
ACa07	5 69826392 .	C	G	. PASS	GUSBP ncR NR_ . .
ACa07	5 71482425 .	C	A	. PASS	MAP1B intrc NM_ . .
ACa07	5 74948776 .	A	G	. PASS	ANKDD intrc NM_ . .
ACa07	5 78808788 .	C	T	. PASS	HOMER UTF NM_ NM_ .
ACa07	5 80626348 .	G	A	. PASS	ACOT12 exo  NM_ . synonymr
ACa07	5 82352890 .	G	A	. PASS	TMEM1 UTF NM_ NM_ .
ACa07	5 82868186 rs3717547 C	C	T	. PASS	VCAN intrc NM_ . .
ACa07	5 86811590 rs7815826 C	C	T	. PASS	. inte  NM_ dis .
ACa07	5 89989950 .	G	T	. PASS	GPR98 exo  NM_ . missens
ACa07	5 93809079 .	G	A	. PASS	KIAA082 exo  NM_ . missens
ACa07	5 94936743 rs7633968 C	C	T	. PASS	ARSK exo  NM_ . missens
ACa07	5 99401916 .	C	T	. PASS	. inte  NR_ dis .
ACa07	5 1.02E+08 .	A	C	. PASS	PAM exo  NM_ . missens
ACa07	5 1.02E+08 rs1114874 C	C	T	. PASS	PAM intrc NM_ . .
ACa07	5 1.1E+08 .	G	T	. PASS	. ups  NM_ . .
ACa07	5 1.12E+08 .	A	G	. PASS	EPB41L exo  NM_ . synonymr
ACa07	5 1.16E+08 .	C	T	. PASS	SEMA6 exo  NM_ . synonymr
ACa07	5 1.19E+08 .	G	T	. PASS	TNFAIP intrc NM_ . .
ACa07	5 1.32E+08 rs9346631 G	G	A	. PASS	SOWAF exo  NM_ . unknow
ACa07	5 1.32E+08 .	A	T	. PASS	AFF4 intrc NM_ . .
ACa07	5 1.33E+08 rs7465490 C	C	T	. PASS	FSTL4 exo  NM_ . synonymr
ACa07	5 1.34E+08 .	C	T	. PASS	. ups  NM_ . .
ACa07	5 1.34E+08 rs7470418 T	T	C	. PASS	DDX46 intrc NM_ . .
ACa07	5 1.38E+08 rs7665720 C	C	T	. PASS	CDC25C exo  NM_ . missens
ACa07	5 1.38E+08 .	A	G	. PASS	CDC25C exo  NM_ . missens
ACa07	5 1.38E+08 .	A	G	. PASS	EGR1 exo  NM_ . missens
ACa07	5 1.38E+08 rs7721589 G	G	A	. PASS	EGR1 exo  NM_ . missens
ACa07	5 1.4E+08 .	T	C	. PASS	ANKHD exo  NM_ . missens
ACa07	5 1.4E+08 .	G	A	. PASS	PCDHA exo  NM_ . synonymr
ACa07	5 1.4E+08 .	C	T	. PASS	PCDHA exo  NM_ . synonymr
ACa07	5 1.4E+08 rs7823690 G	G	A	. PASS	PCDHA exo  NM_ . synonymr
ACa07	5 1.41E+08 .	G	A	. PASS	PCDHB exo  NM_ . missens
ACa07	5 1.41E+08 .	C	T	. PASS	PCDHB exo  NM_ . missens
ACa07	5 1.41E+08 .	C	T	. PASS	PCDHG exo  NM_ . synonymr
ACa07	5 1.41E+08 rs9814581 C	C	T	. PASS	PCDHG exo  NM_ . missens
ACa07	5 1.41E+08 rs5446331 C	C	T	. PASS	PCDHG exo  NM_ . synonymr
ACa07	5 1.41E+08 rs3769527 C	C	T	. PASS	PCDHG exo  NM_ . synonymr
ACa07	5 1.41E+08 rs7719463 G	G	A	. PASS	PCDHG exo  NM_ . missens

ACa07	5	1.41E+08	rs2018026	G	A	.	PASS	KIAA014	exo NM_	missens
ACa07	5	1.47E+08	rs1000063	A	G	.	PASS	JAKMIP	UTF NM_NM_	
ACa07	5	1.49E+08	.	T	C	.	PASS	CSNK1I	intrc NM_	.
ACa07	5	1.49E+08	.	A	T	.	PASS	PDE6A	intrc NM_	.
ACa07	5	1.5E+08	.	G	A	.	PASS	SYNPO	exo NM_	missens
ACa07	5	1.51E+08	.	C	A	.	PASS	G3BP1	exo NM_	missens
ACa07	5	1.57E+08	rs5492040	G	A	.	PASS	CYFIP2	intrc NM_	.
ACa07	5	1.59E+08	rs5611223	C	T	.	PASS	RNF145	exo NM_	missens
ACa07	5	1.67E+08	.	G	A	.	PASS	TENM2	exo NM_	missens
ACa07	5	1.68E+08	.	C	A	.	PASS	TENM2	exo NM_	missens
ACa07	5	1.68E+08	rs1491693	C	T	.	PASS	WWC1	exo NM_	missens
ACa07	5	1.68E+08	rs7577825	C	T	.	PASS	RARS	exo NM_	missens
ACa07	5	1.68E+08	.	G	T	.	PASS	SLIT3	intrc NM_	.
ACa07	5	1.72E+08	.	T	C	.	PASS	SH3PXI	exo NM_	missens
ACa07	5	1.72E+08	rs1822272	C	T	.	PASS	NEURL	intrc NM_	.
ACa07	5	1.73E+08	.	C	A	.	PASS	CREBR	intrc NM_	.
ACa07	5	1.76E+08	.	T	C	.	PASS	FAF2	intrc NM_	.
ACa07	5	1.77E+08	.	G	A	.	PASS	FGFR4	intrc NM_	.
ACa07	5	1.77E+08	rs4551119	G	A	.	PASS	FGFR4	intrc NM_	.
ACa07	5	1.77E+08	rs5582208	C	T	.	PASS	FGFR4	exo NM_	missens
ACa07	5	1.77E+08	.	C	A	.	PASS	LOC202	ncR NR_	.
ACa07	5	1.77E+08	.	C	T	.	PASS	FAM155	intrc NM_	.
ACa07	5	1.78E+08	.	G	A	.	PASS	GRM6	UTF NM_NM_	
ACa07	5	1.79E+08	rs1025870	G	A	.	PASS	.	inte NM_dis	.
ACa07	5	1.79E+08	.	G	A	.	PASS	MGAT4I	UTF NM_NM_	
ACa07	5	1.8E+08	.	G	T	.	PASS	GFPT2	intrc NM_	.
ACa07	6	4996642	rs7651293	G	A	.	PASS	RPP40	exo NM_	missens
ACa07	6	5001178	rs1023580	A	T	.	PASS	RPP40	intrc NM_	.
ACa07	6	7269296	rs1864505	G	A	.	PASS	.	inte NM_dis	.
ACa07	6	7481383	.	A	G	.	PASS	.	inte NM_dis	.
ACa07	6	7883534	rs2004302	C	T	.	PASS	BLOC15	ncR NR_	.
ACa07	6	10084993	.	T	A	.	PASS	.	inte NR_dis	.
ACa07	6	10557615	rs3692600	G	A	.	PASS	GCNT2	intrc NM_	.
ACa07	6	12122025	rs7468362	G	A	.	PASS	HIVEP1	exo NM_	missens
ACa07	6	15523454	rs7674897	C	T	.	PASS	DTNBP	splc NM_NM_	
ACa07	6	22147112	.	T	G	.	PASS	CASC15	ncR NR_	.
ACa07	6	23854521	.	C	T	.	PASS	.	inte NM_dis	.
ACa07	6	25023988	.	G	A	.	PASS	FAM65E	intrc NM_	.
ACa07	6	26865005	.	T	C	.	PASS	GUSBP	ncR NR_	.
ACa07	6	27179321	.	G	A	.	PASS	.	inte NR_dis	.
ACa07	6	28058830	.	C	T	.	PASS	ZSCAN	ncR NR_	.
ACa07	6	28321550	.	G	A	.	PASS	ZKSCAN	intrc NM_	.
ACa07	6	28569767	.	T	C	.	PASS	.	inte NM_dis	.
ACa07	6	29643881	rs7653588	G	A	.	PASS	ZFP57	intrc NM_	.
ACa07	6	29856132	.	A	G	.	PASS	HLA-H	ncR NR_	.
ACa07	6	30530100	rs7511377	C	T	.	PASS	PRR3	intrc NM_	.
ACa07	6	30679176	.	G	T	.	PASS	MDC1	intrc NM_	.
ACa07	6	31429977	.	G	A	.	PASS	.	ups NR_	.
ACa07	6	31487246	.	A	G	.	PASS	.	inte NM_dis	.
ACa07	6	31594834	rs7792598	C	T	.	PASS	PRRC2	exo NM_	synonyr
ACa07	6	31750447	.	G	A	.	PASS	VARS	intrc NM_	.
ACa07	6	32412629	.	T	C	.	PASS	HLA-DR	UTF NM_NM_	
ACa07	6	33144803	rs1119219	C	T	.	PASS	COL11F	exo NM_	missens
ACa07	6	33147259	rs7759216	C	T	.	PASS	COL11F	exo NM_	synonyr

ACa07	6 33658820 .	G	A	. PASS	ITPR3	exo NM_	missens
ACa07	6 34498074 .	G	T	. PASS	PAC3IN	exo NM_	missens
ACa07	6 35378846 rs7740360	C	T	. PASS	PPARD	UTF NM_NM_	
ACa07	6 35387747 .	C	T	. PASS	PPARD	intrc NM_	.
ACa07	6 35392381 rs7715433	C	T	. PASS	PPARD	exo NM_	synonyr
ACa07	6 35436310 .	G	A	. PASS	RPL10A	intrc NM_	.
ACa07	6 35927609 .	G	C	. PASS	SLC26A	intrc NM_	.
ACa07	6 36710079 rs1007644	G	A	. PASS	CPNE5	exo NM_	missens
ACa07	6 39843088 .	A	G	. PASS	DAAM2	intrc NM_	.
ACa07	6 41217331 rs3751257	C	T	. PASS	.	dow NR_	.
ACa07	6 41617431 rs7778285	G	A	. PASS	MDF1	exo NM_	missens
ACa07	6 41738534 .	C	A	. PASS	FRS3	exo NM_	missens
ACa07	6 42153585 rs8008274	C	A	. PASS	GUCA11	intrc NM_	.
ACa07	6 42227276 rs7806884	C	T	. PASS	TRERF	exo NM_	unknow
ACa07	6 42689635 .	G	T	. PASS	PRPH2	exo NM_	synonyr
ACa07	6 43100271 rs1434417	C	T	. PASS	PTK7	exo NM_	synonyr
ACa07	6 43126633 .	C	T	. PASS	PTK7	exo NM_	missens
ACa07	6 43325659 .	G	T	. PASS	ZNF318	intrc NM_	.
ACa07	6 43484278 .	A	G	. PASS	YIPF3	intrc NM_	.
ACa07	6 43499264 rs1496900	G	A	. PASS	XPO5	exo NM_	synonyr
ACa07	6 44255388 rs1435325	G	A	. PASS	TCTE1	exo NM_	missens
ACa07	6 52715113 .	G	A	. PASS	.	inte NM_dis	.
ACa07	6 56323987 .	C	A	. PASS	DST	exo NM_	missens
ACa07	6 63939195 .	C	G	. PASS	.	inte NM_dis	.
ACa07	6 70890361 .	A	G	. PASS	COL19A	exo NM_	synonyr
ACa07	6 71571705 rs2021606	A	G	. PASS	SMAP1	UTF NM_NM_	
ACa07	6 74073122 .	A	T	. PASS	KHDC31	intrc NM_	.
ACa07	6 74432967 .	C	A	. PASS	CD109	intrc NM_	.
ACa07	6 79651030 rs7761622	C	T	. PASS	PHIP	exo NM_	missens
ACa07	6 80878661 rs1497660	C	T	. PASS	BCKDH	exo NM_	missens
ACa07	6 84629075 rs1002475	T	C	. PASS	CYB5R2	intrc NM_	.
ACa07	6 88218841 rs7619979	G	A	. PASS	SLC35A	exo NM_	synonyr
ACa07	6 90497830 rs1015787	G	A	. PASS	MDN1	intrc NM_	.
ACa07	6 90605889 .	C	T	. PASS	.	dow NM_	.
ACa07	6 99283939 .	T	C	. PASS	POU3F2	exo NM_	missens
ACa07	6 1.07E+08 rs5581466	A	C	. PASS	LOC100	ncR NR_	.
ACa07	6 1.09E+08 .	T	C	. PASS	NR2E1	intrc NM_	.
ACa07	6 1.09E+08 .	T	C	. PASS	SESN1	intrc NM_	.
ACa07	6 1.1E+08 .	T	C	. PASS	PPIL6	UTF NM_NM_	
ACa07	6 1.1E+08 .	G	T	. PASS	MICAL1	intrc NM_	.
ACa07	6 1.12E+08 .	G	T	. PASS	REV3L	exo NM_	missens
ACa07	6 1.22E+08 .	C	T	. PASS	.	inte NM_dis	.
ACa07	6 1.22E+08 .	G	A	. PASS	.	inte NM_dis	.
ACa07	6 1.26E+08 .	T	C	. PASS	TRMT1	intrc NM_	.
ACa07	6 1.3E+08 rs3754749	C	T	. PASS	LAMA2	intrc NM_	.
ACa07	6 1.3E+08 .	A	C	. PASS	LAMA2	intrc NM_	.
ACa07	6 1.34E+08 rs7606036	G	A	. PASS	EYA4	exo NM_	missens
ACa07	6 1.35E+08 rs5279151	G	A	. PASS	ALDH8	intrc NM_	.
ACa07	6 1.37E+08 rs1006659	T	C	. PASS	IL20RA	intrc NM_	.
ACa07	6 1.39E+08 .	T	C	. PASS	KIAA12	intrc NM_	.
ACa07	6 1.39E+08 .	C	T	. PASS	KIAA12	intrc NM_	.
ACa07	6 1.43E+08 rs1910958	G	A	. PASS	GPR12	intrc NM_	.
ACa07	6 1.45E+08 rs1401901	G	A	. PASS	STX11	exo NM_	missens
ACa07	6 1.47E+08 .	A	G	. PASS	ADGB	exo NM_	missens



ACa07	6	1.49E+08	rs7737449	C	T	.	PASS	UST	exon	NM_	missens
ACa07	6	1.5E+08	rs7774557	A	G	.	PASS	GINM1	exon	NM_	missens
ACa07	6	1.5E+08	.	T	C	.	PASS	KATNA1	exon	NM_	missens
ACa07	6	1.5E+08	.	T	C	.	PASS	RAET1E	ncR	NR_	.
ACa07	6	1.52E+08	.	C	T	.	PASS	AKAP12	intrc	NM_	.
ACa07	6	1.52E+08	.	C	T	.	PASS	SYNE1	intrc	NM_	.
ACa07	6	1.53E+08	rs5290225	G	A	.	PASS	SYNE1	intrc	NM_	.
ACa07	6	1.53E+08	.	T	C	.	PASS	SYNE1	intrc	NM_	.
ACa07	6	1.55E+08	.	T	C	.	PASS	IPCEF1	exon	NM_	missens
ACa07	6	1.55E+08	.	G	A	.	PASS	SCAF8	exon	NM_	missens
ACa07	6	1.58E+08	.	C	T	.	PASS	ARID1B	exon	NM_	stopgain
ACa07	6	1.59E+08	rs1015839	G	A	.	PASS	TMEM1	intrc	NM_	.
ACa07	6	1.6E+08	.	C	T	.	PASS	SOD2	exon	NM_	missens
ACa07	6	1.6E+08	.	G	A	.	PASS	.	inte	NM_dis	.
ACa07	6	1.61E+08	.	C	T	.	PASS	LOC729	ncR	NR_	.
ACa07	6	1.61E+08	.	C	T	.	PASS	LPA	intrc	NM_	.
ACa07	6	1.61E+08	.	C	T	.	PASS	MAP3K1	intrc	NM_	.
ACa07	6	1.62E+08	.	T	C	.	PASS	PARK2	exon	NM_	missens
ACa07	6	1.64E+08	rs7739962	C	T	.	PASS	QKI	exon	NM_	synonym
ACa07	6	1.66E+08	rs2008105	G	A	.	PASS	C6orf11	exon	NM_	missens
ACa07	6	1.68E+08	rs7558449	C	T	.	PASS	TCP10	intrc	NM_	.
ACa07	6	1.7E+08	.	A	G	.	PASS	WDR27	UTF	NM_NM	.
ACa07	7	296714	.	T	A	.	PASS	FAM20C	exon	NM_	missens
ACa07	7	1458899	.	C	T	.	PASS	.	inte	NM_dis	.
ACa07	7	1482145	.	G	T	.	PASS	MICALL	intrc	NM_	.
ACa07	7	1515597	.	C	T	.	PASS	INTS1	exon	NM_	missens
ACa07	7	1519120	.	C	T	.	PASS	INTS1	exon	NM_	missens
ACa07	7	1526597	rs7786995	G	A	.	PASS	INTS1	exon	NM_	synonym
ACa07	7	1589844	.	A	G	.	PASS	TMEM1	intrc	NM_	.
ACa07	7	2282801	.	G	A	.	PASS	NUDT1	intrc	NM_	.
ACa07	7	2472403	rs5612232	G	A	.	PASS	CHST12	exon	NM_	synonym
ACa07	7	2958116	.	C	T	.	PASS	CARD1	intrc	NM_	.
ACa07	7	4009076	rs3699321	C	T	.	PASS	SDK1	intrc	NM_	.
ACa07	7	4150245	.	C	A	.	PASS	SDK1	intrc	NM_	.
ACa07	7	4822805	rs5413152	C	T	.	PASS	AP5Z1	intrc	NM_	.
ACa07	7	5963539	.	C	T	.	PASS	CCZ1	exon	NM_	missens
ACa07	7	6205433	.	C	A	.	PASS	CYTH3	exon	NM_	missens
ACa07	7	6464401	rs7747652	C	A	.	PASS	DAGLB	exon	NM_	missens
ACa07	7	6548610	.	G	T	.	PASS	GRID2II	exon	NM_	synonym
ACa07	7	6639930	.	C	T	.	PASS	C7orf26	exon	NM_	missens
ACa07	7	6693528	.	C	T	.	PASS	ZNF316	exon	NM_	synonym
ACa07	7	6845627	rs7800175	G	A	.	PASS	CCZ1B	intrc	NM_	.
ACa07	7	6862125	rs8790524	A	G	.	PASS	CCZ1B	intrc	NM_	.
ACa07	7	6862133	rs3726603	G	A	.	PASS	CCZ1B	intrc	NM_	.
ACa07	7	7398413	.	T	C	.	PASS	COL28A1	exon	NM_	missens
ACa07	7	7612747	.	G	A	.	PASS	MIOS	exon	NM_	missens
ACa07	7	10516161	.	G	A	.	PASS	.	inte	NR_dis	.
ACa07	7	11675991	.	C	A	.	PASS	THSD7A	exon	NM_	missens
ACa07	7	20762859	.	T	C	.	PASS	ABCB5	intrc	NM_	.
ACa07	7	21788267	rs3710375	C	T	.	PASS	DNAH1	exon	NM_	synonym
ACa07	7	22459357	.	T	C	.	PASS	STEAP1	UTF	NM_NM	.
ACa07	7	23651273	.	A	T	.	PASS	CCDC1	intrc	NM_	.
ACa07	7	27689124	rs1427054	C	T	.	PASS	HIBADH	exon	NM_	missens
ACa07	7	30475623	.	T	C	.	PASS	NOD1	exon	NM_	missens

ACa07	7 32511099 .	C	T	. PASS	. inte  NR_ dis .
ACa07	7 32660665 .	G	T	. PASS	DPY19L ncR NR_ . .
ACa07	7 33014358 rs7507081	C	T	. PASS	FKBP9 exo  NM_ . synonymr
ACa07	7 33644928 .	C	T	. PASS	BBS9 UTF NM_ NM_ .
ACa07	7 35006340 .	G	A	. PASS	DPY19L intrc NM_ . .
ACa07	7 35130022 rs7696767	C	T	. PASS	DPY19L ncR NR_ . .
ACa07	7 38289110 .	G	A	. PASS	. inte  NM_ dis .
ACa07	7 43484829 rs7755650	G	A	. PASS	HECW1 exo  NM_ . synonymr
ACa07	7 43508353 .	G	A	. PASS	HECW1 intrc NM_ . .
ACa07	7 43918365 .	G	A	. PASS	URGCP exo  NM_ . unknow
ACa07	7 44178934 rs1113701	G	A	. PASS	MYL7 intrc NM_ . .
ACa07	7 44619296 .	G	A	. PASS	TMED4 intrc NM_ . .
ACa07	7 44747033 .	G	T	. PASS	OGDH intrc NM_ . .
ACa07	7 45701804 rs7476235	C	T	. PASS	ADCY1 exo  NM_ . synonymr
ACa07	7 45954730 rs1024757	G	A	. PASS	IGFBP3 intrc NM_ . .
ACa07	7 47385996 .	A	C	. PASS	TNS3 intrc NM_ . .
ACa07	7 47853147 .	T	C	. PASS	C7orf69 exo  NM_ . unknow
ACa07	7 56183779 .	G	A	. PASS	NUPR1  exo  NM_ . missens
ACa07	7 56439590 .	C	T	. PASS	. inte  NM_ dis .
ACa07	7 56754394 .	G	T	. PASS	. inte  NR_ dis .
ACa07	7 56884079 .	C	T	. PASS	. inte  NR_ dis .
ACa07	7 56886881 rs3749762	T	G	. PASS	. inte  NR_ dis .
ACa07	7 56888099 .	C	T	. PASS	. inte  NR_ dis .
ACa07	7 56888183 rs8799601	C	T	. PASS	. inte  NR_ dis .
ACa07	7 57082082 .	G	A	. PASS	. inte  NR_ dis .
ACa07	7 63022876 .	C	T	. PASS	. inte  NR_ dis .
ACa07	7 63022930 .	C	T	. PASS	. inte  NR_ dis .
ACa07	7 63219077 .	G	T	. PASS	. inte  NR_ dis .
ACa07	7 63219280 .	G	A	. PASS	. inte  NR_ dis .
ACa07	7 64639495 rs6156381	C	T	. PASS	. ncR NR_ . .
ACa07	7 65222986 .	G	T	. PASS	CCT6P' ncR NR_ . .
ACa07	7 65223001 .	G	A	. PASS	CCT6P' ncR NR_ . .
ACa07	7 66520742 rs5480693	T	A	. PASS	TYW1 intrc NM_ . .
ACa07	7 71175845 rs7706902	C	T	. PASS	WBSCR exo  NM_ . missens
ACa07	7 72336710 rs5574064	C	T	. PASS	SPDYE' ncR NR_ . .
ACa07	7 72640092 .	T	C	. PASS	NCF1B ncR NR_ . .
ACa07	7 72742252 .	G	A	. PASS	FKBP6 UTF NM_ NM_ .
ACa07	7 72849745 .	C	T	. PASS	FZD9 exo  NM_ . missens
ACa07	7 72856782 rs7822351	C	T	. PASS	BAZ1B exo  NM_ . missens
ACa07	7 73151034 .	G	T	. PASS	ABHD1' intrc NM_ . .
ACa07	7 73634643 .	G	A	. PASS	LAT2 intrc NM_ . .
ACa07	7 73935595 rs7822129	G	A	. PASS	GTF2IR exo  NM_ . missens
ACa07	7 74193774 rs3705131	T	C	. PASS	NCF1 intrc NM_ . .
ACa07	7 74608537 rs8799812	T	C	. PASS	GTF2IP ncR NR_ . .
ACa07	7 76099560 rs1493360	T	C	. PASS	FDPSP' ncR NR_ . .
ACa07	7 76133994 rs1403890	T	A	. PASS	DTX2 intrc NM_ . .
ACa07	7 81613821 .	G	A	. PASS	CACNA intrc NM_ . .
ACa07	7 82219933 .	A	G	. PASS	. inte  NM_ dis .
ACa07	7 82457265 .	C	A	. PASS	PCLO exo  NM_ . missens
ACa07	7 90747485 rs1413343	G	A	. PASS	CDK14 exo  NM_ . missens
ACa07	7 93633731 rs9879024	G	T	. PASS	. ups  NM_ . .
ACa07	7 94039078 rs7641741	G	A	. PASS	COL1A2 exo  NM_ . missens
ACa07	7 94268607 .	T	G	. PASS	SGCE intrc NM_ . .
ACa07	7 95166840 .	G	A	. PASS	ASB4 intrc NM_ . .

ACa07	7	97820925	.	G	T	.	PASS	LMTK2	splice	NM_NM	.
ACa07	7	98551092	rs7821462	C	T	.	PASS	TRRAP	intronic	NM	.
ACa07	7	98563456	rs7752142	C	T	.	PASS	TRRAP	exonic	NM	missense
ACa07	7	98877074	.	C	T	.	PASS	MYH16	ncRNA	NR	.
ACa07	7	98877268	rs9034524	G	A	.	PASS	MYH16	ncRNA	NR	.
ACa07	7	1E+08	rs5767320	G	A	.	PASS	PCOLCE	exonic	NM	missense
ACa07	7	1E+08	.	C	T	.	PASS	ACTL6E	exonic	NM	synonymous
ACa07	7	1.01E+08	rs7641678	C	T	.	PASS	MUC12	exonic	NM	stopgain
ACa07	7	1.01E+08	.	G	A	.	PASS	MOGAT1	intronic	NM	.
ACa07	7	1.02E+08	.	G	A	.	PASS	CUX1	exonic	NM	missense
ACa07	7	1.02E+08	rs7590335	C	T	.	PASS	RASA4E	exonic	NM	synonymous
ACa07	7	1.02E+08	rs4729845	T	C	.	PASS	SPDYE2	intronic	NM	.
ACa07	7	1.03E+08	.	C	T	.	PASS	PSMC2	exonic	NM	missense
ACa07	7	1.04E+08	.	G	A	.	PASS	ORC5	exonic	NM	missense
ACa07	7	1.11E+08	.	T	C	.	PASS	LRRN3	exonic	NM	synonymous
ACa07	7	1.12E+08	.	G	A	.	PASS	IFRD1	intronic	NM	.
ACa07	7	1.17E+08	.	G	A	.	PASS	ASZ1	intronic	NM	.
ACa07	7	1.22E+08	rs1457073	C	T	.	PASS	AASS	intronic	NM	.
ACa07	7	1.24E+08	.	G	A	.	PASS	.	intronic	NR_dis	.
ACa07	7	1.24E+08	rs3755434	C	T	.	PASS	GPR37	exonic	NM	missense
ACa07	7	1.28E+08	.	T	A	.	PASS	.	intronic	NM_dis	.
ACa07	7	1.28E+08	.	G	T	.	PASS	FLNC	exonic	NM	missense
ACa07	7	1.29E+08	rs2006779	C	T	.	PASS	SMO	exonic	NM	synonymous
ACa07	7	1.29E+08	.	G	T	.	PASS	.	upstream	NM	.
ACa07	7	1.32E+08	rs3679590	G	A	.	PASS	PLXNA2	exonic	NM	missense
ACa07	7	1.35E+08	.	C	A	.	PASS	.	intronic	NM_dis	.
ACa07	7	1.37E+08	.	G	A	.	PASS	DGKI	intronic	NM	.
ACa07	7	1.37E+08	.	A	G	.	PASS	DGKI	exonic	NM	missense
ACa07	7	1.38E+08	.	C	T	.	PASS	CREB3L1	exonic	NM	missense
ACa07	7	1.38E+08	rs1825415	G	A	.	PASS	ATP6V1C	intronic	NM	.
ACa07	7	1.4E+08	.	T	C	.	PASS	SLC37A1	intronic	NM	.
ACa07	7	1.41E+08	.	C	T	.	PASS	.	intronic	NM_dis	.
ACa07	7	1.41E+08	.	C	T	.	PASS	AGK	intronic	NM	.
ACa07	7	1.42E+08	rs7825497	C	T	.	PASS	MGAM	exonic	NM	missense
ACa07	7	1.42E+08	.	C	T	.	PASS	.	exonic	NM	unknown
ACa07	7	1.42E+08	.	C	A	.	PASS	.	intronic	NR_dis	.
ACa07	7	1.42E+08	.	C	T	.	PASS	.	intronic	NR_dis	.
ACa07	7	1.42E+08	.	C	T	.	PASS	.	intronic	NR_dis	.
ACa07	7	1.42E+08	rs7663697	C	T	.	PASS	.	intronic	NR_dis	.
ACa07	7	1.43E+08	.	G	A	.	PASS	GSTK1	intronic	NM	.
ACa07	7	1.43E+08	rs3733853	G	A	.	PASS	FAM131A	intronic	NM	.
ACa07	7	1.48E+08	rs7598872	C	T	.	PASS	CNTNA1	exonic	NM	synonymous
ACa07	7	1.49E+08	rs8019707	C	T	.	PASS	KRBA1	intronic	NM	.
ACa07	7	1.5E+08	rs1447568	G	A	.	PASS	SSPO	exonic	NM	missense
ACa07	7	1.5E+08	.	T	G	.	PASS	ZNF775	UTR	NM_NM	.
ACa07	7	1.51E+08	.	A	G	.	PASS	NOS3	intronic	NM	.
ACa07	7	1.51E+08	.	C	T	.	PASS	ATG9B	exonic	NM	unknown
ACa07	7	1.51E+08	.	C	T	.	PASS	CDK5	exonic	NM	missense
ACa07	7	1.51E+08	.	C	T	.	PASS	TMUB1	exonic	NM	missense
ACa07	7	1.51E+08	.	C	T	.	PASS	PRKAG1	intronic	NM	.
ACa07	7	1.52E+08	.	C	T	.	PASS	PRKAG1	intronic	NM	.
ACa07	7	1.52E+08	rs3761181	C	T	.	PASS	KMT2C	exonic	NM	missense
ACa07	7	1.52E+08	.	G	C	.	PASS	ACTR3L	intronic	NM	.
ACa07	7	1.54E+08	rs9367654	G	A	.	PASS	DPP6	intronic	NM	.

ACa07	7	1.57E+08	.	G	T	.	PASS	UBE3C	intrc	NM_	.	.
ACa07	7	1.58E+08	rs1056749	G	A	.	PASS	PTPRN	intrc	NM_	.	.
ACa07	7	1.58E+08	rs3696336	T	A	.	PASS	PTPRN	intrc	NM_	.	.
ACa07	7	1.59E+08	.	C	T	.	PASS	.	inte	NM_	dis	.
ACa07	8	328564	.	C	T	.	PASS	FAM87	ncR	NR_	.	.
ACa07	8	1728466	.	T	A	.	PASS	CLN8	exo	NM_	.	synonyr
ACa07	8	6668771	rs1995647	G	A	.	PASS	XKR5	exo	NM_	.	missens
ACa07	8	6794236	.	C	A	.	PASS	DEFA4	intrc	NM_	.	.
ACa07	8	7191342	rs7692119	T	C	.	PASS	USP17L	exo	NM_	.	synonyr
ACa07	8	7915727	rs2946428	C	T	.	PASS	.	inte	NR_	dis	.
ACa07	8	8560334	rs7810476	C	T	.	PASS	CLDN2	exo	NM_	.	synonyr
ACa07	8	10469012	rs7606573	G	A	.	PASS	RP1L1	exo	NM_	.	missens
ACa07	8	10530224	.	G	A	.	PASS	C8orf74	splix	NM_	NM_	.
ACa07	8	10584255	rs7511375	C	T	.	PASS	SOX7	intrc	NM_	.	.
ACa07	8	11189479	rs7626017	C	T	.	PASS	SLC35C	exo	NM_	.	synonyr
ACa07	8	11204044	.	C	T	.	PASS	TDH	ncR	NR_	.	.
ACa07	8	12237303	.	C	T	.	PASS	FAM66	ncR	NR_	.	.
ACa07	8	12293333	rs3988723	A	G	.	PASS	FAM86E	intrc	NM_	.	.
ACa07	8	12459464	rs3713666	A	T	.	PASS	LOC72	ncR	NR_	.	.
ACa07	8	12944087	rs1036449	G	A	.	PASS	DLC1	intrc	NM_	.	.
ACa07	8	15480640	.	T	C	.	PASS	TUSC3	exo	NM_	.	missens
ACa07	8	20231256	rs1470216	A	G	.	PASS	.	inte	NR_	dis	.
ACa07	8	20231262	rs1394112	G	A	.	PASS	.	inte	NR_	dis	.
ACa07	8	21981390	.	C	T	.	PASS	HR	intrc	NM_	.	.
ACa07	8	23049182	.	G	T	.	PASS	TNFRSF10F	NM_	NM_	.	.
ACa07	8	23152173	.	C	A	.	PASS	R3HCC	intrc	NM_	.	.
ACa07	8	23560117	.	G	T	.	PASS	NKX2-6	exo	NM_	.	synonyr
ACa07	8	25267590	rs7690910	C	T	.	PASS	DOCK5	intrc	NM_	.	.
ACa07	8	25293068	rs2013688	G	A	.	PASS	KCTD9	intrc	NM_	.	.
ACa07	8	26363068	.	G	A	.	PASS	PNMA2	UTF	NM_	NM_	.
ACa07	8	27369366	rs7247582	C	T	.	PASS	EPHX2	exo	NM_	.	missens
ACa07	8	28929051	.	G	A	.	PASS	KIF13B	intrc	NM_	.	.
ACa07	8	30703725	rs1419780	G	A	.	PASS	TEX15	exo	NM_	.	stopgair
ACa07	8	33451130	rs1198970	G	A	.	PASS	DUSP2	exo	NM_	.	synonyr
ACa07	8	36768413	rs5320288	C	T	.	PASS	KCNU1	intrc	NM_	.	.
ACa07	8	37598127	.	C	T	.	PASS	ERLIN2	intrc	NM_	.	.
ACa07	8	38272450	rs7612284	G	A	.	PASS	FGFR1	intrc	NM_	.	.
ACa07	8	38287473	.	C	T	.	PASS	FGFR1	intrc	NM_	.	.
ACa07	8	38684698	rs7608102	G	A	.	PASS	TACC1	exo	NM_	.	missens
ACa07	8	39464012	.	T	C	.	PASS	ADAM1	intrc	NM_	.	.
ACa07	8	41507533	.	C	T	.	PASS	.	inte	NM_	dis	.
ACa07	8	41814697	rs3705628	G	A	.	PASS	KAT6A	intrc	NM_	.	.
ACa07	8	42227706	rs7605197	G	A	.	PASS	POLB	intrc	NM_	.	.
ACa07	8	43821054	.	G	A	.	PASS	.	inte	NM_	dis	.
ACa07	8	43821150	rs3733322	T	G	.	PASS	.	inte	NM_	dis	.
ACa07	8	43822425	rs2003364	T	C	.	PASS	.	inte	NM_	dis	.
ACa07	8	43831173	.	A	C	.	PASS	.	inte	NM_	dis	.
ACa07	8	46844208	rs4498566	A	C	.	PASS	.	inte	NON	dis	.
ACa07	8	46844794	.	G	A	.	PASS	.	inte	NON	dis	.
ACa07	8	46849434	rs4401873	C	G	.	PASS	.	inte	NON	dis	.
ACa07	8	49641620	.	G	T	.	PASS	EFCAB	exo	NM_	.	missens
ACa07	8	51415308	.	T	C	.	PASS	SNTG1	intrc	NM_	.	.
ACa07	8	53853631	.	A	G	.	PASS	.	dow	NM_	.	.
ACa07	8	55591073	rs1871956	C	T	.	PASS	.	inte	NM_	dis	.

ACa07	8	55638925	.	G	A	.	PASS	.	inte NM_dis	.
ACa07	8	59548131	.	T	A	.	PASS	NSMAF	intrc NM_	.
ACa07	8	61178562	rs7793713	G	A	.	PASS	CA8	exo NM_	synonyr
ACa07	8	61761171	rs1513224	C	T	.	PASS	CHD7	intrc NM_	.
ACa07	8	66695246	rs8897899	G	A	.	PASS	PDE7A	intrc NM_	.
ACa07	8	68070822	.	A	G	.	PASS	CSPP1	exo NM_	synonyr
ACa07	8	68105600	.	G	T	.	PASS	CSPP1	intrc NM_	.
ACa07	8	69032380	rs7454376	G	A	.	PASS	PREX2	intrc NM_	.
ACa07	8	74169239	.	G	A	.	PASS	C8orf89	exo NM_	missens
ACa07	8	76577776	.	C	T	.	PASS	.	inte NM_dis	.
ACa07	8	82392876	.	T	C	.	PASS	FABP4	intrc NM_	.
ACa07	8	87670124	.	T	C	.	PASS	CNGB3	intrc NM_	.
ACa07	8	87671445	.	G	A	.	PASS	CNGB3	intrc NM_	.
ACa07	8	88395019	rs1030919	C	T	.	PASS	.	dow NM_	.
ACa07	8	91057147	rs7559645	G	A	.	PASS	DECR1	exo NM_	missens
ACa07	8	91057203	.	G	A	.	PASS	DECR1	exo NM_	missens
ACa07	8	93074699	.	T	C	.	PASS	RUNX1	intrc NM_	.
ACa07	8	95365674	.	G	A	.	PASS	.	inte NM_dis	.
ACa07	8	96087740	rs1000299	T	C	.	PASS	.	inte NR_dis	.
ACa07	8	98954359	.	T	A	.	PASS	MATN2	intrc NM_	.
ACa07	8	1.02E+08	.	G	A	.	PASS	.	ups NR_	.
ACa07	8	1.04E+08	.	G	A	.	PASS	.	inte NM_dis	.
ACa07	8	1.08E+08	.	C	T	.	PASS	OXR1	UTF NM_NM	.
ACa07	8	1.11E+08	.	C	T	.	PASS	KCNV1	exo NM_	missens
ACa07	8	1.24E+08	rs1493710	C	T	.	PASS	ATAD2	exo NM_	missens
ACa07	8	1.25E+08	.	A	G	.	PASS	FER1L6	exo NM_	synonyr
ACa07	8	1.26E+08	rs7626895	C	T	.	PASS	.	inte NM_dis	.
ACa07	8	1.28E+08	.	C	T	.	PASS	PRNCR	ncR NR_	.
ACa07	8	1.34E+08	rs3595615	G	A	.	PASS	LRRC6	exo NM_	synonyr
ACa07	8	1.34E+08	rs1689333	G	A	.	PASS	TG	exo NM_	missens
ACa07	8	1.41E+08	.	G	T	.	PASS	KCNK9	UTF NM_NM	.
ACa07	8	1.41E+08	.	C	T	.	PASS	TRAPP	(intrc NM_	.
ACa07	8	1.42E+08	.	C	A	.	PASS	DENND	exo NM_	synonyr
ACa07	8	1.42E+08	.	C	A	.	PASS	MROH5	intrc NM_	.
ACa07	8	1.44E+08	.	C	T	.	PASS	BAI1	intrc NM_	.
ACa07	8	1.44E+08	.	G	T	.	PASS	LY6H	intrc NM_	.
ACa07	8	1.44E+08	rs7598006	C	T	.	PASS	ZFP41	exo NM_	missens
ACa07	8	1.45E+08	rs5644139	G	A	.	PASS	FAM83f	exo NM_	synonyr
ACa07	8	1.45E+08	.	G	T	.	PASS	FAM83f	exo NM_	missens
ACa07	8	1.45E+08	rs7819090	C	T	.	PASS	SCRIB	exo NM_	missens
ACa07	8	1.45E+08	.	C	T	.	PASS	NRBP2	exo NM_	missens
ACa07	8	1.45E+08	.	G	A	.	PASS	EPPK1	exo NM_	missens
ACa07	8	1.45E+08	rs2000607	G	A	.	PASS	PLEC	exo NM_	missens
ACa07	8	1.46E+08	rs5565117	C	T	.	PASS	HSF1	intrc NM_	.
ACa07	8	1.46E+08	.	C	T	.	PASS	HSF1	intrc NM_	.
ACa07	8	1.46E+08	.	G	A	.	PASS	CYHR1	exo NM_	missens
ACa07	8	1.46E+08	rs7468927	G	A	.	PASS	KIFC2	exo NM_	missens
ACa07	9	15883	rs7123526	A	G	.	PASS	WASH1	intrc NM_	.
ACa07	9	4576210	rs8987908	C	T	.	PASS	SLC1A1	intrc NM_	.
ACa07	9	13143465	.	C	A	.	PASS	MPDZ	exo NM_	missens
ACa07	9	14125770	rs7591887	G	A	.	PASS	NFIB	intrc NM_	.
ACa07	9	14819391	.	C	T	.	PASS	FREM1	exo NM_	missens
ACa07	9	14851329	rs7554261	C	T	.	PASS	FREM1	exo NM_	missens
ACa07	9	15214070	.	C	T	.	PASS	TTC39E	intrc NM_	.

ACa07	9 16436706 .	G	A	. PASS	BNC2	exon NM_	missens
ACa07	9 17143320 rs7717080	G	A	. PASS	CNTLN	exon NM_	missens
ACa07	9 19528050 .	G	A	. PASS	SLC24A	exon NM_	synonym
ACa07	9 20944746 rs7552126	C	T	. PASS	FOCAD	exon NM_	unknown
ACa07	9 21011377 rs8986502	G	A	. PASS	PTPLA	intron NM_	.
ACa07	9 32567140 rs7703822	C	T	. PASS	NDUFB	intron NM_	.
ACa07	9 34398403 .	G	A	. PASS	FAM21	UTR NM_NM	.
ACa07	9 35608407 .	C	T	. PASS	TESK1	exon NM_	missens
ACa07	9 37541389 .	G	A	. PASS	FBXO1	exon NM_	missens
ACa07	9 37746388 .	G	A	. PASS	FRMPD	exon NM_	stopgain
ACa07	9 39078288 rs1616872	A	G	. PASS	CNTNA	intron NM_	.
ACa07	9 43915558 rs7820531	G	C	. PASS	CNTNA	exon NM_	missens
ACa07	9 47236563 rs6255281	C	T	. PASS	.	intron NR_dis	.
ACa07	9 65602736 .	C	T	. PASS	.	intron NM_dis	.
ACa07	9 66553866 rs2003121	C	T	. PASS	.	ncR NR_	.
ACa07	9 67867765 rs2016275	G	A	. PASS	.	intron NR_dis	.
ACa07	9 68315458 rs2013763	G	C	. PASS	.	intron NM_dis	.
ACa07	9 68371780 rs3764322	A	G	. PASS	.	intron NM_dis	.
ACa07	9 68433386 .	A	C	. PASS	LOC642	ncR NR_	.
ACa07	9 70177694 .	G	A	. PASS	FOXD4	exon NM_	missens
ACa07	9 70177946 rs7506128	G	A	. PASS	FOXD4	exon NM_	missens
ACa07	9 73946728 .	G	T	. PASS	.	intron NM_dis	.
ACa07	9 74365113 .	G	T	. PASS	TMEM2	exon NM_	synonym
ACa07	9 77692282 .	C	A	. PASS	NMRK1	intron NM_	.
ACa07	9 79239583 rs9660777	T	C	. PASS	PRUNE	intron NM_	.
ACa07	9 82006224 rs5294239	G	A	. PASS	.	intron NR_dis	.
ACa07	9 82465778 .	A	G	. PASS	.	ncR NR_	.
ACa07	9 84608680 rs5696558	G	A	. PASS	SPATA	exon NM_	missens
ACa07	9 84676646 .	G	A	. PASS	.	intron NM_dis	.
ACa07	9 86153164 rs7749802	A	G	. PASS	FRMD3	UTR NM_NM	.
ACa07	9 87635048 .	G	A	. PASS	NTRK2	intron NM_	.
ACa07	9 88923463 .	C	T	. PASS	ZCCHC	exon NM_	missens
ACa07	9 90473759 rs9367277	C	T	. PASS	LOC392	ncR NR_	.
ACa07	9 91686190 rs1447929	C	T	. PASS	SHC3	intron NM_	.
ACa07	9 95033689 .	C	T	. PASS	IARS	intron NM_	.
ACa07	9 95874687 .	A	G	. PASS	C9orf89	intron NM_	.
ACa07	9 96080176 rs5352400	G	A	. PASS	WNK2	exon NM_	missens
ACa07	9 96434042 .	A	G	. PASS	PHF2	intron NM_	.
ACa07	9 96441396 .	A	G	. PASS	PHF2	UTR NM_NM	.
ACa07	9 99150692 .	C	T	. PASS	ZNF367	exon NM_	missens
ACa07	9 99327874 rs5750212	C	T	. PASS	CDC14	intron NM_	.
ACa07	9 99580381 rs5664919	C	T	. PASS	ZNF782	exon NM_	missens
ACa07	9 1.01E+08 rs5346016	G	A	. PASS	TBC1D2	intron NM_	.
ACa07	9 1.08E+08 rs5275568	G	A	. PASS	FSD1L	intron NM_	.
ACa07	9 1.13E+08 .	A	G	. PASS	SVEP1	intron NM_	.
ACa07	9 1.15E+08 rs9418280	C	T	. PASS	KIAA19	exon NM_	missens
ACa07	9 1.15E+08 rs7534529	C	T	. PASS	KIAA19	exon NM_	missens
ACa07	9 1.16E+08 .	G	T	. PASS	.	dow NM_	.
ACa07	9 1.16E+08 .	G	T	. PASS	ALAD	intron NM_	.
ACa07	9 1.17E+08 rs1017044	C	T	. PASS	COL27	intron NM_	.
ACa07	9 1.17E+08 .	C	T	. PASS	COL27	intron NM_	.
ACa07	9 1.17E+08 rs5296296	C	T	. PASS	COL27	intron NM_	.
ACa07	9 1.17E+08 .	C	A	. PASS	AKNA	intron NM_	.
ACa07	9 1.19E+08 rs5393503	G	A	. PASS	PAPPA	exon NM_	missens

ACa07	9	1.23E+08	rs5770416	C	T	.	PASS	CDK5R <sub>1</sub>	intrc	NM_	.	.
ACa07	9	1.24E+08	rs7765588	C	T	.	PASS	PHF19	intrc	NM_	.	.
ACa07	9	1.24E+08	.	A	G	.	PASS	PHF19	intrc	NM_	.	.
ACa07	9	1.25E+08	rs7817163	C	T	.	PASS	DAB2IP	exo	NM_	.	synonyr
ACa07	9	1.25E+08	.	G	T	.	PASS	DAB2IP	exo	NM_	.	missens
ACa07	9	1.26E+08	.	C	A	.	PASS	STRBP	intrc	NM_	.	.
ACa07	9	1.27E+08	rs7671231	C	T	.	PASS	NEK6	intrc	NM_	.	.
ACa07	9	1.28E+08	.	T	C	.	PASS	MAPKA	intrc	NM_	.	.
ACa07	9	1.3E+08	.	C	T	.	PASS	RALGP <sub>1</sub>	intrc	NM_	.	.
ACa07	9	1.3E+08	rs7704105	C	T	.	PASS	LRSAM	exo	NM_	.	synonyr
ACa07	9	1.3E+08	rs7514371	G	A	.	PASS	STXBP <sub>1</sub>	exo	NM_	.	missens
ACa07	9	1.3E+08	.	C	A	.	PASS	TTC16	intrc	NM_	.	.
ACa07	9	1.31E+08	rs7724303	C	T	.	PASS	FPGS	exo	NM_	.	missens
ACa07	9	1.31E+08	rs3755590	C	T	.	PASS	ENG	intrc	NM_	.	.
ACa07	9	1.31E+08	rs7704197	C	T	.	PASS	ODF2	exo	NM_	.	synonyr
ACa07	9	1.31E+08	rs3700623	G	A	.	PASS	SPTAN <sub>1</sub>	exo	NM_	.	missens
ACa07	9	1.31E+08	rs1020109	C	T	.	PASS	SPTAN <sub>1</sub>	exo	NM_	.	missens
ACa07	9	1.31E+08	.	T	C	.	PASS	SPTAN <sub>1</sub>	intrc	NM_	.	.
ACa07	9	1.31E+08	.	C	T	.	PASS	SPTAN <sub>1</sub>	intrc	NM_	.	.
ACa07	9	1.32E+08	rs1200306	C	T	.	PASS	ZER1	intrc	NM_	.	.
ACa07	9	1.32E+08	rs4837317	T	C	.	PASS	CCBL1	intrc	NM_	.	.
ACa07	9	1.32E+08	rs4837318	C	T	.	PASS	CCBL1	intrc	NM_	.	.
ACa07	9	1.32E+08	rs7690702	G	A	.	PASS	DOLPP <sub>1</sub>	exo	NM_	.	missens
ACa07	9	1.32E+08	.	G	A	.	PASS	CRAT	intrc	NM_	.	.
ACa07	9	1.32E+08	.	G	A	.	PASS	CRAT	exo	NM_	.	missens
ACa07	9	1.34E+08	rs9375934	C	T	.	PASS	RAPGE	exo	NM_	.	synonyr
ACa07	9	1.35E+08	.	C	T	.	PASS	NTNG2	intrc	NM_	.	.
ACa07	9	1.35E+08	.	C	T	.	PASS	SETX	exo	NM_	.	missens
ACa07	9	1.36E+08	rs4498679	G	A	.	PASS	DDX31	intrc	NM_	.	.
ACa07	9	1.36E+08	.	G	A	.	PASS	GTF3C <sub>1</sub>	ncR	NM_	.	NM_
ACa07	9	1.36E+08	.	C	T	.	PASS	RALGD <sub>1</sub>	exo	NM_	.	missens
ACa07	9	1.36E+08	.	A	G	.	PASS	GBGT1	exo	NM_	.	missens
ACa07	9	1.36E+08	.	G	T	.	PASS	SURF4	intrc	NM_	.	.
ACa07	9	1.36E+08	rs7823594	G	A	.	PASS	STKLD1	exo	NM_	.	missens
ACa07	9	1.36E+08	rs7806069	C	T	.	PASS	TMEM8	exo	NM_	.	missens
ACa07	9	1.37E+08	.	G	T	.	PASS	DBH	exo	NM_	.	missens
ACa07	9	1.38E+08	.	C	T	.	PASS	COL5A <sub>1</sub>	exo	NM_	.	missens
ACa07	9	1.38E+08	rs6173790	C	T	.	PASS	COL5A <sub>1</sub>	exo	NM_	.	synonyr
ACa07	9	1.38E+08	.	G	A	.	PASS	COL5A <sub>1</sub>	intrc	NM_	.	.
ACa07	9	1.39E+08	rs7478355	C	T	.	PASS	CAMSA	exo	NM_	.	missens
ACa07	9	1.39E+08	.	C	A	.	PASS	GPSM1	intrc	NM_	.	.
ACa07	9	1.39E+08	rs9942197	C	T	.	PASS	NOTCH	intrc	NM_	.	.
ACa07	9	1.39E+08	.	C	A	.	PASS	NOTCH	exo	NM_	.	missens
ACa07	9	1.39E+08	.	C	T	.	PASS	NOTCH	intrc	NM_	.	.
ACa07	9	1.4E+08	.	G	A	.	PASS	FAM69E	exo	NM_	.	missens
ACa07	9	1.4E+08	.	T	C	.	PASS	CCDC1 <sub>1</sub>	ncR	NR_	.	.
ACa07	9	1.4E+08	rs1399152	C	T	.	PASS	TRAF2	exo	NM_	.	synonyr
ACa07	9	1.4E+08	rs5651517	C	T	.	PASS	MAN1B	intrc	NM_	.	.
ACa07	9	1.4E+08	rs7788028	G	A	.	PASS	SLC34A <sub>1</sub>	intrc	NM_	.	.
ACa07	9	1.4E+08	.	C	A	.	PASS	FAM16C	exo	NM_	.	missens
ACa07	9	1.4E+08	rs7776402	G	A	.	PASS	TOR4A	exo	NM_	.	synonyr
ACa07	9	1.4E+08	rs1126228	C	T	.	PASS	PNPLA <sub>1</sub>	intrc	NM_	.	.
ACa07	9	1.41E+08	.	G	A	.	PASS	EHMT1	intrc	NM_	.	.
ACa07	9	1.41E+08	rs3707879	C	T	.	PASS	TUBBP <sub>1</sub>	ncR	NR_	.	.

ACa07	10	1053091	rs7547454	C	T	.	PASS	GTPBP1	intrc	NM_	.	.
ACa07	10	1599286	.	C	A	.	PASS	ADARB1	intrc	NM_	.	.
ACa07	10	3193659	rs5680149	C	T	.	PASS	PITRM1	intrc	NM_	.	.
ACa07	10	5927584	.	A	T	.	PASS	ANKRD1	intrc	NM_	.	.
ACa07	10	7262397	rs2019140	G	A	.	PASS	SFMBT1	exo	NM_	missens	
ACa07	10	7608771	rs7961144	G	A	.	PASS	ITIH5	intrc	NM_	.	.
ACa07	10	7621760	rs3708927	C	T	.	PASS	ITIH5	exo	NM_	missens	
ACa07	10	8007776	.	C	A	.	PASS	TAF3	intrc	NM_	.	.
ACa07	10	8055842	.	G	A	.	PASS	TAF3	intrc	NM_	.	.
ACa07	10	9444396	.	C	A	.	PASS	.	inte	NR_dis	.	.
ACa07	10	12110841	.	C	A	.	PASS	.	ups	NM_	.	.
ACa07	10	15027024	rs1919845	C	T	.	PASS	.	inte	NM_dis	.	.
ACa07	10	17086956	rs7658069	G	A	.	PASS	CUBN	intrc	NM_	.	.
ACa07	10	17142108	.	G	T	.	PASS	CUBN	exo	NM_	missens	
ACa07	10	20436609	.	C	T	.	PASS	PLXDC2	intrc	NM_	.	.
ACa07	10	22193634	rs9652901	T	C	.	PASS	DNAJC1	intrc	NM_	.	.
ACa07	10	24832764	.	A	T	.	PASS	KIAA127	exo	NM_	missens	
ACa07	10	24874959	rs7647799	T	C	.	PASS	ARHGA	exo	NM_	missens	
ACa07	10	24884596	rs1999030	A	G	.	PASS	ARHGA	intrc	NM_	.	.
ACa07	10	26482239	.	A	G	.	PASS	MYO3A	exo	NM_	missens	
ACa07	10	26851385	.	A	G	.	PASS	APBB1	intrc	NM_	.	.
ACa07	10	27324093	rs3678495	G	A	.	PASS	ANKRD1	exo	NM_	missens	
ACa07	10	27326015	.	G	T	.	PASS	ANKRD1	intrc	NM_	.	.
ACa07	10	27539503	.	G	A	.	PASS	LRRC37	ncR	NR_	.	.
ACa07	10	29801633	rs7766630	G	A	.	PASS	SVIL	intrc	NM_	.	.
ACa07	10	30915215	rs5733337	C	T	.	PASS	LYZL2	intrc	NM_	.	.
ACa07	10	35819163	.	G	A	.	PASS	CCNY	exo	NM_	missens	
ACa07	10	44283476	.	G	A	.	PASS	HNRNP	ncR	NR_	.	.
ACa07	10	46204293	.	G	A	.	PASS	.	inte	NM_dis	.	.
ACa07	10	47714165	.	A	G	.	PASS	.	inte	NM_dis	.	.
ACa07	10	48919803	.	C	T	.	PASS	.	inte	NR_dis	.	.
ACa07	10	48930140	.	G	A	.	PASS	BMS1P1	ncR	NR_	.	.
ACa07	10	49999086	.	G	A	.	PASS	WDFY4	intrc	NM_	.	.
ACa07	10	50028381	rs9040575	G	A	.	PASS	WDFY4	exo	NM_	missens	
ACa07	10	50824107	rs3745238	G	A	.	PASS	CHAT	exo	NM_	synonym	
ACa07	10	52444579	.	C	A	.	PASS	.	inte	NR_dis	.	.
ACa07	10	55664967	rs7512474	G	A	.	PASS	PCDH11	intrc	NM_	.	.
ACa07	10	58583274	.	C	A	.	PASS	.	inte	NM_dis	.	.
ACa07	10	61028449	rs1389134	G	A	.	PASS	FAM13C	exo	NM_	missens	
ACa07	10	61612621	rs5737945	A	G	.	PASS	CCDC6	intrc	NM_	.	.
ACa07	10	70056519	.	G	A	.	PASS	PBLD	intrc	NM_	.	.
ACa07	10	70958717	.	A	G	.	PASS	SUPV3L	intrc	NM_	.	.
ACa07	10	71690164	rs7548920	C	T	.	PASS	COL13A1	exo	NM_	synonym	
ACa07	10	71880912	.	C	T	.	PASS	AIFM2	exo	NM_	missens	
ACa07	10	72358965	rs3744653	G	A	.	PASS	PRF1	intrc	NM_	.	.
ACa07	10	73574769	rs2017279	C	T	.	PASS	CDH23	exo	NM_	missens	
ACa07	10	74790029	.	C	A	.	PASS	P4HA1	exo	NM_	missens	
ACa07	10	74994864	.	C	A	.	PASS	FAM14C	intrc	NM_	.	.
ACa07	10	75238410	rs7759506	A	G	.	PASS	PPP3C1	intrc	NM_	.	.
ACa07	10	75451768	rs7802380	A	G	.	PASS	AGAP5	intrc	NM_	.	.
ACa07	10	75464614	rs8789174	A	G	.	PASS	BMS1P2	ncR	NR_	.	.
ACa07	10	75480330	.	C	T	.	PASS	BMS1P2	ncR	NR_	.	.
ACa07	10	78708754	.	A	G	.	PASS	KCNMA	ncR	NR_	.	.
ACa07	10	81701987	.	A	G	.	PASS	SFTPD	intrc	NM_	.	.



ACa07	10	82348450	rs5681324	C	T	.	PASS	SH2D4E	exon	NM_	missens
ACa07	10	85965536	.	C	T	.	PASS	CDHR1	intrc	NM_	.
ACa07	10	85997052	.	C	T	.	PASS	LRIT1	exon	NM_	synonyr
ACa07	10	87898527	.	C	T	.	PASS	GRID1	intrc	NM_	.
ACa07	10	93380017	rs5296587	C	T	.	PASS	.	inte	NR_	dis.
ACa07	10	94821012	.	G	A	.	PASS	.	ups	NM_	.
ACa07	10	95093021	rs3696055	G	A	.	PASS	MYOF	exon	NM_	stopgair
ACa07	10	95276988	rs7535868	G	A	.	PASS	CEP55	exon	NM_	missens
ACa07	10	96824534	.	G	T	.	PASS	CYP2C8	intrc	NM_	.
ACa07	10	97712313	rs9047130	T	G	.	PASS	ENTPD1	ncR	NR_	.
ACa07	10	97987175	rs7826084	C	T	.	PASS	BLNK	exon	NM_	NVmissens
ACa07	10	98510597	.	G	A	.	PASS	.	inte	NM_	dis.
ACa07	10	99514368	rs3769880	G	A	.	PASS	ZFYVE2	intrc	NM_	.
ACa07	10	99661203	rs9945308	C	T	.	PASS	CRTAC	intrc	NM_	.
ACa07	10	1.01E+08	rs5392081	G	A	.	PASS	HPSE2	exon	NM_	missens
ACa07	10	1.02E+08	rs3692674	C	T	.	PASS	CUTC	exon	NM_	missens
ACa07	10	1.02E+08	rs9441434	C	T	.	PASS	SEC31E	intrc	NM_	.
ACa07	10	1.04E+08	.	G	A	.	PASS	PPRC1	exon	NM_	missens
ACa07	10	1.04E+08	.	A	G	.	PASS	PSD	intrc	NM_	.
ACa07	10	1.04E+08	.	C	T	.	PASS	TRIM8	intrc	NM_	.
ACa07	10	1.06E+08	.	C	A	.	PASS	COL17A1	intrc	NM_	.
ACa07	10	1.06E+08	.	G	A	.	PASS	CFAP5E	intrc	NM_	.
ACa07	10	1.07E+08	.	T	G	.	PASS	SORCS3	intrc	NM_	.
ACa07	10	1.18E+08	.	C	T	.	PASS	GFRA1	intrc	NM_	.
ACa07	10	1.19E+08	.	C	T	.	PASS	PDZD8	exon	NM_	missens
ACa07	10	1.21E+08	.	T	A	.	PASS	TIAL1	intrc	NM_	.
ACa07	10	1.24E+08	.	A	G	.	PASS	BTBD16	intrc	NM_	.
ACa07	10	1.27E+08	rs7503782	G	A	.	PASS	FAM171B	exon	NM_	synonyr
ACa07	10	1.29E+08	.	C	T	.	PASS	DOCK1	exon	NM_	unknow
ACa07	10	1.29E+08	rs3765225	C	T	.	PASS	DOCK1	intrc	NM_	.
ACa07	10	1.3E+08	.	C	T	.	PASS	FOXJ2	exon	NM_	missens
ACa07	10	1.34E+08	rs5455183	G	A	.	PASS	PPP2R2	intrc	NM_	.
ACa07	10	1.35E+08	.	G	T	.	PASS	NKX6-2	exon	NM_	synonyr
ACa07	10	1.35E+08	.	C	T	.	PASS	CFAP4C	intrc	NM_	.
ACa07	10	1.35E+08	rs5396027	C	T	.	PASS	CFAP4C	intrc	NM_	.
ACa07	10	1.35E+08	.	G	T	.	PASS	PRAP1	exon	NM_	missens
ACa07	10	1.35E+08	.	G	A	.	PASS	PAOX	exon	NM_	synonyr
ACa07	10	1.35E+08	rs7793478	G	A	.	PASS	PAOX	intrc	NM_	.
ACa07	10	1.35E+08	.	G	A	.	PASS	PAOX	intrc	NM_	.
ACa07	10	1.35E+08	.	T	C	.	PASS	MTG1	intrc	NM_	.
ACa07	11	130618	.	G	T	.	PASS	LINC0101	ncR	NR_	.
ACa07	11	196075	rs2003509	C	A	.	PASS	.	ups	NM_	.
ACa07	11	237236	.	G	T	.	PASS	PSMD1	intrc	NM_	.
ACa07	11	500049	rs1008718	G	A	.	PASS	RNH1	intrc	NM_	.
ACa07	11	551871	rs7793525	C	T	.	PASS	LRRC5	intrc	NM_	.
ACa07	11	556906	rs3741463	G	A	.	PASS	LMNTD1	exon	NM_	missens
ACa07	11	605299	.	A	G	.	PASS	PHRF1	exon	NM_	missens
ACa07	11	793447	.	G	T	.	PASS	SLC25A1	intrc	NM_	.
ACa07	11	994418	rs8960121	G	A	.	PASS	AP2A2	intrc	NM_	.
ACa07	11	1220701	rs7582346	G	A	.	PASS	.	inte	NM_	dis.
ACa07	11	1244666	rs7514641	G	A	.	PASS	MUC5B	intrc	NM_	.
ACa07	11	1251120	.	T	C	.	PASS	MUC5B	intrc	NM_	.
ACa07	11	1255481	.	G	A	.	PASS	MUC5B	exon	NM_	synonyr
ACa07	11	1257694	.	C	T	.	PASS	MUC5B	exon	NM_	missens

ACa07	11	1281905	rs3689865	C	T	.	PASS	MUC5B	exon	NM_	synonym
ACa07	11	2191119	.	A	G	.	PASS	TH	intr	NM_	.
ACa07	11	2194374	rs1019902	C	T	.	PASS	.	dow	NR_	.
ACa07	11	2407268	rs7724812	G	A	.	PASS	CD81	intr	NM_	.
ACa07	11	2431892	.	G	T	.	PASS	TRPM5	intr	NM_	.
ACa07	11	2436853	.	G	A	.	PASS	TRPM5	intr	NM_	.
ACa07	11	4254500	rs5592355	T	C	.	PASS	.	inte	NR_	dis.
ACa07	11	4389369	.	T	C	.	PASS	OR52B2	exon	NM_	missens
ACa07	11	5142343	.	G	A	.	PASS	.	inte	NM_	dis.
ACa07	11	5655758	rs8669468	C	T	.	PASS	TRIM6	intr	NM_	.
ACa07	11	6340358	.	G	A	.	PASS	PRKCD	UTF	NM_	NM_
ACa07	11	6417299	rs7289628	C	T	.	PASS	APBB1	intr	NM_	.
ACa07	11	6644893	.	G	A	.	PASS	DCHS1	exon	NM_	stopgair
ACa07	11	6650772	.	C	T	.	PASS	DCHS1	exon	NM_	missens
ACa07	11	12315642	rs7595225	C	T	.	PASS	MICALC	exon	NM_	missens
ACa07	11	13408180	rs7811107	C	T	.	PASS	ARNTL	exon	NM_	unknow
ACa07	11	14277316	.	G	A	.	PASS	SPON1	exon	NM_	unknow
ACa07	11	14316397	rs7824579	C	T	.	PASS	RRAS2	exon	NM_	missens
ACa07	11	14865528	.	C	A	.	PASS	PDE3B	exon	NM_	missens
ACa07	11	14913494	.	G	A	.	PASS	CYP2R1	intr	NM_	.
ACa07	11	16838236	.	G	A	.	PASS	PLEKH7	intr	NM_	.
ACa07	11	16847770	rs7785451	G	A	.	PASS	PLEKH7	exon	NM_	missens
ACa07	11	17598431	.	G	A	.	PASS	OTOG	exon	NM_	missens
ACa07	11	18062208	.	G	T	.	PASS	TPH1	exon	NM_	synonym
ACa07	11	18210492	.	C	T	.	PASS	.	inte	NM_	dis.
ACa07	11	18291106	.	G	T	.	PASS	SAA1	intr	NM_	.
ACa07	11	18426449	.	C	A	.	PASS	LDHA	intr	NM_	.
ACa07	11	20652143	.	A	C	.	PASS	SLC6A5	intr	NM_	.
ACa07	11	21250898	rs1146385	G	A	.	PASS	NELL1	exon	NM_	missens
ACa07	11	22777485	.	A	G	.	PASS	GAS2	exon	NM_	missens
ACa07	11	23427305	.	A	T	.	PASS	.	inte	NM_	dis.
ACa07	11	33743791	.	C	A	.	PASS	CD59	intr	NM_	.
ACa07	11	34194650	.	C	T	.	PASS	ABTB2	intr	NM_	.
ACa07	11	43876386	.	C	T	.	PASS	HSD17E	exon	NM_	missens
ACa07	11	46726773	.	G	A	.	PASS	ZNF408	exon	NM_	missens
ACa07	11	46765806	.	G	A	.	PASS	CKAP5	exon	NM_	stopgair
ACa07	11	47193789	rs7731977	C	T	.	PASS	ARFGA1	intr	NM_	.
ACa07	11	55135745	.	T	C	.	PASS	OR4A1	exon	NM_	missens
ACa07	11	55371921	rs7783566	T	C	.	PASS	.	ups	NM_	.
ACa07	11	57314032	.	T	G	.	PASS	SMTNL	exon	NM_	missens
ACa07	11	57983012	rs7556226	G	A	.	PASS	OR1S1	exon	NM_	missens
ACa07	11	57995755	rs3705153	C	T	.	PASS	OR10Q	exon	NM_	missens
ACa07	11	59420105	rs7461600	C	T	.	PASS	PATL1	intr	NM_	.
ACa07	11	61249827	rs7613895	G	A	.	PASS	PPP1R3	exon	NM_	missens
ACa07	11	61253132	.	C	A	.	PASS	PPP1R3	intr	NM_	.
ACa07	11	61578304	.	G	T	.	PASS	FADS1	exon	NM_	synonym
ACa07	11	62291713	rs7506613	G	A	.	PASS	AHNAK	exon	NM_	synonym
ACa07	11	62361821	rs3688014	C	T	.	PASS	MTA2	exon	NM_	missens
ACa07	11	62416338	rs3734262	C	T	.	PASS	INTS5	exon	NM_	missens
ACa07	11	62566179	.	T	G	.	PASS	NXF1	UTF	NM_	NM_
ACa07	11	63721515	rs7551956	C	T	.	PASS	NAA40	exon	NM_	missens
ACa07	11	63763957	rs320149	G	A	.	PASS	OTUB1	intr	NM_	.
ACa07	11	64039354	.	T	A	.	PASS	BAD	intr	NM_	.
ACa07	11	64521078	rs7694797	C	T	.	PASS	PYGM	exon	NM_	missens

ACa07	11	64899776	rs7599871	G	A	.	PASS	SYVN1	exo NM_	synonyr
ACa07	11	64937741	rs2009796	C	T	.	PASS	SPDYC	intrc NM_	.
ACa07	11	65036017	.	G	A	.	PASS	POLA2	intrc NM_	.
ACa07	11	65360827	.	G	A	.	PASS	KCNK7	exo NM_	missens
ACa07	11	65381195	.	G	A	.	PASS	MAP3K	exo NM_	synonyr
ACa07	11	65389786	rs3731576	G	A	.	PASS	PCNXL	exo NM_	missens
ACa07	11	65414066	.	G	A	.	PASS	SIPA1	exo NM_	missens
ACa07	11	65414716	.	T	G	.	PASS	SIPA1	intrc NM_	.
ACa07	11	65487375	.	G	A	.	PASS	RNASEI	intrc NM_	.
ACa07	11	65810662	.	C	T	.	PASS	GAL3S1	exo NM_	synonyr
ACa07	11	66033554	.	C	T	.	PASS	KLC2	intrc NM_	.
ACa07	11	66082361	.	C	T	.	PASS	CD248	exo NM_	missens
ACa07	11	66108304	.	T	C	.	PASS	BRMS1	exo NM_	missens
ACa07	11	67166750	.	G	A	.	PASS	PPP1C	intrc NM_	.
ACa07	11	67378750	rs8917540	C	T	.	PASS	NDUFV	intrc NM_	.
ACa07	11	67815194	rs1432324	C	T	.	PASS	TCIRG1	exo NM_	synonyr
ACa07	11	68822725	rs7621382	C	T	.	PASS	TPCN2	exo NM_	missens
ACa07	11	68851602	.	G	A	.	PASS	TPCN2	intrc NM_	.
ACa07	11	70194192	.	A	G	.	PASS	PPFIA1	intrc NM_	.
ACa07	11	71149990	rs7726393	C	T	.	PASS	DHCR7	exo NM_	missens
ACa07	11	71820226	rs1917587	G	A	.	PASS	LRTOM	UTF NM_NM	.
ACa07	11	71931865	.	G	C	.	PASS	FOLR2	intrc NM_	.
ACa07	11	72040728	.	C	A	.	PASS	CLPB	intrc NM_	.
ACa07	11	72070285	.	A	G	.	PASS	CLPB	intrc NM_	.
ACa07	11	72396522	.	C	A	.	PASS	ARAP1	UTF NM_NM	.
ACa07	11	72651947	.	T	C	.	PASS	FCHSD	intrc NM_	.
ACa07	11	73964648	.	G	A	.	PASS	PPME1	UTF NM_NM	.
ACa07	11	74706128	.	C	T	.	PASS	NEU3	intrc NM_	.
ACa07	11	74873801	rs7806415	G	A	.	PASS	SLCO2E	exo NM_	missens
ACa07	11	75316988	rs7805688	G	A	.	PASS	MAP6	exo NM_	missens
ACa07	11	75694576	rs7453149	C	T	.	PASS	UVRAG	intrc NM_	.
ACa07	11	77918543	.	G	A	.	PASS	USP35	intrc NM_	.
ACa07	11	80037592	rs3722049	G	C	.	PASS	.	inte NM_dis	.
ACa07	11	83501466	.	G	A	.	PASS	DLG2	intrc NM_	.
ACa07	11	88300512	.	G	A	.	PASS	GRM5	exo NM_	missens
ACa07	11	89402770	.	G	A	.	PASS	FOLH1E	intrc NM_	.
ACa07	11	93148372	rs7912478	G	A	.	PASS	CCDC6	intrc NM_	.
ACa07	11	1.03E+08	rs1913813	G	A	.	PASS	DYNC2I	exo NM_	missens
ACa07	11	1.07E+08	rs7548668	G	A	.	PASS	GUCY1	intrc NM_	.
ACa07	11	1.08E+08	rs7639430	C	T	.	PASS	ELMOD	exo NM_	missens
ACa07	11	1.08E+08	.	A	G	.	PASS	CUL5	intrc NM_	.
ACa07	11	1.08E+08	.	T	C	.	PASS	ACAT1	exo NM_	synonyr
ACa07	11	1.08E+08	.	A	G	.	PASS	ATM	intrc NM_	.
ACa07	11	1.11E+08	rs5746434	C	T	.	PASS	C11orf5	UTF NM_NM	.
ACa07	11	1.11E+08	rs1042921	G	A	.	PASS	COLCA	ncR NR_	.
ACa07	11	1.12E+08	rs9738553	C	T	.	PASS	SIK2	intrc NM_	.
ACa07	11	1.14E+08	rs7711773	G	A	.	PASS	ZW10	exo NM_	synonyr
ACa07	11	1.15E+08	rs7553780	T	G	.	PASS	CADM1	intrc NM_	.
ACa07	11	1.17E+08	.	C	T	.	PASS	SIK3	exo NM_	synonyr
ACa07	11	1.18E+08	rs3706451	C	A	.	PASS	TMPRS	exo NM_	synonyr
ACa07	11	1.18E+08	.	C	T	.	PASS	SCN2B	exo NM_	missens
ACa07	11	1.18E+08	.	G	T	.	PASS	MPZL3	intrc NM_	.
ACa07	11	1.18E+08	.	C	A	.	PASS	ARCN1	intrc NM_	.
ACa07	11	1.19E+08	.	G	A	.	PASS	DDX6	exo NM_	synonyr

ACa07	11	1.2E+08	rs5761141	T	C	.	PASS	ARHGE	exo NM_	synonyr	
ACa07	11	1.2E+08	.		C	A	.	PASS	ARHGE	exo NM_	missens
ACa07	11	1.21E+08	rs1424863	C	T	.	PASS	TECTA	exo NM_	missens	
ACa07	11	1.24E+08	rs1464053	C	T	.	PASS	OR10G	exo NM_	missens	
ACa07	11	1.24E+08	rs1866274	C	T	.	PASS	OR8G2	exo NM_	unknow	
ACa07	11	1.25E+08	.		C	A	.	PASS	ROBO4	intrc NM_	.
ACa07	11	1.25E+08	.		C	T	.	PASS	PKNOX	exo NM_	missens
ACa07	11	1.26E+08	rs1036245	G	A	.	PASS	FOXRE	exo NM_	missens	
ACa07	11	1.29E+08	rs1499597	C	T	.	PASS	TP53Al1	intrc NM_	.	
ACa07	11	1.3E+08	rs1160026	G	T	.	PASS	PRDM1	exo NM_	synonyr	
ACa07	11	1.3E+08	rs7501981	G	A	.	PASS	ADAMT	exo NM_	missens	
ACa07	11	1.33E+08	.		G	T	.	PASS	OPCML	exo NM_	missens
ACa07	11	1.34E+08	rs9612999	G	A	.	PASS	.	inte NM_dis	.	
ACa07	11	1.34E+08	.		G	A	.	PASS	GLB1L3	intrc NM_	.
ACa07	12	542634	rs1492134	C	T	.	PASS	CCDC7	intrc NM_	.	
ACa07	12	569498	.		G	A	.	PASS	.	ups NM_	.
ACa07	12	663146	rs7477402	G	A	.	PASS	B4GAL1	exo NM_	missens	
ACa07	12	923046	.		G	T	.	PASS	WNK1	intrc NM_	.
ACa07	12	2711100	.		C	T	.	PASS	CACNA	exo NM_	synonyr
ACa07	12	2719715	rs2020589	C	T	.	PASS	CACNA	exo NM_	synonyr	
ACa07	12	2750942	rs1044570	G	A	.	PASS	CACNA	intrc NM_	.	
ACa07	12	3765346	.		C	T	.	PASS	CRACR	intrc NM_	.
ACa07	12	4398171	.		C	A	.	PASS	CCND2	intrc NM_	.
ACa07	12	4648013	.		G	T	.	PASS	RAD51/	UTF NM_NV	.
ACa07	12	4919704	.		A	G	.	PASS	KCNA6	exo NM_	missens
ACa07	12	6438497	.		G	A	.	PASS	TNFRSF	exo NM_	missens
ACa07	12	6781789	rs7522876	C	T	.	PASS	ZNF384	intrc NM_	.	
ACa07	12	6923187	.		C	T	.	PASS	CD4	intrc NM_	.
ACa07	12	7286388	.		C	A	.	PASS	CLSTN2	intrc NM_	.
ACa07	12	7635360	.		T	C	.	PASS	CD163	splix NM_NV	.
ACa07	12	8618152	.		T	A	.	PASS	CLEC6/	exo NM_	missens
ACa07	12	8807044	.		G	A	.	PASS	MFAP5	exo NM_	unknow
ACa07	12	9709589	.		A	G	.	PASS	.	inte NR_dis	.
ACa07	12	9713438	rs7607645	T	C	.	PASS	.	inte NR_dis	.	
ACa07	12	10131539	.		C	A	.	PASS	CLEC12	intrc NM_	.
ACa07	12	11036605	.		G	A	.	PASS	PRH1-P	ncR NR_	.
ACa07	12	11905325	.		C	A	.	PASS	ETV6	intrc NM_	.
ACa07	12	12514214	rs7520863	C	T	.	PASS	LOH12C	exo NM_	unknow	
ACa07	12	12514275	.		T	C	.	PASS	LOH12C	exo NM_	unknow
ACa07	12	13028428	rs7558438	C	T	.	PASS	RPL13A	ncR NR_	.	
ACa07	12	18644464	.		C	T	.	PASS	PIK3C2	exo NM_	missens
ACa07	12	18656280	.		G	T	.	PASS	PIK3C2	exo NM_	stopgair
ACa07	12	19260709	rs9411424	A	C	.	PASS	.	inte NM_dis	.	
ACa07	12	21377691	.		A	G	.	PASS	SLCO1F	exo NM_	missens
ACa07	12	27840344	.		A	G	.	PASS	PPFIBP	exo NM_	synonyr
ACa07	12	29493982	.		C	T	.	PASS	ERGIC2	UTF NM_NV	.
ACa07	12	31116725	rs3715564	C	T	.	PASS	TSPAN1	intrc NM_	.	
ACa07	12	31144980	.		C	T	.	PASS	TSPAN1	UTF NM_NV	.
ACa07	12	33139537	.		G	A	.	PASS	.	inte NM_dis	.
ACa07	12	38596398	.		C	T	.	PASS	.	inte NOI_dis	.
ACa07	12	40858460	.		C	T	.	PASS	MUC19	intrc NM_	.
ACa07	12	40894116	.		C	T	.	PASS	MUC19	intrc NM_	.
ACa07	12	44132686	.		A	T	.	PASS	PUS7L	intrc NM_	.
ACa07	12	48888693	.		A	C	.	PASS	C12orf5	exo NM_	missens

ACa07	12	49165248	.	C	T	.	PASS	ADCY6	intrc	NM_	.
ACa07	12	49725168	.	T	C	.	PASS	TROAP	exo	NM_	missens
ACa07	12	50026472	rs5557374	G	A	.	PASS	PRPF4C	intrc	NM_	.
ACa07	12	50036070	rs7778437	G	A	.	PASS	PRPF4C	exo	NM_	missens
ACa07	12	50195577	.	A	G	.	PASS	NCKAP1	intrc	NM_	.
ACa07	12	50471384	rs7903986	G	A	.	PASS	ASIC1	intrc	NM_	.
ACa07	12	50854873	.	G	A	.	PASS	LARP4	intrc	NM_	.
ACa07	12	51512439	.	T	C	.	PASS	TFCP2	exo	NM_	missens
ACa07	12	52599942	.	A	G	.	PASS	C12orf8	exo	NM_	missens
ACa07	12	52946871	.	G	T	.	PASS	KRT71	UTF	NM_NM	.
ACa07	12	53002235	rs3777629	C	T	.	PASS	KRT73	exo	NM_	synonyr
ACa07	12	53045563	rs5301800	G	A	.	PASS	KRT2	exo	NM_	missens
ACa07	12	53201610	.	C	T	.	PASS	KRT4	exo	NM_	synonyr
ACa07	12	53459846	.	G	A	.	PASS	SPRYD1	intrc	NM_	.
ACa07	12	53593996	.	C	T	.	PASS	ITGB7	intrc	NM_	.
ACa07	12	53877615	rs9039120	G	A	.	PASS	MAP3K1	intrc	NM_	.
ACa07	12	54426698	.	G	T	.	PASS	HOXC4	intrc	NM_	.
ACa07	12	56645817	rs3688610	C	T	.	PASS	ANKRD1	exo	NM_	missens
ACa07	12	57432280	rs7688629	C	T	.	PASS	MYO1A	exo	NM_	missens
ACa07	12	57458056	rs1929543	T	A	.	PASS	TMEM1	intrc	NM_	.
ACa07	12	57523017	rs9453696	G	C	.	PASS	LRP1	intrc	NM_	.
ACa07	12	57567098	.	G	A	.	PASS	LRP1	exo	NM_	missens
ACa07	12	57577325	rs3702872	G	A	.	PASS	LRP1	intrc	NM_	.
ACa07	12	57584906	.	T	C	.	PASS	LRP1	intrc	NM_	.
ACa07	12	57628071	rs5363943	G	A	.	PASS	SHMT2	exo	NM_	missens
ACa07	12	63954420	.	T	G	.	PASS	DPY19L	exo	NM_	missens
ACa07	12	64812712	rs1809265	C	T	.	PASS	XPOT	exo	NM_	synonyr
ACa07	12	64825337	.	A	G	.	PASS	XPOT	exo	NM_	missens
ACa07	12	69764543	.	A	G	.	PASS	YEATS2	exo	NM_	unknow
ACa07	12	69995116	.	G	A	.	PASS	CCT2	UTF	NM_NM	.
ACa07	12	70037457	rs5319845	C	T	.	PASS	BEST3	UTF	NM_NM	.
ACa07	12	72080578	.	A	C	.	PASS	TMEM1	exo	NM_	missens
ACa07	12	76752585	rs3675929	C	T	.	PASS	OSBPL1	exo	NM_	missens
ACa07	12	77260115	.	G	T	.	PASS	CSRP2	intrc	NM_	.
ACa07	12	78582518	.	C	A	.	PASS	NAV3	exo	NM_	missens
ACa07	12	78593259	.	G	T	.	PASS	NAV3	exo	NM_	missens
ACa07	12	80672808	rs7672581	C	T	.	PASS	OTOGL	exo	NM_	synonyr
ACa07	12	80760258	rs9382701	A	G	.	PASS	OTOGL	intrc	NM_	.
ACa07	12	82828501	.	G	T	.	PASS	METTL2	exo	NM_	missens
ACa07	12	94034649	.	C	T	.	PASS	.	inte	NM_dis	.
ACa07	12	95918387	.	G	A	.	PASS	USP44	intrc	NM_	.
ACa07	12	96717860	rs5750458	G	A	.	PASS	CDK17	exo	NM_	missens
ACa07	12	97078469	rs1491955	G	A	.	PASS	.	inte	NM_dis	.
ACa07	12	97222775	.	T	C	.	PASS	.	inte	NM_dis	.
ACa07	12	1.01E+08	rs7594794	C	T	.	PASS	NR1H4	exo	NM_	missens
ACa07	12	1.01E+08	.	C	T	.	PASS	ANO4	intrc	NM_	.
ACa07	12	1.02E+08	.	A	G	.	PASS	ARL1	intrc	NM_	.
ACa07	12	1.02E+08	.	G	T	.	PASS	MYBPC1	intrc	NM_	.
ACa07	12	1.04E+08	.	G	T	.	PASS	STAB2	exo	NM_	missens
ACa07	12	1.04E+08	.	G	A	.	PASS	TDG	intrc	NM_	.
ACa07	12	1.09E+08	.	C	T	.	PASS	WSCD2	intrc	NM_	.
ACa07	12	1.09E+08	.	C	T	.	PASS	SART3	exo	NM_	missens
ACa07	12	1.1E+08	.	T	C	.	PASS	ALKBH2	intrc	NM_	.
ACa07	12	1.1E+08	.	C	T	.	PASS	MYO1H	intrc	NM_	.

ACa07	12	1.12E+08	.	G	T	.	PASS	.	inte NM_dis.	
ACa07	12	1.12E+08	.	C	A	.	PASS	BRAP	UTF NM_NV.	
ACa07	12	1.13E+08	rs3699442	G	A	.	PASS	HECTD	exo NM_.	synonyr
ACa07	12	1.16E+08	rs7648934	C	T	.	PASS	MED13l	intrc NM_.	.
ACa07	12	1.18E+08	.	T	G	.	PASS	NOS1	intrc NM_.	.
ACa07	12	1.19E+08	.	A	G	.	PASS	TAOK3	intrc NM_.	.
ACa07	12	1.2E+08	.	G	T	.	PASS	TMEM2	UTF NM_NV.	.
ACa07	12	1.21E+08	rs9094398	C	T	.	PASS	MLEC	UTF NM_NV.	.
ACa07	12	1.21E+08	rs7629138	C	T	.	PASS	SPPL3	UTF NM_NV.	.
ACa07	12	1.21E+08	.	A	T	.	PASS	OASL	exo NM_.	missens
ACa07	12	1.22E+08	rs1000013	G	A	.	PASS	P2RX4	intrc NM_.	.
ACa07	12	1.22E+08	.	C	T	.	PASS	KDM2B	intrc NM_.	.
ACa07	12	1.23E+08	.	G	T	.	PASS	CLIP1	intrc NM_.	.
ACa07	12	1.23E+08	.	G	A	.	PASS	KNTC1	intrc NM_.	.
ACa07	12	1.23E+08	rs5485859	G	A	.	PASS	HIP1R	intrc NM_.	.
ACa07	12	1.24E+08	.	C	A	.	PASS	SBNO1	intrc NM_.	.
ACa07	12	1.24E+08	.	G	A	.	PASS	SBNO1	intrc NM_.	.
ACa07	12	1.24E+08	.	T	C	.	PASS	SETD8	intrc NM_.	.
ACa07	12	1.24E+08	rs3682772	C	T	.	PASS	DNAH1	(intrc NM_.	.
ACa07	12	1.24E+08	.	T	C	.	PASS	DNAH1	(exo NM_.	synonyr
ACa07	12	1.24E+08	rs1861196	G	A	.	PASS	DNAH1	(intrc NM_.	.
ACa07	12	1.26E+08	.	T	G	.	PASS	TMEM1	intrc NM_.	.
ACa07	12	1.29E+08	.	C	T	.	PASS	.	inte NR_dis.	.
ACa07	12	1.29E+08	rs7758291	C	T	.	PASS	TMEM1	exo NM_.	synonyr
ACa07	12	1.29E+08	rs8685914	G	A	.	PASS	GLT1D1	intrc NM_.	.
ACa07	12	1.32E+08	.	G	T	.	PASS	EP400	intrc NM_.	.
ACa07	12	1.33E+08	.	T	C	.	PASS	DDX51	intrc NM_.	.
ACa07	12	1.33E+08	.	C	T	.	PASS	GALNT	(intrc NM_.	.
ACa07	12	1.33E+08	.	C	T	.	PASS	CHFR	exo NM_.	missens
ACa07	13	20356757	.	C	T	.	PASS	PSPC1	exo NM_.	synonyr
ACa07	13	20656960	.	G	T	.	PASS	ZMYM2	exo NM_.	missens
ACa07	13	21974513	rs7650516	G	A	.	PASS	ZDHC	exo NM_.	missens
ACa07	13	23808767	.	G	A	.	PASS	SGCG	exo NM_.	synonyr
ACa07	13	27260004	rs7609687	G	A	.	PASS	WASF3	UTF NM_NV.	.
ACa07	13	29233178	.	T	C	.	PASS	POMP	UTF NM_NV.	.
ACa07	13	32813486	.	G	T	.	PASS	FRY	exo NM_.	missens
ACa07	13	34398037	.	T	G	.	PASS	RFC3	intrc NM_.	.
ACa07	13	36445225	.	C	T	.	PASS	MIR548	ncR NR_.	.
ACa07	13	36827965	.	C	T	.	PASS	CCDC1	(exo NM_.	missens
ACa07	13	37427588	.	T	C	.	PASS	SMAD9	exo NM_.	missens
ACa07	13	41797402	rs1133145	C	T	.	PASS	MTRF1	exo NM_.	missens
ACa07	13	43134008	rs9269682	G	A	.	PASS	.	inte NM_dis.	.
ACa07	13	46127182	.	G	A	.	PASS	ERICH6	intrc NM_.	.
ACa07	13	46154301	rs5302300	C	T	.	PASS	ERICH6	intrc NM_.	.
ACa07	13	47361123	rs7755432	C	T	.	PASS	ESD	intrc NM_.	.
ACa07	13	71872859	rs5354767	C	T	.	PASS	.	inte NR_dis.	.
ACa07	13	72038778	.	A	C	.	PASS	DACH1	intrc NM_.	.
ACa07	13	75911047	.	G	A	.	PASS	TBC1D	(intrc NM_.	.
ACa07	13	90883912	rs5371791	C	T	.	PASS	.	dow NR_.	.
ACa07	13	96240011	.	C	T	.	PASS	DZIP1	intrc NM_.	.
ACa07	13	97999160	rs1492005	G	A	.	PASS	MBNL2	exo NM_.	missens
ACa07	13	1E+08	rs3733851	G	A	.	PASS	TM9SF	(exo NM_.	synonyr
ACa07	13	1.01E+08	rs3731740	C	T	.	PASS	PCCA	intrc NM_.	.
ACa07	13	1.09E+08	.	T	C	.	PASS	ABHD1	(exo NM_.	missens

ACa07	13	1.09E+08	rs7567578	G	A	.	PASS	MYO16	exon	NM_	missens
ACa07	13	1.11E+08	rs1488011	G	A	.	PASS	COL4A1	exon	NM_	missens
ACa07	13	1.11E+08	rs7563035	G	A	.	PASS	CARS2	exon	NM_	synonyr
ACa07	13	1.11E+08	.	G	A	.	PASS	.	ups	NM_	.
ACa07	13	1.12E+08	rs1000744	C	T	.	PASS	ANKRD	UTF	NM_NM_	.
ACa07	13	1.14E+08	rs7522048	G	A	.	PASS	.	inte	NM_dis	.
ACa07	13	1.14E+08	rs7502995	G	A	.	PASS	MCF2L	exon	NM_	missens
ACa07	13	1.15E+08	rs7709821	C	T	.	PASS	GAS6	exon	NM_	missens
ACa07	14	19501000	rs8791117	C	T	.	PASS	.	inte	NR_dis	.
ACa07	14	19502175	.	G	T	.	PASS	.	inte	NR_dis	.
ACa07	14	19720452	rs7445485	C	T	.	PASS	.	inte	NR_dis	.
ACa07	14	20470724	.	A	G	.	PASS	.	inte	NM_dis	.
ACa07	14	20869728	rs1453568	C	A	.	PASS	TEP1	exon	NM_	missens
ACa07	14	20897523	rs5497679	C	T	.	PASS	KLHL33	exon	NM_	missens
ACa07	14	21851762	.	C	T	.	PASS	SUPT16	intrc	NM_	.
ACa07	14	22748944	.	T	C	.	PASS	.	inte	NM_dis	.
ACa07	14	23244794	rs3745810	G	A	.	PASS	SLC7A7	intrc	NM_	.
ACa07	14	23417206	rs7576169	G	A	.	PASS	HAUS4	exon	NM_	synonyr
ACa07	14	24032908	.	A	G	.	PASS	LOC102	ncR	NR_	.
ACa07	14	35557135	rs7777607	G	A	.	PASS	LOC101	ncR	NR_	.
ACa07	14	35564107	rs9241538	C	T	.	PASS	LOC101	ncR	NR_	.
ACa07	14	36123534	.	T	A	.	PASS	RALGAI	ncR	NR_	.
ACa07	14	36207787	.	C	A	.	PASS	RALGAI	exon	NM_	missens
ACa07	14	36645564	.	C	A	.	PASS	PTCSC1	ncR	NR_	.
ACa07	14	36840760	rs5673369	G	A	.	PASS	.	inte	NM_dis	.
ACa07	14	38170628	.	C	T	.	PASS	.	inte	NM_dis	.
ACa07	14	42361109	rs8659367	G	A	.	PASS	LRFN5	exon	NM_	missens
ACa07	14	45650729	.	T	C	.	PASS	FANCM	splic	NM_NM_	.
ACa07	14	50459445	.	G	T	.	PASS	C14orf1	intrc	NM_	.
ACa07	14	52536381	.	G	T	.	PASS	.	ups	NM_	.
ACa07	14	52782046	rs7462395	G	A	.	PASS	PTGER1	exon	NM_	synonyr
ACa07	14	58690314	.	A	T	.	PASS	ACTR1C	intrc	NM_	.
ACa07	14	59757839	.	T	C	.	PASS	DAAM1	intrc	NM_	.
ACa07	14	59792389	.	G	T	.	PASS	DAAM1	exon	NM_	missens
ACa07	14	59942751	.	T	C	.	PASS	L3HYP1	intrc	NM_	.
ACa07	14	60619792	rs1401803	C	T	.	PASS	DHRS7	exon	NM_	synonyr
ACa07	14	64060705	.	A	G	.	PASS	.	inte	NM_dis	.
ACa07	14	64905889	rs5401543	C	T	.	PASS	MTHFD	exon	NM_	missens
ACa07	14	66723885	rs1404421	C	T	.	PASS	.	inte	NM_dis	.
ACa07	14	67432208	.	A	G	.	PASS	GPHN	intrc	NM_	.
ACa07	14	69345661	.	C	T	.	PASS	ACTN1	intrc	NM_	.
ACa07	14	74225682	.	C	T	.	PASS	ELMSA1	intrc	NM_	.
ACa07	14	74371771	rs7545827	C	T	.	PASS	ZNF410	exon	NM_	missens
ACa07	14	74387833	rs3764591	C	T	.	PASS	ZNF410	intrc	NM_	.
ACa07	14	75019057	.	A	G	.	PASS	LTBP2	exon	NM_	missens
ACa07	14	75231119	.	C	T	.	PASS	YLPM1	intrc	NM_	.
ACa07	14	75320856	.	G	T	.	PASS	PROX2	UTF	NM_NM_	.
ACa07	14	75373816	rs1413435	G	A	.	PASS	RPS6K1	exon	NM_	synonyr
ACa07	14	90459861	.	C	A	.	PASS	TDP1	intrc	NM_	.
ACa07	14	90759404	.	G	T	.	PASS	NRDE2	intrc	NM_	.
ACa07	14	91161849	rs7511076	G	A	.	PASS	TTC7B	exon	NM_	stopgair
ACa07	14	91701455	rs7632995	G	A	.	PASS	GPR68	UTF	NM_NM_	.
ACa07	14	91752050	.	G	A	.	PASS	CCDC8	intrc	NM_	.
ACa07	14	94471264	.	G	A	.	PASS	LINC00	ncR	NR_	.

ACa07	14	94581845	.	C	T	.	PASS	IFI27	intrc	NM_	.	.
ACa07	14	95560026	.	G	A	.	PASS	DICER1	intrc	NM_	.	.
ACa07	14	99641990	.	A	G	.	PASS	BCL11E	exo	NM_	missens	.
ACa07	14	99697789	.	G	T	.	PASS	BCL11E	exo	NM_	missens	.
ACa07	14	1.01E+08	.	C	T	.	PASS	DLK1	exo	NM_	synonyr	.
ACa07	14	1.01E+08	.	T	C	.	PASS	MIR411	ncR	NR_	.	.
ACa07	14	1.02E+08	.	G	A	.	PASS	MIR381	ncR	NR_	.	.
ACa07	14	1.03E+08	rs7571156	G	A	.	PASS	MOK	exo	NM_	synonyr	.
ACa07	14	1.03E+08	rs9721368	C	T	.	PASS	CDC42E	intrc	NM_	.	.
ACa07	14	1.04E+08	rs1043142	C	T	.	PASS	TRMT6	intrc	NM_	.	.
ACa07	14	1.05E+08	.	C	T	.	PASS	KIF26A	exo	NM_	missens	.
ACa07	14	1.05E+08	.	G	T	.	PASS	TMEM1	exo	NM_	missens	.
ACa07	14	1.05E+08	.	C	T	.	PASS	SIVA1	intrc	NM_	.	.
ACa07	14	1.05E+08	rs7564163	C	T	.	PASS	AKT1	intrc	NM_	.	.
ACa07	14	1.05E+08	.	G	T	.	PASS	CEP17C	intrc	NM_	.	.
ACa07	14	1.06E+08	rs7689001	G	A	.	PASS	JAG2	intrc	NM_	.	.
ACa07	14	1.06E+08	.	C	A	.	PASS	BRF1	intrc	NM_	.	.
ACa07	14	1.06E+08	rs7822187	G	A	.	PASS	PACS2	exo	NM_	missens	.
ACa07	14	1.06E+08	rs7820214	C	T	.	PASS	.	inte	NR_	dis	.
ACa07	14	1.06E+08	.	G	A	.	PASS	ADAM6	ncR	NR_	.	.
ACa07	14	1.07E+08	.	C	T	.	PASS	.	inte	NR_	dis	.
ACa07	15	20511974	rs2005484	G	A	.	PASS	.	inte	NR_	dis	.
ACa07	15	21071136	.	C	T	.	PASS	POTEB	intrc	NM_	.	.
ACa07	15	21324830	.	A	G	.	PASS	.	inte	NR_	dis	.
ACa07	15	22297633	.	A	G	.	PASS	LOC101	ncR	NR_	.	.
ACa07	15	22956666	.	C	T	.	PASS	CYFIP1	intrc	NM_	.	.
ACa07	15	23099573	.	G	A	.	PASS	LOC283	ncR	NR_	.	.
ACa07	15	23419634	.	G	A	.	PASS	.	intrc	NM_	.	.
ACa07	15	23467145	.	C	T	.	PASS	.	intrc	NM_	.	.
ACa07	15	23686244	rs7605191	G	A	.	PASS	.	inte	NR_	dis	.
ACa07	15	25337269	rs9195421	G	A	.	PASS	.	dow	NR_	.	.
ACa07	15	25431213	.	G	A	.	PASS	.	dow	NR_	.	.
ACa07	15	25444465	rs7485099	T	C	.	PASS	.	ups	NR_	.	.
ACa07	15	25477642	.	A	G	.	PASS	.	dow	NR_	.	.
ACa07	15	26107216	rs9209119	G	A	.	PASS	ATP10A	intrc	NM_	.	.
ACa07	15	28358433	rs3718584	C	T	.	PASS	HERC2	splic	NM_	NM_	.
ACa07	15	28478423	.	A	G	.	PASS	HERC2	exo	NM_	missens	.
ACa07	15	28949022	rs2021672	C	T	.	PASS	GOLGA	exo	NM_	synonyr	.
ACa07	15	29526740	.	G	T	.	PASS	FAM18E	intrc	NM_	.	.
ACa07	15	30382020	.	G	A	.	PASS	GOLGA	exo	NM_	missens	.
ACa07	15	30663208	.	C	T	.	PASS	CHRFAL	intrc	NM_	.	.
ACa07	15	30846509	rs1995696	A	G	.	PASS	.	inte	NM_	dis	.
ACa07	15	30874998	.	T	C	.	PASS	ULK4P1	ncR	NR_	.	.
ACa07	15	31776610	.	C	T	.	PASS	OTUD7	exo	NM_	synonyr	.
ACa07	15	32635938	rs1127716	A	T	.	PASS	.	inte	NM_	dis	.
ACa07	15	34040248	.	C	T	.	PASS	RYR3	intrc	NM_	.	.
ACa07	15	35385280	.	G	A	.	PASS	.	inte	NM_	dis	.
ACa07	15	40568144	.	G	A	.	PASS	PAK6	exo	NM_	missens	.
ACa07	15	40589993	.	G	T	.	PASS	PLCB2	intrc	NM_	.	.
ACa07	15	42158532	rs3704110	C	T	.	PASS	SPTBN1	intrc	NM_	.	.
ACa07	15	42170858	.	G	A	.	PASS	SPTBN1	intrc	NM_	.	.
ACa07	15	43109245	rs5310947	G	A	.	PASS	TTBK2	exo	NM_	synonyr	.
ACa07	15	43678043	rs7551745	C	T	.	PASS	TUBGC	exo	NM_	stopgair	.
ACa07	15	43891133	rs5360360	C	T	.	PASS	CKMT1L	exo	NM_	stopgair	.



ACa07	15	43901655	.	G	A	.	PASS	STRC	intrc	NM_	.	.
ACa07	15	44003289	rs5322560	G	A	.	PASS	.	inte	NM_	dis	.
ACa07	15	45328596	.	G	A	.	PASS	SORD	intrc	NM_	.	.
ACa07	15	45455872	.	G	T	.	PASS	DUOX1	exo	NM_	.	missens
ACa07	15	48054299	.	A	G	.	PASS	SEMA6I	intrc	NM_	.	.
ACa07	15	48720650	rs7737859	G	A	.	PASS	FBN1	exo	NM_	.	missens
ACa07	15	48782203	rs1409544	C	T	.	PASS	FBN1	exo	NM_	.	missens
ACa07	15	49264890	.	G	T	.	PASS	.	inte	NM_	dis	.
ACa07	15	49869190	.	A	G	.	PASS	FAM227	intrc	NM_	.	.
ACa07	15	50331173	.	G	T	.	PASS	ATP8B4	intrc	NM_	.	.
ACa07	15	50835793	.	A	G	.	PASS	USP50	splie	NM_	NM_	.
ACa07	15	52571126	rs3686733	G	A	.	PASS	MYO5C	exo	NM_	.	synonyr
ACa07	15	52680198	.	G	T	.	PASS	MYO5A	intrc	NM_	.	.
ACa07	15	58465302	.	T	C	.	PASS	AQP9	exo	NM_	.	missens
ACa07	15	63132757	rs7793599	G	A	.	PASS	TLN2	exo	NM_	.	missens
ACa07	15	65308790	rs7518805	C	T	.	PASS	MTFMT	exo	NM_	.	missens
ACa07	15	65678326	.	C	G	.	PASS	IGDCC2	exo	NM_	.	missens
ACa07	15	65686840	rs5369412	C	T	.	PASS	IGDCC2	exo	NM_	.	synonyr
ACa07	15	66223005	.	G	A	.	PASS	MEGF1	intrc	NM_	.	.
ACa07	15	67286477	.	T	C	.	PASS	.	inte	NM_	dis	.
ACa07	15	67652167	.	T	C	.	PASS	IQCH	intrc	NM_	.	.
ACa07	15	68502136	rs7568129	C	T	.	PASS	CLN6	intrc	NM_	.	.
ACa07	15	68624562	.	C	T	.	PASS	ITGA11	intrc	NM_	.	.
ACa07	15	72039013	rs5460720	C	T	.	PASS	THSD4	intrc	NM_	.	.
ACa07	15	72069450	.	C	A	.	PASS	THSD4	intrc	NM_	.	.
ACa07	15	72608191	.	G	A	.	PASS	CELF6	exo	NM_	.	missens
ACa07	15	72978799	rs1043159	C	A	.	PASS	BBS4	intrc	NM_	.	.
ACa07	15	74640093	.	G	A	.	PASS	CYP11A	intrc	NM_	.	.
ACa07	15	75551094	.	C	T	.	PASS	GOLGA	intrc	NM_	.	.
ACa07	15	75551112	.	C	T	.	PASS	GOLGA	intrc	NM_	.	.
ACa07	15	76643759	rs9744245	G	A	.	PASS	SCAPE1	intrc	NM_	.	.
ACa07	15	76643778	rs1047518	C	T	.	PASS	SCAPE1	intrc	NM_	.	.
ACa07	15	78217296	rs8789048	A	G	.	PASS	LOC645	ncR	NR_	.	.
ACa07	15	78276624	.	G	T	.	PASS	.	inte	NR_	dis	.
ACa07	15	79065578	.	C	T	.	PASS	ADAMT	intrc	NM_	.	.
ACa07	15	79750037	rs1471333	C	T	.	PASS	KIAA10	exo	NM_	.	synonyr
ACa07	15	80445547	.	G	A	.	PASS	FAH	intrc	NM_	.	.
ACa07	15	81179994	rs5292517	G	A	.	PASS	CEMIP	intrc	NM_	.	.
ACa07	15	81427559	.	T	C	.	PASS	C15orf2	intrc	NM_	.	.
ACa07	15	84611197	rs9410184	C	T	.	PASS	ADAMT	intrc	NM_	.	.
ACa07	15	84908921	rs7920451	A	G	.	PASS	GOLGA	exo	NM_	.	missens
ACa07	15	86284204	.	G	A	.	PASS	AKAP13	intrc	NM_	.	.
ACa07	15	86311985	rs3718116	C	T	.	PASS	KLHL25	exo	NM_	.	missens
ACa07	15	89876682	.	G	A	.	PASS	POLG	exo	NM_	.	missens
ACa07	15	90029782	.	A	T	.	PASS	RHCG	intrc	NM_	.	.
ACa07	15	90188260	rs2012804	G	A	.	PASS	KIF7	exo	NM_	.	synonyr
ACa07	15	90192513	.	C	T	.	PASS	KIF7	exo	NM_	.	synonyr
ACa07	15	90610456	rs1475111	C	T	.	PASS	ZNF710	exo	NM_	.	unknow
ACa07	15	1E+08	rs5584446	T	C	.	PASS	.	ups	NM_	.	.
ACa07	15	1.01E+08	.	T	C	.	PASS	ADAMT	exo	NM_	.	synonyr
ACa07	15	1.01E+08	.	C	T	.	PASS	PRKXP	ncR	NR_	.	.
ACa07	15	1.02E+08	.	G	T	.	PASS	LRRK1	intrc	NM_	.	.
ACa07	15	1.02E+08	rs7764234	G	A	.	PASS	PCSK6	exo	NM_	.	unknow
ACa07	15	1.02E+08	.	C	A	.	PASS	TARSL2	intrc	NM_	.	.

ACa07	15	1.02E+08	.	G	A	.	PASS	.	inte NM_dis	.
ACa07	15	1.02E+08	rs3682087	G	A	.	PASS	.	inte NM_dis	.
ACa07	15	1.02E+08	.	C	T	.	PASS	.	inte NM_dis	.
ACa07	15	1.03E+08	.	A	G	.	PASS	DDX11L	ncR NR_	.
ACa07	16	150424	rs7613665	G	A	.	PASS	NPRL3	exo NM_	unknow
ACa07	16	314957	.	G	T	.	PASS	ITFG3	exo NM_	missens
ACa07	16	324844	.	G	A	.	PASS	RGS11	intrc NM_	.
ACa07	16	544795	rs8927038	G	C	.	PASS	RAB11F	intrc NM_	.
ACa07	16	682922	rs1998911	C	T	.	PASS	WFIKK1	exo NM_	missens
ACa07	16	721815	rs2010028	C	T	.	PASS	RHOT2	intrc NM_	.
ACa07	16	734141	rs7767345	G	A	.	PASS	JMJD8	exo NM_	missens
ACa07	16	746934	rs1466306	C	T	.	PASS	FBXL16	exo NM_	missens
ACa07	16	780555	rs3681933	C	T	.	PASS	NARFL	exo NM_	synonyr
ACa07	16	847840	.	G	T	.	PASS	CHTF1f	exo NM_	synonyr
ACa07	16	960853	.	C	A	.	PASS	LMF1	intrc NM_	.
ACa07	16	1129064	rs1506415	C	T	.	PASS	SSTR5	exo NM_	synonyr
ACa07	16	1365820	rs9971019	G	A	.	PASS	UBE2I	intrc NM_	.
ACa07	16	1388641	.	A	T	.	PASS	BAIAP3	exo NM_	missens
ACa07	16	1390640	rs3710800	C	T	.	PASS	BAIAP3	intrc NM_	.
ACa07	16	1391397	.	G	A	.	PASS	BAIAP3	exo NM_	missens
ACa07	16	1393987	rs7592188	C	T	.	PASS	BAIAP3	intrc NM_	.
ACa07	16	1397792	.	G	A	.	PASS	BAIAP3	exo NM_	missens
ACa07	16	1479447	rs5365360	G	A	.	PASS	.	inte NM_dis	.
ACa07	16	1497508	rs7601714	C	T	.	PASS	CLCN7	exo NM_	missens
ACa07	16	1741777	.	C	T	.	PASS	HN1L	intrc NM_	.
ACa07	16	1748934	rs1450874	C	T	.	PASS	HN1L	exo NM_	missens
ACa07	16	1798630	.	T	A	.	PASS	MAPK8l	exo NM_	synonyr
ACa07	16	2004033	rs3749279	G	A	.	PASS	RPL3L	exo NM_	synonyr
ACa07	16	2034966	.	C	A	.	PASS	GFER	intrc NM_	.
ACa07	16	2049733	rs7634894	G	A	.	PASS	ZNF598	exo NM_	missens
ACa07	16	2215749	.	G	A	.	PASS	TRAF7	intrc NM_	.
ACa07	16	2523602	.	T	C	.	PASS	NTN3	intrc NM_	.
ACa07	16	3078076	.	G	A	.	PASS	CCDC6	UTF NM_ NV	.
ACa07	16	3445074	rs1416929	C	T	.	PASS	ZSCAN1	intrc NM_	.
ACa07	16	3487003	.	A	G	.	PASS	ZNF597	exo NM_	synonyr
ACa07	16	3580692	rs7525617	C	T	.	PASS	CLUAP1	intrc NM_	.
ACa07	16	3646372	rs5345285	G	A	.	PASS	SLX4	exo NM_	missens
ACa07	16	3820858	.	C	A	.	PASS	CREBB1	exo NM_	missens
ACa07	16	3821078	rs5502446	T	A	.	PASS	CREBB1	intrc NM_	.
ACa07	16	3843244	rs1894802	G	A	.	PASS	CREBB1	intrc NM_	.
ACa07	16	4016487	rs3711593	C	T	.	PASS	ADCY9	exo NM_	synonyr
ACa07	16	4432151	rs2013575	C	T	.	PASS	VASN	exo NM_	missens
ACa07	16	4935715	.	G	T	.	PASS	PPL	exo NM_	missens
ACa07	16	10996015	rs5632991	G	A	.	PASS	CIITA	exo NM_	missens
ACa07	16	11008860	rs7679436	T	C	.	PASS	CIITA	intrc NM_	.
ACa07	16	11554808	rs9184234	G	A	.	PASS	.	inte NM_dis	.
ACa07	16	14743630	rs7800288	A	G	.	PASS	BFAR	intrc NM_	.
ACa07	16	15104125	rs5668064	G	A	.	PASS	PDXDC	intrc NM_	.
ACa07	16	15474800	rs7507758	G	A	.	PASS	.	inte NM_dis	.
ACa07	16	15733133	.	C	T	.	PASS	KIAA041	UTF NM_ NV	.
ACa07	16	15787881	.	C	T	.	PASS	NDE1	intrc NM_	.
ACa07	16	16065490	.	G	A	.	PASS	ABCC1	intrc NM_	.
ACa07	16	16459820	.	T	C	.	PASS	.	inte NR_dis	.
ACa07	16	18887501	rs1784261	A	T	.	PASS	SMG1	exo NM_	missens

ACa07	16	19194909	rs7575963	G	A	.	PASS	SYT17	exon	NM_	missens
ACa07	16	20352562	rs7647908	G	A	.	PASS	UMOD	exon	NM_	synonym
ACa07	16	21208820	.	C	A	.	PASS	ZP2	exon	NM_	unknown
ACa07	16	22268950	rs1829590	C	T	.	PASS	EEF2K	intron	NM_	.
ACa07	16	23494295	.	G	A	.	PASS	GGA2	exon	NM_	missens
ACa07	16	23703312	.	C	T	.	PASS	ERN2	exon	NM_	missens
ACa07	16	25180293	rs9722593	C	T	.	PASS	LCMT1	intron	NM_	.
ACa07	16	26922879	.	G	T	.	PASS	.	intron	NM_	dis.
ACa07	16	27549562	.	G	A	.	PASS	GTF3C	exon	NM_	missens
ACa07	16	27732801	.	C	T	.	PASS	KIAA051	intron	NM_	.
ACa07	16	27761369	rs1412530	G	A	.	PASS	KIAA051	exon	NM_	missens
ACa07	16	28167926	rs1909424	A	T	.	PASS	XPO6	intron	NM_	.
ACa07	16	28659481	.	G	A	.	PASS	.	intron	NM_	dis.
ACa07	16	28846949	rs7491998	C	T	.	PASS	ATXN2L	exon	NM_	missens
ACa07	16	28857656	.	T	C	.	PASS	TUFM	UTR	NM_	NM_
ACa07	16	28912047	rs1820846	G	A	.	PASS	ATP2A1	exon	NM_	missens
ACa07	16	29140948	.	G	T	.	PASS	.	intron	NR_	dis.
ACa07	16	29910712	.	G	T	.	PASS	.	ups	NM_	.
ACa07	16	29918302	rs7813295	C	T	.	PASS	KCTD13	exon	NM_	missens
ACa07	16	31122275	rs9659529	G	A	.	PASS	BCKDK	intron	NM_	.
ACa07	16	31160723	.	T	C	.	PASS	PRSS3f	intron	NM_	.
ACa07	16	31374102	.	G	T	.	PASS	ITGAX	intron	NM_	.
ACa07	16	31895845	.	C	A	.	PASS	ZNF267	exon	NM_	synonym
ACa07	16	32487025	rs7477221	C	T	.	PASS	.	intron	NR_	dis.
ACa07	16	33106981	rs460256	A	G	.	PASS	.	intron	NR_	dis.
ACa07	16	33379986	.	A	G	.	PASS	.	intron	NR_	dis.
ACa07	16	33393640	.	A	G	.	PASS	.	intron	NR_	dis.
ACa07	16	33406888	rs3744640	G	C	.	PASS	.	intron	NR_	dis.
ACa07	16	33516019	.	C	A	.	PASS	RNU6-7	ncR	NR_	.
ACa07	16	33738959	.	A	C	.	PASS	.	intron	NR_	dis.
ACa07	16	34303978	.	C	G	.	PASS	.	intron	NR_	dis.
ACa07	16	46386672	rs1333894	A	C	.	PASS	.	intron	NON	dis.
ACa07	16	46387429	rs2885478	C	T	.	PASS	.	intron	NON	dis.
ACa07	16	46391232	rs4249087	T	G	.	PASS	.	intron	NON	dis.
ACa07	16	46394845	rs5591122	C	T	.	PASS	.	intron	NON	dis.
ACa07	16	46395166	rs4246405	G	C	.	PASS	.	intron	NON	dis.
ACa07	16	46395251	rs4292070	G	C	.	PASS	.	intron	NON	dis.
ACa07	16	46399518	rs8799648	A	G	.	PASS	.	intron	NON	dis.
ACa07	16	46401894	rs8799977	A	C	.	PASS	.	intron	NON	dis.
ACa07	16	46405469	rs4291933	A	G	.	PASS	.	intron	NON	dis.
ACa07	16	46406401	rs4375682	A	G	.	PASS	.	intron	NON	dis.
ACa07	16	46406551	rs7200104	T	G	.	PASS	.	intron	NON	dis.
ACa07	16	46406785	rs7188643	A	G	.	PASS	.	intron	NON	dis.
ACa07	16	46406828	rs9328642	G	C	.	PASS	.	intron	NON	dis.
ACa07	16	46406854	rs7205231	T	A	.	PASS	.	intron	NON	dis.
ACa07	16	46407028	rs4445923	A	T	.	PASS	.	intron	NON	dis.
ACa07	16	46407752	rs2887500	T	G	.	PASS	.	intron	NON	dis.
ACa07	16	46408061	rs2888543	G	T	.	PASS	.	intron	NON	dis.
ACa07	16	46420322	rs7664258	G	A	.	PASS	.	intron	NON	dis.
ACa07	16	46421742	rs4249076	T	C	.	PASS	.	intron	NON	dis.
ACa07	16	46428673	.	T	C	.	PASS	.	intron	NON	dis.
ACa07	16	46781878	rs3683497	G	A	.	PASS	MYLK3	exon	NM_	synonym
ACa07	16	47537111	.	C	A	.	PASS	PHKB	intron	NM_	.
ACa07	16	56660201	.	C	A	.	PASS	MT1E	intron	NM_	.

ACa07	16	56864520	.	G	T	.	PASS	NUP93	exon NM_	missense
ACa07	16	56871737	.	A	C	.	PASS	NUP93	intron NM_	.
ACa07	16	57003671	.	G	A	.	PASS	CETP	intron NM_	.
ACa07	16	57180194	rs1471990	C	T	.	PASS	CPNE2	exon NM_	synonym
ACa07	16	57760660	.	T	C	.	PASS	DRC7	intron NM_	.
ACa07	16	58019162	.	G	T	.	PASS	TEPP	exon NM_	missense
ACa07	16	58313479	.	A	G	.	PASS	CCDC1	intron NM_	.
ACa07	16	64597212	rs1499903	A	G	.	PASS	.	intron NM_	dis.
ACa07	16	67218882	.	C	T	.	PASS	EXOC3l	exon NM_	missense
ACa07	16	67223187	rs1054074	A	G	.	PASS	EXOC3l	intron NM_	.
ACa07	16	67236430	rs7715372	C	T	.	PASS	ELMO3	exon NM_	synonym
ACa07	16	67298343	rs5618721	G	A	.	PASS	SLC9A5	exon NM_	missense
ACa07	16	67324912	.	G	T	.	PASS	KCTD1f	intron NM_	.
ACa07	16	67404993	rs7545456	C	T	.	PASS	LRRC3f	exon NM_	missense
ACa07	16	67432256	rs3696380	G	A	.	PASS	ZDHHC	intron NM_	.
ACa07	16	67654782	.	C	A	.	PASS	CTCF	intron NM_	.
ACa07	16	67964672	rs7584347	C	T	.	PASS	CTRL	exon NM_	missense
ACa07	16	67979591	.	C	A	.	PASS	SLC12A	intron NM_	.
ACa07	16	68056074	.	G	A	.	PASS	DDX28	exon NM_	synonym
ACa07	16	69418494	.	C	T	.	PASS	TERF2	exon NM_	missense
ACa07	16	70363143	rs8670174	A	G	.	PASS	LOC10C	ncR NR_	.
ACa07	16	71464866	rs9278778	C	T	.	PASS	.	intron NM_	dis.
ACa07	16	71465222	rs1485518	C	T	.	PASS	.	intron NM_	dis.
ACa07	16	71976819	rs3776990	G	A	.	PASS	PKD1L3	exon NM_	unknown
ACa07	16	74446298	rs7502787	G	T	.	PASS	CLEC1f	intron NM_	.
ACa07	16	74709365	.	C	T	.	PASS	MLKL	intron NM_	.
ACa07	16	75300714	.	C	T	.	PASS	BCAR1	intron NM_	.
ACa07	16	79781104	rs1469198	A	G	.	PASS	LOC102	ncR NR_	.
ACa07	16	81157276	rs7733922	G	A	.	PASS	PKD1L2	exon NM_	unknown
ACa07	16	81931297	.	T	C	.	PASS	PLCG2	intron NM_	.
ACa07	16	83949765	rs7483034	C	T	.	PASS	MLYCD	UTF NM_ NM_	.
ACa07	16	84193350	rs1407517	G	A	.	PASS	DNAAF	exon NM_	missense
ACa07	16	84213850	rs7647118	G	A	.	PASS	TAF1C	exon NM_	missense
ACa07	16	85690052	rs9336865	C	T	.	PASS	GSE1	exon NM_	missense
ACa07	16	86601246	.	T	A	.	PASS	FOXC2	exon NM_	missense
ACa07	16	87367554	rs3681305	C	T	.	PASS	FBXO3'	exon NM_	synonym
ACa07	16	87638598	rs9665470	T	C	.	PASS	JPH3	intron NM_	.
ACa07	16	88500698	rs5606502	G	A	.	PASS	ZNF469	exon NM_	missense
ACa07	16	88721965	rs9646181	C	T	.	PASS	MVD	intron NM_	.
ACa07	16	88945815	.	C	T	.	PASS	CBFA2l	exon NM_	missense
ACa07	16	89758073	.	C	A	.	PASS	CDK10	intron NM_	.
ACa07	16	89799935	rs2017315	G	A	.	PASS	ZNF276	exon NM_	synonym
ACa07	16	89805198	rs7530482	G	A	.	PASS	ZNF276	UTF NM_ NM_	.
ACa07	17	1375434	rs7627705	T	C	.	PASS	MYO1C	exon NM_	missense
ACa07	17	1562751	.	C	T	.	PASS	PRPF8	exon NM_	missense
ACa07	17	1610814	.	A	G	.	PASS	TLCD2	UTF NM_ NM_	.
ACa07	17	1961007	.	T	C	.	PASS	HIC1	exon NM_	synonym
ACa07	17	1988923	.	C	A	.	PASS	SMG6	intron NM_	.
ACa07	17	2203721	.	G	T	.	PASS	SMG6	exon NM_	missense
ACa07	17	2290401	rs7803486	C	T	.	PASS	MNT	exon NM_	missense
ACa07	17	2323768	.	A	G	.	PASS	METTL'	exon NM_	synonym
ACa07	17	3765488	.	T	C	.	PASS	CAMKK	UTF NM_ NM_	.
ACa07	17	4145515	.	A	C	.	PASS	ANKFY'	intron NM_	.
ACa07	17	4192509	rs5506079	C	T	.	PASS	UBE2G'	intron NM_	.

ACa07	17	4575748	rs3764321	C	T	.	PASS	PELP1	exon	NM_	synonym
ACa07	17	4926810	rs2008227	G	A	.	PASS	KIF1C	exon	NM_	synonym
ACa07	17	5085969	rs2013516	C	T	.	PASS	ZNF594	exon	NM_	missense
ACa07	17	5367081	.	C	T	.	PASS	DHX33	intron	NM_	.
ACa07	17	6493860	.	T	C	.	PASS	KIAA071	exon	NM_	missense
ACa07	17	6599019	.	C	T	.	PASS	SLC13A1	intron	NM_	.
ACa07	17	6980456	.	A	G	.	PASS	CLEC1E	intron	NM_	.
ACa07	17	7226101	rs2000463	G	A	.	PASS	NEURL1	exon	NM_	missense
ACa07	17	7401521	rs7455911	G	A	.	PASS	POLR2J	exon	NM_	missense
ACa07	17	8638873	rs1473707	G	A	.	PASS	CCDC4	exon	NM_	synonym
ACa07	17	8732222	.	C	T	.	PASS	PIK3R6	exon	NM_	unknown
ACa07	17	9873083	.	C	T	.	PASS	GAS7	splice	NM_NM	.
ACa07	17	11556040	rs7534759	A	G	.	PASS	DNAH9	intron	NM_	.
ACa07	17	11835436	.	G	T	.	PASS	DNAH9	exon	NM_	stopgain
ACa07	17	14205156	.	C	T	.	PASS	HS3ST3	exon	NM_	synonym
ACa07	17	15207385	rs7633797	C	T	.	PASS	TEKT3	exon	NM_	synonym
ACa07	17	15638786	rs6207237	G	A	.	PASS	TBC1D2	intron	NM_	.
ACa07	17	15938128	.	G	A	.	PASS	NCOR1	exon	NM_	synonym
ACa07	17	15961112	.	T	C	.	PASS	NCOR1	intron	NM_	.
ACa07	17	17030234	.	C	T	.	PASS	MPRIP	intron	NM_	.
ACa07	17	17034866	.	G	A	.	PASS	MPRIP	intron	NM_	.
ACa07	17	18058365	rs1157965	G	A	.	PASS	MYO15B	intron	NM_	.
ACa07	17	18060466	.	A	G	.	PASS	MYO15B	splice	NM_NM	.
ACa07	17	18286697	.	G	A	.	PASS	EVPL1	intron	NM_	.
ACa07	17	20361613	.	C	A	.	PASS	LGALS3	exon	NM_	synonym
ACa07	17	20370796	rs2869918	T	C	.	PASS	LGALS3	UTR	NM_NM	.
ACa07	17	20916264	rs7529523	G	A	.	PASS	USP22	intron	NM_	.
ACa07	17	21207962	.	G	A	.	PASS	MAP2K1	intron	NM_	.
ACa07	17	26084555	.	C	T	.	PASS	NOS2	intron	NM_	.
ACa07	17	26816533	.	A	T	.	PASS	SLC13A1	intron	NM_	.
ACa07	17	26820830	.	G	T	.	PASS	SLC13A1	intron	NM_	.
ACa07	17	26850910	.	C	T	.	PASS	.	ups	NM_	.
ACa07	17	26932168	.	C	T	.	PASS	SPAG5	ncR	NR_	.
ACa07	17	26940926	rs1051245	C	T	.	PASS	SPAG5	ncR	NR_	.
ACa07	17	26962672	.	A	G	.	PASS	KIAA011	intron	NM_	.
ACa07	17	27308994	.	C	T	.	PASS	SEZ6	exon	NM_	missense
ACa07	17	27436897	.	C	T	.	PASS	MYO18B	exon	NM_	missense
ACa07	17	28557113	rs7968757	A	G	.	PASS	SLC6A4	intron	NM_	.
ACa07	17	29645931	rs5324904	C	T	.	PASS	EVI2A	exon	NM_	missense
ACa07	17	29848139	.	G	T	.	PASS	RAB11F	intron	NM_	.
ACa07	17	30192707	.	A	G	.	PASS	UTP6	intron	NM_	.
ACa07	17	30211542	.	G	T	.	PASS	UTP6	intron	NM_	.
ACa07	17	32905761	.	G	T	.	PASS	C17orf1	intron	NM_	.
ACa07	17	33462347	.	G	A	.	PASS	NLE1	exon	NM_	missense
ACa07	17	33679688	rs7610872	C	T	.	PASS	SLFN11	exon	NM_	missense
ACa07	17	33818178	.	G	T	.	PASS	.	inte	NM_dis	.
ACa07	17	34036160	.	C	A	.	PASS	AP2B1	intron	NM_	.
ACa07	17	34797287	rs3702689	T	G	.	PASS	TBC1D3	UTR	NM_NM	.
ACa07	17	36349473	rs3720623	T	C	.	PASS	.	ups	NM_	.
ACa07	17	36646848	.	A	G	.	PASS	ARHGA	intron	NM_	.
ACa07	17	36895087	rs7545869	C	T	.	PASS	PCGF2	exon	NM_	missense
ACa07	17	37243776	.	G	T	.	PASS	PLXDC1	intron	NM_	.
ACa07	17	37351190	rs7807350	G	A	.	PASS	CACNB	exon	NM_	missense
ACa07	17	37359163	.	C	T	.	PASS	RPL19	intron	NM_	.

ACa07	17	37371354	.	C	T	.	PASS	STAC2	intrc	NM_	.
ACa07	17	37881332	rs1057519	G	A	.	PASS	ERBB2	exo	NM_	missens
ACa07	17	38711777	rs1996216	C	T	.	PASS	CCR7	exo	NM_	synonyr
ACa07	17	39535402	rs1488746	C	T	.	PASS	KRT34	exo	NM_	synonyr
ACa07	17	39959567	rs7824576	C	T	.	PASS	LEPREL	exo	NM_	synonyr
ACa07	17	40094785	rs7827568	G	A	.	PASS	TTC25	intrc	NM_	.
ACa07	17	40107195	.	A	G	.	PASS	TTC25	intrc	NM_	.
ACa07	17	40477116	.	G	T	.	PASS	STAT3	intrc	NM_	.
ACa07	17	40485855	rs9065729	G	A	.	PASS	STAT3	intrc	NM_	.
ACa07	17	40491207	rs5769204	G	A	.	PASS	STAT3	intrc	NM_	.
ACa07	17	40715885	.	G	T	.	PASS	COASY	intrc	NM_	.
ACa07	17	40940950	rs1042659	C	T	.	PASS	WNK4	intrc	NM_	.
ACa07	17	41296281	rs9984123	C	T	.	PASS	NBR2	ncR	NR_	.
ACa07	17	41341298	.	A	G	.	PASS	NBR1	intrc	NM_	.
ACa07	17	41455004	.	G	A	.	PASS	LINC009	ncR	NR_	.
ACa07	17	41893443	.	G	T	.	PASS	MPP3	exo	NM_	synonyr
ACa07	17	41893978	.	C	A	.	PASS	MPP3	intrc	NM_	.
ACa07	17	41898415	rs7617924	G	A	.	PASS	MPP3	exo	NM_	synonyr
ACa07	17	42745490	.	T	G	.	PASS	C17orf1	exo	NM_	synonyr
ACa07	17	43004248	rs9135110	C	T	.	PASS	KIF18B	intrc	NM_	.
ACa07	17	43215415	.	G	T	.	PASS	ACBD4	intrc	NM_	.
ACa07	17	43322422	rs7805429	C	T	.	PASS	FMNL1	exo	NM_	missens
ACa07	17	43531652	.	C	T	.	PASS	PLEKH	intrc	NM_	.
ACa07	17	43585815	.	C	T	.	PASS	LRRC37	ncR	NR_	.
ACa07	17	44363438	.	G	A	.	PASS	.	inte	NR_	dis.
ACa07	17	44806355	rs1002396	G	A	.	PASS	NSF	intrc	NM_	.
ACa07	17	45128939	rs1056060	A	G	.	PASS	.	inte	NM_	dis.
ACa07	17	45664593	rs2644320	C	T	.	PASS	NPEPP	splc	NM_	NM_
ACa07	17	45886991	.	A	G	.	PASS	OSBPL	intrc	NM_	.
ACa07	17	47294019	rs3749157	G	A	.	PASS	ABI3	exo	NM_	missens
ACa07	17	47376105	rs9379553	G	A	.	PASS	ZNF652	exo	NM_	synonyr
ACa07	17	48051439	.	G	T	.	PASS	DLX4	UTF	NM_	NM_
ACa07	17	48195592	rs7784106	C	T	.	PASS	SAMD1	exo	NM_	missens
ACa07	17	48218827	.	C	A	.	PASS	PPP1R	intrc	NM_	.
ACa07	17	48227017	.	G	A	.	PASS	PPP1R	exo	NM_	unknow
ACa07	17	48267799	rs1029268	C	T	.	PASS	COL1A	intrc	NM_	.
ACa07	17	48432555	.	G	T	.	PASS	XYLT2	intrc	NM_	.
ACa07	17	48602100	rs3894278	A	T	.	PASS	MYCBP	intrc	NM_	.
ACa07	17	53344988	.	C	T	.	PASS	HLF	intrc	NM_	.
ACa07	17	56770941	.	G	A	.	PASS	RAD51	intrc	NM_	.
ACa07	17	58733825	rs3677870	A	G	.	PASS	PPM1D	intrc	NM_	.
ACa07	17	61994969	.	G	T	.	PASS	GH1	intrc	NM_	.
ACa07	17	62045564	rs7637250	C	T	.	PASS	SCN4A	exo	NM_	synonyr
ACa07	17	62796399	.	C	A	.	PASS	PLEKH	ncR	NR_	.
ACa07	17	65141955	.	C	T	.	PASS	HELZ	exo	NM_	synonyr
ACa07	17	67133640	.	T	C	.	PASS	ABCA6	exo	NM_	missens
ACa07	17	72206149	.	C	T	.	PASS	MGC16	ncR	NR_	.
ACa07	17	72352246	.	C	T	.	PASS	.	dow	NM_	.
ACa07	17	72859354	rs5610655	C	T	.	PASS	FDXR	exo	NM_	missens
ACa07	17	73486703	rs1018051	G	C	.	PASS	KIAA01	intrc	NM_	.
ACa07	17	73501559	rs3777274	G	A	.	PASS	CASKIN	intrc	NM_	.
ACa07	17	73503825	.	C	T	.	PASS	CASKIN	intrc	NM_	.
ACa07	17	73611950	.	G	T	.	PASS	MYO15	ncR	NR_	.
ACa07	17	73624543	.	G	T	.	PASS	RECQL	intrc	NM_	.

ACa07	17	73625597	.	G	C	.	PASS	RECQL1	intrc	NM_	.
ACa07	17	74527640	rs3697050	C	T	.	PASS	CYGB	exo	NM_	missens
ACa07	17	74559126	.	A	G	.	PASS	SNHG1	ncR	NR_	.
ACa07	17	74899523	.	C	A	.	PASS	MGAT5	intrc	NM_	.
ACa07	17	75191119	rs7670774	G	A	.	PASS	SEC14L	intrc	NM_	.
ACa07	17	76454501	.	C	A	.	PASS	DNAH1	intrc	NM_	.
ACa07	17	76499024	rs7521502	C	T	.	PASS	DNAH1	exo	NM_	missens
ACa07	17	77100166	.	G	A	.	PASS	RBFOX1	exo	NM_	missens
ACa07	17	77808213	.	G	A	.	PASS	CBX4	exo	NM_	missens
ACa07	17	78032382	rs5354610	G	A	.	PASS	CCDC4	exo	NM_	missens
ACa07	17	78156663	rs7737952	G	A	.	PASS	CARD1	intrc	NM_	.
ACa07	17	78179400	rs3676544	C	T	.	PASS	CARD1	exo	NM_	synonym
ACa07	17	78324327	.	G	A	.	PASS	RNF213	intrc	NM_	.
ACa07	17	78937995	.	G	A	.	PASS	RPTOR	intrc	NM_	.
ACa07	17	79027499	.	G	A	.	PASS	BAIAP2	exo	NM_	missens
ACa07	17	79180303	.	C	A	.	PASS	CEP131	intrc	NM_	.
ACa07	17	79279159	rs3678800	C	T	.	PASS	LINC00	ncR	NR_	.
ACa07	17	79390607	.	G	A	.	PASS	BAHCC	intrc	NM_	.
ACa07	17	79632417	.	C	T	.	PASS	OXLD1	exo	NM_	synonym
ACa07	17	79916537	.	C	A	.	PASS	NOTUM	intrc	NM_	.
ACa07	17	79974405	.	T	C	.	PASS	ASPSCI	splice	NM_NM	.
ACa07	17	80041663	.	G	A	.	PASS	FASN	exo	NM_	missens
ACa07	17	80047200	rs7594547	G	A	.	PASS	FASN	exo	NM_	missens
ACa07	17	80085557	.	C	T	.	PASS	CCDC5	intrc	NM_	.
ACa07	17	80575231	rs1452537	G	A	.	PASS	WDR45	exo	NM_	synonym
ACa07	17	80789716	.	G	A	.	PASS	ZNF750	exo	NM_	synonym
ACa07	18	909466	.	G	A	.	PASS	ADCYA1	exo	NM_	missens
ACa07	18	2578185	.	A	G	.	PASS	NDC80	intrc	NM_	.
ACa07	18	12353187	.	A	G	.	PASS	AFG3L2	intrc	NM_	.
ACa07	18	13024458	.	G	A	.	PASS	CEP192	intrc	NM_	.
ACa07	18	13885013	.	A	T	.	PASS	MC2R	exo	NM_	missens
ACa07	18	14890007	.	C	A	.	PASS	.	inte	NM_dis	.
ACa07	18	15004074	.	G	A	.	PASS	.	inte	NR_dis	.
ACa07	18	19093947	.	G	T	.	PASS	GREB1	exo	NM_	missens
ACa07	18	19115949	rs1390032	C	T	.	PASS	ESCO1	intrc	NM_	.
ACa07	18	20948481	.	G	T	.	PASS	TMEM2	intrc	NM_	.
ACa07	18	21402267	rs5453420	C	T	.	PASS	LAMA3	exo	NM_	missens
ACa07	18	29847791	rs7793765	C	T	.	PASS	GAREM	UTF	NM_NM	.
ACa07	18	33719560	.	A	G	.	PASS	ELP2	exo	NM_	synonym
ACa07	18	43495988	.	A	G	.	PASS	EPG5	exo	NM_	missens
ACa07	18	44656708	rs7789211	G	A	.	PASS	HDHD2	intrc	NM_	.
ACa07	18	44656742	.	A	G	.	PASS	HDHD2	intrc	NM_	.
ACa07	18	47421391	rs7710491	G	A	.	PASS	MYO5B	exo	NM_	missens
ACa07	18	47778202	.	C	T	.	PASS	CFAP5	intrc	NM_	.
ACa07	18	57677257	.	G	A	.	PASS	.	inte	NM_dis	.
ACa07	18	60225951	.	G	T	.	PASS	ZCCHC	exo	NM_	missens
ACa07	18	61234143	rs1417032	C	T	.	PASS	SERPIN	exo	NM_	stopgain
ACa07	18	61309094	.	T	C	.	PASS	SERPIN	exo	NM_	missens
ACa07	18	67871371	.	A	G	.	PASS	RTTN	exo	NM_	synonym
ACa07	18	72346490	.	C	A	.	PASS	ZNF407	exo	NM_	missens
ACa07	18	77067295	.	G	T	.	PASS	ATP9B	intrc	NM_	.
ACa07	19	312348	rs1020066	C	T	.	PASS	MIER2	intrc	NM_	.
ACa07	19	572542	.	C	T	.	PASS	BSG	UTF	NM_NM	.
ACa07	19	619791	rs3749392	C	T	.	PASS	POLRM	intrc	NM_	.

ACa07	19	629937	rs7789396	G	A	.	PASS	POLRM	exon	NM_	missens
ACa07	19	736057	.	G	A	.	PASS	PALM	exon	NM_	missens
ACa07	19	805209	rs3777310	C	T	.	PASS	PTBP1	intrc	NM_	.
ACa07	19	1012501	.	G	T	.	PASS	TMEM2	exon	NM_	missens
ACa07	19	1079821	rs9456811	C	T	.	PASS	HMHA1	exon	NM_	synonyr
ACa07	19	1091690	.	C	T	.	PASS	POLR2f	intrc	NM_	.
ACa07	19	1105690	rs7620114	G	A	.	PASS	GPX4	exon	NM_	unknow
ACa07	19	1109709	rs2022226	C	T	.	PASS	SBNO2	exon	NM_	synonyr
ACa07	19	1112702	.	C	T	.	PASS	SBNO2	intrc	NM_	.
ACa07	19	1122606	rs7799382	G	A	.	PASS	SBNO2	intrc	NM_	.
ACa07	19	1149369	.	G	A	.	PASS	SBNO2	exon	NM_	missens
ACa07	19	1255409	.	C	A	.	PASS	MIDN	intrc	NM_	.
ACa07	19	1271445	rs3753640	C	T	.	PASS	CIRBP	exon	NM_	missens
ACa07	19	1407859	.	G	A	.	PASS	DAZAP	intrc	NM_	.
ACa07	19	1434018	.	G	A	.	PASS	DAZAP	intrc	NM_	.
ACa07	19	1531834	rs1007918	C	T	.	PASS	PLK5	exon	NM_	synonyr
ACa07	19	2211189	rs3694032	G	A	.	PASS	DOT1L	exon	NM_	synonyr
ACa07	19	2341270	rs7522031	G	A	.	PASS	SPPL2E	intrc	NM_	.
ACa07	19	2757710	.	G	T	.	PASS	SGTA	exon	NM_	missens
ACa07	19	2767039	.	C	A	.	PASS	SGTA	intrc	NM_	.
ACa07	19	3179096	rs3763485	C	T	.	PASS	S1PR4	exon	NM_	synonyr
ACa07	19	3457098	rs7773785	C	T	.	PASS	NFIC	intrc	NM_	.
ACa07	19	3816988	.	G	A	.	PASS	ZFR2	intrc	NM_	.
ACa07	19	4210478	.	C	T	.	PASS	ANKRD	intrc	NM_	.
ACa07	19	4217198	rs7591374	G	A	.	PASS	ANKRD	exon	NM_	missens
ACa07	19	4362368	.	G	A	.	PASS	SH3GL	exon	NM_	stopgair
ACa07	19	4538218	rs1503658	G	A	.	PASS	LRG1	exon	NM_	missens
ACa07	19	4544276	.	G	A	.	PASS	SEMA6l	exon	NM_	synonyr
ACa07	19	5039983	.	T	C	.	PASS	KDM4B	exon	NM_	missens
ACa07	19	5641967	.	C	T	.	PASS	SAFB	intrc	NM_	.
ACa07	19	5785310	rs1018214	G	A	.	PASS	DUS3L	intrc	NM_	.
ACa07	19	6477127	rs7632840	G	A	.	PASS	DENND	exon	NM_	unknow
ACa07	19	6826394	.	T	C	.	PASS	VAV1	intrc	NM_	.
ACa07	19	7527157	rs1390681	C	T	.	PASS	ARHGE	exon	NM_	missens
ACa07	19	7607845	rs3770694	C	T	.	PASS	PNPLA	intrc	NM_	.
ACa07	19	7687484	rs3745730	G	A	.	PASS	XAB2	exon	NM_	missens
ACa07	19	7688095	rs7516930	C	T	.	PASS	XAB2	exon	NM_	synonyr
ACa07	19	7704641	rs1417170	G	A	.	PASS	STXBP2	exon	NM_	missens
ACa07	19	7806726	.	G	T	.	PASS	CD209	UTF	NM_	NM_
ACa07	19	7808878	.	C	A	.	PASS	CD209	intrc	NM_	.
ACa07	19	7920858	rs7595385	C	T	.	PASS	EVI5L	intrc	NM_	.
ACa07	19	8201121	rs3527749	C	T	.	PASS	FBN3	exon	NM_	missens
ACa07	19	8367325	rs7615602	C	T	.	PASS	CD320	UTF	NM_	NM_
ACa07	19	8503622	rs5308100	T	G	.	PASS	2-Mar	UTF	NM_	NM_
ACa07	19	8808742	.	C	T	.	PASS	ACTL9	exon	NM_	missens
ACa07	19	8893064	rs3694972	C	T	.	PASS	.	inte	NM_	dis.
ACa07	19	8893178	rs3751712	C	G	.	PASS	.	inte	NM_	dis.
ACa07	19	9014701	rs5686926	G	A	.	PASS	MUC16	exon	NM_	synonyr
ACa07	19	9063844	rs7801357	C	T	.	PASS	MUC16	exon	NM_	missens
ACa07	19	9064124	.	C	T	.	PASS	MUC16	exon	NM_	synonyr
ACa07	19	9922558	.	A	G	.	PASS	FBXL12	intrc	NM_	.
ACa07	19	9949144	rs7564749	G	A	.	PASS	PIN1	exon	NM_	missens
ACa07	19	9965347	rs7814402	G	A	.	PASS	OLFM2	exon	NM_	missens
ACa07	19	10201938	.	C	T	.	PASS	C19orf6	exon	NM_	missens



ACa07	19	10218498	.	G	A	.	PASS	PPAN-F	exon	NM_	missens
ACa07	19	10225883	.	G	A	.	PASS	P2RY11	UTF	NM_NM	.
ACa07	19	10394233	.	G	T	.	PASS	ICAM1	exon	NM_	missens
ACa07	19	10405808	.	G	A	.	PASS	ICAM5	intrc	NM_	.
ACa07	19	10475409	rs1383503	G	A	.	PASS	TYK2	exon	NM_	synonyr
ACa07	19	10577703	rs2009930	G	A	.	PASS	PDE4A	exon	NM_	synonyr
ACa07	19	10662385	.	A	G	.	PASS	ATG4D	intrc	NM_	.
ACa07	19	10676669	.	C	T	.	PASS	KRI1	exon	NM_	missens
ACa07	19	11224018	rs7634492	C	T	.	PASS	LDLR	exon	NM_	synonyr
ACa07	19	11240383	rs3737274	G	A	.	PASS	LDLR	intrc	NM_	.
ACa07	19	11348936	rs3721772	C	T	.	PASS	DOCK6	exon	NM_	missens
ACa07	19	11541352	.	A	G	.	PASS	CCDC1	intrc	NM_	.
ACa07	19	11660011	rs5385135	A	T	.	PASS	CNN1	intrc	NM_	.
ACa07	19	12766435	.	G	T	.	PASS	MAN2B	intrc	NM_	.
ACa07	19	13084339	rs3710318	G	A	.	PASS	DAND5	exon	NM_	missens
ACa07	19	14076450	.	G	A	.	PASS	RFX1	exon	NM_	missens
ACa07	19	14208252	.	A	C	.	PASS	PRKAC	exon	NM_	missens
ACa07	19	15540664	.	C	G	.	PASS	WIZ	intrc	NM_	.
ACa07	19	15839060	.	C	T	.	PASS	OR10H	exon	NM_	synonyr
ACa07	19	16437736	.	G	A	.	PASS	KLF2	exon	NM_	missens
ACa07	19	16495865	rs1015670	G	A	.	PASS	EPS15L	intrc	NM_	.
ACa07	19	17108172	.	C	T	.	PASS	CPAMD	intrc	NM_	.
ACa07	19	17278658	rs1138422	G	A	.	PASS	MYO9B	intrc	NM_	.
ACa07	19	17338512	.	T	C	.	PASS	OCEL1	intrc	NM_	.
ACa07	19	17366376	rs9290443	G	A	.	PASS	USHBP	exon	NM_	missens
ACa07	19	17452078	rs7698270	G	A	.	PASS	GTPBP	exon	NM_	synonyr
ACa07	19	17767088	rs1043222	C	T	.	PASS	UNC13	exon	NM_	missens
ACa07	19	17783446	.	T	C	.	PASS	UNC13	intrc	NM_	.
ACa07	19	18258237	.	G	T	.	PASS	MAST3	intrc	NM_	.
ACa07	19	18333024	.	C	T	.	PASS	PDE4C	exon	NM_	missens
ACa07	19	18967718	rs3719294	C	T	.	PASS	UPF1	exon	NM_	synonyr
ACa07	19	19452210	rs2012753	C	T	.	PASS	MAU2	exon	NM_	synonyr
ACa07	19	20229551	.	C	A	.	PASS	ZNF90	exon	NM_	synonyr
ACa07	19	21838755	.	T	C	.	PASS	.	inte	NM_dis	.
ACa07	19	22836286	.	T	C	.	PASS	ZNF492	intrc	NM_	.
ACa07	19	30164554	.	C	T	.	PASS	PLEKHf	intrc	NM_	.
ACa07	19	31767776	rs7540203	C	T	.	PASS	TSHZ3	exon	NM_	missens
ACa07	19	34811007	rs3754283	C	T	.	PASS	KIAA03	exon	NM_	missens
ACa07	19	34868527	.	C	G	.	PASS	GPI	intrc	NM_	.
ACa07	19	35836331	.	A	C	.	PASS	CD22	intrc	NM_	.
ACa07	19	36124878	rs7656023	G	A	.	PASS	RBM42	exon	NM_	missens
ACa07	19	36581331	.	G	A	.	PASS	WDR62	intrc	NM_	.
ACa07	19	36727209	.	T	C	.	PASS	ZNF146	UTF	NM_NM	.
ACa07	19	37037627	rs5581240	C	T	.	PASS	ZNF529	UTF	NM_NM	.
ACa07	19	37780303	.	C	T	.	PASS	.	inte	NR_dis	.
ACa07	19	37784554	rs4806419	C	A	.	PASS	.	inte	NR_dis	.
ACa07	19	37785301	rs7125437	C	G	.	PASS	.	inte	NR_dis	.
ACa07	19	37785451	.	C	T	.	PASS	.	inte	NR_dis	.
ACa07	19	38375409	rs7728313	G	A	.	PASS	.	dow	NM_	.
ACa07	19	38684347	.	G	T	.	PASS	SIPA1L	exon	NM_	unknow
ACa07	19	38861397	rs1476199	C	T	.	PASS	CATSP	exon	NM_	missens
ACa07	19	38904308	.	C	T	.	PASS	RASGR	intrc	NM_	.
ACa07	19	39003154	rs3756003	G	A	.	PASS	RYR1	intrc	NM_	.
ACa07	19	39051696	rs5371432	A	G	.	PASS	RYR1	intrc	NM_	.

ACa07	19	39098907	.	G	A	.	PASS	MAP4K	intrc	NM_	.	.
ACa07	19	39329428	.	C	A	.	PASS	HNRNP	intrc	NM_	.	.
ACa07	19	39381353	rs5721273	A	G	.	PASS	SIRT2	intrc	NM_	.	.
ACa07	19	39739143	rs8917290	G	A	.	PASS	IFNL4	exo	NM_	unknow	
ACa07	19	40025388	.	T	C	.	PASS	.	inte	NM_dis	.	.
ACa07	19	40221984	rs7564368	G	A	.	PASS	CLC	UTF	NM_NM	.	.
ACa07	19	40316434	rs7738579	G	A	.	PASS	DYRK1f	exo	NM_	unknow	
ACa07	19	40376264	.	G	A	.	PASS	FCGBP	intrc	NM_	.	.
ACa07	19	41083493	rs7469641	G	A	.	PASS	SHKBP	exo	NM_	missens	
ACa07	19	41083673	.	C	T	.	PASS	SHKBP	intrc	NM_	.	.
ACa07	19	41099064	.	G	A	.	PASS	.	ups	NM_	.	.
ACa07	19	41119079	.	C	T	.	PASS	LTBP4	exo	NM_	unknow	
ACa07	19	41119905	.	C	T	.	PASS	LTBP4	exo	NM_	unknow	
ACa07	19	41193028	.	C	A	.	PASS	NUMBL	intrc	NM_	.	.
ACa07	19	41255546	rs1045293	G	C	.	PASS	C19orf5	exo	NM_	missens	
ACa07	19	41808836	.	G	T	.	PASS	HNRNP	exo	NM_	unknow	
ACa07	19	41854288	.	G	T	.	PASS	TGFB1	exo	NM_	missens	
ACa07	19	42398329	.	C	T	.	PASS	ARHGE	exo	NM_	missens	
ACa07	19	42880770	.	C	A	.	PASS	MEGF8	exo	NM_	missens	
ACa07	19	43097765	.	C	A	.	PASS	CEACA	exo	NM_	stopgair	
ACa07	19	43244381	.	T	C	.	PASS	PSG3	intrc	NM_	.	.
ACa07	19	43290727	.	C	T	.	PASS	.	inte	NM_dis	.	.
ACa07	19	44096856	.	G	A	.	PASS	IRGQ	exo	NM_	synonyr	
ACa07	19	44492772	.	T	G	.	PASS	ZNF155	intrc	NM_	.	.
ACa07	19	44892038	.	G	T	.	PASS	ZNF285	exo	NM_	missens	
ACa07	19	44932620	rs7737032	C	T	.	PASS	ZNF229	exo	NM_	unknow	
ACa07	19	45121644	rs9075637	C	T	.	PASS	IGSF23	intrc	NM_	.	.
ACa07	19	45183512	.	C	T	.	PASS	CEACA	intrc	NM_	.	.
ACa07	19	45207659	rs5632226	C	T	.	PASS	CEACA	intrc	NM_	.	.
ACa07	19	45254635	.	C	T	.	PASS	BCL3	exo	NM_	synonyr	
ACa07	19	45315761	.	C	A	.	PASS	BCAM	exo	NM_	missens	
ACa07	19	45395763	.	T	C	.	PASS	TOMM4	intrc	NM_	.	.
ACa07	19	46094263	.	G	T	.	PASS	GPR4	exo	NM_	missens	
ACa07	19	47207795	rs1026645	C	T	.	PASS	PRKD2	exo	NM_	missens	
ACa07	19	47236438	rs3697415	C	T	.	PASS	STRN4	exo	NM_	missens	
ACa07	19	47940535	.	G	A	.	PASS	SLC8A2	intrc	NM_	.	.
ACa07	19	48325475	.	G	A	.	PASS	CRX	intrc	NM_	.	.
ACa07	19	48364154	.	C	T	.	PASS	.	inte	NM_dis	.	.
ACa07	19	48423499	rs6213000	C	G	.	PASS	.	inte	NR_dis	.	.
ACa07	19	49132107	.	G	A	.	PASS	SPHK2	exo	NM_	missens	
ACa07	19	49355406	rs1012379	G	A	.	PASS	PLEKH7	intrc	NM_	.	.
ACa07	19	49601618	.	G	A	.	PASS	SNRNP	intrc	NM_	.	.
ACa07	19	49605507	.	A	G	.	PASS	SNRNP	intrc	NM_	.	.
ACa07	19	49867782	rs5626072	C	T	.	PASS	DKKL1	intrc	NM_	.	.
ACa07	19	49918087	.	C	T	.	PASS	CCDC1f	intrc	NM_	.	.
ACa07	19	50046324	.	G	T	.	PASS	RCN3	intrc	NM_	.	.
ACa07	19	50208142	rs7508901	C	T	.	PASS	CPT1C	intrc	NM_	.	.
ACa07	19	50775820	rs3749564	G	A	.	PASS	MYH14	exo	NM_	missens	
ACa07	19	50880852	rs2001122	G	A	.	PASS	NR1H2	UTF	NM_NM	.	.
ACa07	19	50910470	.	G	A	.	PASS	POLD1	intrc	NM_	.	.
ACa07	19	50915997	rs5643823	T	G	.	PASS	POLD1	intrc	NM_	.	.
ACa07	19	50920365	rs3695357	C	T	.	PASS	POLD1	intrc	NM_	.	.
ACa07	19	50922148	.	G	A	.	PASS	.	ups	NM_	.	.
ACa07	19	50944153	rs7738602	G	A	.	PASS	MYBPC	exo	NM_	missens	

ACa07	19	50969451	.	G	A	.	PASS	MYBPC	splice	NM_NM	.
ACa07	19	51273989	.	A	G	.	PASS	GPR32	exon	NM	synonym
ACa07	19	53453763	.	T	C	.	PASS	ZNF816	exon	NM	missense
ACa07	19	53553611	.	A	G	.	PASS	ERVV-2	exon	NM	synonym
ACa07	19	53770304	rs1420234	T	G	.	PASS	VN1R4	exon	NM	synonym
ACa07	19	54257306	.	G	A	.	PASS	MIR527	ncR	NR	.
ACa07	19	54483198	.	T	G	.	PASS	CACNG	exon	NM	missense
ACa07	19	54634642	.	T	C	.	PASS	PRPF31	intron	NM	.
ACa07	19	54660450	.	G	A	.	PASS	LENG1	intron	NM	.
ACa07	19	54745439	rs3704562	G	A	.	PASS	LILRA6,	intron	NM	.
ACa07	19	54941633	.	C	A	.	PASS	TTYH1	intron	NM	.
ACa07	19	55045145	rs7529171	G	A	.	PASS	KIR3DX	ncR	NR	.
ACa07	19	55685191	.	G	T	.	PASS	SYT5	intron	NM	.
ACa07	19	55889387	rs3707427	C	T	.	PASS	TMEM1	exon	NM	missense
ACa07	19	56424219	rs2000514	G	A	.	PASS	NLRP13	exon	NM	missense
ACa07	19	57327563	rs7704358	C	T	.	PASS	PEG3	exon	NM	synonym
ACa07	19	58011532	.	G	A	.	PASS	ZNF773	intron	NM	.
ACa07	19	58099851	.	G	A	.	PASS	ZIK1	intron	NM	.
ACa07	19	58499615	rs1474253	C	T	.	PASS	ZNF606	exon	NM	synonym
ACa07	19	58571417	.	C	T	.	PASS	ZNF135	UTF	NM_NM	.
ACa07	19	58858404	rs3733248	C	T	.	PASS	A1BG	intron	NM	.
ACa07	20	1903097	rs1021538	C	T	.	PASS	SIRPA	exon	NM	missense
ACa07	20	2413101	rs7627114	T	C	.	PASS	TGM6	intron	NM	.
ACa07	20	2635601	.	G	A	.	PASS	NOP56	intron	NM	.
ACa07	20	3245239	rs8672082	C	T	.	PASS	C20orf1	intron	NM	.
ACa07	20	3642095	.	C	T	.	PASS	GFRA4	intron	NM	.
ACa07	20	3651693	rs7638624	G	A	.	PASS	ADAM3	exon	NM	stopgain
ACa07	20	4705860	.	C	T	.	PASS	PRND	UTF	NM_NM	.
ACa07	20	11009666	rs1032256	G	A	.	PASS	.	intron	NR_dis	.
ACa07	20	16385687	.	T	C	.	PASS	KIF16B	intron	NM	.
ACa07	20	18139741	.	A	G	.	PASS	CSRP2	exon	NM	missense
ACa07	20	18362090	.	T	C	.	PASS	LINC00	ncR	NR	.
ACa07	20	23669411	rs1509219	G	A	.	PASS	CST4	exon	NM	missense
ACa07	20	25289014	.	T	C	.	PASS	ABHD12	intron	NM	.
ACa07	20	25745477	.	C	T	.	PASS	FAM182	ncR	NR	.
ACa07	20	29612803	.	C	T	.	PASS	FRG1B	ncR	NR	.
ACa07	20	29612810	.	G	A	.	PASS	FRG1B	ncR	NR	.
ACa07	20	31043958	rs1845841	C	T	.	PASS	NOL4L	exon	NM	missense
ACa07	20	31654608	.	C	A	.	PASS	BPIFB3	intron	NM	.
ACa07	20	32354938	.	G	T	.	PASS	ZNF341	intron	NM	.
ACa07	20	33247126	.	G	A	.	PASS	PIGU	intron	NM	.
ACa07	20	33657227	rs7460506	A	T	.	PASS	TRPC4	intron	NM	.
ACa07	20	34099484	.	A	C	.	PASS	CEP25C	UTF	NM_NM	.
ACa07	20	34263091	rs1480471	C	T	.	PASS	NFS1	exon	NM	missense
ACa07	20	34329931	rs5431099	T	C	.	PASS	RBM39	UTF	NM_NM	.
ACa07	20	34806760	.	G	A	.	PASS	EPB41L	intron	NM	.
ACa07	20	35064896	.	G	A	.	PASS	DLGAP2	intron	NM	.
ACa07	20	35374485	rs8798536	G	A	.	PASS	NDRG3	UTF	NM_NM	.
ACa07	20	35736905	.	G	T	.	PASS	MROH8	intron	NM	.
ACa07	20	36718044	rs9848856	C	T	.	PASS	RPRD11	intron	NM	.
ACa07	20	37591014	rs9460302	G	A	.	PASS	DHX35	exon	NM	missense
ACa07	20	37667223	rs3711048	G	A	.	PASS	DHX35	UTF	NM_NM	.
ACa07	20	39713106	.	G	A	.	PASS	TOP1	exon	NM	missense
ACa07	20	39794835	.	C	T	.	PASS	PLCG1	exon	NM	missense

ACa07	20	41100948	.	G	A	.	PASS	PTPRT	exon	NM_	stopgain
ACa07	20	41101120	rs3761522	G	A	.	PASS	PTPRT	exon	NM_	synonym
ACa07	20	43349104	.	T	C	.	PASS	WISP2	intron	NM_	.
ACa07	20	43752926	.	G	T	.	PASS	WFDC1	intron	NM_	.
ACa07	20	44666942	.	C	A	.	PASS	SLC12A	intron	NM_	.
ACa07	20	45004077	.	G	T	.	PASS	ELMO2	intron	NM_	.
ACa07	20	45212380	.	G	T	.	PASS	SLC13A	intron	NM_	.
ACa07	20	45905430	.	C	T	.	PASS	ZMYND	exon	NM_	missense
ACa07	20	49621024	.	G	A	.	PASS	KCNG1	exon	NM_	missense
ACa07	20	50234189	.	C	T	.	PASS	ATP9A	intron	NM_	.
ACa07	20	50721612	.	G	A	.	PASS	ZFP64	intron	NM_	.
ACa07	20	52193647	rs8891302	C	T	.	PASS	ZNF217	exon	NM_	synonym
ACa07	20	52454373	rs8669651	T	C	.	PASS	.	intron	NM_dis	.
ACa07	20	57429095	.	G	A	.	PASS	GNAS	exon	NM_	missense
ACa07	20	57429831	.	C	T	.	PASS	GNAS	exon	NM_	missense
ACa07	20	58486765	.	G	A	.	PASS	SYCP2	intron	NM_	.
ACa07	20	60705624	rs7702464	C	T	.	PASS	LSM14E	exon	NM_	missense
ACa07	20	61468410	rs7787907	C	T	.	PASS	COL9A3	intron	NM_	.
ACa07	20	61468733	rs1813756	G	A	.	PASS	COL9A3	intron	NM_	.
ACa07	20	61909505	rs1435421	G	A	.	PASS	ARFGAP3	exon	NM_	synonym
ACa07	20	62153550	.	C	T	.	PASS	.	down	NM_	.
ACa07	20	62174036	.	A	G	.	PASS	SRMS	intron	NM_	.
ACa07	20	62493372	rs5462318	G	A	.	PASS	ABHD16	exon	NM_	missense
ACa07	21	9755905	rs7962225	A	G	.	PASS	.	intron	NON_dis	.
ACa07	21	9826731	.	C	T	.	PASS	.	down	NR_	.
ACa07	21	10087796	.	G	A	.	PASS	.	intron	NR_dis	.
ACa07	21	10139755	.	C	A	.	PASS	.	intron	NR_dis	.
ACa07	21	10535504	rs8680295	G	A	.	PASS	.	intron	NR_dis	.
ACa07	21	10535526	rs3711086	C	A	.	PASS	.	intron	NR_dis	.
ACa07	21	10614100	rs3775054	C	T	.	PASS	.	intron	NR_dis	.
ACa07	21	10969870	.	G	A	.	PASS	TPTE	intron	NM_	.
ACa07	21	10970029	.	C	A	.	PASS	TPTE	exon	NM_	unknown
ACa07	21	11058391	rs5282430	G	C	.	PASS	BAGE5	intron	NM_	.
ACa07	21	11107313	.	C	T	.	PASS	.	intron	NM_dis	.
ACa07	21	11116113	rs665796	T	C	.	PASS	.	intron	NM_dis	.
ACa07	21	11116122	rs6582845	C	T	.	PASS	.	intron	NM_dis	.
ACa07	21	11181417	rs915519	G	C	.	PASS	.	intron	NM_dis	.
ACa07	21	14424309	.	C	T	.	PASS	ANKRD	ncR	NR_	.
ACa07	21	14721665	.	T	C	.	PASS	.	intron	NR_dis	.
ACa07	21	22643653	.	A	G	.	PASS	NCAM2	intron	NM_	.
ACa07	21	27083858	.	C	G	.	PASS	JAM2	intron	NM_	.
ACa07	21	27348250	.	A	G	.	PASS	APP	intron	NM_	.
ACa07	21	28792752	rs9172671	C	T	.	PASS	MIR500	ncR	NR_	.
ACa07	21	31720848	.	C	T	.	PASS	KRTAP2	exon	NM_	missense
ACa07	21	33330766	.	A	G	.	PASS	HUNK	intron	NM_	.
ACa07	21	33340425	.	G	T	.	PASS	HUNK	intron	NM_	.
ACa07	21	34017987	rs1034062	C	T	.	PASS	SYNJ1	exon	NM_	synonym
ACa07	21	34443159	.	C	T	.	PASS	OLIG1	exon	NM_	synonym
ACa07	21	34713283	rs7587939	A	G	.	PASS	IFNAR1	intron	NM_	.
ACa07	21	35190531	.	C	T	.	PASS	ITSN1	intron	NM_	.
ACa07	21	37443165	.	T	G	.	PASS	LOC100	ncR	NR_	.
ACa07	21	38367015	.	C	T	.	PASS	.	intron	NM_dis	.
ACa07	21	38470307	rs5585229	C	T	.	PASS	TTC3	intron	NM_	.
ACa07	21	40555352	rs7591033	G	A	.	PASS	PSMG1	UTF	NM_NV	.

ACa07	21	40627700	rs7585989	C	T	.	PASS	BRWD1	exo NM_	missens
ACa07	21	41165725	.	C	A	.	PASS	IGSF5	intrc NM_	.
ACa07	21	41414479	.	C	A	.	PASS	DSCAM	exo NM_	synonyr
ACa07	21	41416012	.	T	C	.	PASS	DSCAM	exo NM_	synonyr
ACa07	21	41452118	.	G	A	.	PASS	DSCAM	exo NM_	missens
ACa07	21	41710096	.	T	C	.	PASS	DSCAM	exo NM_	missens
ACa07	21	42716350	.	C	T	.	PASS	FAM3B	intrc NM_	.
ACa07	21	43230856	.	T	C	.	PASS	PRDM1	intrc NM_	.
ACa07	21	43325674	rs9464977	G	A	.	PASS	C2CD2	intrc NM_	.
ACa07	21	43411857	.	G	A	.	PASS	ZBTB21	exo NM_	missens
ACa07	21	43959597	.	T	C	.	PASS	SLC37A	intrc NM_	.
ACa07	21	44514959	rs1014361	C	A	.	PASS	U2AF1	intrc NM_	.
ACa07	21	45220931	rs7806447	G	A	.	PASS	RRP1	intrc NM_	.
ACa07	21	45547974	rs5662670	C	T	.	PASS	PWP2	exo NM_	missens
ACa07	21	45856886	rs9852755	C	T	.	PASS	TRPM2	intrc NM_	.
ACa07	21	46320365	rs7565454	G	A	.	PASS	ITGB2	exo NM_	missens
ACa07	21	46935755	rs7582548	C	T	.	PASS	SLC19A	exo NM_	synonyr
ACa07	21	47409750	rs3771590	C	T	.	PASS	COL6A1	intrc NM_	.
ACa07	21	47572651	.	G	A	.	PASS	FTCD	intrc NM_	.
ACa07	21	47722647	.	G	A	.	PASS	C21orf5	intrc NM_	.
ACa07	21	47817386	rs7517144	G	A	.	PASS	PCNT	exo NM_	missens
ACa07	21	47965145	.	G	A	.	PASS	DIP2A	exo NM_	missens
ACa07	22	16229834	rs2845112	A	G	.	PASS	.	inte NR_dis	.
ACa07	22	16256800	rs8790424	C	G	.	PASS	POTEH	intrc NM_	.
ACa07	22	16287159	.	A	G	.	PASS	POTEH	intrc NM_	.
ACa07	22	16347994	rs1248470	C	A	.	PASS	.	inte NM_dis	.
ACa07	22	17445828	.	G	A	.	PASS	GAB4	intrc NM_	.
ACa07	22	19028635	rs5555078	G	A	.	PASS	DGCR2	exo NM_	synonyr
ACa07	22	19109530	.	T	A	.	PASS	DGCR2	intrc NM_	.
ACa07	22	20709550	rs1899538	G	A	.	PASS	.	inte NM_dis	.
ACa07	22	20711723	.	C	A	.	PASS	.	inte NM_dis	.
ACa07	22	20795769	.	G	A	.	PASS	.	dow NM_	.
ACa07	22	21066804	rs3714923	G	A	.	PASS	PI4KA	exo NM_	synonyr
ACa07	22	21800936	rs7724279	G	A	.	PASS	HIC2	exo NM_	synonyr
ACa07	22	22681696	.	G	A	.	PASS	.	inte NR_dis	.
ACa07	22	23264876	rs3777336	G	A	.	PASS	.	inte NM_dis	.
ACa07	22	24145443	rs3681295	C	T	.	PASS	SMARC	intrc NM_	.
ACa07	22	24584287	.	G	T	.	PASS	SUSD2	exo NM_	missens
ACa07	22	24837284	.	C	T	.	PASS	ADORA	exo NM_	missens
ACa07	22	24911361	.	G	T	.	PASS	UPB1	intrc NM_	.
ACa07	22	25019124	rs7723316	G	A	.	PASS	GGT1	exo NM_	missens
ACa07	22	25041478	.	C	T	.	PASS	POM12	ncR NR_	.
ACa07	22	27282917	.	C	T	.	PASS	.	inte NR_dis	.
ACa07	22	29628179	rs1925641	C	T	.	PASS	EMID1	intrc NM_	.
ACa07	22	30885889	.	T	C	.	PASS	SEC14L	UTF NM_NV	.
ACa07	22	31287084	.	G	A	.	PASS	OSBP2	intrc NM_	.
ACa07	22	31489439	rs5710568	G	A	.	PASS	SMTN	intrc NM_	.
ACa07	22	31685923	rs1015431	C	T	.	PASS	PIK3IP1	intrc NM_	.
ACa07	22	32003934	.	G	A	.	PASS	SFI1	exo NM_	synonyr
ACa07	22	32532909	.	T	C	.	PASS	.	inte NR_dis	.
ACa07	22	32795806	.	T	C	.	PASS	RTCB	intrc NM_	.
ACa07	22	33672966	.	G	A	.	PASS	LARGE	intrc NM_	.
ACa07	22	35812391	rs1379196	C	T	.	PASS	MCM5	exo NM_	synonyr
ACa07	22	36678570	.	C	T	.	PASS	MYH9	UTF NM_NV	.

ACa07	22	37326821	rs3682304	G	A	.	PASS	CSF2Rf	exo NM_	missens
ACa07	22	37400169	rs5367410	C	T	.	PASS	TEX33	intrc NM_	.
ACa07	22	38511635	.	G	A	.	PASS	PLA2Gf	exo NM_	stopgain
ACa07	22	38610282	.	C	A	.	PASS	MAFF	intrc NM_	.
ACa07	22	38622889	rs7523833	A	G	.	PASS	TMEM1	intrc NM_	.
ACa07	22	38823720	.	G	A	.	PASS	KCNJ4	exo NM_	missens
ACa07	22	38824095	.	G	A	.	PASS	KCNJ4	exo NM_	missens
ACa07	22	39126505	rs5714435	C	T	.	PASS	GTPBP	intrc NM_	.
ACa07	22	39448270	.	C	T	.	PASS	APOBE1	exo NM_	synonym
ACa07	22	40053731	rs3719126	C	T	.	PASS	CACNA	intrc NM_	.
ACa07	22	40708930	.	C	T	.	PASS	TNRC6f	exo NM_	missens
ACa07	22	41075625	rs2016059	G	A	.	PASS	MCHR1	exo NM_	missens
ACa07	22	41926891	.	C	T	.	PASS	POLR3f	exo NM_	missens
ACa07	22	41928740	rs1838128	C	T	.	PASS	POLR3f	exo NM_	missens
ACa07	22	42335257	.	C	A	.	PASS	CENPM	intrc NM_	.
ACa07	22	42910976	.	G	A	.	PASS	RRP7A	intrc NM_	.
ACa07	22	44178231	rs1916812	C	T	.	PASS	EFCABf	intrc NM_	.
ACa07	22	44341889	.	G	A	.	PASS	PNPLA3	intrc NM_	.
ACa07	22	45597019	rs5584935	C	T	.	PASS	KIAA09f	intrc NM_	.
ACa07	22	45724214	rs1305515	C	T	.	PASS	FAM11f	intrc NM_	.
ACa07	22	45809290	.	C	T	.	PASS	SMC1B	intrc NM_	.
ACa07	22	45931221	.	A	G	.	PASS	FBLN1	splice NM_NV	.
ACa07	22	46130150	.	T	C	.	PASS	ATXN1C	intrc NM_	.
ACa07	22	46657939	.	G	A	.	PASS	PKDRE	exo NM_	synonym
ACa07	22	46760606	.	G	A	.	PASS	CELSR7	exo NM_	missens
ACa07	22	50436009	.	C	A	.	PASS	IL17REL	intrc NM_	.
ACa07	22	50553197	.	C	A	.	PASS	MOV10l	intrc NM_	.
ACa07	22	50591485	rs5595729	G	A	.	PASS	MOV10l	exo NM_	synonym
ACa07	22	50615116	.	G	A	.	PASS	PANX2	intrc NM_	.
ACa07	22	50615684	.	G	A	.	PASS	PANX2	exo NM_	synonym
ACa07	22	50724661	rs3705843	C	T	.	PASS	PLXNB2	exo NM_	synonym
ACa07	22	50876480	.	G	A	.	PASS	PPP6R2	intrc NM_	.
ACa07	22	50961677	.	C	T	.	PASS	NCAPH	exo NM_	missens
ACa07	22	51048083	rs9805300	C	T	.	PASS	MAPK8l	intrc NM_	.
ACa07	X	1743038	.	A	G	.	PASS	ASMT	intrc NM_	.
ACa07	X	2659015	.	T	G	.	PASS	CD99	UTF NM_NV	.
ACa07	X	2856352	.	A	C	.	PASS	ARSE	intrc NM_	.
ACa07	X	5810797	.	T	C	.	PASS	NLGN4	UTF NM_NV	.
ACa07	X	9935829	.	T	C	.	PASS	LOC10C	exo NM_	synonym
ACa07	X	12737015	.	G	T	.	PASS	FRMPD	intrc NM_	.
ACa07	X	13607566	.	C	T	.	PASS	EGFL6	intrc NM_	.
ACa07	X	17750225	.	C	T	.	PASS	NHS	exo NM_	missens
ACa07	X	21393119	.	G	A	.	PASS	CNKSR	intrc NM_	.
ACa07	X	23876770	rs3730298	C	T	.	PASS	APOO	exo NM_	missens
ACa07	X	25031167	.	C	T	.	PASS	ARX	exo NM_	synonym
ACa07	X	27650692	.	T	C	.	PASS	.	inte NR_dis	.
ACa07	X	27830696	.	C	T	.	PASS	MAGEB	intrc NM_	.
ACa07	X	29414654	.	T	A	.	PASS	IL1RAPl	intrc NM_	.
ACa07	X	30268937	.	C	A	.	PASS	MAGEB	exo NM_	synonym
ACa07	X	30671533	.	G	A	.	PASS	GK	UTF NM_NV	.
ACa07	X	30714907	.	T	C	.	PASS	GK	intrc NM_	.
ACa07	X	32659702	.	A	C	.	PASS	DMD	intrc NM_	.
ACa07	X	35077818	.	A	C	.	PASS	.	inte NM_dis	.
ACa07	X	38037524	.	A	C	.	PASS	SRPX	intrc NM_	.

ACa07	X	40506680	.	G	A	.	PASS	CXorf38	exon	NM_	.	synonym
ACa07	X	44169469	.	G	A	.	PASS	EFHC2	intr	NM_	.	.
ACa07	X	47663162	.	C	T	.	PASS	.	inte	NR_	dis	.
ACa07	X	48047195	.	G	T	.	PASS	SSX5	intr	NM_	.	.
ACa07	X	48760101	rs7825839	C	T	.	PASS	PQBP1	intr	NM_	.	.
ACa07	X	48781133	rs3679315	G	A	.	PASS	OTUD5	exon	NM_	.	missens
ACa07	X	48935556	rs1871040	C	T	.	PASS	WDR45	exon	NM_	.	missens
ACa07	X	49021149	.	G	T	.	PASS	MAGIX	intr	NM_	.	.
ACa07	X	49034293	.	G	A	.	PASS	PRICKL	intr	NM_	.	.
ACa07	X	49061747	rs7822715	C	T	.	PASS	CACNA	exon	NM_	.	synonym
ACa07	X	49962195	.	C	T	.	PASS	AKAP4	exon	NM_	.	synonym
ACa07	X	51638837	.	G	A	.	PASS	MAGED	exon	NM_	.	missens
ACa07	X	52632804	.	G	A	.	PASS	.	inte	NM_	dis	.
ACa07	X	53222424	rs7825371	C	T	.	PASS	KDM5C	exon	NM_	.	missens
ACa07	X	53270791	.	G	T	.	PASS	IQSEC2	intr	NM_	.	.
ACa07	X	53430792	.	A	C	.	PASS	SMC1A	exon	NM_	.	missens
ACa07	X	53575150	.	G	T	.	PASS	HUWE1	exon	NM_	.	missens
ACa07	X	54186095	.	T	C	.	PASS	FAM12C	intr	NM_	.	.
ACa07	X	54495310	.	C	T	.	PASS	FGD1	splic	NM_	NM_	.
ACa07	X	54580986	.	G	A	.	PASS	GNL3L	intr	NM_	.	.
ACa07	X	54800884	rs9617788	A	G	.	PASS	ITIH6	intr	NM_	.	.
ACa07	X	61685261	.	T	G	.	PASS	.	inte	NOI	dis	.
ACa07	X	61687523	.	G	C	.	PASS	.	inte	NOI	dis	.
ACa07	X	61691656	.	A	G	.	PASS	.	inte	NOI	dis	.
ACa07	X	61691693	rs7124105	C	A	.	PASS	.	inte	NOI	dis	.
ACa07	X	61710635	.	A	G	.	PASS	.	inte	NOI	dis	.
ACa07	X	61712534	rs3765099	T	G	.	PASS	.	inte	NOI	dis	.
ACa07	X	61717326	.	T	C	.	PASS	.	inte	NOI	dis	.
ACa07	X	61717473	.	T	G	.	PASS	.	inte	NOI	dis	.
ACa07	X	61717952	.	A	C	.	PASS	.	inte	NOI	dis	.
ACa07	X	61719733	.	G	A	.	PASS	.	inte	NOI	dis	.
ACa07	X	63653978	.	C	A	.	PASS	.	inte	NM_	dis	.
ACa07	X	67944001	.	C	A	.	PASS	STARD1	intr	NM_	.	.
ACa07	X	67991777	rs7687527	G	A	.	PASS	.	inte	NM_	dis	.
ACa07	X	69497114	.	G	C	.	PASS	ARR3	intr	NM_	.	.
ACa07	X	70345997	rs7507300	C	T	.	PASS	MED12	exon	NM_	.	missens
ACa07	X	70443876	rs8632249	C	T	.	PASS	GJB1	exon	NM_	.	missens
ACa07	X	70613114	rs7685308	G	A	.	PASS	BCYRN	ncR	NR_	.	.
ACa07	X	70628064	.	C	A	.	PASS	BCYRN	ncR	NR_	.	.
ACa07	X	71792574	.	G	A	.	PASS	HDAC8	exon	NM_	.	missens
ACa07	X	71932644	.	C	T	.	PASS	PHKA1	exon	NM_	.	missens
ACa07	X	72674385	.	A	G	.	PASS	CDX4	exon	NM_	.	synonym
ACa07	X	72989914	.	G	A	.	PASS	.	inte	NM_	dis	.
ACa07	X	73619356	.	G	T	.	PASS	.	inte	NM_	dis	.
ACa07	X	73963938	.	C	A	.	PASS	KIAA202	exon	NM_	.	stopgain
ACa07	X	79816293	.	A	G	.	PASS	.	inte	NM_	dis	.
ACa07	X	80064940	.	C	T	.	PASS	BRWD3	exon	NM_	.	missens
ACa07	X	91131885	.	G	A	.	PASS	PCDH1	exon	NM_	.	missens
ACa07	X	91134064	.	C	A	.	PASS	PCDH1	exon	NM_	.	missens
ACa07	X	91714781	.	C	T	.	PASS	PCDH1	intr	NM_	.	.
ACa07	X	91751081	.	T	C	.	PASS	PCDH1	intr	NM_	.	.
ACa07	X	95788407	rs9672698	G	A	.	PASS	.	inte	NR_	dis	.
ACa07	X	1E+08	.	G	A	.	PASS	NOX1	exon	NM_	.	missens
ACa07	X	1.01E+08	.	C	A	.	PASS	NXF5	exon	NM_	.	missens

ACa07	X	1.01E+08	.	C	T	.	PASS	TCEAL2 intrc NM_ . .	
ACa07	X	1.04E+08	rs1507941	C	T	.	PASS	IL1RAP intrc NM_ . .	
ACa07	X	1.09E+08	.	G	A	.	PASS	ACSL4 UTF NM_ NM.	
ACa07	X	1.18E+08	.	C	A	.	PASS	LINC017 ncR NR_ . .	
ACa07	X	1.18E+08	rs8664003	T	C	.	PASS	. intrc NR_ dis .	
ACa07	X	1.19E+08	.	C	T	.	PASS	SLC25A ncR NR_ . .	
ACa07	X	1.2E+08	.	C	T	.	PASS	CUL4B intrc NM_ . .	
ACa07	X	1.24E+08	.	G	A	.	PASS	. intrc NM_ dis .	
ACa07	X	1.27E+08	rs1387255	C	T	.	PASS	ACTRT exo NM_ missens	
ACa07	X	1.29E+08	.	A	G	.	PASS	ZNF280 intrc NM_ . .	
ACa07	X	1.33E+08	.	C	A	.	PASS	GPC3 intrc NM_ . .	
ACa07	X	1.35E+08	.	C	T	.	PASS	SLC9A6 intrc NM_ . .	
ACa07	X	1.35E+08	.	G	T	.	PASS	GPR112 intrc NM_ . .	
ACa07	X	1.39E+08	.	A	G	.	PASS	ATP11C exo NM_ synonymr	
ACa07	X	1.4E+08	.	G	A	.	PASS	LDOC1, intrc NM_ dis .	
ACa07	X	1.49E+08	.	C	T	.	PASS	MAGEA exo NM_ synonymr	
ACa07	X	1.49E+08	rs7823749	C	T	.	PASS	CXorf4C UTF NM_ NM.	
ACa07	X	1.51E+08	.	G	A	.	PASS	CNGA2 exo NM_ missens	
ACa07	X	1.53E+08	rs3712627	C	T	.	PASS	. intrc NM_ dis .	
ACa07	X	1.53E+08	.	G	T	.	PASS	BGN exo NM_ missens	
ACa07	X	1.53E+08	.	G	A	.	PASS	ATP2B3 intrc NM_ . .	
ACa07	X	1.53E+08	rs7825278	G	A	.	PASS	SSR4 intrc NM_ . .	
ACa07	X	1.53E+08	.	G	A	.	PASS	L1CAM intrc NM_ . .	
ACa07	X	1.53E+08	.	G	A	.	PASS	L1CAM intrc NM_ . .	
ACa07	X	1.53E+08	.	G	A	.	PASS	RENBP splic NM_ NM.	
ACa07	X	1.53E+08	.	C	T	.	PASS	HCFC1 intrc NM_ . .	
ACa07	X	1.54E+08	.	G	A	.	PASS	SLC10A exo NM_ synonymr	
ACa07	X	1.54E+08	rs7819487	C	T	.	PASS	G6PD exo NM_ missens	
ACa07	X	1.54E+08	.	C	T	.	PASS	DKC1 intrc NM_ . .	
ACa07	X	1.54E+08	.	G	A	.	PASS	MPP1 UTF NM_ NM.	
ACa07	X	1.54E+08	.	G	A	.	PASS	SMIM9 UTF NM_ NM.	
ACa07	X	1.55E+08	.	A	G	.	PASS	TMLHE exo NM_ missens	
ACa07	Y	13323970	.	C	T	.	PASS	. intrc NON dis .	
ACa07	MT	9459	rs8791767	C	T	.	PASS	. intrc NON dis .	
ACa07	MT	11376	.	A	T	.	PASS	. intrc NON dis .	
ACa07	MT	15312	.	T	C	.	PASS	. intrc NON dis .	
ACaP01		1	16778593	rs5750552	C	T	.	PASS	NECAP1 intrc NM_ . .
ACaP01		1	16899877	rs4101081	C	T	.	PASS	NBPF1 intrc NM_ . .
ACaP01		1	16914515	rs7629862	A	C	.	PASS	NBPF1 intrc NM_ . .
ACaP01		1	16960070	.	T	C	.	PASS	. intrc NR_ dis .
ACaP01		1	21324110	.	C	A	.	PASS	EIF4G3 exo NM_ missens
ACaP01		1	1.43E+08	rs3772379	G	C	.	PASS	. intrc NR_ dis .
ACaP01		1	1.43E+08	rs3720400	G	T	.	PASS	. intrc NR_ dis .
ACaP01		1	1.45E+08	rs6181337	T	C	.	PASS	NBPF2 ncR NR_ . .
ACaP01		1	2.48E+08	.	G	T	.	PASS	. ups NM_ . .
ACaP01		2	85596991	.	G	T	.	PASS	ELMOD intrc NM_ . .
ACaP01		2	91692533	rs1649505	G	C	.	PASS	. intrc NON dis .
ACaP01		3	97311535	rs7933313	G	A	.	PASS	EPHA6 exo NM_ synonymr
ACaP01		3	1.3E+08	rs7480655	C	T	.	PASS	COL6A6 exo NM_ synonymr
ACaP01		3	1.33E+08	.	C	A	.	PASS	TOPBP1 exo NM_ missens
ACaP01		4	9232841	.	C	T	.	PASS	. intrc NM_ dis .
ACaP01		5	734072	rs671688	A	G	.	PASS	. intrc NM_ dis .
ACaP01		5	34179550	rs8681576	G	T	.	PASS	. intrc NR_ dis .
ACaP01		5	1.78E+08	.	T	C	.	PASS	CLK4 exo NM_ synonymr



ACaP01	6	1.49E+08	.	A	G	.	PASS	SASH1	intrc	NM_	.	.
ACaP01	7	38503768	.	T	C	.	PASS	AMPH	intrc	NM_	.	.
ACaP01	7	44060096	.	C	T	.	PASS	.	inte	NR_	dis	.
ACaP01	7	1.16E+08	.	C	T	.	PASS	TFEC	splic	NM_	NM	.
ACaP01	7	1.5E+08	rs1471823	G	A	.	PASS	GIMAP5	exo	NM_	.	missens
ACaP01	8	21840110	rs7496607	G	A	.	PASS	XPO7	intrc	NM_	.	.
ACaP01	8	22168690	.	C	T	.	PASS	PIWIL2	exo	NM_	.	synonyr
ACaP01	9	69449944	rs1482733	G	T	.	PASS	.	inte	NM_	dis	.
ACaP01	9	1.31E+08	.	G	T	.	PASS	WDR34	intrc	NM_	.	.
ACaP01	10	47207813	rs2020143	T	C	.	PASS	AGAP9	exo	NM_	.	missens
ACaP01	10	1E+08	.	A	C	.	PASS	HPSE2	exo	NM_	.	missens
ACaP01	11	46797908	rs7731324	G	A	.	PASS	CKAP5	exo	NM_	.	missens
ACaP01	11	57157532	.	A	T	.	PASS	PRG2	intrc	NM_	.	.
ACaP01	12	49433687	rs7734351	G	A	.	PASS	KMT2D	exo	NM_	.	synonyr
ACaP01	12	52642506	rs7769669	C	T	.	PASS	KRT7	exo	NM_	.	missens
ACaP01	14	1.06E+08	.	G	A	.	PASS	JAG2	exo	NM_	.	synonyr
ACaP01	14	1.06E+08	rs7157981	C	T	.	PASS	.	inte	NR_	dis	.
ACaP01	15	20740075	rs2019940	T	G	.	PASS	GOLGA	exo	NM_	.	missens
ACaP01	15	20740088	rs3731461	A	G	.	PASS	GOLGA	exo	NM_	.	synonyr
ACaP01	15	25416142	.	C	A	.	PASS	.	dow	NR_	.	.
ACaP01	15	30771144	.	A	G	.	PASS	.	inte	NM_	dis	.
ACaP01	15	69706957	.	C	A	.	PASS	KIF23	intrc	NM_	.	.
ACaP01	16	27457419	.	C	T	.	PASS	IL21R	intrc	NM_	.	.
ACaP01	17	5328662	rs7781206	T	C	.	PASS	RPAIN	intrc	NM_	.	.
ACaP01	17	36333536	rs3725436	A	C	.	PASS	.	inte	NM_	dis	.
ACaP01	19	33490585	rs7861545	G	A	.	PASS	RHPN2	exo	NM_	.	stopgair
ACaP01	19	40411685	.	C	T	.	PASS	FCGBP	exo	NM_	.	missens
ACaP01	19	41763678	.	C	G	.	PASS	AXL	intrc	NM_	.	.
ACaP01	20	35152507	.	A	T	.	PASS	RP5-97	ncR	NR_	.	.
ACaP01	21	11114515	rs9266067	A	G	.	PASS	.	inte	NM_	dis	.
ACaP01	X	32380995	rs7663121	G	A	.	PASS	DMD	exo	NM_	.	synonyr
ACaP01	X	70636506	rs3397828	A	G	.	PASS	BCYRN	ncR	NR_	.	.
ACaP02	1	16265634	.	G	A	.	PASS	SPEN	intrc	NM_	.	.
ACaP02	1	16931257	rs436293	C	T	.	PASS	NBPF1	intrc	NM_	.	.
ACaP02	1	32128301	.	G	T	.	PASS	COL16A1	intrc	NM_	.	.
ACaP02	1	32670897	.	G	C	.	PASS	CCDC2	UTF	NM_	NM	.
ACaP02	1	1.01E+08	rs3721234	C	T	.	PASS	SASS6	intrc	NM_	.	.
ACaP02	1	1.09E+08	.	G	A	.	PASS	FNDC7	intrc	NM_	.	.
ACaP02	1	1.45E+08	rs2007574	G	C	.	PASS	NBPF2	intrc	NM_	.	.
ACaP02	1	1.45E+08	rs9424724	G	C	.	PASS	NBPF2	ncR	NR_	.	.
ACaP02	1	1.52E+08	.	T	G	.	PASS	.	inte	NM_	dis	.
ACaP02	1	1.56E+08	.	G	A	.	PASS	TMEM7	exo	NM_	.	synonyr
ACaP02	1	1.56E+08	.	G	C	.	PASS	C1orf85	exo	NM_	.	missens
ACaP02	1	1.59E+08	.	C	G	.	PASS	SPTA1	intrc	NM_	.	.
ACaP02	1	1.59E+08	.	G	C	.	PASS	DARC	UTF	NM_	NM	.
ACaP02	1	1.6E+08	.	C	T	.	PASS	DCAF8	exo	NM_	.	missens
ACaP02	1	1.62E+08	.	G	C	.	PASS	FCRLB	intrc	NM_	.	.
ACaP02	1	1.83E+08	.	C	T	.	PASS	SHCBP	exo	NM_	.	missens
ACaP02	1	1.97E+08	rs9662955	G	A	.	PASS	CFHR5	intrc	NM_	.	.
ACaP02	1	2.28E+08	rs7570105	G	A	.	PASS	WNT3A	exo	NM_	.	missens
ACaP02	1	2.33E+08	.	C	G	.	PASS	KIAA181	exo	NM_	.	synonyr
ACaP02	1	2.37E+08	.	G	A	.	PASS	MTR	intrc	NM_	.	.
ACaP02	1	2.41E+08	.	C	T	.	PASS	FMN2	UTF	NM_	NM	.
ACaP02	2	38925391	.	C	T	.	PASS	GALM	intrc	NM_	.	.

ACaP02	2	44053534	rs1420196	G	A	.	PASS	ABCG5	exon	NM_	missens
ACaP02	2	1.5E+08	.	T	C	.	PASS	LYPD6E	intrc	NM_	.
ACaP02	2	1.6E+08	.	C	T	.	PASS	TANC1	exon	NM_	missens
ACaP02	2	1.97E+08	.	C	G	.	PASS	SLC39A	exon	NM_	missens
ACaP02	2	1.98E+08	rs1857895	C	T	.	PASS	HSPD1	intrc	NM_	.
ACaP02	2	2.08E+08	.	G	C	.	PASS	KLF7	intrc	NM_	.
ACaP02	2	2.25E+08	.	G	T	.	PASS	WDFY1	intrc	NM_	.
ACaP02	2	2.35E+08	.	G	C	.	PASS	MROH2	exon	NM_	missens
ACaP02	2	2.42E+08	rs7784676	G	A	.	PASS	STK25	exon	NM_	missens
ACaP02	3	33434142	.	G	C	.	PASS	UBP1	intrc	NM_	.
ACaP02	3	97652428	.	A	G	.	PASS	CRYBG	intrc	NM_	.
ACaP02	3	1.34E+08	.	G	T	.	PASS	CEP63	exon	NM_	missens
ACaP02	3	1.34E+08	.	G	A	.	PASS	CEP63	exon	NM_	missens
ACaP02	3	1.38E+08	.	G	C	.	PASS	ARMC8	intrc	NM_	.
ACaP02	3	1.68E+08	rs7462149	G	A	.	PASS	GOLIM2	exon	NM_	stopgain
ACaP02	3	1.72E+08	.	G	C	.	PASS	TNFSF1	UTF	NM_NM	.
ACaP02	3	1.79E+08	rs1048860	G	A	.	PASS	PIK3CA	exon	NM_	missens
ACaP02	3	1.84E+08	.	A	C	.	PASS	YEATS2	exon	NM_	missens
ACaP02	4	944346	.	C	T	.	PASS	TMEM1	intrc	NM_	.
ACaP02	4	95173994	.	G	A	.	PASS	SMARC	exon	NM_	missens
ACaP02	4	1.09E+08	.	C	T	.	PASS	CYP2U	intrc	NM_	.
ACaP02	4	1.4E+08	.	C	T	.	PASS	NAA15	exon	NM_	missens
ACaP02	4	1.43E+08	.	C	G	.	PASS	INPP4B	exon	NM_	missens
ACaP02	4	1.72E+08	.	C	T	.	PASS	.	dow	NR_	.
ACaP02	5	33969172	rs1876921	G	C	.	PASS	SLC45A	intrc	NM_	.
ACaP02	5	63665546	.	G	C	.	PASS	RNF18C	exon	NM_	missens
ACaP02	5	76029074	.	C	T	.	PASS	F2R	exon	NM_	missens
ACaP02	5	1.34E+08	rs7956159	C	T	.	PASS	SEC24L	exon	NM_	missens
ACaP02	5	1.57E+08	.	C	G	.	PASS	FAM71E	exon	NM_	missens
ACaP02	5	1.63E+08	.	G	A	.	PASS	HMMR	exon	NM_	synonym
ACaP02	5	1.7E+08	.	G	A	.	PASS	KCNIP1	exon	NM_	missens
ACaP02	6	2692903	.	C	A	.	PASS	MYLK4	intrc	NM_	.
ACaP02	6	10894173	.	A	G	.	PASS	SYCP2L	exon	NM_	missens
ACaP02	6	26501806	.	G	A	.	PASS	BTN1A1	intrc	NM_	.
ACaP02	6	29911685	rs1787910	C	T	.	PASS	HLA-A	intrc	NM_	.
ACaP02	6	30231416	rs5364899	A	G	.	PASS	HLA-L	ncR	NR_	.
ACaP02	6	64694337	.	C	G	.	PASS	EYS	exon	NM_	missens
ACaP02	6	65301337	.	C	T	.	PASS	EYS	exon	NM_	missens
ACaP02	6	1.49E+08	.	C	T	.	PASS	.	inte	NM_dis	.
ACaP02	6	1.68E+08	.	C	G	.	PASS	KIF25	intrc	NM_	.
ACaP02	7	5347198	.	G	C	.	PASS	TNRC18	UTF	NM_NM	.
ACaP02	7	63210111	.	C	A	.	PASS	.	inte	NR_dis	.
ACaP02	7	88956826	.	C	A	.	PASS	ZNF804	intrc	NM_	.
ACaP02	7	1.31E+08	.	C	T	.	PASS	.	dow	NR_	.
ACaP02	7	1.38E+08	rs3685111	G	C	.	PASS	CREB3L	intrc	NM_	.
ACaP02	8	29120432	.	G	A	.	PASS	KIF13B	intrc	NM_	.
ACaP02	8	69009261	.	A	T	.	PASS	PREX2	exon	NM_	missens
ACaP02	8	1.22E+08	.	G	A	.	PASS	SNTB1	UTF	NM_NM	.
ACaP02	8	1.45E+08	.	C	T	.	PASS	NAPRT	exon	NM_	missens
ACaP02	8	1.45E+08	rs3743103	C	T	.	PASS	PLEC	exon	NM_	missens
ACaP02	9	68415292	rs4928838	C	T	.	PASS	.	inte	NM_dis	.
ACaP02	9	89876064	.	G	A	.	PASS	.	inte	NM_dis	.
ACaP02	9	96398757	.	G	A	.	PASS	PHF2	exon	NM_	synonym
ACaP02	9	1.17E+08	.	C	T	.	PASS	AKNA	intrc	NM_	.

ACaP02	9	1.36E+08	.	T	A	.	PASS	DDX31	intrc	NM_	.	.
ACaP02	10	323462	.	C	T	.	PASS	DIP2C	exo	NM_	.	missens
ACaP02	10	3150111	.	G	A	.	PASS	PFKP	intrc	NM_	.	.
ACaP02	10	88988731	rs3128226	C	G	.	PASS	NUTM2	intrc	NM_	.	.
ACaP02	10	1.35E+08	.	G	C	.	PASS	KNDC1	intrc	NM_	.	.
ACaP02	11	4744416	.	C	T	.	PASS	.	inte	NM_dis	.	.
ACaP02	11	19864378	.	C	G	.	PASS	NAV2	intrc	NM_	.	.
ACaP02	11	45948953	.	C	T	.	PASS	GYLTL1	exo	NM_	.	synonyr
ACaP02	11	61735932	.	G	A	.	PASS	.	ups	NM_	.	.
ACaP02	11	78399235	.	G	A	.	PASS	TENM4	exo	NM_	.	synonyr
ACaP02	11	1.17E+08	.	G	A	.	PASS	SIK3	intrc	NM_	.	.
ACaP02	11	1.23E+08	.	G	A	.	PASS	.	ups	NM_	.	.
ACaP02	12	68657	rs5382343	T	C	.	PASS	.	inte	NON_dis	.	.
ACaP02	12	14650790	.	A	G	.	PASS	ATF7IP	exo	NM_	.	missens
ACaP02	12	27641424	.	C	G	.	PASS	SMCO2	exo	NM_	.	missens
ACaP02	12	64838770	rs8658204	T	A	.	PASS	XPOT	intrc	NM_	.	.
ACaP02	12	80840657	.	C	T	.	PASS	PTPRQ	intrc	NM_	.	.
ACaP02	12	1.13E+08	.	G	A	.	PASS	NAA25	exo	NM_	.	synonyr
ACaP02	12	1.18E+08	rs7707492	G	A	.	PASS	NOS1	exo	NM_	.	missens
ACaP02	13	30353182	.	T	A	.	PASS	UBL3	intrc	NM_	.	.
ACaP02	13	32811934	rs3702294	G	A	.	PASS	FRY	exo	NM_	.	missens
ACaP02	13	39263609	rs4129275	C	T	.	PASS	FREM2	exo	NM_	.	missens
ACaP02	13	39264019	.	C	G	.	PASS	FREM2	exo	NM_	.	missens
ACaP02	13	61987109	.	C	T	.	PASS	PCDH2	(exo	NM_	.	missens
ACaP02	13	78337257	.	C	G	.	PASS	SLAIN1	intrc	NM_	.	.
ACaP02	13	78337320	.	C	G	.	PASS	SLAIN1	exo	NM_	.	missens
ACaP02	13	1.03E+08	.	G	A	.	PASS	CCDC1	(exo	NM_	.	missens
ACaP02	14	22265543	rs3699116	C	T	.	PASS	.	inte	NM_dis	.	.
ACaP02	14	36240320	rs7660001	C	T	.	PASS	RALGAI	ncR	NR_	.	.
ACaP02	14	93762356	.	C	T	.	PASS	BTBD7	exo	NM_	.	synonyr
ACaP02	14	95677219	.	G	A	.	PASS	CLMN	splic	NM_NV	.	.
ACaP02	14	1.05E+08	rs1214345	C	T	.	PASS	AKT1	exo	NM_	.	missens
ACaP02	14	1.07E+08	.	G	A	.	PASS	.	inte	NR_dis	.	.
ACaP02	15	20644362	rs4932010	G	A	.	PASS	HERC2	ncR	NR_	.	.
ACaP02	15	21036908	rs7494426	C	G	.	PASS	.	inte	NR_dis	.	.
ACaP02	15	22016259	rs1079463	T	C	.	PASS	CXADR	ncR	NR_	.	.
ACaP02	15	22058425	rs1823548	G	C	.	PASS	LOC33	intrc	NM_	.	.
ACaP02	15	25313171	.	G	A	.	PASS	.	dow	NR_	.	.
ACaP02	15	40681418	rs1861770	C	T	.	PASS	KNSTR	intrc	NM_	.	.
ACaP02	15	44962225	rs9953164	G	A	.	PASS	PATL2	exo	NM_	.	missens
ACaP02	15	45839258	.	G	C	.	PASS	HMG	ncR	NR_	.	.
ACaP02	15	72461122	.	G	A	.	PASS	GRAM	intrc	NM_	.	.
ACaP02	15	78501642	.	G	A	.	PASS	ACSBG	intrc	NM_	.	.
ACaP02	15	81410105	.	C	T	.	PASS	.	inte	NM_dis	.	.
ACaP02	16	3081097	.	C	T	.	PASS	CCDC6	exo	NM_	.	missens
ACaP02	16	32214205	.	G	A	.	PASS	.	inte	NR_dis	.	.
ACaP02	16	56485604	rs7759203	C	T	.	PASS	OGFOD	exo	NM_	.	missens
ACaP02	16	70802734	.	C	T	.	PASS	VAC14-	ncR	NR_	.	.
ACaP02	17	4803555	.	G	C	.	PASS	C17orf1	exo	NM_	.	missens
ACaP02	17	36486118	rs7810711	C	T	.	PASS	GPR17	exo	NM_	.	missens
ACaP02	17	42828228	rs1509595	G	A	.	PASS	DBF4B	exo	NM_	.	synonyr
ACaP02	17	46691740	.	G	A	.	PASS	HOXB8	exo	NM_	.	synonyr
ACaP02	17	76166892	rs3742496	C	T	.	PASS	SYNGR	intrc	NM_	.	.
ACaP02	17	78356929	rs5611679	C	T	.	PASS	LOC10	ncR	NR_	.	.

ACaP02	17	79917411	rs5502840	G	A	.	PASS	NOTUM	exon	NM_	synonym
ACaP02	18	14186389	rs1996954	C	T	.	PASS	ANKRD	ncR	NR_	.
ACaP02	18	56149006	.	G	C	.	PASS	ALPK2	UTF	NM_NM_	.
ACaP02	19	9376928	.	C	G	.	PASS	.	inte	NM_dis	.
ACaP02	19	18426987	.	G	A	.	PASS	LSM4	intrc	NM_	.
ACaP02	19	19389565	.	G	T	.	PASS	SUGP1	exon	NM_	missens
ACaP02	19	19906197	.	C	T	.	PASS	ZNF506	exon	NM_	missens
ACaP02	19	36135341	.	C	T	.	PASS	ETV2	intrc	NM_	.
ACaP02	19	37441599	.	C	G	.	PASS	ZNF568	exon	NM_	stopgair
ACaP02	19	40724034	.	G	A	.	PASS	TTC9B	exon	NM_	synonym
ACaP02	19	43576796	.	G	C	.	PASS	PSG2	intrc	NM_	.
ACaP02	19	55556685	.	C	G	.	PASS	RDH13	intrc	NM_	.
ACaP02	20	1162284	.	G	C	.	PASS	TMEM7	intrc	NM_	.
ACaP02	20	2411210	.	G	A	.	PASS	TGM6	exon	NM_	synonym
ACaP02	20	5170828	rs1438597	G	A	.	PASS	CDS2	exon	NM_	missens
ACaP02	20	30534404	.	G	C	.	PASS	PDRG1	intrc	NM_	.
ACaP02	20	36759941	.	T	C	.	PASS	TGM2	intrc	NM_	.
ACaP02	21	11026667	rs1170118	T	C	.	PASS	BAGE4,	intrc	NM_	.
ACaP02	21	17214771	.	C	G	.	PASS	USP25	exon	NM_	stopgair
ACaP02	22	19959033	.	G	C	.	PASS	ARVCF	intrc	NM_	.
ACaP02	22	31090253	.	C	T	.	PASS	OSBP2	exon	NM_	missens
ACaP02	22	38271958	.	C	A	.	PASS	EIF3L	exon	NM_	synonym
ACaP02	X	3021841	rs7509188	G	A	.	PASS	ARSF	exon	NM_	missens
ACaP02	X	25031637	.	G	A	.	PASS	ARX	exon	NM_	missens
ACaP02	X	46299761	.	T	A	.	PASS	.	inte	NR_dis	.
ACaP02	X	69573529	.	G	A	.	PASS	KIF4A	exon	NM_	missens
ACaP02	X	1.19E+08	.	G	C	.	PASS	NKAP	exon	NM_	missens
ACaP02	X	1.39E+08	.	T	A	.	PASS	SRD5A'	ncR	NR_	.
ACaP02	X	1.39E+08	.	T	A	.	PASS	SRD5A'	ncR	NR_	.
ACaP02	X	1.51E+08	.	G	C	.	PASS	GABRA	intrc	NM_	.
ACaP02	X	1.53E+08	.	C	T	.	PASS	IRAK1	UTF	NM_NM_	.
ACaP02	MT	13324	.	T	C	.	PASS	.	inte	NON	dis
ACaP03	1	1666303	rs1149286	T	C	.	PASS	SLC35E	intrc	NM_	.
ACaP03	1	25784928	.	C	A	.	PASS	TMEM5	exon	NM_	missens
ACaP03	1	74835045	.	C	T	.	PASS	FPGT-T	intrc	NM_	.
ACaP03	1	86482866	.	G	A	.	PASS	COL24A	exon	NM_	missens
ACaP03	1	1.21E+08	rs1998147	T	C	.	PASS	FCGR1I	UTF	NM_NM_	.
ACaP03	1	1.43E+08	rs8662584	G	T	.	PASS	.	inte	NR_dis	.
ACaP03	2	54850869	.	T	A	.	PASS	SPTBN'	intrc	NM_	.
ACaP03	2	67630477	.	G	A	.	PASS	ETAA1	exon	NM_	missens
ACaP03	2	85133304	.	C	G	.	PASS	TMSB1C	intrc	NM_	.
ACaP03	2	1.22E+08	rs3708851	C	T	.	PASS	GLI2	exon	NM_	synonym
ACaP03	2	1.36E+08	rs2008806	T	A	.	PASS	R3HDM	intrc	NM_	.
ACaP03	2	1.69E+08	rs9042902	C	T	.	PASS	STK39	intrc	NM_	.
ACaP03	2	2.18E+08	rs3702772	C	T	.	PASS	IGFBP5	intrc	NM_	.
ACaP03	2	2.35E+08	rs5574456	G	A	.	PASS	TRPM8	intrc	NM_	.
ACaP03	3	23499994	rs1446637	C	T	.	PASS	MIR548	ncR	NR_	.
ACaP03	3	37018036	.	G	T	.	PASS	.	inte	NM_dis	.
ACaP03	3	1.14E+08	.	C	T	.	PASS	GRAMC	exon	NM_	synonym
ACaP03	3	1.14E+08	rs2015548	C	T	.	PASS	DRD3	exon	NM_	missens
ACaP03	4	13475825	rs1163261	C	T	.	PASS	RAB28	intrc	NM_	.
ACaP03	4	49165624	rs4695484	C	G	.	PASS	.	inte	NM_dis	.
ACaP03	4	49165647	rs4695485	G	T	.	PASS	.	inte	NM_dis	.
ACaP03	4	71255517	rs7496227	C	T	.	PASS	SMR3B	exon	NM_	synonym

ACaP03	4	1.86E+08	rs7758415	G	A	.	PASS	PDLIM3	exon	NM_	missens
ACaP03	5	1.4E+08	.	C	T	.	PASS	PCDHA	exon	NM_	synonyr
ACaP03	6	31850912	rs1161907	C	T	.	PASS	EHMT2	intrc	NM_	.
ACaP03	6	76423203	.	G	T	.	PASS	SENP6	intrc	NM_	.
ACaP03	6	80778603	.	T	A	.	PASS	.	inte	NM_dis	.
ACaP03	6	1.11E+08	rs7577542	C	T	.	PASS	CDK19	UTF	NM_NM	.
ACaP03	7	5112643	.	G	A	.	PASS	RBAKD1	ncR	NR_	.
ACaP03	7	87145947	.	C	A	.	PASS	ABCB1	exon	NM_	missens
ACaP03	7	1.02E+08	.	T	C	.	PASS	FAM18E	intrc	NM_	.
ACaP03	8	17849058	rs7722351	C	T	.	PASS	PCM1	exon	NM_	synonyr
ACaP03	8	1.42E+08	.	G	T	.	PASS	PTK2	intrc	NM_	.
ACaP03	9	1.4E+08	rs7507213	G	A	.	PASS	TRAF2	exon	NM_	missens
ACaP03	10	10989346	.	T	A	.	PASS	LINC007	ncR	NR_	.
ACaP03	10	15649742	rs7571508	G	A	.	PASS	ITGA8	exon	NM_	synonyr
ACaP03	10	38896297	rs5655237	C	T	.	PASS	.	inte	NR_dis	.
ACaP03	10	74452957	rs7905448	T	A	.	PASS	MCU	intrc	NM_	.
ACaP03	10	91597898	.	G	A	.	PASS	LINC008	ncR	NR_	.
ACaP03	10	1.04E+08	rs9706750	C	T	.	PASS	LOC100	ncR	NR_	.
ACaP03	10	1.04E+08	rs7723659	A	G	.	PASS	SFXN2	intrc	NM_	.
ACaP03	10	1.05E+08	.	G	A	.	PASS	INA	exon	NM_	synonyr
ACaP03	10	1.23E+08	rs1219134	A	G	.	PASS	FGFR2	exon	NM_	missens
ACaP03	11	688411	.	G	A	.	PASS	DEAF1	exon	NM_	missens
ACaP03	11	17517143	rs5453728	G	A	.	PASS	USH1C	exon	NM_	synonyr
ACaP03	11	17565822	.	A	G	.	PASS	USH1C	exon	NM_	synonyr
ACaP03	11	1.2E+08	.	T	C	.	PASS	ARHGE	intrc	NM_	.
ACaP03	12	1.13E+08	rs1030864	T	C	.	PASS	OAS1	exon	NM_	missens
ACaP03	13	49027224	.	G	A	.	PASS	RB1	exon	NM_	synonyr
ACaP03	13	78236783	rs9145408	C	T	.	PASS	.	inte	NM_dis	.
ACaP03	13	79233446	rs9816818	A	G	.	PASS	.	ups	NM_	.
ACaP03	14	23066954	.	G	T	.	PASS	.	ups	NM_	.
ACaP03	14	33525230	.	C	A	.	PASS	NPAS3	intrc	NM_	.
ACaP03	14	45571879	rs5634662	G	A	.	PASS	PRPF3E	exon	NM_	synonyr
ACaP03	14	53130502	.	G	A	.	PASS	ERO1L	intrc	NM_	.
ACaP03	14	89151457	.	G	A	.	PASS	EML5	exon	NM_	missens
ACaP03	14	1E+08	.	C	A	.	PASS	HHIPL1	exon	NM_	missens
ACaP03	15	20481082	.	G	T	.	PASS	.	inte	NON_dis	.
ACaP03	15	23388408	rs7780894	G	A	.	PASS	.	inte	NR_dis	.
ACaP03	15	42042562	.	T	C	.	PASS	MGA	exon	NM_	missens
ACaP03	15	43075621	.	C	A	.	PASS	TTBK2	exon	NM_	missens
ACaP03	16	67304885	.	C	T	.	PASS	SLC9A5	exon	NM_	synonyr
ACaP03	17	8638951	.	A	T	.	PASS	CCDC4	intrc	NM_	.
ACaP03	17	21905146	rs5864828	G	C	.	PASS	FLJ360	ncR	NR_	.
ACaP03	17	46874382	rs7798230	G	A	.	PASS	TTLL6	intrc	NM_	.
ACaP03	18	5395522	.	C	A	.	PASS	EPB41L	intrc	NM_	.
ACaP03	19	13418632	rs7477304	G	A	.	PASS	CACNA	exon	NM_	synonyr
ACaP03	19	14952045	.	C	A	.	PASS	OR7A1	exon	NM_	synonyr
ACaP03	19	35226977	rs9472013	T	C	.	PASS	ZNF181	intrc	NM_	.
ACaP03	19	36368719	.	C	T	.	PASS	APLP1	exon	NM_	missens
ACaP03	19	44272930	.	C	A	.	PASS	KCNN4	intrc	NM_	.
ACaP03	19	51525990	rs3718581	C	T	.	PASS	KLK11	intrc	NM_	.
ACaP03	19	53802903	rs1056285	C	T	.	PASS	.	inte	NM_dis	.
ACaP03	20	2552806	rs5584781	T	A	.	PASS	TMC2	intrc	NM_	.
ACaP03	20	25900162	rs6037279	C	A	.	PASS	.	inte	NR_dis	.
ACaP03	20	34061552	.	G	C	.	PASS	CEP25C	intrc	NM_	.

ACaP03	20	44657935	.	G	A	.	PASS	SLC12A	UTF NM_ NV.
ACaP03	21	10920253	rs2013315	C	T	.	PASS	TPTE	intrc NM_ .
ACaP03	21	10920295	rs2001788	G	A	.	PASS	TPTE	intrc NM_ .
ACaP03	22	46655190	.	G	A	.	PASS	PKDRE	exo  NM_ missens
ACaP03	X	1.53E+08	.	G	T	.	PASS	IRAK1	exo  NM_ stopgair
ACaP03	MT	8177	.	G	A	.	PASS	.	inte  NO  dis .
ACaP03	MT	15761	.	G	A	.	PASS	.	inte  NO  dis .
ACaP04	1	237272	rs6263527	T	A	.	PASS	.	inte  NR_ dis .
ACaP04	1	53540057	.	C	A	.	PASS	PODN	intrc NM_ .
ACaP04	1	1.43E+08	rs7457471	C	G	.	PASS	.	inte  NR_ dis .
ACaP04	1	1.67E+08	.	T	C	.	PASS	POU2F	intrc NM_ .
ACaP04	1	2.36E+08	.	C	A	.	PASS	NID1	intrc NM_ .
ACaP04	2	87580821	.	G	C	.	PASS	.	inte  NR_ dis .
ACaP04	2	90465003	rs3711404	G	A	.	PASS	.	inte  NR_ dis .
ACaP04	2	1.82E+08	.	A	T	.	PASS	ITGA4	intrc NM_ .
ACaP04	3	1.96E+08	rs7758373	T	C	.	PASS	SDHAP	ncR NR_ .
ACaP04	4	2251695	.	T	A	.	PASS	MXD4	UTF NM_ NV.
ACaP04	4	49211467	rs4694947	T	G	.	PASS	.	inte  NM_ dis .
ACaP04	9	73191428	.	T	C	.	PASS	TRPM3	intrc NM_ .
ACaP04	10	38939588	rs4070334	G	A	.	PASS	.	inte  NR_ dis .
ACaP04	12	76854256	rs9213947	C	A	.	PASS	OSBPL	intrc NM_ .
ACaP04	14	50623669	rs1125033	G	A	.	PASS	SOS2	intrc NM_ .
ACaP04	14	75474251	.	A	C	.	PASS	EIF2B2	intrc NM_ .
ACaP04	15	20739825	rs2859043	G	A	.	PASS	GOLGA	exo  NM_ missens
ACaP04	15	23097357	.	G	T	.	PASS	LOC28	ncR NR_ .
ACaP04	18	31463134	.	G	A	.	PASS	NOL4	intrc NM_ .
ACaP05	1	1.43E+08	.	A	C	.	PASS	.	inte  NR_ dis .
ACaP05	1	1.49E+08	rs2787778	G	T	.	PASS	.	inte  NR_ dis .
ACaP05	1	1.49E+08	rs2787777	C	T	.	PASS	.	inte  NR_ dis .
ACaP05	2	90465003	rs3711404	G	A	.	PASS	.	inte  NR_ dis .
ACaP05	5	21751735	rs1997973	G	T	.	PASS	CDH12	UTF NM_ NV.
ACaP05	7	62956286	rs2018986	T	C	.	PASS	.	inte  NR_ dis .
ACaP05	7	63219077	.	G	T	.	PASS	.	inte  NR_ dis .
ACaP05	7	1.02E+08	rs1390499	G	C	.	PASS	POLR2	exo  NM_ missens
ACaP05	8	7386635	rs2077351	A	C	.	PASS	.	inte  NM_ dis .
ACaP05	9	66500662	rs1136487	C	A	.	PASS	PTGER	ncR NR_ .
ACaP05	9	69083093	rs7648362	A	G	.	PASS	PGM5P	ncR NR_ .
ACaP05	9	74979191	.	G	C	.	PASS	ZFAND	intrc NM_ .
ACaP05	10	51853633	rs1995206	C	T	.	PASS	FAM21	exo  NM_ missens
ACaP05	11	135046	rs3713518	C	G	.	PASS	.	inte  NR_ dis .
ACaP05	11	45927418	rs8790394	A	T	.	PASS	MAPK8I	UTF NM_ NV.
ACaP05	17	21906860	rs1155611	C	A	.	PASS	FLJ360	ncR NR_ .
ACaP05	18	11610531	rs2018600	G	A	.	PASS	SLC35C	exo  NM_ missens
ACaP05	21	10139726	.	G	A	.	PASS	.	inte  NR_ dis .
ACaP05	21	10139851	rs8792017	A	G	.	PASS	.	inte  NR_ dis .
ACaP05	21	11097497	rs1043983	A	T	.	PASS	BAGE2	intrc NM_ .
ACaP05	X	1.39E+08	rs1444677	G	C	.	PASS	.	inte  NM_ dis .
ACaP06	1	803964	.	G	A	.	PASS	FAM41	ncR NR_ .
ACaP06	1	5924273	.	A	G	.	PASS	NPHP4	intrc NM_ .
ACaP06	1	5993482	.	C	A	.	PASS	NPHP4	intrc NM_ .
ACaP06	1	9662320	.	C	T	.	PASS	TMEM2	exo  NM_ missens
ACaP06	1	12888733	.	C	T	.	PASS	PRAME	intrc NM_ .
ACaP06	1	12888735	.	G	T	.	PASS	PRAME	intrc NM_ .
ACaP06	1	1E+08	.	T	G	.	PASS	PALMD	UTF NM_ NV.

ACaP06	1	1.43E+08	rs3894786	T	C	.	PASS	.	inte NR_dis.
ACaP06	1	1.43E+08	rs1112760	G	A	.	PASS	.	inte NR_dis.
ACaP06	1	1.44E+08	rs2017985	G	A	.	PASS	NBPF2C intrc NM_.	.
ACaP06	1	1.45E+08	rs3713084	T	C	.	PASS	NBPF2C intrc NM_.	.
ACaP06	1	1.45E+08	rs8799710	G	C	.	PASS	NBPF8, intrc NM_.	.
ACaP06	1	1.46E+08	rs6699421	A	G	.	PASS	NBPF2f ncR NR_.	.
ACaP06	1	1.49E+08	rs8799669	C	A	.	PASS	NBPF2f ncR NR_.	.
ACaP06	1	1.5E+08	.	C	G	.	PASS	OTUD7 exo NM_.	missens
ACaP06	1	1.54E+08	.	C	G	.	PASS	C1orf18 intrc NM_.	.
ACaP06	1	1.56E+08	rs4833528	C	T	.	PASS	RIT1 exo NM_.	missens
ACaP06	1	1.75E+08	rs8940723	G	A	.	PASS	RABGA intrc NM_.	.
ACaP06	1	1.82E+08	rs7731705	C	T	.	PASS	CACNA intrc NM_.	.
ACaP06	2	88272597	.	G	C	.	PASS	RGPD1 intrc NM_.	.
ACaP06	2	89185488	rs7781962	G	T	.	PASS	.	inte NR_dis.
ACaP06	2	99861764	rs2018517	G	A	.	PASS	LYG2 exo NM_.	synonyr
ACaP06	2	1.03E+08	.	A	C	.	PASS	SLC9A2 exo NM_.	missens
ACaP06	2	1.77E+08	rs7685255	G	A	.	PASS	EVX2 exo NM_.	missens
ACaP06	2	1.81E+08	rs7551300	C	T	.	PASS	CWC22 exo NM_.	missens
ACaP06	3	39453515	rs6224264	A	G	.	PASS	RPSA exo NM_.	synonyr
ACaP06	3	1.83E+08	.	C	G	.	PASS	ATP11E intrc NM_.	.
ACaP06	3	1.84E+08	.	G	A	.	PASS	ABCC5 exo NM_.	synonyr
ACaP06	3	1.84E+08	.	G	A	.	PASS	HTR3C exo NM_.	missens
ACaP06	3	1.85E+08	.	T	G	.	PASS	VPS8 intrc NM_.	.
ACaP06	4	1.09E+08	.	C	G	.	PASS	LEF1 intrc NM_.	.
ACaP06	4	1.18E+08	rs5742217	T	C	.	PASS	.	inte NM_dis.
ACaP06	4	1.78E+08	rs5549088	G	A	.	PASS	VEGFC exo NM_.	missens
ACaP06	5	34180243	.	G	A	.	PASS	.	inte NR_dis.
ACaP06	5	69206624	rs3759258	G	T	.	PASS	.	inte NR_dis.
ACaP06	5	71648514	.	C	T	.	PASS	PTCD2 exo NM_.	missens
ACaP06	5	1.31E+08	.	G	C	.	PASS	ACSL6 intrc NM_.	.
ACaP06	5	1.32E+08	.	G	A	.	PASS	LEAP2 intrc NM_.	.
ACaP06	5	1.76E+08	.	C	T	.	PASS	EIF4E1f intrc NM_.	.
ACaP06	5	1.76E+08	.	T	G	.	PASS	UNC5A intrc NM_.	.
ACaP06	6	13792301	rs7580301	C	T	.	PASS	MCUR1 intrc NM_.	.
ACaP06	6	15504951	rs7598672	G	A	.	PASS	JARID2 intrc NM_.	.
ACaP06	6	24667377	.	G	A	.	PASS	ACOT1; UTF NM_NM.	.
ACaP06	6	29797317	.	C	A	.	PASS	HLA-G exo NM_.	missens
ACaP06	6	31721280	.	G	C	.	PASS	MSH5-ξ ncR NR_.	.
ACaP06	6	33137752	.	C	T	.	PASS	COL11f intrc NM_.	.
ACaP06	6	43196698	.	C	T	.	PASS	DNPH1 intrc NM_.	.
ACaP06	6	62407056	.	A	G	.	PASS	KHDRB intrc NM_.	.
ACaP06	6	66013918	.	A	T	.	PASS	LOC441 exo NM_.	missens
ACaP06	6	1.58E+08	.	G	T	.	PASS	SYNJ2 intrc NM_.	.
ACaP06	7	1588922	.	G	A	.	PASS	TMEM1 intrc NM_.	.
ACaP06	7	62956286	rs2018986	T	C	.	PASS	.	inte NR_dis.
ACaP06	7	87594053	rs9803140	C	G	.	PASS	ADAM2; intrc NM_.	.
ACaP06	7	1.44E+08	rs1208357	G	A	.	PASS	.	inte NM_dis.
ACaP06	7	1.44E+08	rs6248378	G	A	.	PASS	.	inte NM_dis.
ACaP06	7	1.5E+08	.	G	A	.	PASS	GIMAP1 exo NM_.	missens
ACaP06	7	1.52E+08	.	G	A	.	PASS	.	inte NR_dis.
ACaP06	8	28695333	.	G	A	.	PASS	INTS9 intrc NM_.	.
ACaP06	8	43822531	rs2022368	A	G	.	PASS	.	inte NM_dis.
ACaP06	8	1.45E+08	.	T	G	.	PASS	SCRIB intrc NM_.	.
ACaP06	9	85863034	.	G	C	.	PASS	FRMD3 exo NM_.	synonyr

ACaP06	9	94518550	.	C	G	.	PASS	ROR2	intrc	NM_	.	.
ACaP06	9	98908654	.	T	C	.	PASS	.	inte	NM_dis	.	.
ACaP06	9	1.4E+08	rs7729568	G	A	.	PASS	MAN1B	exo	NM_	.	synonyr
ACaP06	10	44869797	rs5354201	C	T	.	PASS	CXCL12	intrc	NM_	.	.
ACaP06	10	1.06E+08	.	A	T	.	PASS	.	ups	NM_	.	.
ACaP06	10	1.06E+08	.	G	T	.	PASS	CCDC1	exo	NM_	.	stopgair
ACaP06	10	1.19E+08	.	C	T	.	PASS	KCNK11	exo	NM_	.	missens
ACaP06	11	802749	rs1474222	G	A	.	PASS	PIDD	exo	NM_	.	synonyr
ACaP06	11	3394898	.	G	C	.	PASS	ZNF195	UTF	NM_NM	.	.
ACaP06	11	6453188	.	G	A	.	PASS	HPX	exo	NM_	.	missens
ACaP06	11	10440314	.	G	A	.	PASS	CAND1	ncR	NR_	.	.
ACaP06	11	17409674	rs7776543	C	T	.	PASS	KCNJ11	UTF	NM_NM	.	.
ACaP06	11	44956486	rs7802181	G	A	.	PASS	TP53I11	exo	NM_	.	synonyr
ACaP06	11	58962592	.	C	G	.	PASS	DTX4	intrc	NM_	.	.
ACaP06	11	65143804	.	C	T	.	PASS	SLC25A	UTF	NM_NM	.	.
ACaP06	11	1.2E+08	rs1009016	G	A	.	PASS	TRIM29	intrc	NM_	.	.
ACaP06	11	1.26E+08	.	G	A	.	PASS	DDX25	intrc	NM_	.	.
ACaP06	12	57114257	.	G	C	.	PASS	NACA	exo	NM_	.	missens
ACaP06	12	1.13E+08	rs8683709	T	C	.	PASS	HECTD	intrc	NM_	.	.
ACaP06	12	1.22E+08	.	G	T	.	PASS	KDM2B	intrc	NM_	.	.
ACaP06	12	1.22E+08	.	G	T	.	PASS	HPD	intrc	NM_	.	.
ACaP06	13	19956998	.	G	A	.	PASS	.	inte	NR_dis	.	.
ACaP06	13	19957240	.	G	A	.	PASS	.	inte	NR_dis	.	.
ACaP06	13	25373510	rs7603455	G	A	.	PASS	RNF17	intrc	NM_	.	.
ACaP06	13	25826058	.	G	A	.	PASS	MTMR6	exo	NM_	.	missens
ACaP06	13	36167439	.	A	T	.	PASS	MIR548	ncR	NR_	.	.
ACaP06	13	39450585	.	A	T	.	PASS	FREM2	intrc	NM_	.	.
ACaP06	13	75876520	rs1847802	G	A	.	PASS	TBC1D2	exo	NM_	.	stopgair
ACaP06	14	20145911	rs8674109	G	T	.	PASS	.	inte	NM_dis	.	.
ACaP06	14	30095729	.	C	T	.	PASS	PRKD1	exo	NM_	.	missens
ACaP06	14	35183710	.	C	T	.	PASS	CFL2	UTF	NM_NM	.	.
ACaP06	14	45583374	.	C	G	.	PASS	PRPF3	intrc	NM_	.	.
ACaP06	14	57949844	rs7590859	C	T	.	PASS	C14orf1	exo	NM_	.	missens
ACaP06	14	63848931	.	G	A	.	PASS	PPP2R	intrc	NM_	.	.
ACaP06	14	70714300	rs1126070	A	G	.	PASS	ADAM2	ncR	NR_	.	.
ACaP06	14	1.04E+08	.	C	G	.	PASS	TDRD9	intrc	NM_	.	.
ACaP06	14	1.04E+08	.	C	T	.	PASS	TDRD9	intrc	NM_	.	.
ACaP06	14	1.04E+08	.	C	T	.	PASS	TDRD9	splc	NM_NM	.	.
ACaP06	15	62547818	.	C	T	.	PASS	.	inte	NM_dis	.	.
ACaP06	15	71433874	.	C	A	.	PASS	THSD4	exo	NM_	.	missens
ACaP06	16	1394469	.	G	A	.	PASS	BAIAP3	splc	NM_NM	.	.
ACaP06	16	1440797	.	G	A	.	PASS	UNKL	intrc	NM_	.	.
ACaP06	16	4787945	rs7488576	G	A	.	PASS	C16orf7	exo	NM_	.	missens
ACaP06	16	5080595	.	G	C	.	PASS	NAGPA	intrc	NM_	.	.
ACaP06	16	20432607	.	G	A	.	PASS	ACSM5	exo	NM_	.	missens
ACaP06	16	28123150	.	G	A	.	PASS	XPO6	exo	NM_	.	missens
ACaP06	16	30080816	.	C	A	.	PASS	ALDOA	splc	NM_NM	.	.
ACaP06	16	46388298	rs7501178	C	T	.	PASS	.	inte	NOI_dis	.	.
ACaP06	16	46393135	rs2128450	T	A	.	PASS	.	inte	NOI_dis	.	.
ACaP06	16	46407013	rs4436803	T	G	.	PASS	.	inte	NOI_dis	.	.
ACaP06	16	46407752	rs2887500	T	G	.	PASS	.	inte	NOI_dis	.	.
ACaP06	16	70867025	.	C	A	.	PASS	HYDIN	intrc	NM_	.	.
ACaP06	16	89789052	.	T	C	.	PASS	ZNF276	exo	NM_	.	missens
ACaP06	17	25936412	.	G	C	.	PASS	KSR1	intrc	NM_	.	.



ACaP06	17	28419118	.	C	G	.	PASS	EFCAB1	exon	NM_	missens
ACaP06	17	38065416	.	G	A	.	PASS	GSDMB	intrc	NM_	.
ACaP06	17	40125572	rs1996882	G	T	.	PASS	CNP	exon	NM_	missens
ACaP06	17	40870998	.	C	G	.	PASS	EZH1	intrc	NM_	.
ACaP06	17	42945543	rs1022498	A	T	.	PASS	EFTUD2	intrc	NM_	.
ACaP06	17	62122809	.	C	T	.	PASS	ERN1	exon	NM_	missens
ACaP06	17	65021082	rs3720728	C	T	.	PASS	CACNG	exon	NM_	synonym
ACaP06	17	80534231	.	G	A	.	PASS	FOXK2	intrc	NM_	.
ACaP06	18	10532779	.	G	A	.	PASS	NAPG	exon	NM_	missens
ACaP06	18	12254798	.	C	T	.	PASS	CIDEA	intrc	NM_	.
ACaP06	18	14999128	.	G	C	.	PASS	.	inte	NR_dis	.
ACaP06	18	51888195	rs7558958	C	T	.	PASS	C18orf5	exon	NM_	missens
ACaP06	19	38573136	rs9952243	G	A	.	PASS	SIPA1L1	exon	NM_	missens
ACaP06	19	49100155	.	C	T	.	PASS	SULT2E1	exon	NM_	missens
ACaP06	20	13201803	.	G	T	.	PASS	.	ups	NM_	.
ACaP06	20	36952898	.	T	G	.	PASS	BPI	intrc	NM_	.
ACaP06	21	10204134	rs3697472	C	A	.	PASS	.	inte	NR_dis	.
ACaP06	21	10204188	rs7969899	C	T	.	PASS	.	inte	NR_dis	.
ACaP06	21	44579674	.	C	T	.	PASS	.	inte	NM_dis	.
ACaP06	21	45479544	.	C	G	.	PASS	TRAPP1	intrc	NM_	.
ACaP06	22	16277923	rs2212142	T	G	.	PASS	POTEH	intrc	NM_	.
ACaP06	22	20194161	.	G	T	.	PASS	LINC00161	ncR	NR_	.
ACaP06	22	20715963	rs2015076	G	C	.	PASS	.	inte	NM_dis	.
ACaP06	22	37771552	rs7611606	G	A	.	PASS	ELFN2	exon	NM_	missens
ACaP06	22	38469859	.	T	A	.	PASS	PICK1	intrc	NM_	.
ACaP06	X	70636506	rs3397828	A	G	.	PASS	BCYRN1	ncR	NR_	.
ACaP06	X	88008631	.	C	T	.	PASS	CPXCR1	exon	NM_	synonym
ACaP06	MT	215	rs8792192	A	G	.	PASS	.	inte	NON_dis	.
ACaP07	1	16767275	.	G	A	.	PASS	NECAP1	exon	NM_	missens
ACaP07	1	16894795	rs1996890	T	C	.	PASS	NBPF1	intrc	NM_	.
ACaP07	1	35370332	.	C	A	.	PASS	DLGAP1	exon	NM_	missens
ACaP07	1	1.1E+08	.	A	G	.	PASS	GNAI3	exon	NM_	missens
ACaP07	1	1.43E+08	.	T	C	.	PASS	.	inte	NR_dis	.
ACaP07	1	1.43E+08	rs1694653	C	G	.	PASS	.	inte	NR_dis	.
ACaP07	1	1.45E+08	rs9441133	T	G	.	PASS	NBPF9	exon	NM_	unknow
ACaP07	1	1.45E+08	rs7819708	C	G	.	PASS	NBPF9	exon	NM_	unknow
ACaP07	1	1.48E+08	rs2022445	T	A	.	PASS	NBPF8	intrc	NM_	.
ACaP07	1	1.5E+08	.	C	T	.	PASS	.	inte	NM_dis	.
ACaP07	1	1.51E+08	.	C	T	.	PASS	ANXA9	intrc	NM_	.
ACaP07	1	1.58E+08	.	C	G	.	PASS	.	inte	NM_dis	.
ACaP07	1	1.83E+08	rs1494980	T	C	.	PASS	RNASEH1	exon	NM_	missens
ACaP07	1	1.86E+08	.	C	A	.	PASS	HMCN1	exon	NM_	missens
ACaP07	1	2.15E+08	rs7630457	C	T	.	PASS	CENPF	exon	NM_	missens
ACaP07	1	2.33E+08	rs3725088	G	T	.	PASS	KIAA181	intrc	NM_	.
ACaP07	2	42588301	.	T	C	.	PASS	COX7A1	exon	NM_	missens
ACaP07	2	91894137	rs6214568	A	G	.	PASS	.	inte	NR_dis	.
ACaP07	2	1.12E+08	.	C	G	.	PASS	ACOXL	intrc	NM_	.
ACaP07	2	1.13E+08	rs1476846	C	T	.	PASS	ANAPC	exon	NM_	missens
ACaP07	2	2.31E+08	.	C	G	.	PASS	SP140L	intrc	NM_	.
ACaP07	3	42907168	.	G	A	.	PASS	ACKR2	UTR	NM_NV	.
ACaP07	3	48692539	.	C	A	.	PASS	CELSR3	exon	NM_	missens
ACaP07	3	1.09E+08	.	G	T	.	PASS	DPPA2	intrc	NM_	.
ACaP07	3	1.13E+08	rs1428044	G	A	.	PASS	SPICE1	exon	NM_	synonym
ACaP07	3	1.55E+08	.	T	C	.	PASS	MME	intrc	NM_	.

ACaP07	4	49846	rs4970287	C	T	.	PASS	.	inte NON	dis.
ACaP07	4	1.02E+08	.	T	C	.	PASS	PPP3C	/spli	NM_NM.
ACaP07	4	1.06E+08	.	G	A	.	PASS	TET2	exo	NM_ missens
ACaP07	5	36976324	.	C	T	.	PASS	NIPBL	exo	NM_ stopgair
ACaP07	5	1.4E+08	.	C	A	.	PASS	SLC4A	intrc	NM_ .
ACaP07	7	37961124	rs9642790	C	T	.	PASS	EPDR1	intrc	NM_ .
ACaP07	7	56884371	rs6246184	G	A	.	PASS	.	inte	NR_ dis.
ACaP07	7	56887911	.	C	A	.	PASS	.	inte	NR_ dis.
ACaP07	7	1E+08	.	C	T	.	PASS	LRCH4,	exo	NM_ missens
ACaP07	7	1.22E+08	.	C	A	.	PASS	PTPRZ'	exo	NM_ missens
ACaP07	7	1.49E+08	rs8915428	C	T	.	PASS	SSPO	intrc	NM_ .
ACaP07	7	1.55E+08	.	A	T	.	PASS	PAXIP1	ncR	NR_ .
ACaP07	8	28670032	.	G	A	.	PASS	INTS9	intrc	NM_ .
ACaP07	8	37555820	.	C	G	.	PASS	ZNF703	exo	NM_ missens
ACaP07	8	67590502	.	G	A	.	PASS	C8orf44	intrc	NM_ .
ACaP07	9	5041997	.	G	A	.	PASS	JAK2	intrc	NM_ .
ACaP07	9	1.4E+08	.	G	A	.	PASS	NDOR1	intrc	NM_ .
ACaP07	10	75563305	.	C	G	.	PASS	NDST2	intrc	NM_ .
ACaP07	10	87898673	.	G	C	.	PASS	GRID1	exo	NM_ missens
ACaP07	10	1.04E+08	.	G	T	.	PASS	NOLC1	exo	NM_ synonymr
ACaP07	10	1.05E+08	.	G	C	.	PASS	PDCD1	intrc	NM_ .
ACaP07	10	1.35E+08	.	G	A	.	PASS	KNDC1	spli	NM_NM.
ACaP07	11	5686420	.	C	A	.	PASS	TRIM5	exo	NM_ missens
ACaP07	11	7981551	.	T	C	.	PASS	NLRP1	(exo	NM_ synonymr
ACaP07	11	30953503	.	C	T	.	PASS	DCDC5	spli	NM_NM.
ACaP07	11	36511665	.	C	T	.	PASS	TRAF6	exo	NM_ missens
ACaP07	11	94703114	.	T	C	.	PASS	CWC15	intrc	NM_ .
ACaP07	11	1.17E+08	rs7580622	C	T	.	PASS	DSCAM	exo	NM_ synonymr
ACaP07	12	7639196	.	A	G	.	PASS	CD163	exo	NM_ missens
ACaP07	12	49725662	.	G	A	.	PASS	.	dow	NM_ .
ACaP07	12	50498477	.	C	G	.	PASS	GPD1	exo	NM_ missens
ACaP07	12	54757465	.	C	T	.	PASS	GPR84	exo	NM_ synonymr
ACaP07	12	58014656	.	G	C	.	PASS	SLC26A	intrc	NM_ .
ACaP07	12	1.23E+08	.	C	A	.	PASS	HCAR3	exo	NM_ missens
ACaP07	13	93518634	.	C	A	.	PASS	GPC5	exo	NM_ missens
ACaP07	14	20134633	rs7149806	A	G	.	PASS	.	inte	NM_ dis.
ACaP07	14	1.04E+08	.	G	T	.	PASS	.	inte	NR_ dis.
ACaP07	15	23931763	.	T	G	.	PASS	NDN	exo	NM_ missens
ACaP07	15	30846509	rs1995696	A	G	.	PASS	.	inte	NM_ dis.
ACaP07	15	33359832	.	G	T	.	PASS	FMN1	exo	NM_ missens
ACaP07	15	57953573	.	C	G	.	PASS	GCOM1	intrc	NM_ .
ACaP07	15	72534134	.	C	A	.	PASS	PARP6	intrc	NM_ .
ACaP07	15	90346511	.	G	C	.	PASS	ANPEP	exo	NM_ missens
ACaP07	16	6069942	.	G	A	.	PASS	RBFOX	UTF	NM_NM.
ACaP07	16	75538587	.	G	T	.	PASS	.	inte	NM_ dis.
ACaP07	17	10205074	.	G	C	.	PASS	MYH13	intrc	NM_ .
ACaP07	17	58092326	.	T	C	.	PASS	TBC1D	ncR	NR_ .
ACaP07	18	14629932	rs8790150	G	A	.	PASS	.	inte	NM_ dis.
ACaP07	19	3811459	rs8673654	T	C	.	PASS	ZFR2	intrc	NM_ .
ACaP07	19	12776320	rs7668108	G	A	.	PASS	MAN2B	exo	NM_ synonymr
ACaP07	19	18707522	rs7683037	G	A	.	PASS	CRLF1	exo	NM_ missens
ACaP07	19	22362334	.	T	A	.	PASS	ZNF676	UTF	NM_NM.
ACaP07	19	37383903	.	T	G	.	PASS	ZNF829	intrc	NM_ .
ACaP07	19	39098806	.	C	T	.	PASS	MAP4K'	exo	NM_ synonymr

ACaP07	19	46320344	.	T	G	.	PASS	SYMPK intrc NM_	.	.
ACaP07	19	47996617	.	G	C	.	PASS	NAPA-A ncR NR_	.	.
ACaP07	19	49400716	.	C	G	.	PASS	TULP2 intrc NM_	.	.
ACaP07	19	49400795	.	G	A	.	PASS	TULP2 intrc NM_	.	.
ACaP07	19	51107811	.	A	G	.	PASS	.	ups  NR_	.
ACaP07	19	56244717	.	G	A	.	PASS	NLRP9 exo  NM_	synonyr	
ACaP07	20	42249604	.	G	C	.	PASS	IFT52 intrc NM_	.	.
ACaP07	20	50407956	.	A	G	.	PASS	SALL4 exo  NM_	missens	
ACaP07	21	11186426	rs1118412	G	A	.	PASS	.	inte  NM_dis	.
ACaP07	21	28315813	.	C	A	.	PASS	ADAMT exo  NM_	missens	
ACaP07	21	33746030	.	C	T	.	PASS	URB1 exo  NM_	missens	
ACaP07	22	23029846	rs2006656	T	C	.	PASS	.	inte  NM_dis	.
ACaP07	22	44496060	rs9392199	G	A	.	PASS	PARVB intrc NM_	.	.
ACaP07	X	46320101	rs734038	T	G	.	PASS	KRBOX intrc NM_	.	.
ACaP07	X	89368426	rs1826904	G	C	.	PASS	.	inte  NM_dis	.
ACaP07	X	1.29E+08	.	T	A	.	PASS	OCRL exo  NM_	missens	
ACaP07	X	1.35E+08	.	C	T	.	PASS	GPR112 exo  NM_	missens	
ACaP07	X	1.45E+08	.	C	A	.	PASS	SLITRK exo  NM_	missens	
ACaP07	X	1.54E+08	.	G	A	.	PASS	F8 exo  NM_	missens	
ACaP07	MT	13597	.	G	A	.	PASS	.	inte  NON dis	.
ACaP07	MT	15976	.	T	C	.	PASS	.	inte  NON dis	.
ACaP08	1	16984574	rs1810443	G	A	.	PASS	.	inte  NR_dis	.
ACaP08	1	1.43E+08	rs3698413	G	A	.	PASS	.	inte  NR_dis	.
ACaP08	1	1.43E+08	rs3774960	G	A	.	PASS	.	inte  NR_dis	.
ACaP08	1	1.45E+08	rs2596327	T	A	.	PASS	NBPF9 intrc NM_	.	.
ACaP08	1	1.48E+08	rs2020368	T	A	.	PASS	NBPF8 intrc NM_	.	.
ACaP08	1	1.49E+08	.	C	A	.	PASS	NBPF25 ncR NR_	.	.
ACaP08	2	84816179	.	G	C	.	PASS	DNAH6 intrc NM_	.	.
ACaP08	2	91777902	rs2647769	C	T	.	PASS	.	inte  NON dis	.
ACaP08	2	1.05E+08	.	C	T	.	PASS	.	dow NM_	.
ACaP08	2	1.13E+08	.	C	A	.	PASS	FBLN7 intrc NM_	.	.
ACaP08	2	1.13E+08	.	C	G	.	PASS	FBLN7 intrc NM_	.	.
ACaP08	2	1.31E+08	rs6216494	T	A	.	PASS	POTEJ intrc NM_	.	.
ACaP08	3	1.42E+08	.	G	T	.	PASS	TFDP2 intrc NM_	.	.
ACaP08	4	5020763	.	C	A	.	PASS	CYTL1 intrc NM_	.	.
ACaP08	4	69981142	rs1429725	C	T	.	PASS	.	inte  NM_dis	.
ACaP08	5	21491760	rs2871612	T	C	.	PASS	GUSBP ncR NR_	.	.
ACaP08	7	56898132	rs6246206	T	C	.	PASS	.	inte  NR_dis	.
ACaP08	7	65228263	rs3680944	T	C	.	PASS	CCT6P' ncR NR_	.	.
ACaP08	8	58124209	rs1499905	G	C	.	PASS	.	inte  NM_dis	.
ACaP08	10	73570873	.	T	A	.	PASS	CDH23 intrc NM_	.	.
ACaP08	10	77732782	rs7710236	G	A	.	PASS	C10orf1 intrc NM_	.	.
ACaP08	10	81317406	rs1788433	A	G	.	PASS	SFTPA2 intrc NM_	.	.
ACaP08	10	1.24E+08	.	T	G	.	PASS	DMBT1 intrc NM_	.	.
ACaP08	11	1.25E+08	.	T	A	.	PASS	PKNOX intrc NM_	.	.
ACaP08	12	9549738	rs1063873	T	G	.	PASS	.	inte  NR_dis	.
ACaP08	14	19509337	rs4247513	T	C	.	PASS	.	inte  NR_dis	.
ACaP08	14	19720452	rs7445485	C	T	.	PASS	.	inte  NR_dis	.
ACaP08	14	20107085	rs8678279	G	A	.	PASS	.	inte  NM_dis	.
ACaP08	14	23292000	.	A	T	.	PASS	.	inte  NM_dis	.
ACaP08	17	36349252	rs3930170	G	T	.	PASS	.	ups  NM_	.
ACaP08	17	48602100	rs3894278	A	T	.	PASS	MYCBP intrc NM_	.	.
ACaP08	21	9873564	rs1963041	G	A	.	PASS	.	inte  NR_dis	.
ACaP08	22	16346025	rs3716554	G	T	.	PASS	.	inte  NM_dis	.

ACaP08	22	20711723	.	C	A	.	PASS	.	inte  NM_dis .
ACaP08	X	1.35E+08	rs7819787	C	A	.	PASS	CT45A1	UTF NM_NM .
ACaP09	1	1453062	.	T	G	.	PASS	ATAD3f	intrc NM_ . .
ACaP09	1	16899903	rs453347	G	C	.	PASS	NBPF1	intrc NM_ . .
ACaP09	1	45278512	.	G	T	.	PASS	BTBD1f	intrc NM_ . .
ACaP09	1	1.43E+08	rs1812127	C	G	.	PASS	.	inte  NR_dis .
ACaP09	1	1.45E+08	.	C	G	.	PASS	NOTCH	intrc NM_ . .
ACaP09	1	1.45E+08	rs8799607	G	T	.	PASS	NBPF2f	ncR NR_ . .
ACaP09	1	1.48E+08	rs1451754	C	A	.	PASS	NBPF8	intrc NM_ . .
ACaP09	1	1.48E+08	rs2003945	G	T	.	PASS	NBPF8	intrc NM_ . .
ACaP09	1	1.48E+08	rs7970322	T	G	.	PASS	NBPF8	intrc NM_ . .
ACaP09	1	2.06E+08	.	G	T	.	PASS	NUCKS	intrc NM_ . .
ACaP09	2	2.43E+08	rs1996199	C	T	.	PASS	NEU4	intrc NM_ . .
ACaP09	3	48327615	.	G	T	.	PASS	.	inte  NM_dis .
ACaP09	3	1.7E+08	rs1873413	C	T	.	PASS	PRKCI	intrc NM_ . .
ACaP09	3	1.95E+08	rs3723871	A	G	.	PASS	.	inte  NM_dis .
ACaP09	3	1.95E+08	.	T	C	.	PASS	MUC20	intrc NM_ . .
ACaP09	3	1.96E+08	rs2006820	G	A	.	PASS	SDHAP	ncR NR_ . .
ACaP09	4	9245235	.	T	A	.	PASS	.	ups  NM_ . .
ACaP09	5	1.34E+08	.	C	A	.	PASS	CAMLG	UTF NM_NM .
ACaP09	6	1.6E+08	.	C	T	.	PASS	.	inte  NM_dis .
ACaP09	6	1.61E+08	rs7746421	C	G	.	PASS	LPA	intrc NM_ . .
ACaP09	6	1.71E+08	rs3759780	G	C	.	PASS	.	inte  NM_dis .
ACaP09	7	63215333	.	C	G	.	PASS	.	inte  NR_dis .
ACaP09	7	63215356	.	T	A	.	PASS	.	inte  NR_dis .
ACaP09	7	70229814	.	T	G	.	PASS	AUTS2	exo  NM_ . missens
ACaP09	9	44990618	rs2803685	G	T	.	PASS	FAM27f	ncR NR_ . .
ACaP09	10	47736243	rs1996770	C	T	.	PASS	.	inte  NM_dis .
ACaP09	10	47736338	rs1456597	C	A	.	PASS	.	inte  NM_dis .
ACaP09	11	6459067	.	A	C	.	PASS	HPX	intrc NM_ . .
ACaP09	11	57281775	.	T	C	.	PASS	SLC43A	intrc NM_ . .
ACaP09	12	88227	rs3718339	T	G	.	PASS	LOC10f	ncR NR_ . .
ACaP09	12	89912	rs3767721	C	T	.	PASS	LOC10f	ncR NR_ . .
ACaP09	12	64838771	rs5604999	A	T	.	PASS	XPOT	intrc NM_ . .
ACaP09	14	19560932	rs7755744	G	A	.	PASS	POTEG	intrc NM_ . .
ACaP09	14	20097348	rs1018908	C	T	.	PASS	.	inte  NM_dis .
ACaP09	15	23436112	.	G	A	.	PASS	GOLGA	ncR NR_ . .
ACaP09	15	35162992	rs7568595	T	C	.	PASS	AQR	exo  NM_ . synonymr
ACaP09	16	22497030	rs3739171	C	T	.	PASS	SMG1P	ncR NR_ . .
ACaP09	16	55803763	rs7137409	G	A	.	PASS	CES1P1	ncR NR_ . .
ACaP09	17	18402736	rs7124761	G	A	.	PASS	.	inte  NM_dis .
ACaP09	17	21906848	rs6149181	G	T	.	PASS	FLJ360f	ncR NR_ . .
ACaP09	17	58288284	rs2870408	T	C	.	PASS	USP32	intrc NM_ . .
ACaP09	17	58288310	rs2848380	C	T	.	PASS	USP32	intrc NM_ . .
ACaP09	17	79977953	.	G	C	.	PASS	STRA1f	intrc NM_ . .
ACaP09	18	61637184	.	C	A	.	PASS	.	ups  NM_ . .
ACaP09	19	9043665	.	A	G	.	PASS	MUC16	intrc NM_ . .
ACaP09	21	9842077	.	G	T	.	PASS	.	inte  NR_dis .
ACaP09	22	21538112	.	A	T	.	PASS	FAM23f	ncR NR_ . .
ACaP09	22	42538399	rs3609392	C	T	.	PASS	CYP2Df	ncR NR_ . .
ACaP09	X	57475295	.	C	A	.	PASS	FAAH2	intrc NM_ . .
ACaP10	1	1290218	rs7558529	C	T	.	PASS	MXRA8	exo  NM_ . missens
ACaP10	1	1407731	.	C	T	.	PASS	ATAD3E	intrc NM_ . .
ACaP10	1	36228102	.	G	C	.	PASS	CLSPN	intrc NM_ . .

ACaP10	1	36291134	.	G	C	.	PASS	AGO4	intrc	NM_	.	.
ACaP10	1	38186581	.	C	T	.	PASS	EPHA1C	intrc	NM_	.	.
ACaP10	1	41827744	.	G	A	.	PASS	.	inte	NM_ dis	.	.
ACaP10	1	41827857	.	G	T	.	PASS	.	inte	NM_ dis	.	.
ACaP10	1	87329181	.	C	T	.	PASS	15-Sep	exo	NM_	unknow	
ACaP10	1	90049401	.	C	T	.	PASS	LRRC8f	exo	NM_	stopgair	
ACaP10	1	1.15E+08	rs1430207	T	C	.	PASS	SYCP1	intrc	NM_	.	.
ACaP10	1	1.21E+08	.	G	A	.	PASS	NOTCH	intrc	NM_	.	.
ACaP10	1	1.43E+08	rs1996428	C	T	.	PASS	.	inte	NR_ dis	.	.
ACaP10	1	1.45E+08	.	G	C	.	PASS	NBPF9,	intrc	NM_	.	.
ACaP10	1	1.45E+08	rs3755029	A	T	.	PASS	NBPF2f	ncR	NR_	.	.
ACaP10	1	1.48E+08	rs2849511	G	A	.	PASS	LINC01	ncR	NR_	.	.
ACaP10	1	1.48E+08	rs7824596	A	C	.	PASS	NBPF8	intrc	NM_	.	.
ACaP10	1	1.48E+08	rs3765099	T	G	.	PASS	NBPF8	intrc	NM_	.	.
ACaP10	1	1.52E+08	rs9099303	C	T	.	PASS	TCHH	exo	NM_	missens	
ACaP10	1	1.54E+08	.	G	C	.	PASS	ATP8B2	intrc	NM_	.	.
ACaP10	1	1.78E+08	.	G	A	.	PASS	RASAL2	intrc	NM_	.	.
ACaP10	1	2.04E+08	.	A	G	.	PASS	PLEKH7	intrc	NM_	.	.
ACaP10	1	2.07E+08	.	C	T	.	PASS	C4BPB	intrc	NM_	.	.
ACaP10	2	1.79E+08	.	G	T	.	PASS	TTN	splie	NM_ NM_	.	.
ACaP10	2	2.19E+08	.	G	C	.	PASS	TNS1	intrc	NM_	.	.
ACaP10	3	4836817	rs7793139	G	A	.	PASS	ITPR1	exo	NM_	missens	
ACaP10	3	8983527	.	C	T	.	PASS	RAD18	intrc	NM_	.	.
ACaP10	3	13678138	.	G	C	.	PASS	FBLN2	intrc	NM_	.	.
ACaP10	3	52529448	.	C	T	.	PASS	STAB1	exo	NM_	missens	
ACaP10	4	1986605	rs7785731	C	T	.	PASS	NELFA	exo	NM_	synonyr	
ACaP10	4	88901517	rs7749410	G	A	.	PASS	SPP1	intrc	NM_	.	.
ACaP10	5	14652335	rs2382048	A	G	.	PASS	.	inte	NM_ dis	.	.
ACaP10	5	79933788	rs7817278	C	G	.	PASS	DHFR	exo	NM_	missens	
ACaP10	5	1.15E+08	.	A	G	.	PASS	COMME	UTF	NM_ NM_	.	.
ACaP10	5	1.21E+08	rs1140023	G	A	.	PASS	ZNF474	exo	NM_	missens	
ACaP10	5	1.51E+08	.	C	T	.	PASS	SLC36A	intrc	NM_	.	.
ACaP10	5	1.61E+08	.	G	A	.	PASS	GABRB	exo	NM_	stopgair	
ACaP10	6	2784638	.	G	C	.	PASS	WRNIP	splie	NM_ NM_	.	.
ACaP10	6	31833291	.	C	T	.	PASS	SLC44A	exo	NM_	missens	
ACaP10	6	47220921	.	T	C	.	PASS	TNFRSF	intrc	NM_	.	.
ACaP10	6	1.29E+08	rs9907394	C	T	.	PASS	LAMA2	intrc	NM_	.	.
ACaP10	6	1.58E+08	.	G	A	.	PASS	ARID1B	exo	NM_	missens	
ACaP10	6	1.68E+08	.	G	A	.	PASS	MLLT4	exo	NM_	missens	
ACaP10	6	1.71E+08	.	G	A	.	PASS	TBP	intrc	NM_	.	.
ACaP10	7	2701347	.	C	G	.	PASS	TTYH3	exo	NM_	missens	
ACaP10	7	6045510	.	C	G	.	PASS	PMS2	intrc	NM_	.	.
ACaP10	7	16255796	rs7468373	T	C	.	PASS	ISPD	exo	NM_	synonyr	
ACaP10	7	43540300	.	A	T	.	PASS	HECW1	exo	NM_	missens	
ACaP10	7	47622236	.	G	A	.	PASS	.	ups	NM_	.	.
ACaP10	7	1.44E+08	rs5705914	T	G	.	PASS	.	inte	NM_ dis	.	.
ACaP10	7	1.5E+08	rs1481871	C	T	.	PASS	GIMAP6	exo	NM_	missens	
ACaP10	8	1624682	rs7588073	G	A	.	PASS	DLGAP2	intrc	NM_	.	.
ACaP10	8	11403517	rs7479925	G	A	.	PASS	BLK	intrc	NM_	.	.
ACaP10	8	43828041	.	T	G	.	PASS	.	inte	NM_ dis	.	.
ACaP10	8	1.12E+08	rs5327262	C	T	.	PASS	.	inte	NM_ dis	.	.
ACaP10	8	1.45E+08	rs5696070	G	A	.	PASS	CYC1	intrc	NM_	.	.
ACaP10	9	80144019	rs3682437	G	A	.	PASS	GNA14	exo	NM_	missens	
ACaP10	9	1.07E+08	rs3746457	G	A	.	PASS	OR13C3	exo	NM_	synonyr	

ACaP10	9	1.31E+08	rs7528554	G	A	.	PASS	ZER1	intrc	NM_	.	
ACaP10	9	1.4E+08	rs5640471	G	A	.	PASS	PHPT1	exo	NM_	missens	
ACaP10	9	1.41E+08	rs5505690	C	T	.	PASS	CACNA	intrc	NM_	.	
ACaP10	10	1.13E+08	.	G	A	.	PASS	RBM20	exo	NM_	missens	
ACaP10	11	28332552	rs7615769	A	T	.	PASS	METTL1	intrc	NM_	.	
ACaP10	11	30953473	.	C	T	.	PASS	DCDC5	exo	NM_	synonyr	
ACaP10	11	46369302	rs7817387	C	G	.	PASS	DGKZ	exo	NM_	synonyr	
ACaP10	11	62414303	.	T	C	.	PASS	.	ups	NM_	.	
ACaP10	11	63581174	rs7525419	G	A	.	PASS	C11orf8	exo	NM_	missens	
ACaP10	11	64976886	.	G	C	.	PASS	CAPN1	intrc	NM_	.	
ACaP10	11	1.34E+08	.	G	A	.	PASS	GLB1L2	intrc	NM_	.	
ACaP10	12	1.14E+08	.	C	G	.	PASS	RASAL1	exo	NM_	missens	
ACaP10	12	1.22E+08	rs1409770	G	A	.	PASS	WDR66	exo	NM_	missens	
ACaP10	13	37541814	.	T	C	.	PASS	ALG5	intrc	NM_	.	
ACaP10	13	76445122	.	G	T	.	PASS	.	ups	NM_	.	
ACaP10	14	19425348	.	C	G	.	PASS	.	inte	NR_	dis.	
ACaP10	14	52508802	.	C	A	.	PASS	NID2	intrc	NM_	.	
ACaP10	14	68257498	.	A	C	.	PASS	ZFYVE2	intrc	NM_	.	
ACaP10	14	74375999	.	C	T	.	PASS	ZNF410	intrc	NM_	.	
ACaP10	14	74376028	.	C	T	.	PASS	ZNF410	intrc	NM_	.	
ACaP10	16	312533	rs7663922	C	T	.	PASS	ITFG3	exo	NM_	missens	
ACaP10	16	843324	rs5750779	C	T	.	PASS	CHTF1f	intrc	NM_	.	
ACaP10	16	5046192	.	C	T	.	PASS	SEC14L	intrc	NM_	.	
ACaP10	16	23445193	.	T	C	.	PASS	COG7	intrc	NM_	.	
ACaP10	16	33544403	rs7569695	A	G	.	PASS	RNU6-7	ncR	NR_	.	
ACaP10	16	33544406	rs7520038	G	A	.	PASS	RNU6-7	ncR	NR_	.	
ACaP10	17	29171141	.	T	C	.	PASS	ATAD5	intrc	NM_	.	
ACaP10	17	34432681	rs3713755	C	T	.	PASS	CCL4	exo	NM_	synonyr	
ACaP10	17	38857404	rs7744485	C	T	.	PASS	KRT24	exo	NM_	synonyr	
ACaP10	17	48538137	rs7460185	G	A	.	PASS	ACSF2	exo	NM_	synonyr	
ACaP10	17	57719367	rs8668152	T	G	.	PASS	CLTC	intrc	NM_	.	
ACaP10	17	60345769	rs8665784	T	G	.	PASS	TBC1D1	ncR	NR_	.	
ACaP10	17	75471673	.	G	C	.	PASS	.	9-Sep	exo	NM_	missens
ACaP10	17	77758598	rs1995663	G	A	.	PASS	CBX2	exo	NM_	synonyr	
ACaP10	17	80709957	.	G	T	.	PASS	TBCD	UTF	NM_	NM_	
ACaP10	19	37784499	rs3865492	C	G	.	PASS	.	inte	NR_	dis.	
ACaP10	19	37794112	.	T	C	.	PASS	.	inte	NR_	dis.	
ACaP10	19	42546812	rs7571526	G	A	.	PASS	GRIK5	exo	NM_	synonyr	
ACaP10	19	45448463	rs7565559	G	A	.	PASS	APOC4	exo	NM_	synonyr	
ACaP10	20	1559096	.	G	A	.	PASS	SIRPB1	exo	NM_	synonyr	
ACaP10	20	30231173	.	C	T	.	PASS	COX4I2	intrc	NM_	.	
ACaP10	20	35783518	rs3774092	G	A	.	PASS	MROH8	exo	NM_	unknow	
ACaP10	21	46841517	.	C	A	.	PASS	COL18A1	ncR	NR_	.	
ACaP10	22	16290842	rs6197100	A	G	.	PASS	.	inte	NM_	dis.	
ACaP10	22	21537446	.	A	G	.	PASS	FAM23C	ncR	NR_	.	
ACaP10	22	25045815	rs5662423	G	C	.	PASS	POM12	ncR	NR_	.	
ACaP10	22	42761191	.	C	G	.	PASS	.	inte	NR_	dis.	
ACaP10	22	45603891	rs1007675	G	A	.	PASS	KIAA09	intrc	NM_	.	
ACaP10	X	48675681	.	G	C	.	PASS	HDAC6	intrc	NM_	.	
ACaP10	X	48976038	.	G	A	.	PASS	GPKOV	intrc	NM_	.	
ACaP10	X	49853406	rs7970448	C	T	.	PASS	CLCN5	exo	NM_	stopgair	
ACaP10	X	54824610	.	A	G	.	PASS	ITIH6	exo	NM_	missens	
ACaP10	X	1.52E+08	.	C	T	.	PASS	CSAG1	UTF	NM_	NM_	
ACaP11	1	17092158	rs4634900	A	G	.	PASS	.	inte	NM_	dis.	

ACaP11	1	34238488	.	G	A	.	PASS	CSMD2 intrc NM_ . .
ACaP11	1	1.43E+08	rs7450506	G	T	.	PASS	. inte  NR_ dis .
ACaP11	1	1.43E+08	rs2016919	T	A	.	PASS	. inte  NR_ dis .
ACaP11	1	1.43E+08	.	A	T	.	PASS	. inte  NR_ dis .
ACaP11	1	1.43E+08	rs8662584	G	T	.	PASS	. inte  NR_ dis .
ACaP11	1	1.45E+08	rs4143495	G	A	.	PASS	NBPF2f ncR NR_ . .
ACaP11	1	1.48E+08	rs6181077	C	T	.	PASS	NBPF8 intrc NM_ . .
ACaP11	1	1.58E+08	.	G	T	.	PASS	CD1D UTF NM_ NM .
ACaP11	1	2.06E+08	rs2003501	G	A	.	PASS	SLC26A intrc NM_ . .
ACaP11	2	61468669	.	G	A	.	PASS	USP34 intrc NM_ . .
ACaP11	2	71776472	rs1834895	C	T	.	PASS	DYSF intrc NM_ . .
ACaP11	2	71909724	rs2009908	C	T	.	PASS	DYSF exo  NM_ missens
ACaP11	2	74687101	.	G	C	.	PASS	WBP1 exo  NM_ missens
ACaP11	2	98444405	rs9528	T	C	.	PASS	TMEM1 intrc NM_ . .
ACaP11	2	1.5E+08	.	A	G	.	PASS	EPC2 UTF NM_ NM .
ACaP11	2	2.41E+08	rs3739748	G	A	.	PASS	GPC1 exo  NM_ missens
ACaP11	3	27161284	rs5683253	C	T	.	PASS	. inte  NM_ dis .
ACaP11	3	50224219	rs1474450	C	T	.	PASS	SEMA3l intrc NM_ . .
ACaP11	3	52014898	rs2004359	G	A	.	PASS	ABHD14 exo  NM_ missens
ACaP11	3	1.19E+08	.	C	T	.	PASS	ARHGA exo  NM_ stopgair
ACaP11	4	3516405	.	T	G	.	PASS	LRPAP1 intrc NM_ . .
ACaP11	4	6080805	.	T	C	.	PASS	JAKMIP intrc NM_ . .
ACaP11	4	8230040	.	G	A	.	PASS	SH3TC' exo  NM_ synonymr
ACaP11	4	41631469	.	G	A	.	PASS	LIMCH1 intrc NM_ . .
ACaP11	4	49165445	rs2932367	A	T	.	PASS	. inte  NM_ dis .
ACaP11	4	49235403	.	T	C	.	PASS	. inte  NM_ dis .
ACaP11	4	53463959	.	G	A	.	PASS	USP46 intrc NM_ . .
ACaP11	4	80328488	rs7669673	C	T	.	PASS	GK2 exo  NM_ synonymr
ACaP11	5	60188960	.	C	T	.	PASS	ERCC8 intrc NM_ . .
ACaP11	5	60628079	.	C	A	.	PASS	. ups  NM_ . .
ACaP11	5	1.02E+08	.	G	A	.	PASS	SLCO4( exo  NM_ missens
ACaP11	5	1.44E+08	.	G	A	.	PASS	YIPF5 UTF NM_ NM .
ACaP11	5	1.49E+08	rs5319092	G	A	.	PASS	ABLIM3 UTF NM_ NM .
ACaP11	6	10926514	rs5661365	A	T	.	PASS	SYCP2L intrc NM_ . .
ACaP11	6	29797493	.	C	T	.	PASS	HLA-G intrc NM_ . .
ACaP11	6	32053837	.	C	A	.	PASS	TNXB exo  NM_ synonymr
ACaP11	7	1539158	rs1814105	G	A	.	PASS	INTS1 exo  NM_ synonymr
ACaP11	7	56870145	rs7827655	G	A	.	PASS	. inte  NR_ dis .
ACaP11	7	87323300	rs1484992	G	A	.	PASS	RUNDC intrc NM_ . .
ACaP11	7	1E+08	rs5523938	A	T	.	PASS	EPHB4 intrc NM_ . .
ACaP11	7	1.37E+08	.	G	T	.	PASS	DGKI exo  NM_ synonymr
ACaP11	7	1.37E+08	rs3737114	G	A	.	PASS	DGKI intrc NM_ . .
ACaP11	7	1.44E+08	.	C	T	.	PASS	OR2A2f exo  NM_ synonymr
ACaP11	8	51675009	rs9982298	G	A	.	PASS	SNTG1 intrc NM_ . .
ACaP11	8	92092953	.	C	T	.	PASS	OTUD6l exo  NM_ missens
ACaP11	9	3937164	.	G	A	.	PASS	GLIS3 exo  NM_ missens
ACaP11	9	31254421	.	G	A	.	PASS	. inte  NR_ dis .
ACaP11	9	67334841	rs9330412	T	C	.	PASS	. inte  NR_ dis .
ACaP11	9	95858738	.	G	A	.	PASS	C9orf89 intrc NM_ . .
ACaP11	9	1.16E+08	.	C	A	.	PASS	. inte  NM_ dis .
ACaP11	9	1.39E+08	rs9459874	G	A	.	PASS	GPSM1 exo  NM_ missens
ACaP11	9	1.41E+08	rs9494422	C	T	.	PASS	CACNA intrc NM_ . .
ACaP11	10	25465126	.	C	G	.	PASS	GPR15f exo  NM_ missens
ACaP11	10	38344467	.	T	A	.	PASS	ZNF33A exo  NM_ missens

ACaP11	10	49200349	rs2996811	G	A	.	PASS	.	inte NR_dis.
ACaP11	10	51754214	.	G	C	.	PASS	AGAP6	intrc NM_ . .
ACaP11	10	97725811	.	G	C	.	PASS	ENTPD1	ncR NR_ . .
ACaP11	10	99426911	rs7792060	G	A	.	PASS	PI4K2A	intrc NM_ . .
ACaP11	11	12539367	.	T	A	.	PASS	PARVA	intrc NM_ . .
ACaP11	11	1.08E+08	.	C	A	.	PASS	ATM	intrc NM_ . .
ACaP11	11	1.19E+08	.	T	G	.	PASS	HYOU1	exo NM_ . missens
ACaP11	11	1.34E+08	.	T	C	.	PASS	GLB1L2	intrc NM_ . .
ACaP11	12	7894149	.	T	C	.	PASS	CLEC4E	intrc NM_ . .
ACaP11	12	12038881	.	G	A	.	PASS	ETV6	exo NM_ . missens
ACaP11	12	25398284	rs1219135	C	T	.	PASS	KRAS	exo NM_ . missens
ACaP11	12	57975211	rs3522560	G	A	.	PASS	KIF5A	exo NM_ . synonymr
ACaP11	12	75435988	.	T	A	.	PASS	KCNC2	UTF NM_NM_ .
ACaP11	12	1.04E+08	rs5396169	G	A	.	PASS	GNN	ncR NR_ . .
ACaP11	13	84480908	.	G	A	.	PASS	.	inte NM_dis.
ACaP11	14	54907897	.	C	T	.	PASS	CNIH1	intrc NM_ . .
ACaP11	14	99439761	rs8791962	G	A	.	PASS	.	inte NM_dis.
ACaP11	15	22319705	.	G	A	.	PASS	LOC727	ncR NR_ . .
ACaP11	15	23931877	.	A	G	.	PASS	NDN	exo NM_ . missens
ACaP11	15	27128535	.	C	T	.	PASS	GABRA	exo NM_ . missens
ACaP11	15	32778129	rs7831577	A	C	.	PASS	.	inte NM_dis.
ACaP11	15	84839208	rs2010114	T	A	.	PASS	.	inte NR_dis.
ACaP11	16	25266886	.	G	A	.	PASS	ZKSCAN1	intrc NM_ . .
ACaP11	16	33500640	.	T	C	.	PASS	RNU6-7	ncR NR_ . .
ACaP11	16	49313530	.	C	A	.	PASS	CBLN1	intrc NM_ . .
ACaP11	16	70013113	rs2001829	A	C	.	PASS	PDXDC	ncR NR_ . .
ACaP11	16	81941457	.	C	A	.	PASS	PLCG2	intrc NM_ . .
ACaP11	17	33353396	.	C	T	.	PASS	RFFL	exo NM_ . synonymr
ACaP11	17	36349253	.	C	T	.	PASS	.	ups NM_ . .
ACaP11	17	37395078	.	C	A	.	PASS	.	inte NM_dis.
ACaP11	17	79424399	.	C	G	.	PASS	BAHCC	intrc NM_ . .
ACaP11	18	61323506	.	T	A	.	PASS	SERPIN	intrc NM_ . .
ACaP11	19	3811459	rs8673654	T	C	.	PASS	ZFR2	intrc NM_ . .
ACaP11	19	7935901	.	A	T	.	PASS	FLJ2211	exo NM_ . unknow
ACaP11	19	11319376	rs7680686	C	T	.	PASS	DOCK6	exo NM_ . missens
ACaP11	19	36431190	.	A	T	.	PASS	LRFN3	exo NM_ . missens
ACaP11	19	40025280	.	G	A	.	PASS	.	inte NM_dis.
ACaP11	19	44635910	.	C	T	.	PASS	ZNF225	exo NM_ . synonymr
ACaP11	19	54818898	.	G	A	.	PASS	LILRA5	intrc NM_ . .
ACaP11	19	55481747	.	G	A	.	PASS	NLRP2	intrc NM_ . .
ACaP11	19	58385069	rs7705940	G	A	.	PASS	ZNF814	exo NM_ . synonymr
ACaP11	20	2083840	.	G	A	.	PASS	STK35	exo NM_ . missens
ACaP11	20	23432566	rs2002254	G	A	.	PASS	CST11	intrc NM_ . .
ACaP11	20	37581121	.	G	T	.	PASS	FAM83C	exo NM_ . missens
ACaP11	20	53968515	.	C	T	.	PASS	.	inte NM_dis.
ACaP11	21	22881344	.	T	G	.	PASS	NCAM2	exo NM_ . missens
ACaP11	22	33402489	.	G	A	.	PASS	SYN3	exo NM_ . synonymr
ACaP11	X	48136636	.	C	G	.	PASS	.	inte NM_dis.
ACaP11	X	1.01E+08	.	G	A	.	PASS	ARMCX	exo NM_ . synonymr
ACaP11	X	1.04E+08	.	C	T	.	PASS	TEX13A	exo NM_ . missens
ACaP11	X	1.05E+08	rs7533837	C	T	.	PASS	NRK	exo NM_ . synonymr
ACaP11	X	1.23E+08	.	C	T	.	PASS	SH2D1	/intrc NM_ . .
ACaP11	X	1.35E+08	rs7767123	C	T	.	PASS	MAP7D1	/intrc NM_ . .
ACaP11	X	1.45E+08	.	C	A	.	PASS	.	inte NM_dis.



ACaP11	X	1.54E+08	rs3981235	G	A	.	PASS	G6PD	exon	NM_	missens
ACaP11	MT	12641	.	A	G	.	PASS	.	intron	NON	dis.
ACaP12	1	10478868	.	C	T	.	PASS	PGD	intron	NM_	.
ACaP12	1	16954895	rs1015792	T	C	.	PASS	CROCC	ncR	NR_	.
ACaP12	1	19176042	.	C	T	.	PASS	TAS1R2	exon	NM_	synonym
ACaP12	1	21945544	rs1453424	G	A	.	PASS	RAP1G	exon	NM_	missens
ACaP12	1	92595302	.	G	T	.	PASS	BTBD8	exon	NM_	stopgain
ACaP12	1	1.43E+08	rs7704066	T	C	.	PASS	.	intron	NR_	dis.
ACaP12	1	1.43E+08	rs1415172	A	G	.	PASS	.	intron	NR_	dis.
ACaP12	1	1.43E+08	rs1256214	A	G	.	PASS	.	intron	NR_	dis.
ACaP12	1	1.46E+08	rs3721624	C	T	.	PASS	NBPF2	ncR	NR_	.
ACaP12	1	1.46E+08	rs5876752	C	T	.	PASS	NBPF2	ncR	NR_	.
ACaP12	1	1.49E+08	.	A	G	.	PASS	NBPF2	ncR	NR_	.
ACaP12	1	1.5E+08	rs3730063	C	T	.	PASS	CA14	exon	NM_	synonym
ACaP12	1	1.84E+08	.	G	C	.	PASS	NCF2	intron	NM_	.
ACaP12	1	2.11E+08	.	C	G	.	PASS	KCNH1	exon	NM_	missens
ACaP12	2	47748923	.	G	A	.	PASS	KCNK12	exon	NM_	missens
ACaP12	2	90154277	rs7540104	G	A	.	PASS	.	intron	NR_	dis.
ACaP12	2	1.55E+08	.	G	A	.	PASS	GALNT1	intron	NM_	.
ACaP12	2	1.79E+08	.	C	A	.	PASS	MIR548	ncR	NR_	.
ACaP12	2	1.98E+08	.	G	T	.	PASS	HSPD1	intron	NM_	.
ACaP12	2	2.36E+08	rs9825331	G	A	.	PASS	SH3BP2	intron	NM_	.
ACaP12	3	4459126	.	A	G	.	PASS	SUMF1	intron	NM_	.
ACaP12	3	5025541	rs1309395	A	G	.	PASS	BHLHE40	UTF	NM_NM	.
ACaP12	3	32493464	.	A	C	.	PASS	CMTM7	intron	NM_	.
ACaP12	3	39142000	rs3710999	G	A	.	PASS	GORAS	intron	NM_	.
ACaP12	3	40232079	.	G	T	.	PASS	EIF1B-A	ncR	NR_	.
ACaP12	3	49094476	.	G	A	.	PASS	QRICH1	exon	NM_	missens
ACaP12	3	49695410	.	G	A	.	PASS	BSN	exon	NM_	synonym
ACaP12	3	49695411	.	G	T	.	PASS	BSN	exon	NM_	missens
ACaP12	3	50402763	.	C	T	.	PASS	CACNA	intron	NM_	.
ACaP12	3	1.14E+08	.	T	C	.	PASS	.	intron	NM_	dis.
ACaP12	3	1.26E+08	rs5729372	T	C	.	PASS	ALDH1L1	ncR	NR_	.
ACaP12	4	49846	rs4970287	C	T	.	PASS	.	intron	NON	dis.
ACaP12	4	72675845	rs1456513	C	T	.	PASS	.	intron	NM_	dis.
ACaP12	4	88056744	.	G	A	.	PASS	AFF1	exon	NM_	missens
ACaP12	4	1.19E+08	.	A	G	.	PASS	SNHG8	ncR	NR_	.
ACaP12	4	1.26E+08	rs3727861	C	T	.	PASS	FAT4	exon	NM_	missens
ACaP12	4	1.74E+08	.	C	T	.	PASS	GALNT1	exon	NM_	missens
ACaP12	4	1.89E+08	.	A	G	.	PASS	TRIML2	intron	NM_	.
ACaP12	5	1.49E+08	.	G	C	.	PASS	ABLIM3	UTF	NM_NM	.
ACaP12	5	1.56E+08	.	C	A	.	PASS	HAVCR	intron	NM_	.
ACaP12	6	29640133	.	C	G	.	PASS	MOG	UTF	NM_NM	.
ACaP12	6	38704724	.	C	G	.	PASS	DNAH8	intron	NM_	.
ACaP12	6	98472367	rs9010911	C	T	.	PASS	.	ups	NR_	.
ACaP12	6	1.19E+08	.	A	T	.	PASS	CEP85L	intron	NM_	.
ACaP12	7	5160948	rs1544467	G	C	.	PASS	ZNF890	ncR	NR_	.
ACaP12	7	6194972	.	G	C	.	PASS	USP42	intron	NM_	.
ACaP12	7	23775541	.	C	G	.	PASS	STK31	intron	NM_	.
ACaP12	7	27211839	.	C	A	.	PASS	HOXA10	ncR	NR_	.
ACaP12	7	45145116	.	T	C	.	PASS	TBRG4	exon	NM_	missens
ACaP12	7	48886013	rs1929995	G	A	.	PASS	.	intron	NM_	dis.
ACaP12	7	66532216	.	T	G	.	PASS	TYW1	intron	NM_	.
ACaP12	7	75192365	.	G	A	.	PASS	HIP1	exon	NM_	synonym

ACaP12	7	95040962	.	T	A	.	PASS	PON2	splice NM_NV.
ACaP12	7	98552820	.	G	C	.	PASS	TRRAP	exon NM_ missense
ACaP12	7	1.33E+08	rs5753233	C	T	.	PASS	CHCHD	intron NM_ .
ACaP12	7	1.35E+08	.	G	A	.	PASS	NUP205	intron NM_ .
ACaP12	8	47697282	.	G	A	.	PASS	.	intron NON-dis.
ACaP12	8	71581321	.	G	C	.	PASS	LACTB2	exon NM_ missense
ACaP12	8	73150309	rs5472481	T	C	.	PASS	LOC392	ncR NR_ .
ACaP12	8	87111441	.	G	C	.	PASS	ATP6V	intron NM_ .
ACaP12	9	28149024	rs3746546	C	T	.	PASS	LINGO2	intron NM_ .
ACaP12	9	34372554	.	C	T	.	PASS	KIAA111	exon NM_ unknown
ACaP12	9	72131055	.	C	T	.	PASS	APBA1	exon NM_ missense
ACaP12	9	78686669	.	C	T	.	PASS	PCSK5	exon NM_ missense
ACaP12	9	1.16E+08	rs2868900	G	A	.	PASS	.	intron NM_dis.
ACaP12	9	1.17E+08	rs3719801	C	T	.	PASS	MIR455	ncR NR_ .
ACaP12	9	1.39E+08	rs9976753	G	A	.	PASS	CARD9	intron NM_ .
ACaP12	9	1.39E+08	rs3763504	C	T	.	PASS	SEC16A	exon NM_ missense
ACaP12	10	3184061	rs9266937	C	T	.	PASS	PITRM1	ncR NR_ .
ACaP12	10	34624952	.	A	T	.	PASS	PARD3	intron NM_ .
ACaP12	10	46968906	.	A	G	.	PASS	SYT15	intron NM_ .
ACaP12	10	75290252	.	T	A	.	PASS	USP54	exon NM_ stopgain
ACaP12	10	94274858	.	T	G	.	PASS	IDE	intron NM_ .
ACaP12	10	1.29E+08	.	A	C	.	PASS	DOCK1	intron NM_ .
ACaP12	11	5021198	.	A	C	.	PASS	.	down NM_ .
ACaP12	11	18057716	.	C	T	.	PASS	TPH1	intron NM_ .
ACaP12	11	18333062	.	T	A	.	PASS	HPS5	intron NM_ .
ACaP12	11	55234524	.	C	T	.	PASS	.	intron NM_dis.
ACaP12	11	57184188	rs3696017	C	T	.	PASS	SLC43A	intron NM_ .
ACaP12	11	66743255	.	C	T	.	PASS	C11orf8	intron NM_ .
ACaP12	11	1.07E+08	.	G	A	.	PASS	CWF19	exon NM_ stopgain
ACaP12	11	1.19E+08	.	G	A	.	PASS	USP2-A	ncR NR_ .
ACaP12	12	48387872	.	A	C	.	PASS	COL2A1	intron NM_ .
ACaP12	12	1.01E+08	.	G	C	.	PASS	DEPDC	exon NM_ missense
ACaP12	12	1.13E+08	rs8683709	T	C	.	PASS	HECTD	intron NM_ .
ACaP12	12	1.17E+08	.	G	A	.	PASS	MED13L	intron NM_ .
ACaP12	12	1.21E+08	rs5681239	C	T	.	PASS	HNF1A	exon NM_ missense
ACaP12	13	99554177	rs7528858	C	T	.	PASS	DOCK9	intron NM_ .
ACaP12	14	23394231	.	T	C	.	PASS	PRMT5	exon NM_ missense
ACaP12	14	23574113	rs1288039	A	G	.	PASS	.	intron NM_dis.
ACaP12	14	1.02E+08	rs5316143	G	A	.	PASS	.	ups NR_ .
ACaP12	15	23931748	.	C	G	.	PASS	NDN	exon NM_ missense
ACaP12	15	30019030	rs7540721	C	T	.	PASS	TJP1	exon NM_ missense
ACaP12	15	30675581	rs2015691	A	C	.	PASS	CHRFA	UTR NM_NV.
ACaP12	15	30875177	rs7122570	C	G	.	PASS	ULK4P1	ncR NR_ .
ACaP12	15	34649590	.	G	A	.	PASS	NUTM1	exon NM_ synonymy
ACaP12	15	44828896	.	C	T	.	PASS	EIF3J-A	ncR NR_ .
ACaP12	15	78217260	rs1869226	T	A	.	PASS	LOC645	ncR NR_ .
ACaP12	15	78217296	rs8789048	A	G	.	PASS	LOC645	ncR NR_ .
ACaP12	15	78369712	.	C	T	.	PASS	TBC1D2	exon NM_ missense
ACaP12	15	83242000	.	A	T	.	PASS	CPEB1	intron NM_ .
ACaP12	16	2024786	rs7655357	C	T	.	PASS	TBL3	exon NM_ synonymy
ACaP12	16	3594311	rs2015706	G	A	.	PASS	NLRC3	exon NM_ synonymy
ACaP12	16	5097836	.	T	C	.	PASS	C16orf8	intron NM_ .
ACaP12	16	71571633	.	C	T	.	PASS	CHST4	exon NM_ synonymy
ACaP12	17	1703092	.	C	G	.	PASS	SMYD4	intron NM_ .

ACaP12	17	3704387	.	G	A	.	PASS	ITGAE	intrc	NM_	.	.
ACaP12	17	5328662	rs7781206	T	C	.	PASS	RPAIN	intrc	NM_	.	.
ACaP12	17	54403491	.	C	T	.	PASS	ANKFN	intrc	NM_	.	.
ACaP12	17	72860511	rs1134430	C	T	.	PASS	FDXR	intrc	NM_	.	.
ACaP12	17	73748472	.	G	A	.	PASS	ITGB4	intrc	NM_	.	.
ACaP12	17	78897302	rs7648089	G	A	.	PASS	RPTOR	exo	NM_	.	synonyr
ACaP12	17	79804058	.	C	T	.	PASS	P4HB	intrc	NM_	.	.
ACaP12	17	80275317	rs3729739	C	T	.	PASS	CD7	exo	NM_	.	missens
ACaP12	17	80923509	.	C	G	.	PASS	B3GNT1	intrc	NM_	.	.
ACaP12	17	80923732	.	C	G	.	PASS	B3GNT1	intrc	NM_	.	.
ACaP12	18	671490	.	C	T	.	PASS	ENOSF	UTF	NM_	NM_	.
ACaP12	18	671523	.	C	T	.	PASS	ENOSF	UTF	NM_	NM_	.
ACaP12	18	32919698	.	A	C	.	PASS	ZNF24	intrc	NM_	.	.
ACaP12	19	3456537	rs5282381	C	T	.	PASS	NFIC	intrc	NM_	.	.
ACaP12	19	3456645	.	G	A	.	PASS	NFIC	intrc	NM_	.	.
ACaP12	19	3456958	rs9075262	G	A	.	PASS	NFIC	intrc	NM_	.	.
ACaP12	19	3456966	.	G	T	.	PASS	NFIC	intrc	NM_	.	.
ACaP12	19	9722191	.	C	A	.	PASS	ZNF561	intrc	NM_	.	.
ACaP12	19	13925374	.	C	T	.	PASS	ZSWIM	intrc	NM_	.	.
ACaP12	19	38230186	.	A	C	.	PASS	ZNF573	exo	NM_	.	missens
ACaP12	19	44770644	.	C	A	.	PASS	ZNF233	intrc	NM_	.	.
ACaP12	19	49247486	.	G	C	.	PASS	IZUMO1	intrc	NM_	.	.
ACaP12	19	49254265	.	G	A	.	PASS	FUT1	exo	NM_	.	stopgair
ACaP12	19	49254480	.	G	A	.	PASS	FUT1	exo	NM_	.	missens
ACaP12	19	51228430	.	C	T	.	PASS	CLEC11	exo	NM_	.	synonyr
ACaP12	19	53321368	.	C	A	.	PASS	ZNF28	intrc	NM_	.	.
ACaP12	19	54418876	.	C	A	.	PASS	CACNG	intrc	NM_	.	.
ACaP12	20	39987411	rs7457076	C	T	.	PASS	LPIN3	exo	NM_	.	missens
ACaP12	21	9826941	.	G	A	.	PASS	.	dow	NR_	.	.
ACaP12	21	10139851	rs8792017	A	G	.	PASS	.	inte	NR_	dis	.
ACaP12	21	10935163	.	A	C	.	PASS	TPTE	intrc	NM_	.	.
ACaP12	22	18121731	rs1167407	C	T	.	PASS	BCL2L1	intrc	NM_	.	.
ACaP12	22	18898908	rs3760330	A	G	.	PASS	DGCR6	intrc	NM_	.	.
ACaP12	22	31487231	.	C	T	.	PASS	SMTN	exo	NM_	.	stopgair
ACaP12	X	73811619	.	C	T	.	PASS	RLIM	exo	NM_	.	missens
ACaP12	X	1.39E+08	.	G	T	.	PASS	MCF2	exo	NM_	.	missens
ACaP12	X	1.41E+08	.	T	A	.	PASS	MAGEC	UTF	NM_	NM_	.
ACaP13	1	1416370	rs1153096	T	C	.	PASS	ATAD3E	intrc	NM_	.	.
ACaP13	1	1960807	.	T	G	.	PASS	GABRD	intrc	NM_	.	.
ACaP13	1	38095397	.	G	A	.	PASS	RSPO1	UTF	NM_	NM_	.
ACaP13	1	46088944	rs5317072	C	T	.	PASS	CCDC1	exo	NM_	.	synonyr
ACaP13	1	52761662	.	T	A	.	PASS	ZFYVE3	intrc	NM_	.	.
ACaP13	1	57756744	rs7787296	C	T	.	PASS	DAB1	UTF	NM_	NM_	.
ACaP13	1	1E+08	.	C	T	.	PASS	AGL	exo	NM_	.	synonyr
ACaP13	1	1.43E+08	rs7736232	A	T	.	PASS	.	inte	NR_	dis	.
ACaP13	1	1.43E+08	rs1712174	A	C	.	PASS	.	inte	NR_	dis	.
ACaP13	1	1.53E+08	.	C	A	.	PASS	LCE2D	UTF	NM_	NM_	.
ACaP13	1	1.54E+08	.	C	T	.	PASS	UBAP2L	intrc	NM_	.	.
ACaP13	1	1.61E+08	.	C	T	.	PASS	NIT1	intrc	NM_	.	.
ACaP13	1	1.83E+08	.	T	G	.	PASS	LAMC2	intrc	NM_	.	.
ACaP13	1	1.96E+08	.	G	T	.	PASS	KCNT2	intrc	NM_	.	.
ACaP13	1	1.98E+08	.	A	T	.	PASS	C1orf53	UTF	NM_	NM_	.
ACaP13	1	2.03E+08	.	G	A	.	PASS	KDM5B	exo	NM_	.	missens
ACaP13	1	2.44E+08	.	G	A	.	PASS	SDCCA	intrc	NM_	.	.

ACaP13	2	3391528	.	C	T	.	PASS	TRAPP1	exon NM_	missens
ACaP13	2	3391529	.	C	T	.	PASS	TRAPP1	exon NM_	synonym
ACaP13	2	15467935	.	C	A	.	PASS	NBAS	exon NM_	missens
ACaP13	2	32474956	.	G	T	.	PASS	NLRC4	exon NM_	missens
ACaP13	2	69300244	.	G	A	.	PASS	ANTXR1	intron NM_	.
ACaP13	2	95858692	rs2015850	T	C	.	PASS	.	intron NM_	dis.
ACaP13	2	98351736	.	A	T	.	PASS	ZAP70	exon NM_	missens
ACaP13	2	1.07E+08	rs2008974	G	T	.	PASS	RGPD3	intron NM_	.
ACaP13	2	1.19E+08	rs7249504	G	T	.	PASS	INSIG2	intron NM_	.
ACaP13	2	1.19E+08	.	A	T	.	PASS	INSIG2	intron NM_	.
ACaP13	2	1.79E+08	.	G	A	.	PASS	TTN	exon NM_	synonym
ACaP13	2	2.04E+08	.	C	A	.	PASS	ICA1L	UTR NM_	NM_
ACaP13	2	2.04E+08	rs5520376	C	T	.	PASS	ABI2	intron NM_	.
ACaP13	2	2.04E+08	.	C	G	.	PASS	ABI2	intron NM_	.
ACaP13	2	2.17E+08	rs1816528	G	A	.	PASS	LINC00641	ncR NR_	.
ACaP13	2	2.33E+08	.	G	A	.	PASS	PRSS5	exon NM_	missens
ACaP13	3	44816983	.	C	G	.	PASS	KIF15	intron NM_	.
ACaP13	3	46940375	rs9185110	C	G	.	PASS	PTH1R	intron NM_	.
ACaP13	3	52551451	rs3735896	C	T	.	PASS	STAB1	intron NM_	.
ACaP13	3	98530296	.	T	C	.	PASS	DCBLD2	intron NM_	.
ACaP13	3	98531184	.	A	G	.	PASS	DCBLD2	exon NM_	missens
ACaP13	3	1.01E+08	.	T	G	.	PASS	RPL24	intron NM_	.
ACaP13	3	1.22E+08	.	G	A	.	PASS	ILDR1	UTR NM_	NM_
ACaP13	3	1.3E+08	rs1456223	C	T	.	PASS	COL6A3	exon NM_	synonym
ACaP13	3	1.79E+08	rs1048860	G	A	.	PASS	PIK3CA	exon NM_	missens
ACaP13	4	3516405	.	T	G	.	PASS	LRPAP1	intron NM_	.
ACaP13	4	4158786	rs4018318	C	T	.	PASS	.	intron NR_	dis.
ACaP13	4	42466856	.	C	T	.	PASS	ATP8A1	intron NM_	.
ACaP13	4	42626770	.	G	A	.	PASS	ATP8A1	intron NM_	.
ACaP13	4	74810030	.	G	T	.	PASS	.	intron NM_	dis.
ACaP13	4	1.41E+08	.	G	C	.	PASS	SCOC	intron NM_	.
ACaP13	4	1.91E+08	.	C	G	.	PASS	.	intron NM_	dis.
ACaP13	5	21461937	.	C	T	.	PASS	GUSBP	ncR NR_	.
ACaP13	5	54696250	.	G	A	.	PASS	SKIV2L	splice NM_	NM_
ACaP13	5	1.2E+08	.	G	A	.	PASS	PRR16	UTR NM_	NM_
ACaP13	5	1.31E+08	.	A	T	.	PASS	RAPGE	intron NM_	.
ACaP13	5	1.41E+08	rs7735798	C	T	.	PASS	PCDHG	exon NM_	missens
ACaP13	5	1.71E+08	.	C	T	.	PASS	FGF18	exon NM_	synonym
ACaP13	5	1.79E+08	.	G	A	.	PASS	TBC1D9	exon NM_	stopgain
ACaP13	5	1.8E+08	rs3761176	C	T	.	PASS	BTNL9	exon NM_	missens
ACaP13	6	25279438	.	C	T	.	PASS	.	upsilon NM_	.
ACaP13	6	30621054	rs1419237	T	G	.	PASS	DHX16	exon NM_	missens
ACaP13	6	1.12E+08	rs3687466	C	T	.	PASS	LAMA4	splice NM_	NM_
ACaP13	6	1.5E+08	.	G	A	.	PASS	RAET1C	exon NM_	synonym
ACaP13	6	1.54E+08	.	G	A	.	PASS	OPRM1	exon NM_	synonym
ACaP13	6	1.56E+08	rs2014763	G	A	.	PASS	TIAM2	exon NM_	missens
ACaP13	6	1.71E+08	rs3759780	G	C	.	PASS	.	intron NM_	dis.
ACaP13	7	44524932	rs7676901	A	G	.	PASS	NUDCD	intron NM_	.
ACaP13	7	44609630	.	T	C	.	PASS	DDX56	exon NM_	missens
ACaP13	7	56884371	rs6246184	G	A	.	PASS	.	intron NR_	dis.
ACaP13	7	56893786	rs2013722	C	T	.	PASS	.	intron NR_	dis.
ACaP13	7	66458446	.	C	G	.	PASS	SBDS	intron NM_	.
ACaP13	7	72440173	.	C	T	.	PASS	LOC54111	ncR NR_	.
ACaP13	7	1.01E+08	rs7611895	G	A	.	PASS	MUC12	exon NM_	missens

ACaP13	7	1.41E+08	.	A	C	.	PASS	KIAA111	intrc	NM_	.	.
ACaP13	7	1.52E+08	rs1419939	A	T	.	PASS	KMT2C	exo	NM_	.	synonym
ACaP13	7	1.56E+08	.	G	A	.	PASS	.	inte	NM_dis	.	.
ACaP13	8	9593033	.	G	A	.	PASS	TNKS	intrc	NM_	.	.
ACaP13	8	12453566	rs7484521	C	A	.	PASS	LOC729	ncR	NR_	.	.
ACaP13	8	21859882	.	A	C	.	PASS	XPO7	intrc	NM_	.	.
ACaP13	8	22426860	.	T	C	.	PASS	SORBS	intrc	NM_	.	.
ACaP13	8	89131069	.	G	A	.	PASS	MMP16	exo	NM_	.	missens
ACaP13	8	1.05E+08	rs5352633	G	A	.	PASS	RIMS2	intrc	NM_	.	.
ACaP13	8	1.13E+08	rs5594625	A	T	.	PASS	CSMD3	intrc	NM_	.	.
ACaP13	8	1.25E+08	rs3766154	C	T	.	PASS	ANXA13	exo	NM_	.	missens
ACaP13	8	1.45E+08	.	G	A	.	PASS	CCDC11	intrc	NM_	.	.
ACaP13	8	1.45E+08	.	G	A	.	PASS	OPLAH	exo	NM_	.	missens
ACaP13	9	15468835	.	G	T	.	PASS	PSIP1	exo	NM_	.	synonym
ACaP13	9	17463175	.	T	C	.	PASS	CNTLN	intrc	NM_	.	.
ACaP13	9	44990618	rs2803685	G	T	.	PASS	FAM27C	ncR	NR_	.	.
ACaP13	9	90749743	rs7553291	G	A	.	PASS	SPATA3	exo	NM_	.	synonym
ACaP13	9	1.28E+08	.	A	G	.	PASS	GAPVD	exo	NM_	.	missens
ACaP13	10	3190592	rs1901417	G	A	.	PASS	PITRM1	ncR	NR_	.	.
ACaP13	10	33196033	.	G	T	.	PASS	ITGB1	exo	NM_	.	missens
ACaP13	10	38939588	rs4070334	G	A	.	PASS	.	inte	NR_dis	.	.
ACaP13	10	81319598	.	C	T	.	PASS	SFTPA2	intrc	NM_	.	.
ACaP13	10	89622388	.	G	C	.	PASS	KLLN	UTF	NM_NV	.	.
ACaP13	10	97824204	.	G	A	.	PASS	ENTPD	ncR	NR_	.	.
ACaP13	11	1024083	rs7488284	G	A	.	PASS	MUC6	exo	NM_	.	synonym
ACaP13	11	11952236	.	C	T	.	PASS	USP47	intrc	NM_	.	.
ACaP13	11	17416893	.	G	A	.	PASS	ABCC8	intrc	NM_	.	.
ACaP13	11	18428563	.	T	A	.	PASS	LDHA	intrc	NM_	.	.
ACaP13	11	26559175	.	C	T	.	PASS	ANO3	intrc	NM_	.	.
ACaP13	11	28332512	rs1470918	G	T	.	PASS	METTL	intrc	NM_	.	.
ACaP13	11	62557597	.	A	T	.	PASS	TMEM1	UTF	NM_NV	.	.
ACaP13	11	63531795	.	G	A	.	PASS	C11orf9	exo	NM_	.	missens
ACaP13	11	89510434	rs2010003	C	A	.	PASS	.	inte	NM_dis	.	.
ACaP13	11	1.03E+08	.	A	T	.	PASS	DYNC2I	intrc	NM_	.	.
ACaP13	12	45270544	.	G	C	.	PASS	NELL2	UTF	NM_NV	.	.
ACaP13	12	51890927	rs7761498	A	G	.	PASS	SLC4A8	intrc	NM_	.	.
ACaP13	12	56716439	.	G	A	.	PASS	PAN2	exo	NM_	.	missens
ACaP13	12	99145327	.	C	G	.	PASS	ANKS1f	intrc	NM_	.	.
ACaP13	12	1.1E+08	.	G	A	.	PASS	MMAB	splic	NM_NV	.	.
ACaP13	13	44770472	.	C	G	.	PASS	.	ups	NR_	.	.
ACaP13	13	60849382	.	C	A	.	PASS	.	inte	NM_dis	.	.
ACaP13	13	91924856	.	G	A	.	PASS	.	inte	NR_dis	.	.
ACaP13	14	19806361	rs2259899	C	A	.	PASS	.	inte	NR_dis	.	.
ACaP13	14	20146058	rs7966403	C	A	.	PASS	.	inte	NM_dis	.	.
ACaP13	14	23315028	rs7511166	C	T	.	PASS	MMP14	exo	NM_	.	missens
ACaP13	14	23874795	rs1127835	C	T	.	PASS	MYH6	intrc	NM_	.	.
ACaP13	14	36157747	.	C	A	.	PASS	RALGA	splic	NM_NV	.	.
ACaP13	14	1.03E+08	.	T	G	.	PASS	CDC42f	exo	NM_	.	missens
ACaP13	15	20487853	rs7146667	T	C	.	PASS	.	ups	NR_	.	.
ACaP13	15	25601103	.	T	C	.	PASS	UBE3A	exo	NM_	.	missens
ACaP13	15	29347059	.	G	A	.	PASS	APBA2	intrc	NM_	.	.
ACaP13	15	40468780	.	G	A	.	PASS	BUB1B	exo	NM_	.	missens
ACaP13	15	76073327	.	G	T	.	PASS	.	inte	NR_dis	.	.
ACaP13	16	11051861	.	T	C	.	PASS	CLEC1f	intrc	NM_	.	.

ACaP13	16	17292440	.	A	T	.	PASS	XYLT1	intrc	NM_	.	.
ACaP13	16	29675597	.	C	T	.	PASS	SPN	exo	NM_	.	missens
ACaP13	16	31374294	rs1450253	C	T	.	PASS	ITGAX	exo	NM_	.	synonyr
ACaP13	16	67995561	.	C	G	.	PASS	SLC12A	exo	NM_	.	missens
ACaP13	16	69966926	rs1135006	G	A	.	PASS	WWP2	intrc	NM_	.	.
ACaP13	17	2282453	rs7673846	G	A	.	PASS	SGSM2	exo	NM_	.	missens
ACaP13	17	9757917	rs7606360	C	T	.	PASS	GLP2R	exo	NM_	.	stopgair
ACaP13	17	10212819	.	G	A	.	PASS	MYH13	intrc	NM_	.	.
ACaP13	17	27031537	rs5549220	G	A	.	PASS	PROCA	intrc	NM_	.	.
ACaP13	17	42988034	.	A	G	.	PASS	GFAP	intrc	NM_	.	.
ACaP13	17	67075243	.	G	T	.	PASS	ABCA6	intrc	NM_	.	.
ACaP13	17	80861278	rs7400170	C	T	.	PASS	TBCD	spl c	NM_	NM_	.
ACaP13	18	14183901	rs7837587	T	A	.	PASS	ANKRD	ncR	NR_	.	.
ACaP13	18	43328304	.	C	G	.	PASS	SLC14A	intrc	NM_	.	.
ACaP13	18	51795778	.	G	A	.	PASS	.	ups	NM_	.	.
ACaP13	18	57677517	rs1466769	G	A	.	PASS	.	inte	NM_	dis	.
ACaP13	18	65945459	rs5634889	C	T	.	PASS	.	inte	NR_	dis	.
ACaP13	19	1048907	.	C	T	.	PASS	ABCA7	exo	NM_	.	synonyr
ACaP13	19	8809037	.	G	A	.	PASS	ACTL9	exo	NM_	.	synonyr
ACaP13	19	12057823	.	A	G	.	PASS	ZNF700	intrc	NM_	.	.
ACaP13	19	14749271	.	G	A	.	PASS	EMR3	intrc	NM_	.	.
ACaP13	19	19971642	.	C	G	.	PASS	.	inte	NM_	dis	.
ACaP13	19	22778387	.	G	A	.	PASS	.	ups	NR_	.	.
ACaP13	19	22836947	.	A	C	.	PASS	ZNF492	intrc	NM_	.	.
ACaP13	19	36387520	.	C	T	.	PASS	NFKBID	intrc	NM_	.	.
ACaP13	19	37785301	rs7125437	C	G	.	PASS	.	inte	NR_	dis	.
ACaP13	19	51646206	rs1820521	G	A	.	PASS	SIGLEC	intrc	NM_	.	.
ACaP13	20	3052800	.	C	T	.	PASS	OXT	exo	NM_	.	synonyr
ACaP13	20	3641469	.	G	A	.	PASS	GFRA4	exo	NM_	.	stopgair
ACaP13	20	8696907	.	T	A	.	PASS	PLCB1	spl c	NM_	NM_	.
ACaP13	20	61050353	.	G	A	.	PASS	GATA5	exo	NM_	.	synonyr
ACaP13	21	9873828	rs7964453	C	G	.	PASS	.	inte	NR_	dis	.
ACaP13	21	11020702	rs3735529	C	A	.	PASS	.	dow	NM_	.	.
ACaP13	21	11181987	rs7280383	T	C	.	PASS	.	inte	NM_	dis	.
ACaP13	21	22791110	.	G	T	.	PASS	NCAM2	intrc	NM_	.	.
ACaP13	21	36080332	rs7738143	C	T	.	PASS	CLIC6	exo	NM_	.	synonyr
ACaP13	21	45432440	rs5510648	C	T	.	PASS	TRAPP	(exo	NM_	.	synonyr
ACaP13	21	47320950	.	G	A	.	PASS	PCBP3	exo	NM_	.	missens
ACaP13	21	47419581	.	G	A	.	PASS	COL6A1	exo	NM_	.	missens
ACaP13	22	16230100	rs1262847	G	A	.	PASS	.	inte	NR_	dis	.
ACaP13	22	22973384	rs86008	A	G	.	PASS	.	dow	NR_	.	.
ACaP13	22	30783120	.	C	A	.	PASS	RNF215	exo	NM_	.	synonyr
ACaP13	X	10181697	.	T	C	.	PASS	CLCN4	intrc	NM_	.	.
ACaP13	X	18189250	rs7787173	C	T	.	PASS	BEND2	exo	NM_	.	missens
ACaP13	X	49962162	.	C	T	.	PASS	AKAP4	intrc	NM_	.	.
ACaP13	X	65719566	.	C	T	.	PASS	.	inte	NM_	dis	.
ACaP13	X	69898849	.	T	C	.	PASS	TEX11	intrc	NM_	.	.
ACaP13	X	70764432	.	C	T	.	PASS	OGT	exo	NM_	.	missens
ACaP13	X	1.01E+08	.	G	A	.	PASS	TCEAL6	intrc	NM_	.	.
ACaP13	X	1.01E+08	.	C	T	.	PASS	.	inte	NM_	dis	.
ACaP13	X	1.24E+08	rs9176062	C	T	.	PASS	.	inte	NM_	dis	.
ACaP13	X	1.51E+08	rs9279180	G	A	.	PASS	.	inte	NM_	dis	.
ACaP13	X	1.53E+08	.	C	T	.	PASS	IRAK1	exo	NM_	.	missens
ACaP14	1	18149614	rs3718451	G	A	.	PASS	ACTL8	exo	NM_	.	synonyr

ACaP14	1	27618712	.	T	A	.	PASS	WDTC1	exon NM_	stopgain
ACaP14	1	34684254	rs7678484	C	T	.	PASS	C1orf94	intron NM_	.
ACaP14	1	35260564	rs7603609	G	A	.	PASS	GJA4	exon NM_	synonym
ACaP14	1	44323919	.	G	A	.	PASS	ST3GAL1	intron NM_	.
ACaP14	1	45811623	.	G	T	.	PASS	TESK2	exon NM_	missense
ACaP14	1	64515280	.	G	C	.	PASS	ROR1	intron NM_	.
ACaP14	1	65332484	.	G	T	.	PASS	JAK1	intron NM_	.
ACaP14	1	1.1E+08	.	G	A	.	PASS	AMPD2	exon NM_	missense
ACaP14	1	1.12E+08	rs7547967	T	G	.	PASS	PIFO	intron NM_	.
ACaP14	1	1.43E+08	rs7528408	C	T	.	PASS	.	intron NR_dis	.
ACaP14	1	1.45E+08	rs2009307	C	T	.	PASS	NBPF2C	intron NM_	.
ACaP14	1	1.45E+08	rs3726923	A	G	.	PASS	NBPF2E	ncR NR_	.
ACaP14	1	1.45E+08	rs8799825	G	T	.	PASS	NBPF2F	ncR NR_	.
ACaP14	1	2.02E+08	.	T	G	.	PASS	PTPN7	intron NM_	.
ACaP14	1	2.28E+08	rs7756172	C	T	.	PASS	OBSCN	intron NM_	.
ACaP14	2	1491745	rs7587514	C	T	.	PASS	TPO	exon NM_	missense
ACaP14	2	1.7E+08	.	G	A	.	PASS	LRP2	UTR NM_NM	.
ACaP14	2	1.8E+08	.	A	C	.	PASS	MIR548	ncR NR_	.
ACaP14	2	1.97E+08	rs1411611	C	T	.	PASS	STK17E	intron NM_	.
ACaP14	3	48677416	rs1156481	C	T	.	PASS	CELSR3	exon NM_	missense
ACaP14	3	1.12E+08	.	A	G	.	PASS	SLC9C1	intron NM_	.
ACaP14	3	1.43E+08	.	C	A	.	PASS	PCOLCE	intron NM_	.
ACaP14	3	1.84E+08	.	C	T	.	PASS	ABCC5	exon NM_	missense
ACaP14	4	628481	.	T	A	.	PASS	PDE6B	exon NM_	missense
ACaP14	4	875824	.	C	T	.	PASS	GAK	exon NM_	missense
ACaP14	4	2357633	rs7307061	T	C	.	PASS	ZFYVE2	intron NM_	.
ACaP14	4	9245302	rs8796734	A	G	.	PASS	.	upsilon NM_	.
ACaP14	4	94128702	rs7690288	C	G	.	PASS	GRID2	intron NM_	.
ACaP14	4	1.6E+08	.	T	G	.	PASS	RXFP1	intron NM_	.
ACaP14	4	1.68E+08	rs1003755	G	A	.	PASS	.	intron NM_dis	.
ACaP14	5	9136477	.	G	C	.	PASS	SEMA5	intron NM_	.
ACaP14	5	80256656	.	G	A	.	PASS	RASGR	exon NM_	synonym
ACaP14	5	1.12E+08	.	G	A	.	PASS	APC	exon NM_	missense
ACaP14	5	1.41E+08	.	G	C	.	PASS	PCDHG	ncR NR_	.
ACaP14	5	1.59E+08	.	C	A	.	PASS	EBF1	intron NM_	.
ACaP14	5	1.68E+08	.	T	A	.	PASS	WWC1	exon NM_	synonym
ACaP14	6	28295175	.	G	T	.	PASS	ZSCAN3	exon NM_	missense
ACaP14	6	31138300	rs7589117	C	T	.	PASS	POU5F1	exon NM_	missense
ACaP14	6	57393271	.	T	A	.	PASS	PRIM2	intron NM_	.
ACaP14	6	85472394	.	G	A	.	PASS	TBX18	exon NM_	missense
ACaP14	6	1.68E+08	rs441907	T	C	.	PASS	.	intron NM_dis	.
ACaP14	7	83675581	.	C	G	.	PASS	SEMA3	intron NM_	.
ACaP14	7	93116217	.	G	C	.	PASS	CALCR	intron NM_	.
ACaP14	7	1.13E+08	.	C	T	.	PASS	C7orf60	exon NM_	synonym
ACaP14	8	7215692	.	A	T	.	PASS	ZNF705	exon NM_	missense
ACaP14	8	1.13E+08	.	T	C	.	PASS	CSMD3	exon NM_	missense
ACaP14	8	1.34E+08	.	T	C	.	PASS	NDRG1	intron NM_	.
ACaP14	9	14116261	.	G	A	.	PASS	NFIB	exon NM_	stopgain
ACaP14	9	1.08E+08	.	C	T	.	PASS	FKTN	exon NM_	stopgain
ACaP14	9	1.26E+08	.	C	T	.	PASS	OR1L6	exon NM_	synonym
ACaP14	10	29770662	.	A	C	.	PASS	SVIL	intron NM_	.
ACaP14	10	49200211	rs3125109	G	A	.	PASS	.	intron NR_dis	.
ACaP14	10	72531001	.	G	A	.	PASS	TBATA	UTR NM_NM	.
ACaP14	10	74452957	rs7905448	T	A	.	PASS	MCU	intron NM_	.

ACaP14	10	92678882	.	C	A	.	PASS	ANKRD	intrc	NM_	.	.
ACaP14	10	1.12E+08	rs7646688	A	G	.	PASS	MXI1	exo	NM_	.	missens
ACaP14	10	1.17E+08	.	G	A	.	PASS	ATRNL	intrc	NM_	.	.
ACaP14	11	6588138	.	C	T	.	PASS	DNHD1	exo	NM_	.	missens
ACaP14	11	51459427	.	C	A	.	PASS	.	inte	NM_dis	.	.
ACaP14	11	76750853	rs3775202	C	T	.	PASS	B3GNT	exo	NM_	.	unknow
ACaP14	11	89701788	.	C	T	.	PASS	TRIM64	exo	NM_	.	synonyr
ACaP14	11	1.08E+08	rs7690752	G	A	.	PASS	.	inte	NM_dis	.	.
ACaP14	11	1.17E+08	rs7585846	G	A	.	PASS	SIDT2	exo	NM_	.	missens
ACaP14	12	26809244	.	C	T	.	PASS	ITPR2	exo	NM_	.	synonyr
ACaP14	12	49391553	.	T	G	.	PASS	DDN	exo	NM_	.	missens
ACaP14	12	54974891	.	A	G	.	PASS	PPP1R1	intrc	NM_	.	.
ACaP14	13	28543079	.	C	T	.	PASS	CDX2	exo	NM_	.	missens
ACaP14	14	19806361	rs2259899	C	A	.	PASS	.	inte	NR_dis	.	.
ACaP14	14	20132225	rs2014187	G	T	.	PASS	.	inte	NM_dis	.	.
ACaP14	14	69259663	.	G	A	.	PASS	ZFP36L	exo	NM_	.	missens
ACaP14	15	54793046	.	C	G	.	PASS	UNC13C	exo	NM_	.	missens
ACaP14	16	1270525	rs7764738	C	T	.	PASS	CACNA	exo	NM_	.	missens
ACaP14	16	23702864	.	G	C	.	PASS	ERN2	intrc	NM_	.	.
ACaP14	16	74422830	rs2013540	C	A	.	PASS	.	inte	NR_dis	.	.
ACaP14	18	12197920	rs7502623	A	C	.	PASS	.	inte	NM_dis	.	.
ACaP14	19	6963763	rs7589667	C	T	.	PASS	EMR4P	ncR	NR_	.	.
ACaP14	19	10116382	.	C	A	.	PASS	COL5A3	exo	NM_	.	missens
ACaP14	19	41285709	.	A	T	.	PASS	MIA-RA	ncR	NR_	.	.
ACaP14	19	46521260	.	G	T	.	PASS	CCDC6	intrc	NM_	.	.
ACaP14	19	46811870	.	G	A	.	PASS	HIF3A	intrc	NM_	.	.
ACaP14	19	56052730	rs9019919	G	A	.	PASS	SBK3	exo	NM_	.	missens
ACaP14	20	10036169	.	C	G	.	PASS	ANKEF	exo	NM_	.	missens
ACaP14	20	10036179	rs7770803	G	C	.	PASS	ANKEF	exo	NM_	.	missens
ACaP14	20	34827993	rs7792821	C	T	.	PASS	AAR2	exo	NM_	.	missens
ACaP14	21	34960922	.	G	A	.	PASS	DONSO	exo	NM_	.	missens
ACaP14	22	30689936	.	C	T	.	PASS	TBC1D1	exo	NM_	.	missens
ACaP14	X	20152233	.	G	A	.	PASS	EIF1AX	intrc	NM_	.	.
ACaP14	X	25048192	.	G	T	.	PASS	.	inte	NM_dis	.	.
ACaP14	X	47426131	.	C	T	.	PASS	ARAF	exo	NM_	.	synonyr
ACaP14	X	54011864	.	C	A	.	PASS	PHF8	intrc	NM_	.	.
ACaP14	X	1.02E+08	.	C	G	.	PASS	BEX1	intrc	NM_	.	.
ACaP14	X	1.07E+08	.	C	T	.	PASS	TSC22E	UTF	NM_NV	.	.
ACaP14	X	1.35E+08	.	G	C	.	PASS	DDX26E	intrc	NM_	.	.
ACaP14	X	1.37E+08	.	C	T	.	PASS	ZIC3	exo	NM_	.	synonyr
ACaP14	X	1.54E+08	.	A	G	.	PASS	F8	intrc	NM_	.	.
ACaP14	X	1.55E+08	rs4013617	G	A	.	PASS	.	inte	NM_dis	.	.
ACaP14	MT	11126	.	G	A	.	PASS	.	inte	NOI_dis	.	.



AAChal	Genecode	wgRna	cytc	targ	tfbs	genomicSt	Repe	avsnp150	co	clinva	gwasCa	1000g2l	1000g2l
.	ENST0000.	.	1p3.	.	Score=0.9f.	.	rs6264213	ID.	.	.	.	.	.
.	ENST0000.	.	1p3.	.	Score=0.9f.	.	rs8798212	ID.	.	.	.	.	.
.	ENST0000.	.	1p3.	.	.	.	.	.	.	.	.	.	.
.	ENST0000.	.	1p3.	.	.	.	Score	rs2011489	ID.	.	.	.	.
PTCHC	ENST0000.	.	1p3.	Sc.	.	.	.	rs7706792	ID.	.	.	.	.
.	ENST0000.	.	1p3.	.	.	.	.	.	.	.	.	.	.
.	ENST0000.	.	1p3.	.	Score=0.9f.	.	.	rs7573447	ID.	.	.	.	.
.	ENST0000.	.	1p3.	.	Score=0.9f.	.	.	.	.	.	.	.	.
.	ENST0000.	.	1p3.	.	Score=0.9f.	.	.	rs643011	.	.	.	.	.
.	.	.	1p3.	.	Score=0.9f.	.	.	rs1891369	ID.	.	.	.	.
.	ENST0000.	.	1p3.	.	.	.	.	Score	rs7967920	ID.	.	.	.
.	ENST0000.	.	1p3.	.	.	.	.	.	.	.	.	.	.
.	ENST0000.	.	1p3.	.	.	.	.	rs3699237	.	.	.	.	.
.	ENST0000.	.	1p3.	.	.	.	.	.	.	.	.	.	.
.	ENST0000.	.	1p3.	.	.	.	.	.	.	.	.	.	.
.	ENST0000.	.	1p1.	Sc.	.	.	.	.	.	.	.	.	.
.	.	.	1p1.	.	.	.	.	Score.	.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	.	.	rs1809861	ID.	.	.	.	.
.	.	.	1q2.	.	Score=0.9f.	.	.	rs3742168	ID.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	Score	rs1409433	.	.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	.	.	rs7967822	ID.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	.	.	rs7763460	ID.	.	.	.	.
.	.	.	1q2.	.	Score=0.9f.	.	.	.	.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	.	.	rs1694653	.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	.	.	rs1129555	ID.	.	.	.	.
.	.	.	1q2.	.	Score=0.9f.	Score	rs3732644	.	.	.	.	.	0.023
PDE4D	ENST0000.	.	1q2.	Sc	Score=0.9f.	.	.	.	.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	Score	rs2691756	.	.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	.	.	.	.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	.	.	ID.	.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	.	.	ID.	.	.	.	.	.
.	ENST0000.	.	1q2.	.	.	.	.	rs1932337	.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	.	.	.	.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	.	.	rs2837929	ID.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	.	.	rs2983273	ID.	.	.	.	0.002
PGLYR	ENST0000.	.	1q2.	.	.	.	.	rs3740307	ID.	.	.	.	.
.	ENST0000.	.	1q2.	.	Score=0.9f.	Score	rs1674785	ID.	.	.	.	.	0.672
FCGR2	ENST0000.	.	1q2.	.	Score=0.9f.	.	.	rs1485348	.	.	.	.	.
POU2F	ENST0000.	.	1q2.	Sc.	.	.	.	rs7598068	.	.	.	.	.
.	ENST0000.	.	1q3.	.	.	.	.	.	.	.	.	.	.
.	ENST0000.	.	1q4.	.	.	.	.	Score.	.	.	.	.	.
.	ENST0000.	.	1q4.	.	.	.	.	.	.	.	.	.	.
CEP17l	ENST0000.	.	1q4.	Sc	Score=0.9f.	.	.	rs2006447	ID.	.	.	.	.
.	.	.	1q4.	.	Score=0.9f.	.	.	rs3739868	ID.	.	.	.	.
.	.	.	1q4.	.	Score=0.9f.	.	.	rs1782199	ID.	.	.	.	.
.	.	.	2p1.	.	.	.	.	Score	rs3461159	ID.	.	.	0.005
.	.	.	2p1.	.	Score=0.9f.	Score	rs8689209	ID.	.	.	.	.	.
.	ENST0000.	.	2p1.	.	Score=0.9f.	Score.	.	.	.	.	.	.	.
IL1R1:†	ENST0000.	.	2q1.	.	.	.	.	.	.	.	.	.	.
.	ENST0000.	.	2q1.	.	Score=0.9f.	Score	rs3877497	ID.	.	.	.	.	.

. ENST0000.	2q1.	.	.	Score rs1037863.	.	.	.	.
POTEF ENST0000.	2q2.	.	Score=0.9	rs1839843 ID.	.	.	.	0.688
POTEF ENST0000.	2q2.	.	Score=0.9	ID.	.	.	.	.
. ENST0000.	2q2.	.	.	.	.	.	.	.
ZEB2:1 ENST0000.	2q2.	Sc.	.	.	.	.	.	.
. ENST0000.	2q3.	.	.	.	.	.	.	.
MARS2 ENST0000.	2q3.	.	.	.	.	.	.	.
PLEKH ENST0000.	2q3.	Sc.	.	.	.	.	.	.
. ENST0000.	2q3.	.	.	rs7812258.	.	.	.	.
. ENST0000.	2q3.	.	.	rs1010785 ID.	.	.	.	.
. ENST0000.	2q3.	.	.	rs7526847.	.	.	.	.
. ENST0000.	3p2.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	.	.	.	.	.	.
KAT2B ENST0000.	3p2.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	.	.	.	.	.	.
SCN10 ENST0000.	3p2.	.	.	rs1450320.	Uncer.	.	.	.
SCN10 ENST0000.	3p2.	.	.	rs1398610.	Uncer.	.	.	.
PDZRN ENST0000.	3p1.	Sc.	.	ID.	.	.	.	.
OR5H1 ENST0000.	3q1.	Sc	Score=0.8	rs1126455 ID.	.	.	.	0.001
. ENST0000.	3q1.	.	.	.	.	.	.	.
. ENST0000.	3q1.	.	.	rs7541975.	.	.	.	.
IFT57:1 ENST0000.	3q1.	.	.	rs3757741.	.	.	.	.
. ENST0000.	3q2.	.	.	ID.	.	.	.	.
. ENST0000.	3q2.	.	Score=0.9	rs6228513 ID.	.	.	.	.
. .	3q2.	.	Score=0.9	Score.	.	.	.	.
. ENST0000.	4p1.	.	.	rs4970287 ID.	.	.	.	.
. ENST0000.	4q2.	.	.	.	.	.	.	.
. .	4q2.	.	.	Score rs3764069.	.	.	.	.
. .	4q2.	.	Score=0.9	Score rs7963572.	.	.	.	.
FREM3 ENST0000.	4q3.	.	.	rs9542709 ID.	.	.	.	.
. ENST0000.	4q3.	.	.	rs3721454.	.	.	.	.
TRIML ENST0000.	4q3.	.	.	ID.	.	.	.	.
. ENST0000.	5p1.	.	Score=0.9	Score rs649883.	.	.	.	.
. ENST0000.	5p1.	.	Score=0.9	Score rs1467072.	.	.	.	.
. ENST0000.	5p1.	.	.	.	.	.	.	.
. ENST0000.	5p1.	.	Score=0.9	Score rs1500138 ID.	.	.	.	.
. ENST0000.	5p1.	.	.	.	.	.	.	.
. ENST0000.	5q1.	.	Score=0.9	rs7962294 ID.	.	.	.	.
. ENST0000.	5q1.	.	Score=0.9	.	.	.	.	.
. ENST0000.	5q2.	.	.	.	.	.	.	.
CAMK4 ENST0000.	5q2.	.	.	rs7609290.	.	.	.	.
. ENST0000.	5q3.	.	.	.	.	.	.	.
PCDHC ENST0000.	5q3.	.	.	rs7647428.	.	.	.	.
. ENST0000.	5q3.	.	Score=0.9	Score rs1407436 ID.	.	.	.	.
. ENST0000.	5q3.	.	Score=0.9	rs7380674.	.	.	.	.
. ENST0000.	6p2.	.	.	rs5568001.	.	.	.	0.001
GSTA1 ENST0000.	6p1.	.	Score=0.9	rs3977792.	.	.	.	.
. ENST0000.	6p1.	.	Score=0.9	.	.	.	.	.
PHIP:1 ENST0000.	6q1.	.	.	.	.	.	.	.
. ENST0000.	6q1.	.	Score=0.9	rs9844362.	.	.	.	.
. ENST0000.	6q1.	.	Score=0.9	.	.	.	.	.
. ENST0000.	6q2.	.	.	Score rs9992807.	.	.	.	.
ARMC2 ENST0000.	6q2.	.	.	.	.	.	.	.
SLC2A ENST0000.	6q2.	.	.	rs7554849.	.	.	.	.

. ENST0000.	6q2.	.	.	.	.	.	.	.	.
ADGB: ENST0000.	6q2.	.	.	rs7747387.	.	.	.	.	.
. ENST0000.	6q2.	.	Score=0.92	Score rs1467177 ID.	.	.	.	.	.
. ENST0000.	7p2.	.	.	.	.	.	.	.	.
. ENST0000.	7p2.	.	.	Score rs7308136 ID.	.	.	.	.	.
. ENST0000.	7p1.	.	.	.	.	.	.	.	.
. ENST0000.	7p1.	.	Score=0.91	.	.	.	.	.	.
. ENST0000.	7p1.	.	Score=0.91	rs7911953.	.	.	.	.	0.091
. ENST0000.	7p1.	.	Score=0.91	ID.	.	.	.	.	0.045
. ENST0000.	7p1.	.	Score=0.91	.	.	.	.	.	.
ZNF71: ENST0000.	7p1.	.	Score=0.81	.	.	.	.	.	.
. ENST0000.	7q1.	.	.	Score rs4311554 ID.	.	.	.	.	.
. ENST0000.	7q1.	.	Score=0.91	.	.	.	.	.	.
. ENST0000.	7q1.	.	Score=0.91	.	.	.	.	.	.
. ENST0000.	7q1.	.	Score=0.91	rs5467260.	.	.	.	.	0.022
. ENST0000.	7q1.	.	Score=0.91	ID.	.	.	.	.	.
. ENST0000.	7q1.	.	Score=0.91	rs8688020 ID.	.	.	.	.	.
. ENST0000.	7q1.	.	Score=0.91	Score rs8799757 ID.	.	.	.	.	.
. ENST0000.	7q2.	.	.	rs7686126.	.	.	.	.	.
. ENST0000.	7q2.	.	Score=0.91	rs3727203 ID.	.	.	.	.	.
POT1: ENST0000.	7q3.	Sc.	.	rs7809364.	.	.	.	.	.
SSME: ENST0000.	7q3.	.	.	ID.	.	.	.	.	.
KMT2C: ENST0000.	7q3.	.	Score=0.91	rs7754267 ID.	.	.	.	.	.
KMT2C: ENST0000.	7q3.	Sc	Score=0.91	rs1499922 ID.	.	.	.	.	.
. ENST0000.	7q3.	.	Score=0.91	Score.	.	.	.	.	.
. ENST0000.	7q3.	.	.	Score rs1407758 ID.	.	.	.	.	.
. ENST0000.	7q3.	.	.	Score rs1482637 ID.	.	.	.	.	.
. ENST0000.	8p2.	.	Score=0.91	.	.	.	.	.	.
. ENST0000.	8p2.	.	.	.	.	.	.	.	.
. ENST0000.	8p2.	.	.	.	.	.	.	.	.
KCTD9: ENST0000.	8p2.	Sc.	.	.	.	.	.	.	.
. ENST0000.	8p1.	.	.	Score rs1813428.	.	.	.	.	.
. ENST0000.	8p1.	.	.	Score rs2022368 ID.	.	.	.	.	.
. ENST0000.	8q1.	.	.	.	.	.	.	.	.
. ENST0000.	8q2.	.	.	rs1837720 ID.	.	.	.	.	.
. ENST0000.	9p1.	.	Score=0.91	rs1329860 ID.	.	.	.	.	.
. ENST0000.	9q1.	.	Score=0.91	rs2954515.	.	.	.	.	.
. ENST0000.	9q1.	.	Score=0.91	rs1968548.	.	.	.	.	.
. ENST0000.	9q1.	.	Score=0.91	rs2019611 ID.	.	.	.	.	.
. ENST0000.	9q1.	.	Score=0.81	Score rs4928839.	.	.	.	.	.
. ENST0000.	9q2.	.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	Score=0.91	rs2868900.	.	.	.	.	.
ENG: N ENST0000.	9q3.	.	.	.	.	.	.	.	.
FNBP1: ENST0000.	9q3.	.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.	.
DBH: N ENST0000.	9q3.	.	.	rs7694907.	.	.	.	.	.
HSPA1: ENST0000.	10p.	.	.	.	.	.	.	.	.
. ENST0000.	10p.	.	.	Score rs1051909.	.	.	.	.	.
MYO3A: ENST0000.	10p.	.	.	ID.	.	.	.	.	.
MYO3A: ENST0000.	10p.	Sc.	.	.	.	.	.	.	.
UNKNC: ENST0000.	10p.	.	Score=0.91	rs7531795 ID.	.	.	.	.	.
SVIL: N ENST0000.	10p.	.	.	rs5566342.	.	.	.	.	.
. ENST0000.	10p.	.	Score=0.91	rs1759036 ID.	.	.	.	.	.
. ENST0000.	10p.	.	Score=0.91	.	.	.	.	.	.

. ENST0000.	10p.	. Score=0.97.	rs1494650 ID.	. . .	. . .
. ENST0000.	10p.	. Score=0.96.	rs5524339.	. . .	0.001
. ENST0000.	10q.	. Score=0.96.	rs7827248 ID.	. . .	. . .
RBP3:1 ENST0000.	10q.	. . .	rs7821206.	. . .	. . .
. ENST0000.	10q.	. . .	. . .	. . .	. . .
ATOH7 ENST0000.	10q.	. . .	. . .	. . .	. . .
TET1:1 ENST0000.	10q.	. . .	rs1810812 ID.	. . .	. . .
STOX1 ENST0000.	10q.	. . .	rs1852770.	. . .	. . .
. ENST0000.	10q.	. Score=0.97.	. . .	. . .	. . .
. ENST0000.	10q.	Sc.	. . .	. . .	. . .
. ENST0000.	10q.	. . .	rs9002476 ID.	. . .	. . .
. ENST0000.	10q.	. . .	Score.	. . .	. . .
. ENST0000.	10q.	. . .	rs1028763.	. . .	. . .
. ENST0000.	11p.	. . .	. . .	. . .	. . .
. ENST0000.	11p.	. . .	Score rs7615769 ID.	. . .	. . .
. ENST0000.	11p.	. . .	Score.	. . .	. . .
. . .	11p.	. Score=0.96.	. . .	. . .	. . .
. ENST0000.	11q.	. . .	. . .	. . .	. . .
PRKR11 ENST0000.	11q.	. Score=0.96.	. ID.	. . .	. . .
. ENST0000.	11q.	. Score=0.97.	. . .	. . .	. . .
. ENST0000.	11q.	. Score=0.97.	. . .	. . .	. . .
USP35 ENST0000.	11q.	. . .	rs7614089.	. . .	. . .
HEPHL ENST0000.	11q.	Sc.	rs1438612 ID.	. . .	. . .
SIK2:1 ENST0000.	11q.	. . .	. . .	. . .	. . .
OR10S ENST0000.	11q.	. . .	rs7757345 ID.	. . .	. . .
. ENST0000.	11q.	. . .	rs2512286.	. . .	0.164
. ENST0000.	12p.	. Score=0.96.	rs5382343 ID.	. . .	0.375
. ENST0000.	12p.	. Score=0.96.	rs8799828.	. . .	. . .
SLC6A ENST0000.	12p.	. . .	. . .	. . .	. . .
. ENST0000.	12p.	. . .	Score rs8681434 ID.	. . .	. . .
. ENST0000.	12p.	. Score=0.96.	rs2575282.	. . .	. . .
. ENST0000.	12q.	. . .	. . .	. . .	. . .
. ENST0000.	12q.	. . .	Score.	. . .	. . .
BIN2:1 ENST0000.	12q.	. . .	. . .	. . .	. . .
. ENST0000.	12q.	. Score=0.97.	. . .	. . .	. . .
. ENST0000.	12q.	. Score=0.89.	. . .	. . .	. . .
CHST1 ENST0000.	12q.	Sc.	rs1043870 ID.	. . .	. . .
. ENST0000.	12q.	. . .	Score.	. . .	. . .
. ENST0000.	12q.	. . .	. . .	. . .	. . .
PCDH1 ENST0000.	13q.	. . .	. . .	. . .	. . .
. ENST0000.	14q.	. Score=0.96.	. ID.	. . .	. . .
. ENST0000.	14q.	. Score=0.96.	rs2014705 ID.	. . .	. . .
. . .	14q.	. Score=0.96.	rs8794601 ID.	. . .	. . .
. ENST0000.	14q.	. Score=0.96.	. . .	. . .	. . .
. ENST0000.	14q.	. Score=0.96.	rs8674109.	. . .	. . .
KLHL3: ENST0000.	14q.	Sc.	. . .	. . .	. . .
. . .	14q.	. . .	. . .	. . .	. . .
. . .	14q.	. . .	. . .	. . .	. . .
. ENST0000.	14q.	. . .	. . .	. . .	. . .
. . .	14q.	. . .	. . .	. . .	. . .
. ENST0000.	14q.	. . .	. . .	. . .	. . .
SYNE2 ENST0000.	14q.	. . .	rs7732738 ID.	. . .	. . .
. ENST0000.	14q.	. Score=0.96.	. . .	. . .	. . .
. . .	14q.	. Score=0.96.	Score rs2897118.	. . .	. . .

. ENST0000.	14q.	. Score=0.9	. rs3681255 ID.	. . .
. . .	14q.	. Score=0.9	. rs6199969 ID.	. . .
. ENST0000.	15q.	. Score=0.9	. . . . .	. . .
. ENST0000.	15q.	. Score=0.9	. Score.	. . .
. . .	15q.	. Score=0.9	. rs3749240 ID.	. . .
. ENST0000.	15q.	. Score=0.9	. . . . .	. . .
. ENST0000.	15q.	. Score=0.9	. . . . .	. . .
. ENST0000.	15q.	. Score=0.9	. ID.	. . .
. . .	15q.	. Score=0.9	. rs7964394.	. . .
. . .	15q.	. Score=0.9	. . . . .	. . .
. . .	15q.	. Score=0.9	. rs7126232.	. . . 0.384
NPAP1 ENST0000.	15q.	. . . . .	. ID.	. . .
ATP10 ENST0000.	15q.	Sc.	. . . . .	. . .
GOLG ENST0000.	15q.	. Score=0.9	. rs7695754 ID.	. . .
APBA2 ENST0000.	15q.	Sc.	. . . . .	. . .
. ENST0000.	15q.	. Score=0.9	. ID.	. . .
. ENST0000.	15q.	. Score=0.9	. . . . .	. . .
. ENST0000.	15q.	. Score=0.9	. rs8658676.	. . .
. ENST0000.	15q.	. Score=0.9	. . . . .	. . .
. ENST0000.	15q.	. . . . .	. Score rs3683923 ID.	. . .
. ENST0000.	15q.	. . . . .	. rs3741666.	. . .
. ENST0000.	15q.	. Score=0.9	. . . . .	. . .
. ENST0000.	15q.	. Score=0.9	. rs5743805.	. . . 0.002
GOLG ENST0000.	15q.	. Score=0.9	. rs1998088 ID.	. . .
GOLG ENST0000.	15q.	. Score=0.9	. rs3775649 ID.	. . .
. ENST0000.	15q.	. Score=0.9	. rs6202866 ID.	. . .
. ENST0000.	16p.	. . . . .	. rs7561426.	. . .
. ENST0000.	16p.	. . . . .	. Score. ID.	. . .
CORO ENST0000.	16p.	Sc.	. rs7464587.	. . .
ZNF64 ENST0000.	16p.	. . . . .	. . . . .	. . .
. ENST0000.	16p.	. Score=0.9	. rs2018870 ID.	. . .
. . .	16q.	. . . . .	. Score rs4643347.	. . .
. . .	16q.	. . . . .	. Score rs4535017.	. . .
. . .	16q.	. . . . .	. Score rs2128471.	. . .
. . .	16q.	. . . . .	. Score rs2888787.	. . .
. . .	16q.	. . . . .	. Score rs4355081.	. . .
. . .	16q.	. . . . .	. Score rs4249097.	. . .
. . .	16q.	. . . . .	. Score rs4232920 ID.	. . .
. . .	16q.	. . . . .	. Score rs7970299.	. . .
. . .	16q.	. . . . .	. Score rs1483332.	. . .
. . .	16q.	. . . . .	. Score rs9972801.	. . .
. . .	16q.	. . . . .	. Score rs2878607.	. . .
. . .	16q.	. . . . .	. Score rs4249050.	. . .
. . .	16q.	. . . . .	. Score rs4250282.	. . .
. . .	16q.	. . . . .	. Score rs7198709.	. . .
. . .	16q.	. . . . .	. Score rs4445923.	. . .
. . .	16q.	. . . . .	. Score rs4450416 ID.	. . .
. . .	16q.	. . . . .	. Score.	. . .
. . .	16q.	. . . . .	. Score rs8056404.	. . .
. . .	16q.	. . . . .	. Score rs8056672 ID.	. . .
. . .	16q.	. . . . .	. Score rs6152895.	. . .
. . .	16q.	. . . . .	. Score rs2884801.	. . .
. ENST0000.	16q.	. . . . .	. . . . .	. . .
CBFB ENST0000.	16q.	Sc.	. . . ID.	. . .

			Score.	ID.		
.	16q.	.	.	.	.	.
ZNF469	ENST0000.	16q.	Sc.	.	.	.
PRPF8	ENST0000.	17p.	.	rs7801100.	.	.
SPATA	ENST0000.	17p.	Sc.	.	.	.
CHD31	ENST0000.	17p.	Sc.	rs3687584.	.	.
.	ENST0000.	17p.	.	.	.	.
.	ENST0000.	17p.	Score=0.9	rs1845094.	.	.
.	ENST0000.	17p.	.	.	.	.
.	ENST0000.	17p.	Score=0.9	.	.	.
.	.	17p.	Score=0.9	Score.	.	.
.	ENST0000.	17p.	Score=0.9	rs4503851.	.	.
.	.	17p.	.	Score rs1462263	ID.	.
.	.	17p.	.	Score rs4362423	ID.	.
.	.	17p.	.	Score rs6565430.	.	.
.	.	17p.	.	Score rs1434103.	.	.
.	.	17p.	.	Score.	.	.
.	ENST0000.	17q.	.	Score rs8916657.	.	.
.	ENST0000.	17q.	.	Score rs1167082.	.	0.001
.	ENST0000.	17q.	.	.	.	.
.	ENST0000.	17q.	.	rs1459625	ID.	.
.	ENST0000.	17q.	Score=0.9	rs1724395.	.	.
.	ENST0000.	17q.	.	.	.	.
.	ENST0000.	17q.	.	Score.	.	.
.	ENST0000.	17q.	.	.	.	.
EPB411	ENST0000.	18p.	.	.	.	.
.	ENST0000.	18p.	Score=0.9	rs5374020	ID.	.
.	ENST0000.	18p.	Score=0.9	rs2012257	ID.	.
.	.	19q.	Score=0.9	Score.	.	.
.	.	19q.	Score=0.9	Score rs7125437.	.	.
.	.	19q.	Score=0.9	Score.	.	.
.	ENST0000.	19q.	Score=0.9	Score.	ID.	.
.	ENST0000.	19q.	Score=0.9	.	.	.
.	ENST0000.	19q.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.
NLRP5	ENST0000.	19q.	.	.	.	.
.	.	19q.	.	Score rs8677343.	.	.
.	ENST0000.	20q.	.	.	.	.
.	ENST0000.	20q.	.	.	.	.
.	ENST0000.	21p.	Score=0.9	Score rs8795581.	.	.
.	ENST0000.	21p.	Score=0.9	rs8661396	ID.	.
.	.	21p.	Score=0.9	.	.	.
.	ENST0000.	21p.	Score=0.9	Score rs7532385	ID.	.
.	ENST0000.	21p.	Score=0.9	Score rs3737231.	.	.
.	.	21p.	Score=0.9	.	.	.
.	ENST0000.	22q.	Score=0.9	rs2003402.	.	.
.	ENST0000.	22q.	Score=0.9	rs2818474	ID.	0.103
UNKNC	ENST0000.	22q.	.	rs5464921	ID.	.
.	ENST0000.	22q.	.	rs9350299.	.	.
.	ENST0000.	22q.	Score=0.9	rs4050109.	.	.
.	ENST0000.	22q.	Score=0.9	.	.	.
.	ENST0000.	22q.	Score=0.9	.	.	.
.	ENST0000.	22q.	.	.	.	.
.	ENST0000.	22q.	.	.	.	.



.	ENST0000.	1q2.	.	.	rs8790889.	.	.	.	.
.	ENST0000.	1q4.	.	.	.	.	.	.	.
.	ENST0000.	1q4.	.	Score=0.9	Score.	.	.	.	.
.	.	1q4.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	1q4.	.	.	.	.	.	.	.
.	ENST0000.	2p2.	.	.	.	.	.	.	.
.	.	2p1.	.	Score=0.9	Score rs1020943 ID.	.	.	.	.
.	ENST0000.	2p1.	.	Score=0.9	Score.	.	.	.	.
.	ENST0000.	2p1.	.	Score=0.9	Score rs2004118 ID.	.	.	.	.
.	ENST0000.	2q1.	.	Score=0.9	rs2021466 ID.	.	.	.	.
.	ENST0000.	2q1.	.	Score=0.9	rs3694799 ID.	.	.	.	.
RGPD4	ENST0000.	2q1.	.	Score=0.9	rs5416674 ID.	.	.	.	0.002
.	ENST0000.	2q1.	.	Score=0.9	rs1053772.	.	.	.	.
.	ENST0000.	2q1.	.	Score=0.9	ID.	.	.	.	.
.	.	2q2.	.	Score=0.9	rs5382277.	.	.	.	0.001
.	ENST0000.	2q2.	.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	.	rs1875087.	.	.	.	0.003
TTN:NI	ENST0000.	2q3.	.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	.	.	.	.	.	.
COL4A	ENST0000.	2q3.	.	.	rs1509794.	Benigl.	.	.	0.026
NGEF:II	ENST0000.	2q3.	.	.	ID.	.	.	.	.
.	.	2q3.	.	Score=0.9	rs7970263.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
MST1:II	ENST0000.	3p2.	.	Score=0.9	rs6777426 ID.	.	.	.	.
.	ENST0000.	3p2.	.	Score=0.9	rs6779963 ID.	.	.	.	.
UNKNC	ENST0000.	3p1.	.	.	rs5472981.	.	.	.	.
.	ENST0000.	3p1.	.	.	.	.	.	.	.
.	ENST0000.	3q2.	.	Score=0.9	.	.	.	.	.
PIK3C/I	ENST0000.	3q2.	.	Score=0.9	rs1219132 ID: Patho.	.	.	.	.
.	ENST0000.	3q2.	.	.	.	.	.	.	.
GMNC:II	ENST0000.	3q2.	.	.	.	.	.	.	.
.	ENST0000.	3q2.	.	Score.	.	.	.	.	.
.	ENST0000.	3q2.	.	Score=0.9	rs4857535.	.	.	.	.
.	ENST0000.	4p1.	.	.	.	.	.	.	.
USP17/II	ENST0000.	4p1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	4p1.	.	Score=0.9	.	.	.	.	.
.	.	4p1.	.	Score=0.9	rs7961122.	.	.	.	.
.	ENST0000.	4p1.	.	.	.	.	.	.	.
.	.	4p1.	.	Score=0.9	Score.	ID.	.	.	.
.	ENST0000.	4q1.	.	.	.	.	.	.	.
PRDM8	ENST0000.	4q2.	.	.	Score rs3705413.	.	.	.	.
UNKNC	ENST0000.	4q2.	.	.	.	.	.	.	.
.	ENST0000.	4q2.	.	.	.	.	.	.	.
.	ENST0000.	4q2.	.	.	.	.	.	.	.
GYPB:II	ENST0000.	4q3.	.	Score=0.9	rs2016625 ID.	.	.	.	.
.	ENST0000.	4q3.	.	.	.	.	.	.	.
ZFP42:II	ENST0000.	4q3.	.	.	rs7619626.	.	.	.	.
.	ENST0000.	5p1.	.	Score=0.9	rs8684061 ID.	.	.	.	.
.	ENST0000.	5p1.	.	.	.	.	.	.	.
.	.	5p1.	.	Score=0.9	Score.	.	.	.	.
.	ENST0000.	5p1.	.	Score=0.9	Score.	.	.	.	.
.	.	5q1.	.	.	Score rs8659304 ID.	.	.	.	.



.	.	5q1.	.	Score rs1335780 ID:	.	.	.
.	.	5q1.	.	Score rs1483787 ID:	.	.	0.018
.	ENST0000.	5q1.	Sc	Score.	.	.	.
.	ENST0000.	5q1.	.	Score rs1416874.	.	.	0.425
.	ENST0000.	5q3.	.	.	.	.	.
.	ENST0000.	5q3.	.	Score rs7284112.	.	.	.
.	ENST0000.	5q3.	.	rs1829546.	.	.	.
STK19:	ENST0000.	6p2.	Sc	Score=0.9 rs7743469 ID:	.	.	0.027
.	ENST0000.	6p2.	.	Score=0.9 rs1403232.	.	.	0.149
.	ENST0000.	6p2.	.	Score rs7596914.	.	.	.
.	.	6p1.	.	Score rs4928651 ID:	.	.	.
DSE:NI	ENST0000.	6q2.	Sc	Score=0.9.	.	.	.
.	ENST0000.	7p2.	.	.	.	.	.
.	ENST0000.	7p1.	.	rs7467237.	.	.	.
NACAL	ENST0000.	7p1.	.	rs7762925 ID:	.	.	.
.	.	7p1.	.	Score=0.9 Score.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9 rs1422600.	.	.	.
.	.	7q1.	.	Score rs4460255.	.	.	.
.	.	7q1.	.	Score=0.9.	.	.	.
.	.	7q1.	.	Score=0.9 rs3740384.	.	.	.
.	.	7q1.	.	Score=0.9 rs8672068.	.	.	.
.	.	7q1.	.	Score=0.9.	.	.	.
.	.	7q1.	.	Score=0.9.	.	.	.
.	.	7q1.	.	Score=0.9.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9 Score rs5541523.	.	.	0.011
.	ENST0000.	7q2.	.	Score=0.9 Score rs3757000.	.	.	.
GPR85	ENST0000.	7q3.	Sc	.	.	.	.
.	ENST0000.	7q3.	.	Score.	.	.	.
.	ENST0000.	7q3.	.	.	.	.	.
.	ENST0000.	7q3.	.	.	.	.	.
.	ENST0000.	7q3.	.	rs8681384 ID:	.	.	.
.	ENST0000.	8p2.	.	.	.	.	.
.	.	8p2.	.	Score=0.9 Score rs3989791 ID:	.	.	.
.	.	8p2.	.	Score=0.9.	.	.	.
RP1L1:	ENST0000.	8p2.	.	rs7469289 ID:	.	.	.
.	.	8p2.	.	Score=0.9 rs7595500.	.	.	.
.	ENST0000.	8p2.	.	.	.	.	.
.	ENST0000.	8p2.	.	.	.	.	.
.	.	8q1.	.	Score.	.	.	.
.	.	8q1.	.	Score rs4440644.	.	.	.
.	ENST0000.	8q2.	.	Score.	.	.	.
.	ENST0000.	8q2.	.	.	.	.	.
.	ENST0000.	8q2.	.	.	.	.	.
.	ENST0000.	9p2.	.	rs5356927.	.	.	.
.	ENST0000.	9p1.	.	rs5620843.	.	.	.
CNTNA	ENST0000.	9p1.	Sc	Score=0.9 rs1412360 ID:	.	.	.
.	ENST0000.	9p1.	.	Score=0.9 rs3755065 ID:	.	.	.
.	.	9p1.	.	Score=0.9 Score rs5368523.	.	.	0.002
.	ENST0000.	9q1.	.	Score=0.9 rs7792676.	.	.	.
.	.	9q1.	.	Score=0.9 rs1968548.	.	.	.
.	ENST0000.	9q1.	Sc	Score=0.9 rs6254382 ID:	.	.	0.37
.	ENST0000.	9q2.	.	ID:	.	.	.
.	.	9q3.	.	rs5781745.	.	.	.



.	ENST0000.	14q.	Sc.	.	.	.	.	.	.	.	.
C14orf	ENST0000.	14q.	.	.	.	.	.	.	.	.	.
RBM25	ENST0000.	14q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	Score.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	rs9310230	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	15q.	.	Score=0.9	rs2259724	.	.	.	.	.	.
.	ENST0000.	15q.	.	Score=0.9	rs2648130	.	.	.	.	.	.
.	ENST0000.	15q.	.	Score=0.9	rs2015085	.	.	.	.	.	.
.	ENST0000.	15q.	.	Score=0.9	rs2007357 ID:	.	.	.	.	.	.
UNKNC	ENST0000.	15q.	Sc.	.	.	.	.	.	.	.	.
VPS18:	ENST0000.	15q.	Sc.	.	.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	Score.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	15q.	.	Score.	.	.	.	.	.	.	.
.	ENST0000.	15q.	.	Score=0.9	ID:	.	.	.	.	.	.
.	ENST0000.	15q.	.	Score=0.9	rs1401448 ID:	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	Score rs8788873	.	.	.	.	.	.
.	ENST0000.	15q.	.	Score=0.9	rs2870850 ID:	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	.	.	.	.	.	.	.
ADAM1	ENST0000.	15q.	.	.	rs7724699	.	.	.	.	.	.
.	ENST0000.	15q.	.	Score=0.9	ID:	.	.	.	.	.	.
.	ENST0000.	16p.	.	Score=0.9	rs7760391 ID:	.	.	.	.	.	.
.	ENST0000.	16p.	Sc.	.	.	.	.	.	.	.	.
.	ENST0000.	16p.	Sc.	.	.	.	.	.	.	.	.
SRCAF	ENST0000.	16p.	Sc.	.	.	.	.	.	.	.	.
.	ENST0000.	16p.	.	Score=0.9	rs2111615	.	.	.	.	.	.
.	ENST0000.	16p.	.	Score=0.9	rs1123661	.	.	.	.	.	.
.	ENST0000.	16p.	.	.	.	.	.	.	.	.	.
.	ENST0000.	16p.	.	.	rs5547762	.	.	.	.	.	.
.	.	16p.	.	.	Score rs3718897	.	.	.	.	.	.
.	.	16q.	.	.	Score rs4967312 ID:	.	.	.	.	.	.
.	.	16q.	.	.	Score rs4270195 ID:	.	.	.	.	.	.
.	.	16q.	.	.	Score rs4347658	.	.	.	.	.	.
.	.	16q.	.	.	Score rs4246399	.	.	.	.	.	.
.	.	16q.	.	.	Score rs5908263	.	.	.	.	.	.
.	.	16q.	.	.	Score rs4249045	.	.	.	.	.	.
.	.	16q.	.	.	Score rs7188365 ID:	.	.	.	.	.	.
.	.	16q.	.	.	Score rs4249050	.	.	.	.	.	.
.	.	16q.	.	.	Score rs4505355	.	.	.	.	.	.
.	.	16q.	.	.	Score rs1244825	.	.	.	.	.	.
.	.	16q.	.	.	rs1393031 ID:	.	.	.	.	.	.
.	.	16q.	.	.	rs5614462	.	.	.	.	.	.
.	.	16q.	.	.	Score rs4967197	.	.	.	.	.	.
.	.	16q.	.	.	Score rs4450416 ID:	.	.	.	.	.	.
.	.	16q.	.	.	Score rs8056404	.	.	.	.	.	.
.	.	16q.	.	.	Score rs4246356	.	.	.	.	.	.
.	.	16q.	.	.	Score rs8052624	.	.	.	.	.	.
.	.	16q.	.	.	Score rs4249654	.	.	.	.	.	.
.	.	16q.	.	.	Score rs2885782	.	.	.	.	.	.
.	.	16q.	.	.	Score rs6153388	.	.	.	.	.	.
.	.	16q.	.	.	Score.	.	.	.	.	.	.

.	.	.	16q.	.	.	Score rs2875315	.	.	.	.
.	.	.	16q.	.	.	Score.	.	.	.	.
.	.	.	16q.	.	.	Score rs1479181	.	.	.	.
.	.	.	16q.	.	.	Score rs8677676	.	.	.	.
.	ENST0000.	.	16q.	.	Score=0.9	Score.	.	.	.	.
HP:NM	ENST0000.	.	16q.	.	Score=0.9	rs1891151	.	.	.	0.003
.	ENST0000.	.	16q.	.	Score=0.9	rs1291890 ID:	.	.	.	0.259
.	ENST0000.	.	16q.	.	.	.	.	.	.	.
ACSF3	ENST0000.	.	16q.	.	.	.	.	.	.	.
ACSF3	ENST0000.	.	16q.	.	.	rs7697160	.	.	.	.
.	ENST0000.	.	16q.	.	Score=0.9	rs7945920	.	.	.	.
.	ENST0000.	.	16q.	.	Score=0.9	rs3697515 ID:	.	.	.	.
.	ENST0000.	.	16q.	.	Score=0.9	rs5596034 ID:	.	.	.	0.752
XAF1:1	ENST0000.	.	17p.	.	.	.	.	.	.	.
.	ENST0000.	.	17p.	.	.	.	.	.	.	.
.	ENST0000.	.	17p.	.	.	.	.	.	.	.
.	ENST0000.	.	17p.	.	.	.	.	.	.	.
.	ENST0000.	.	17p.	.	.	rs9806119	.	.	.	.
.	ENST0000.	.	17p.	.	.	rs7571703	.	.	.	.
.	ENST0000.	.	17p.	.	Score=0.9	rs1460005 ID:	.	.	.	.
.	ENST0000.	.	17p.	.	Score=0.9	rs2168782 ID:	.	.	.	0.171
.	.	.	17p.	.	Score=0.9	Score.	.	.	.	.
.	.	.	17p.	.	.	Score rs4362423 ID:	.	.	.	.
.	.	.	17p.	.	.	Score rs4283255 ID:	.	.	.	.
.	.	.	17p.	.	.	Score rs1403689	.	.	.	.
.	.	.	17p.	.	.	Score rs1405621	.	.	.	.
.	ENST0000.	.	17q.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	.	17q.	.	Score=0.9	rs7126069	.	.	.	.
.	ENST0000.	.	17q.	.	Score=0.9	rs573849	.	.	.	.
.	ENST0000.	.	17q.	.	Score=0.9	rs9693530	.	.	.	.
.	ENST0000.	.	17q.	.	Score=0.9	Score.	.	.	.	.
.	ENST0000.	.	17q.	.	.	.	.	.	.	.
.	ENST0000.	.	17q.	.	Score.	.	.	.	.	.
.	ENST0000.	.	17q.	.	Score=0.9	rs7516213	.	.	.	.
AXIN2:	ENST0000.	.	17q.	Sc.	.	rs7607356	Likely	.	.	.
SEC14	ENST0000.	.	17q.	.	.	.	.	.	.	.
.	ENST0000.	.	17q.	.	.	.	.	.	.	.
.	ENST0000.	.	17q.	.	.	rs1138327	.	.	.	.
.	ENST0000.	.	17q.	.	.	Score rs8791354	.	.	.	.
.	.	.	18p.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	.	18p.	.	Score=0.9	rs8658406 ID:	.	.	.	.
.	ENST0000.	.	18p.	.	Score=0.9	rs8676712	.	.	.	.
.	ENST0000.	.	19p.	.	.	.	.	.	.	.
.	.	.	19p.	.	.	rs3756184	.	.	.	.
.	ENST0000.	.	19p.	.	.	.	.	.	.	.
.	ENST0000.	.	19p.	.	.	.	.	.	.	.
PNPLA	ENST0000.	.	19p.	.	.	rs5460066	.	.	.	.
.	ENST0000.	.	19p.	.	.	.	.	.	.	.
.	ENST0000.	.	19q.	.	.	.	.	.	.	.
.	ENST0000.	.	19q.	.	.	.	.	.	.	.
.	.	.	19q.	.	Score=0.9	Score rs2385185	.	.	.	.
.	.	.	19q.	.	Score=0.9	Score rs7125437	.	.	.	.
.	ENST0000.	.	19q.	.	.	.	.	.	.	.
.	ENST0000.	.	19q.	.	Score=0.8	rs1390553	.	.	.	0.204

FPR1:ENST0000.	19q.	.	.	rs7714460.	.	.	.	.
. ENST0000.	19q.	.	Score=0.9	rs1785512 ID.	.	.	.	0.601
. .	19q.	.	.	rs9207323.	.	.	.	.
RRBP1 ENST0000.	20p.	Sc.	.	.	.	.	.	.
. ENST0000.	20p.	.	Score.	.	.	.	.	.
ACSS1 ENST0000.	20p.	Sc.	.	rs7787265 ID.	.	.	.	.
. ENST0000.	20p.	.	.	rs3775467.	.	.	.	.
. ENST0000.	20q.	.	Score=0.9	ID.	.	.	.	.
. ENST0000.	20q.	.	.	.	.	.	.	.
. ENST0000.	20q.	.	Score.	.	.	.	.	.
BIRC7: ENST0000.	20q.	.	.	.	.	.	.	.
. .	21p.	.	Score=0.9	Score rs3747993.	.	.	.	.
. .	21p.	.	Score=0.9	Score rs3730978.	.	.	.	.
. .	21p.	.	Score=0.9	Score rs2927801 ID.	.	.	.	.
. ENST0000.	21p.	.	Score=0.9	rs1996169.	.	.	.	.
. ENST0000.	21p.	.	Score=0.9	Score rs8789866 ID.	.	.	.	.
. .	21p.	.	Score=0.9	rs4358221.	.	.	.	.
. .	21p.	.	Score=0.9	.	.	.	.	.
. .	21q.	.	Score	rs8664333.	.	.	.	.
. ENST0000.	21q.	.	Score	rs7967544 ID.	.	.	.	.
TRAPP ENST0000.	21q.	Sc.	.	.	.	.	.	.
. ENST0000.	21q.	.	.	.	.	.	.	.
. .	21q.	.	Score=0.9	.	.	.	.	.
TBX1:ENST0000.	22q.	Sc.	Score.	.	.	.	.	.
. ENST0000.	22q.	.	Score=0.9	rs3702204.	.	.	.	.
. ENST0000.	22q.	.	Score=0.9	rs1119554.	.	.	.	0.134
. ENST0000.	22q.	.	Score=0.9	rs1880252.	.	.	.	0.018
. ENST0000.	22q.	.	Score=0.9	ID.	.	.	.	.
VCX:NI ENST0000.	Xp2.	.	Score=0.9	rs1637792 ID.	.	.	.	.
. ENST0000.	Xp2.	.	.	.	.	.	.	.
DCAF8 ENST0000.	Xp2.	.	Score=0.9	.	.	.	.	.
. .	Xp2.	.	.	.	.	.	.	.
FAM47 ENST0000.	Xp2.	.	.	rs7740495 ID.	.	.	.	.
. ENST0000.	Xp1.	.	.	.	.	.	.	.
. ENST0000.	Xp1.	.	.	.	.	.	.	.
. .	Xq1.	.	Score.	.	.	.	.	.
. .	Xq1.	.	Score	rs8686279.	.	.	.	.
. .	Xq1.	.	Score.	.	.	.	.	.
. .	Xq1.	.	Score.	ID.	.	.	.	.
MED12 ENST0000.	Xq1.	.	.	.	.	.	.	.
GPRA5 ENST0000.	Xq2.	.	.	.	.	.	.	.
. .	Xq2.	.	Score.	.	.	.	.	.
. ENST0000.	Xq2.	.	.	.	.	.	.	.
. ENST0000.	Xq2.	.	.	.	.	.	.	.
. ENST0000.	Xq2.	.	.	.	.	.	.	.
. ENST0000.	Xq2.	.	.	rs9883463.	.	.	.	.
. ENST0000.	Xq2.	.	Score.	.	.	.	.	.
. ENST0000.	Xq2.	.	.	rs7821231 ID.	.	.	.	.
. ENST0000.	Xq2.	.	.	.	.	.	.	.
. .	Yq1.	.	Score=0.9	rs3769023 ID.	.	.	.	.
. .	.	.	.	.	.	.	.	.
. .	.	.	.	rs1057516).	Uncer.	.	.	.
. ENST0000.	1p3.	.	Score=0.9	ID.	.	.	.	.
. ENST0000.	1p3.	.	Score=0.9	Score.	.	.	.	.

TP73:NE	ENST0000.	1p3.	Sc.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	rs7579432.	.	.	.	.
.	ENST0000.	1p3.	Score=0.9f.	.	rs5565927.	.	.	.	0.002
.	ENST0000.	1p3.	Score=0.9f.	.	rs7619917 ID.	.	.	.	.
.	ENST0000.	1p3.	Score=0.9f.	.	rs663828.	.	.	.	.
.	ENST0000.	1p3.	Score=0.9f.	.	rs646524 ID.	.	.	.	.
.	ENST0000.	1p3.	Score=0.9f.	.	rs4596945.	.	.	.	0.247
.	ENST0000.	1p3.	Score=0.9f.	.	rs2296161 ID.	.	.	.	.
EMC1:J	ENST0000.	1p3.	.	.	rs5616387.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	Score rs9490484.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
ERICH:	ENST0000.	1p3.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
NHLH2	ENST0000.	1p1.	.	.	.	.	.	.	.
.	ENST0000.	1q2.	Score=0.9f.	Score rs1409433.	.	.	.	.	.
.	ENST0000.	1q2.	Score=0.9f.	Score rs2022010.	.	.	.	.	.
.	ENST0000.	1q2.	Score=0.9f.	.	rs7763460 ID.	.	.	.	.
.	.	1q2.	Score=0.9f.	.	rs1457064.	.	.	.	.
.	ENST0000.	1q2.	Score=0.9f.	.	.	.	.	.	.
.	.	1q2.	Score=0.9f.	.	rs1148852 ID.	.	.	.	.
.	ENST0000.	1q2.	.	.	rs3746294.	.	.	.	0.051
.	ENST0000.	1q2.	Score=0.9f.	.	rs3675661 ID.	.	.	.	.
.	ENST0000.	1q2.	Score=0.9f.	.	rs7986155 ID.	.	.	.	.
MEX3A	ENST0000.	1q2.	.	.	rs7593611 ID.	.	.	.	.
OR6P1	ENST0000.	1q2.	Sc.	.	.	.	.	.	.
.	ENST0000.	1q3.	.	.	.	.	.	.	.
PPFIA4	ENST0000.	1q3.	.	.	rs7508890.	.	.	.	.
LEFTY	ENST0000.	1q4.	Score=0.9f.	.	rs1454313 ID.	.	.	.	0.216
OR6F1	ENST0000.	1q4.	.	.	rs3720052 ID.	.	.	.	.
.	.	1q4.	Score=0.9f.	.	rs8789457 ID.	.	.	.	.
VSNL1	ENST0000.	2p2.	.	.	.	.	.	.	.
.	ENST0000.	2p1.	.	.	.	.	.	.	.
LRRTM	ENST0000.	2p1.	.	.	.	.	.	.	.
.	ENST0000.	2p1.	Sc	Score=0.9f.	rs2013675 ID.	.	.	.	.
.	ENST0000.	2p1.	Score=0.9f.	.	.	.	.	.	.
.	ENST0000.	2q2.	.	.	Score.	.	.	.	.
.	ENST0000.	2q3.	.	.	Score rs1473449 ID.	.	.	.	.
ITGA4:	ENST0000.	2q3.	.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	.	.	.	.	.	.
.	.	2q3.	Score=0.9f.	Score.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	Score rs1050893 ID.	.	.	.	.
.	ENST0000.	3p2.	.	.	Score.	.	.	.	.
.	ENST0000.	3p1.	.	.	rs1178604.	.	.	.	0.006
.	.	3p1.	.	.	Score rs3744125 ID.	.	.	.	.
.	ENST0000.	3p1.	.	.	Score rs1451899.	.	.	.	0.081
.	ENST0000.	3q2.	.	.	.	.	.	.	.
.	ENST0000.	3q2.	.	.	.	.	.	.	.
.	ENST0000.	3q2.	.	.	.	.	.	.	.
ARMC8	ENST0000.	3q2.	Sc.	.	.	.	.	.	.
PIK3C7	ENST0000.	3q2.	.	.	rs1057519 ID: Likely.	.	.	.	.
PIK3C7	ENST0000.	3q2.	Score=0.9f.	.	rs1048860 ID: Patho.	.	.	.	.
.	ENST0000.	3q2.	.	.	.	.	.	.	.
ZFYVE	ENST0000.	4p1.	.	.	rs3725657 ID.	.	.	.	.

.	ENST0000.	4p1.	.	.	.	.	.	.	.
.	.	4p1.	.	Score=0.9	rs8796734.	.	.	.	.
.	.	4p1.	.	Score=0.9	rs5941177.	.	.	.	.
NPFFR	ENST0000.	4q1.	.	.	.	.	.	.	.
.	ENST0000.	4q3.	.	Score.	.	.	.	.	.
.	ENST0000.	5p1.	.	Score=0.9	rs4288119 ID.	.	.	.	.
.	ENST0000.	5p1.	.	Score=0.9	rs8669155 ID.	.	.	.	.
JADE2:	ENST0000.	5q3.	.	.	rs7765625.	.	.	.	.
.	.	5q3.	.	Score	rs5593800 ID.	.	.	.	0.391
.	ENST0000.	5q3.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	6p2.	.	Score.	.	.	.	.	.
HLA-B:	ENST0000.	6p2.	.	Score=0.8	rs1513411.	.	.	.	.
EHMT2	ENST0000.	6p2.	Sc.	.	.	.	.	.	.
PPARC	ENST0000.	6p2.	.	.	rs7668272.	.	.	.	.
.	ENST0000.	6p1.	.	.	.	.	.	.	.
.	ENST0000.	6p1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	6q1.	.	.	.	.	.	.	.
.	ENST0000.	7p2.	.	Score=0.8	.	.	.	.	.
.	ENST0000.	7p1.	.	.	.	.	.	.	.
HECW:	ENST0000.	7p1.	.	.	ID.	.	.	.	.
.	ENST0000.	7p1.	.	.	.	.	.	.	.
.	.	7p1.	.	Score=0.9	.	.	.	.	.
.	.	7p1.	.	Score=0.9	rs1439657.	.	.	.	0.189
.	ENST0000.	7p1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9	rs8799634 ID.	.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9	rs2002309 ID.	.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	rs2018986 ID.	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	Score.	ID.	.	.	.
GNAI1:	ENST0000.	7q2.	.	.	.	.	.	.	.
SAMD	ENST0000.	7q2.	.	.	.	.	.	.	.
PDK4:	ENST0000.	7q2.	.	.	rs2676016.	.	.	.	.
.	ENST0000.	7q2.	.	.	rs1826826.	.	.	.	.
.	ENST0000.	7q3.	.	Score	rs1409779.	.	.	.	.
.	ENST0000.	7q3.	Sc.	Score.	.	.	.	.	.
.	ENST0000.	7q3.	.	Score=0.9	.	.	.	.	.
.	.	7q3.	.	Score	rs7962502.	.	.	.	.
ANGPT	ENST0000.	8p2.	.	.	.	.	.	.	.
.	.	8p2.	.	Score=0.9	rs3763515 ID.	.	.	.	.
.	ENST0000.	8p2.	.	Score=0.9	rs5673338.	.	.	.	0.203
.	ENST0000.	8p2.	.	.	.	.	.	.	.
.	ENST0000.	8q2.	.	.	.	.	.	.	.
.	ENST0000.	8q2.	.	.	.	.	.	.	.
.	ENST0000.	8q2.	.	Score	rs5609552 ID.	.	.	.	0.027
.	ENST0000.	9p2.	.	.	.	.	.	.	.
.	ENST0000.	9p1.	.	Score	rs1463382 ID.	.	.	.	0.003
.	.	9p1.	.	Score=0.9	rs7495042 ID.	.	.	.	.
.	ENST0000.	9q1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	9q1.	.	Score=0.9	rs7714176.	.	.	.	.
.	ENST0000.	9q1.	.	Score=0.8	rs4452915 ID.	.	.	.	.
.	ENST0000.	9q1.	.	Score=0.8	rs7492487 ID.	.	.	.	.

. ENST0000.	9q2.	. Score=0.9!	rs391727 . . . .	0.32
. . . .	9q2.	. . . .	. . . .	
. ENST0000.	9q2.	. . . .	. . . .	
. ENST0000.	9q3.	. Score=0.9!	Score rs2855049 ID: . . . .	
NOTCH1 ENST0000.	9q3.	. . . .	rs7771119. Likely . . . .	
CAMK1 ENST0000.	10p.	. . . .	. . . .	
. ENST0000.	10p.	. . . .	. . . .	
. ENST0000.	10p.	. . . .	rs7747854 . . . .	
. ENST0000.	10p.	. Score=0.9!	rs1759035 ID: . . . .	
. . . .	10q.	. Score=0.9!	rs3125109 ID: . . . .	
. ENST0000.	10q.	. . . .	Score. . . .	
VCL:N ENST0000.	10q.	Sc. . . .	rs2018088. . . .	
. ENST0000.	10q.	. Score=0.9!	. . . .	
. ENST0000.	10q.	. Score=0.9!	rs3128226 . . . .	0.524
. ENST0000.	10q.	. . . .	. . . .	
. ENST0000.	10q.	. . . .	Score. . . .	
. ENST0000.	10q.	Sc. . . .	rs5495128 . . . .	0.001
CPXM2 ENST0000.	10q.	Sc. . . .	. . . .	
. ENST0000.	11p.	. . . .	. . . .	
. ENST0000.	11q.	Sc. . . .	. . . .	
. ENST0000.	11q.	. Score=0.9!	Score. . . .	
. ENST0000.	12p.	. Score=0.9!	rs7827727 ID: . . . .	
. ENST0000.	12p.	. . . .	. . . .	
CHD4: ENST0000.	12p.	Sc. . . .	. . . .	
. ENST0000.	12p.	. . . .	. . . .	
. ENST0000.	12p.	. Score=0.9!	. . . .	
KRAS: ENST0000.	12p.	Sc. . . .	rs1219135 ID: Patho . . . .	
ITPR2: ENST0000.	12p.	. . . .	rs3731379 . . . .	
. ENST0000.	12p.	. Score=0.9!	rs4031316 ID: . . . .	
PUS7L ENST0000.	12q.	. . . .	rs5661873 ID: . . . .	
FAM18 ENST0000.	12q.	. . . .	rs9815586 ID: . . . .	
. ENST0000.	12q.	. . . .	rs1409167. . . .	0.006
. ENST0000.	12q.	. . . .	. . . .	
. ENST0000.	12q.	. . . .	Score rs1707911 . . . .	0.268
DDX51 ENST0000.	12q.	. . . .	rs7662808. . . .	
. ENST0000.	13q.	. Score=0.9!	rs9079318. . . .	
. ENST0000.	13q.	. . . .	. . . .	
FLT3:N ENST0000.	13q.	Sc. . . .	rs7666774 . . . .	
DCLK1 ENST0000.	13q.	. . . .	ID: . . . .	
. ENST0000.	13q.	. Score=0.9!	. . . .	
. ENST0000.	14q.	. Score=0.9!	rs2018046 ID: . . . .	
. ENST0000.	14q.	. Score=0.9!	rs4982820 . . . .	
. . . .	14q.	. Score=0.9!	Score rs2005137. . . .	
. ENST0000.	14q.	. Score=0.9!	. . . .	
. ENST0000.	14q.	. Score=0.9!	Score. . . .	
. ENST0000.	14q.	. Score=0.9!	rs3763109. . . .	
. ENST0000.	14q.	. . . .	. . . .	
. ENST0000.	14q.	. . . .	rs7592315 . . . .	
. . . .	14q.	. Score=0.9!	Score. . . .	
. ENST0000.	14q.	. Score=0.9!	rs7473295 ID: . . . .	
. . . .	15q.	. Score=0.9!	rs5686085 . . . .	0.001
. ENST0000.	15q.	. Score=0.9!	Score rs5761409 ID: . . . .	
. . . .	15q.	. Score=0.9!	Score rs3684417. . . .	



. ENST0000.	15q.	. Score=0.9	rs1130343	. . . . .	
. ENST0000.	15q.	. Score=0.9	rs1995519	. . . . .	
. ENST0000.	15q.	. Score=0.9	rs1836337	. . . . .	
. . . . .	15q.	. Score=0.9	rs3700524	. . . . .	
. ENST0000.	15q.	. Score=0.9	rs3766397	. . . . .	
. ENST0000.	15q.	. Score=0.9	.	. . . . .	
SPINT1	ENST0000.	15q.	Score	rs5573362	. . . . .
. ENST0000.	15q.	. . . . .	Score.	. . . . .	
GOLG/	ENST0000.	15q.	Score=0.9	rs7443087	ID: . . . . .
. ENST0000.	15q.	. Score=0.9	.	. . . . .	
IFT140	ENST0000.	16p.	. . . . .	. . . . .	
IL32:NM	ENST0000.	16p.	. . . . .	. . . . .	
. ENST0000.	16p.	. . . . .	. . . . .	. . . . .	
. ENST0000.	16p.	. Score=0.9	.	. . . . .	
. . . . .	16q.	. . . . .	Score	rs2887413	ID: . . . . .
. . . . .	16q.	. . . . .	Score	rs4966607	. . . . .
. . . . .	16q.	. . . . .	Score	rs4359628	. . . . .
. . . . .	16q.	. . . . .	Score	rs4249500	ID: . . . . .
. . . . .	16q.	. . . . .	Score	rs4372866	ID: . . . . .
. . . . .	16q.	. . . . .	Score	rs4396558	ID: . . . . .
. . . . .	16q.	. . . . .	Score	rs4249160	. . . . .
. . . . .	16q.	. . . . .	Score	rs4967780	ID: . . . . .
. . . . .	16q.	. . . . .	Score	rs7203681	. . . . .
. . . . .	16q.	. . . . .	Score	rs7826866	. . . . .
. . . . .	16q.	. . . . .	Score	rs4249045	. . . . .
. . . . .	16q.	. . . . .	Score	rs7188365	ID: . . . . .
. . . . .	16q.	. . . . .	Score	rs9972801	. . . . .
. . . . .	16q.	. . . . .	Score	rs4249048	. . . . .
. . . . .	16q.	. . . . .	Score	rs7823469	ID: . . . . .
. . . . .	16q.	. . . . .	rs1393031	ID: . . . . .	
. . . . .	16q.	. . . . .	Score	rs4090116	. . . . .
. . . . .	16q.	. . . . .	Score	rs4090115	ID: . . . . .
. . . . .	16q.	. . . . .	Score	rs4459567	. . . . .
. . . . .	16q.	. . . . .	Score	rs6133865	. . . . .
. . . . .	16q.	. . . . .	Score	rs4341908	. . . . .
. . . . .	16q.	. . . . .	Score	rs4451975	. . . . .
. . . . .	16q.	. . . . .	Score	rs7187636	ID: . . . . .
. ENST0000.	16q.	. Score=0.9	.	. . . . .	
PDPR:I	ENST0000.	16q.	Score=0.9	rs2004697	ID: not pri. . . . .
. ENST0000.	16q.	. Score	.	. . . . .	
FANCA	ENST0000.	16q.	. . . . .	. . . . .	
. ENST0000.	16q.	. . . . .	Score.	. . . . .	
. ENST0000.	17p.	. . . . .	Score.	. . . . .	
. ENST0000.	17p.	. . . . .	. . . . .	. . . . .	
. ENST0000.	17p.	. . . . .	. . . . .	. . . . .	
. . . . .	17p.	. . . . .	Score	rs1440233	ID: . . . . .
. . . . .	17p.	. . . . .	Score	rs4362423	ID: . . . . .
. . . . .	17q.	. Score=0.9	rs1409172	ID: . . . . .	0.223
. . . . .	17q.	. Score=0.9	rs3737234	. . . . .	0.212
ARHG/	ENST0000.	17q.	Score=0.9	ID: . . . . .	. . . . .
. ENST0000.	17q.	. Score=0.9	ID: . . . . .	. . . . .	. . . . .
. ENST0000.	17q.	. . . . .	Score	rs8679073	ID: . . . . .
. . . . .	17q.	. . . . .	Score.	. . . . .	. . . . .
. ENST0000.	17q.	. . . . .	Score.	. . . . .	. . . . .

CACNC	ENST0000.	17q.	.	.	rs7651139 ID.	.	.	.
.	ENST0000.	17q.	.	.	rs7754213.	.	.	.
.	ENST0000.	17q.	.	.	.	.	.	.
.	ENST0000.	17q.	.	.	rs5408783.	.	.	.
CCDC1	ENST0000.	17q.	.	.	.	.	.	.
.	ENST0000.	17q.	.	.	ID.	.	.	.
.	ENST0000.	17q.	.	.	rs3732207.	.	.	.
CIDEA:	ENST0000.	18p.	.	.	.	.	.	.
SEMA6	ENST0000.	19p.	.	.	rs7575217.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
.	.	19p.	.	.	Score=0.9† Score rs1492924 ID.	.	.	.
.	ENST0000.	19q.	.	.	Score rs1999730 ID.	.	.	.
.	.	19q.	.	.	Score=0.9† Score rs3762437.	.	.	.
.	.	19q.	.	.	Score=0.9† Score rs7125437.	.	.	.
SPTBN	ENST0000.	19q.	.	.	Score.	.	.	.
.	ENST0000.	19q.	.	.	Score.	.	.	.
.	ENST0000.	19q.	.	.	Score=0.9† ID.	.	.	.
PLA2G	ENST0000.	19q.	.	.	.	.	.	.
.	ENST0000.	19q.	.	.	Score=0.9† rs6212787 ID.	.	.	.
.	ENST0000.	19q.	.	.	Score.	.	.	.
.	ENST0000.	19q.	.	.	Score=0.9† rs5492748.	.	.	.
.	.	19q.	.	.	ID.	.	.	.
PRKCC	ENST0000.	19q.	.	.	rs7600928 ID.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.	.
ZNF814	ENST0000.	19q.	.	.	Score=0.9† rs7704038.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.	.
.	ENST0000.	20p.	Sc.	.	.	.	.	.
.	ENST0000.	20p.	.	.	.	.	.	.
.	ENST0000.	20p.	.	.	Score=0.9†.	.	.	.
.	ENST0000.	20q.	.	.	Score=0.9† rs9569348 ID.	.	.	.
.	ENST0000.	20q.	.	.	.	.	.	.
.	ENST0000.	21p.	.	.	Score=0.9† Score rs3772733.	.	.	.
.	ENST0000.	21p.	.	.	Score=0.9† rs9184726 ID.	.	.	.
.	.	21p.	.	.	Score=0.9† rs9266067.	.	.	.
.	.	21p.	.	.	Score=0.9† Score.	.	.	.
.	ENST0000.	21q.	.	.	.	.	.	.
.	ENST0000.	21q.	.	.	Score rs7967544 ID.	.	.	.
.	ENST0000.	22q.	.	.	Score=0.9† rs2019683.	.	.	.
.	ENST0000.	22q.	.	.	rs7543647.	.	.	.
.	ENST0000.	22q.	.	.	rs5711604.	.	.	0.005
.	ENST0000.	22q.	.	.	Score=0.9† rs1856371 ID.	.	.	0.016
MCM5:	ENST0000.	22q.	Sc.	.	rs3713772 ID.	.	.	.
.	ENST0000.	22q.	.	.	.	.	.	.
.	ENST0000.	22q.	.	.	.	.	.	.
.	ENST0000.	22q.	.	.	.	.	.	.
.	.	Xp2.	.	.	Score=0.9† Score rs6644312.	.	.	.
.	ENST0000.	Xp2.	.	.	Score rs2010857.	.	.	0.028
WWC3	ENST0000.	Xp2.	.	.	ID.	.	.	.
SRPX:	ENST0000.	Xp1.	.	.	rs7457127 ID.	.	.	.
.	ENST0000.	Xp1.	.	.	.	.	.	.
CACNA	ENST0000.	Xp1.	.	.	rs7825308 ID.	.	.	.

.	.	Xq1.	.	Score.	.	.	.	.
.	.	Xq1.	.	Score.	ID:	.	.	.
.	.	Xq1.	.	Score	rs7756689.	.	.	.
.	ENST0000.	Xq1.	.	.	rs2486782 ID:	.	.	0.005
AMOT:	ENST0000.	Xq2.	.	.	ID:	.	.	.
C1GAL	ENST0000.	Xq2.	Sc.	.	.	.	.	.
.	.	Xq2.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	rs1016097.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	Score=0.9	rs7802961 ID:	.	.	.
.	.	.	.	.	.	.	.	.
.	.	.	.	.	rs3868289.	.	.	.
.	.	.	.	.	.	.	.	.
ATAD3	ENST0000.	1p3.	Sc.	.	rs7466465.	.	.	.
.	ENST0000.	1p3.	.	Score=0.9	Score.	.	.	.
FBXO2	ENST0000.	1p3.	Sc.	.	rs1454709.	.	.	.
MAD2L	ENST0000.	1p3.	Sc.	.	.	.	.	.
.	ENST0000.	1p3.	.	Score=0.9	rs1440990.	.	.	.
.	.	1p3.	.	Score=0.9	Score rs1157686 ID:	.	.	0.096
.	.	1p3.	.	Score=0.9	.	.	.	.
.	ENST0000.	1p3.	.	Score=0.9	rs7511577 ID:	.	.	.
SH2D5	ENST0000.	1p3.	.	.	ID:	.	.	.
.	ENST0000.	1p3.	.	.	Score rs5551428.	.	.	.
GRHL3	ENST0000.	1p3.	.	.	rs1422489 ID:	.	.	0.001
.	ENST0000.	1p3.	.	Score=0.9	Score.	.	.	.
.	ENST0000.	1p3.	Sc.	.	.	.	.	.
UNKNC	ENST0000.	1p3.	.	.	rs7753177 ID:	.	.	.
SNIP1:	ENST0000.	1p3.	.	.	.	.	.	.
MACF1	ENST0000.	1p3.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	Score.	ID:	.	.
KLF17:	ENST0000.	1p3.	Sc	Score=0.9	rs7580073.	.	.	.
.	.	1p3.	.	Score=0.9	Score rs8662033 ID:	.	.	.
.	ENST0000.	1p3.	.	.	Score.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	Score.	.	.	.
.	ENST0000.	1p2.	.	.	.	.	.	.
.	ENST0000.	1p2.	.	.	.	.	.	.
.	ENST0000.	1p2.	.	.	.	.	.	.
.	ENST0000.	1p1.	.	.	rs7598590.	.	.	.
LOC64:	ENST0000.	1p1.	.	.	.	.	.	.
.	ENST0000.	1p1.	.	Score=0.9	rs2004173 ID:	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs1043712.	.	.	.
.	.	1q2.	.	Score=0.9	.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	Score rs2002777.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs7506054.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs1694653.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs4125366 ID:	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs6181199 ID:	.	.	.

.	.	1q2.	Score=0.9	rs8799948.	.	.	.
.	ENST0000.	1q2.	Score=0.9	rs482979	.	.	.
.	ENST0000.	1q2.	Score=0.9	rs2021032.	.	.	.
.	ENST0000.	1q2.	Score=0.9	rs2009700 ID.	.	.	.
.	ENST0000.	1q2.	Score=0.9	Score rs2003739.	.	.	.
.	ENST0000.	1q2.	Score=0.9	Score rs3705433.	.	.	.
.	ENST0000.	1q2.	Score=0.9	rs226753 ID.	.	.	.
.	ENST0000.	1q2.	Score=0.9	.	.	.	.
.	ENST0000.	1q2.	Score=0.9	rs2787777 ID.	.	.	0.325
.	.	1q2.	Score=0.9	rs3750007.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.
SLC50/	ENST0000.	1q2.	.	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.
PEAR1	ENST0000.	1q2.	Sc.	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.
ASPM:	ENST0000.	1q3.	.	.	.	.	.
.	ENST0000.	1q3.	.	Score rs1997462.	.	.	.
PLEKH	ENST0000.	1q3.	.	rs3692540.	.	.	.
C1orf1'	ENST0000.	1q4.	.	.	.	.	.
CAPN2	ENST0000.	1q4.	.	.	.	.	.
.	ENST0000.	1q4.	Score=0.9	.	.	.	.
.	ENST0000.	1q4.	.	rs7793949.	.	.	.
.	ENST0000.	2p2.	.	Score.	.	.	.
.	ENST0000.	2p2.	.	.	.	.	.
SF3B6:	ENST0000.	2p2.	.	.	.	.	.
.	ENST0000.	2p2.	.	.	.	.	.
.	ENST0000.	2p2.	.	Score.	.	.	.
SLC3A	ENST0000.	2p2.	.	.	.	.	.
.	ENST0000.	2p2.	.	.	.	.	.
.	ENST0000.	2p2.	.	.	.	.	.
.	ENST0000.	2p1.	.	.	.	.	.
.	ENST0000.	2p1.	.	.	.	.	.
.	ENST0000.	2p1.	.	.	ID.	.	.
.	ENST0000.	2p1.	Score=0.9	rs3764475.	.	.	.
PTCD3	ENST0000.	2p1.	.	rs1425097.	.	.	.
.	ENST0000.	2p1.	.	.	.	.	.
.	ENST0000.	2p1.	.	.	.	.	.
.	ENST0000.	2p1.	Sc	Score=0.9	rs8671368 ID.	.	.
.	ENST0000.	2p1.	Score=0.9	rs8674281 ID.	.	.	.
.	ENST0000.	2p1.	Score=0.9	.	.	.	.
.	.	2p1.	Score=0.9	Score rs1210470 ID.	.	.	.
.	.	2q1.	.	Score rs2015850 ID.	.	.	.
SLC9A:	ENST0000.	2q1.	.	.	ID.	.	.
.	ENST0000.	2q1.	.	.	.	.	.
.	ENST0000.	2q1.	.	.	.	.	.
.	ENST0000.	2q1.	.	rs6216365.	.	.	0.378
.	ENST0000.	2q1.	Sc	Score.	.	.	.
.	ENST0000.	2q2.	Score=0.9	.	.	.	.
POTEF	ENST0000.	2q2.	Score=0.9	rs1839843 ID.	.	.	0.688
.	ENST0000.	2q2.	Score=0.9	Score rs2001821.	.	.	.
.	ENST0000.	2q2.	Score=0.9	.	.	.	.

. ENST0000.	2q2.	.	.	.	.	.	.	.	.
. ENST0000.	2q2.	.	.	.	.	.	.	.	.
. ENST0000.	2q3.	.	.	.	.	.	.	.	.
CCDC1 ENST0000.	2q3.	.	.	.	.	ID.	.	.	.
. ENST0000.	2q3.	.	.	.	.	.	.	.	.
. ENST0000.	2q3.	.	.	Score.	.	.	.	.	.
. ENST0000.	2q3.	.	.	.	.	.	.	.	.
SP140: ENST0000.	2q3.	.	.	.	.	.	.	.	.
. ENST0000.	2q3.	.	.	.	.	.	.	.	.
. ENST0000.	2q3.	.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	Score=0.8	Score.	.	.	.	.	.
. ENST0000.	3p2.	.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	.	.	.	.	.	.	.
DYNC1 ENST0000.	3p2.	Sc.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	.	.	.	.	.	.	.
NDUFA ENST0000.	3p2.	.	.	.	.	.	.	.	.
NPRL2 ENST0000.	3p2.	Sc.	.	.	.	.	.	.	.
. ENST0000.	3p2.	Sc.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	.	rs7801345.	.	.	.	.	.
ITIH3: ENST0000.	3p2.	.	.	rs3677973.	.	.	.	.	.
. ENST0000.	3p1.	.	.	rs7454520.	.	.	.	.	.
. ENST0000.	3q1.	.	.	.	.	.	.	.	.
. ENST0000.	3q1.	.	.	rs1911937.	.	.	.	.	.
ZNF80: ENST0000.	3q1.	.	.	.	.	.	.	.	.
GPR15 ENST0000.	3q1.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
H1FX: ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
MBD4: ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
COL6A ENST0000.	3q2.	.	.	.	.	.	.	.	.
ATP2C ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	rs1469630.	.	.	.	.	.
FOXL2 ENST0000.	3q2.	Sc.	.	.	.	.	.	.	.
GRK7: ENST0000.	3q2.	.	.	ID.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	rs7613736.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
SLC2A: ENST0000.	3q2.	.	.	.	.	.	.	.	.
FNDC3 ENST0000.	3q2.	.	.	.	.	.	.	.	.
HTR3E ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	Score.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
. .	3q2.	.	Score=0.9	Score rs8795450.	.	.	.	.	.
. .	3q2.	.	Score=0.9	Score.	.	.	.	.	.
. ENST0000.	3q2.	.	Score=0.9	rs4927838 ID.	.	.	.	.	.
. ENST0000.	3q2.	Sc	Score=0.9	rs1739998 ID.	.	.	.	.	.
. ENST0000.	4p1.	.	.	Score rs4022005 ID.	.	.	.	.	.
SLC26: ENST0000.	4p1.	.	.	rs7518089.	.	.	.	.	.
PPARG ENST0000.	4p1.	.	.	rs7529426.	.	.	.	.	.

		4p1.	Score=0.9				
	ENST0000.	4p1.					
LIMCH	ENST0000.	4p1.					
		4p1.	Score=0.9	rs7541707	ID.		
	ENST0000.	4q1.					
	ENST0000.	4q1.		rs5423520			0.001
	ENST0000.	4q2.					
	ENST0000.	4q2.	Score=0.9	rs8789415	ID.		
	ENST0000.	4q2.		rs8900187			
	ENST0000.	4q2.					
	ENST0000.	4q2.		Score rs1378897			0.245
PCDH1	ENST0000.	4q2.	Sc				
	ENST0000.	4q3.	Score=0.9	rs3676041			
	ENST0000.	4q3.					
	ENST0000.	4q3.					
		4q3.	Score.	ID.			
PDCD6	ENST0000.	5p1.					
	ENST0000.	5p1.					
	ENST0000.	5p1.	Score=0.9				
	ENST0000.	5q1.					
	ENST0000.	5q1.					
	ENST0000.	5q1.		Score.			
		5q1.		Score.			
	ENST0000.	5q1.	Score=0.9				
	ENST0000.	5q1.	Score=0.9	Score rs2848141	ID.		
	ENST0000.	5q1.	Sc				
HEXB:	ENST0000.	5q1.					
HSD17	ENST0000.	5q2.	Sc				
	ENST0000.	5q3.					
	ENST0000.	5q3.					
	ENST0000.	5q3.		Score rs1024566			
	ENST0000.	5q3.					
	ENST0000.	5q3.		Score.			
	ENST0000.	5q3.					
	ENST0000.	5q3.		rs5341551			
	ENST0000.	5q3.					
CBY3:	ENST0000.	5q3.					
DUSP2	ENST0000.	6p2.		rs2013466			
	ENST0000.	6p2.		Score.			
CDYL:	ENST0000.	6p2.					
HIST1F	ENST0000.	6p2.		rs7489137			
POM12	ENST0000.	6p2.					
POM12	ENST0000.	6p2.					
	ENST0000.	6p2.		rs9402071			
DHX16	ENST0000.	6p2.					
	ENST0000.	6p2.					
	ENST0000.	6p2.	Score=0.8				
	ENST0000.	6p2.					
ZBTB1:	ENST0000.	6p2.	Score=0.9				
STK19:	ENST0000.	6p2.	Sc	Score=0.9			
	ENST0000.	6p2.		Score=0.9	rs5421901		
UNKNC	ENST0000.	6p2.	Sc	Score=0.9			
	ENST0000.	6p2.		Score=0.9			
ETV7:	ENST0000.	6p2.					



. ENST0000.	8q2.	.	.	.	.	.	.	.	.
. ENST0000.	9p2.	.	Score=0.9	.	.	.	.	.	.
HAUS6 ENST0000.	9p2.	.	.	.	rs7682516.	.	.	.	.
IFNB1:  ENST0000.	9p2.	.	.	.	.	.	.	.	.
UBAP2 ENST0000.	9p1.	.	.	.	.	.	.	.	.
. ENST0000.	9p1.	.	Score=0.9	.	rs3764507 ID.	.	.	.	.
. ENST0000.	9p1.	.	Score=0.9	.	.	.	.	.	.
. ENST0000.	9q1.	.	Score=0.9	.	.	.	.	.	.
. ENST0000.	9q2.	.	Score=0.9	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	.	.	.	.	.	.
ERCC6 ENST0000.	9q2.	Sc.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	rs9619494.	.	.	.	.
DAB2IF ENST0000.	9q3.	.	.	.	.	.	.	.	.
LMX1B ENST0000.	9q3.	.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	rs7589091 .	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.	.
UNKN ENST0000.	9q3.	.	.	.	.	.	.	.	.
UPF2:  ENST0000.	10p.	.	.	.	.	.	.	.	.
SKIDA' ENST0000.	10p.	.	.	.	Score rs2018361 ID.	.	.	.	.
. ENST0000.	10q.	.	.	.	.	.	.	.	.
. ENST0000.	10q.	.	.	.	.	.	.	.	.
. ENST0000.	10q.	.	.	.	.	.	.	.	.
HKDC1 ENST0000.	10q.	.	.	.	rs3760330.	.	.	.	.
. ENST0000.	10q.	.	.	.	.	.	.	.	.
. ENST0000.	10q.	.	.	.	.	.	.	.	.
UNC5B ENST0000.	10q.	Sc.	.	.	rs7593379.	.	.	.	.
CDH23 ENST0000.	10q.	.	.	.	rs7698966 ID.	.	.	.	.
. . .	10q.	.	Score=0.9	Score.	ID.	.	.	.	.
. . .	10q.	.	Score=0.9	Score.	ID.	.	.	.	.
. ENST0000.	10q.	.	.	.	.	.	.	.	.
. ENST0000.	10q.	.	.	.	.	.	.	.	.
. ENST0000.	10q.	.	.	.	.	.	.	.	.
. ENST0000.	10q.	.	Score=0.9	.	rs7966467.	.	.	.	.
MUC6:  ENST0000.	11p.	.	.	.	rs7657851 ID.	.	.	.	.
. ENST0000.	11p.	.	Score=0.9	.	rs8667539 ID.	.	.	.	.
SBF2:  ENST0000.	11p.	.	.	.	.	.	.	.	.
LUZP2: ENST0000.	11p.	.	.	.	.	.	.	.	.
WT1:N ENST0000.	11p.	Sc.	.	.	.	.	.	.	.
DGKZ:  ENST0000.	11p.	Sc.	.	.	.	.	.	.	.
. ENST0000.	11p.	.	.	.	.	.	.	.	.
. ENST0000.	11q.	.	.	.	.	.	.	.	.
PPP1R ENST0000.	11q.	.	.	.	rs7463740 ID.	.	.	.	.
. ENST0000.	11q.	Sc.	.	Score.	.	.	.	.	.
. ENST0000.	11q.	Sc.	.	.	.	.	.	.	.
RCOR2 ENST0000.	11q.	Sc.	.	.	rs3704854 ID.	.	.	.	.
. ENST0000.	11q.	.	.	Score.	.	.	.	.	.
NUDT2 ENST0000.	11q.	.	.	.	.	.	.	.	.
. ENST0000.	11q.	.	.	.	.	.	.	.	.
FKBP2 ENST0000.	11q.	Sc.	.	.	.	.	.	.	.



.	ENST0000.	11q.	.	.	.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	rs7459229.	.	.	.	.
P4HA3	ENST0000.	11q.	.	.	.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.	.	.
.	ENST0000.	11q.	.	Score=0.9i.	.	rs3521580.	.	.	.	.
.	ENST0000.	11q.	.	Score=0.9i.	.	rs3580670 ID.	.	.	.	.
.	ENST0000.	11q.	.	.	.	rs9203240.	.	.	.	.
ZBTB4	ENST0000.	11q.	Sc.	.	.	.	.	.	.	.
.	ENST0000.	12p.	.	.	.	.	.	.	.	.
.	ENST0000.	12p.	.	.	.	.	.	.	.	.
.	ENST0000.	12p.	.	.	.	.	.	.	.	.
DDX11	ENST0000.	12p.	Sc	Score=0.9i.	.	rs7123030 ID.	.	.	.	0.131
KIAA15	ENST0000.	12p.	.	.	.	.	.	.	.	.
.	ENST0000.	12q.	.	.	.	.	.	.	.	.
SCAF1	ENST0000.	12q.	.	.	.	.	.	.	.	.
CYP27	ENST0000.	12q.	.	.	.	.	.	.	.	.
.	ENST0000.	12q.	.	.	.	.	.	.	.	.
.	ENST0000.	12q.	.	.	.	Score rs8674713.	.	.	.	.
.	ENST0000.	12q.	.	.	.	rs9109827.	.	.	.	.
.	ENST0000.	12q.	.	.	.	Score rs9642294.	.	.	.	.
.	ENST0000.	12q.	.	.	.	.	.	.	.	.
MYBPC	ENST0000.	12q.	.	.	.	.	.	.	.	.
.	ENST0000.	12q.	.	.	.	Score.	.	.	.	.
MED13	ENST0000.	12q.	.	.	.	.	.	.	.	.
.	ENST0000.	12q.	.	.	.	.	.	.	.	.
.	ENST0000.	12q.	.	.	.	rs7540482.	.	.	.	.
.	ENST0000.	12q.	.	.	.	.	.	.	.	.
.	ENST0000.	12q.	.	.	.	.	.	.	.	.
.	ENST0000.	13q.	.	.	.	.	.	.	.	.
NBEA1	ENST0000.	13q.	.	.	.	.	.	.	.	.
EPST1	ENST0000.	13q.	Sc.	.	.	.	.	.	.	.
.	ENST0000.	13q.	.	.	.	.	.	.	.	.
FGF14	ENST0000.	13q.	.	.	.	rs7720033.	.	.	.	.
.	ENST0000.	14q.	.	Score=0.9i.	.	rs1450473.	.	.	.	.
.	.	14q.	.	.	.	.	.	.	.	.
.	ENST0000.	14q.	.	Score=0.9i.	.	.	.	.	.	.
.	ENST0000.	14q.	.	Score=0.9i.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	.	.	.	.	.	.
.	.	14q.	.	.	.	Score.	.	.	.	.
GCH1	ENST0000.	14q.	.	.	.	rs1501582.	Likely.	.	.	.
.	ENST0000.	14q.	.	.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	.	Score.	.	.	.	.
.	ENST0000.	14q.	.	.	.	.	.	.	.	.
SMOC	ENST0000.	14q.	.	.	.	rs7676169.	.	.	.	.
PAPLN	ENST0000.	14q.	.	.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	.	rs3756754.	.	.	.	.
.	ENST0000.	14q.	.	.	.	.	ID.	.	.	.
.	ENST0000.	14q.	.	.	.	rs5537870.	.	.	.	.
.	.	14q.	.	Score=0.9i.	.	rs1289410 ID.	.	.	.	.

. ENST0000.	15q.	. Score=0.9	.	.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	Score.	.	.	.	.	.
HERC2 ENST0000.	15q.	Sc.	.	rs5409237	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	ID.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	rs2015085	.	.	.	.
. ENST0000.	15q.	.	.	rs7481072	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.	.
RPAP1 ENST0000.	15q.	.	.	.	.	.	.	.
SPTBN ENST0000.	15q.	.	.	rs7754448	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	.	.	.	.	.
. ENST0000.	15q.	.	.	rs1922871	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	rs6202600	.	.	.	0.422
SPATA ENST0000.	15q.	Sc.	.	ID.	.	.	.	.
. ENST0000.	15q.	Sc.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	rs5478938	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	.	.	.	.	.
CHRNE ENST0000.	15q.	Sc.	.	.	.	.	.	.
ANKRC ENST0000.	15q.	.	.	.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	rs2401418	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.	.
VPS33 ENST0000.	15q.	.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.	.
TARSL ENST0000.	15q.	.	.	rs7510253	ID.	.	.	.
UNKNC ENST0000.	16p.	Sc.	.	rs7504825	.	.	.	.
. ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	.	.	.	.	.	.	.
TEKT5 ENST0000.	16p.	.	.	.	.	.	.	.
TNFRS ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	. Score=0.9	.	.	.	.	.	.
. ENST0000.	16p.	. Score=0.9	.	rs5522924	.	.	.	0.034
. ENST0000.	16p.	. Score=0.9	.	rs6203288	ID.	.	.	0.04
SMG1: ENST0000.	16p.	.	.	rs7654396	.	.	.	.
. ENST0000.	16p.	.	.	Score.	.	.	.	.
. ENST0000.	16p.	.	.	Score.	.	.	.	.
. ENST0000.	16p.	Sc	Score=0.9	.	.	.	.	.
XPO6: ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	. Score=0.9	.	.	.	.	.	.
. ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	. Score=0.9	Score	rs7896651	.	.	.	.
. ENST0000.	16q.	.	.	rs7515102	.	.	.	.
CNOT1 ENST0000.	16q.	.	.	.	.	.	.	.
CTCF: ENST0000.	16q.	.	.	.	.	.	.	.
. ENST0000.	16q.	.	.	.	.	.	.	.
. ENST0000.	16q.	. Score=0.9	.	rs2911030	ID.	.	.	.

. ENST0000.	16q.	. .	Score.	. .	. .	. .
. ENST0000.	16q.	. .	Score=0.9	. .	ID.	. .
. ENST0000.	17p.	. .	. .	rs7805194	. .	. .
. ENST0000.	17p.	. .	. .	. .	. .	. .
TNFSF ENST0000.	17p.	Sc.	. .	. .	. .	. .
DNAH2 ENST0000.	17p.	Sc.	. .	. .	. .	. .
MYH13 ENST0000.	17p.	. .	. .	. .	. .	. .
DNAH9 ENST0000.	17p.	Sc.	. .	. .	ID.	. .
. ENST0000.	17p.	. .	. .	rs5595610	. .	. .
. ENST0000.	17p.	. .	. .	. .	. .	. .
. ENST0000.	17p.	. .	Score=0.9	. .	. .	. .
. ENST0000.	17p.	. .	Score=0.9	. .	. .	. .
. ENST0000.	17p.	. .	Score=0.9	. .	. .	. .
. ENST0000.	17p.	. .	Score=0.9	rs7841783	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
SUZ12: ENST0000.	17q.	. .	Score=0.9	. .	. .	. .
. ENST0000.	17q.	. .	Score=0.9	. .	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	Score=0.9	. .	. .	. .
. ENST0000.	17q.	. .	Score=0.9	rs8795183	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	Score=0.9	. .	. .	. .
MED1: ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	. .	rs1035039	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
DDX42 ENST0000.	17q.	. .	. .	. .	. .	. .
DDX42 ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	Score.	. .	. .	. .
. ENST0000.	17q.	. .	. .	. .	. .	. .
SLC26 ENST0000.	17q.	. .	. .	rs1405528	. .	. .
BAIAP2 ENST0000.	17q.	. .	. .	. .	. .	. .
. ENST0000.	17q.	. .	Score=0.9	rs3677917	. .	. .
. ENST0000.	18p.	. .	. .	. .	. .	. .
LRR3 ENST0000.	18p.	Sc.	. .	. .	. .	. .
PPP4R ENST0000.	18p.	. .	. .	. .	. .	. .
. ENST0000.	18p.	. .	. .	. .	. .	. .
PIEZO2 ENST0000.	18p.	Sc.	. .	. .	. .	. .
RNMT: ENST0000.	18p.	Sc.	. .	. .	. .	. .
. ENST0000.	18p.	. .	Score=0.9	Score.	ID.	. .
. ENST0000.	18q.	. .	Score.	. .	. .	. .
SKOR2 ENST0000.	18q.	. .	Score.	. .	. .	. .
. ENST0000.	18q.	. .	. .	. .	. .	. .
. ENST0000.	18q.	. .	Score.	. .	. .	. .
. ENST0000.	18q.	. .	. .	rs7468202	. .	. .
CCDC1 ENST0000.	18q.	. .	. .	. .	. .	. .
. ENST0000.	18q.	. .	. .	. .	. .	. .

.	.	19p.	.	rs9545783	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
.	ENST0000.	19p.	.	rs3742787	.	.	.	.
.	ENST0000.	19p.	.	Score rs1418930	.	.	.	0.106
THOP1	ENST0000.	19p.	.	.	.	.	.	.
.	ENST0000.	19p.	.	rs7627736	.	.	.	.
.	ENST0000.	19p.	.	Score.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
.	ENST0000.	19p.	.	Score.	.	.	.	.
.	ENST0000.	19p.	.	Score.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
MUC16	ENST0000.	19p.	.	.	.	.	.	.
MUC16	ENST0000.	19p.	.	.	.	.	.	.
MUC16	ENST0000.	19p.	.	.	ID.	.	.	.
MUC16	ENST0000.	19p.	.	rs7741875	.	.	.	.
.	ENST0000.	19p.	.	Score.	.	.	.	.
ZNF44	ENST0000.	19p.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
NWD1	ENST0000.	19p.	.	.	.	.	.	.
FAM12	ENST0000.	19p.	.	rs7797020	.	.	.	.
.	ENST0000.	19p.	.	Score.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
ZNF25	ENST0000.	19p.	.	.	ID.	.	.	.
.	ENST0000.	19p.	.	Score=0.9	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.	.
.	.	19q.	.	Score=0.9	Score rs8683521	.	.	.
.	.	19q.	.	Score=0.9	Score rs8793125	.	.	.
ZNF85	ENST0000.	19q.	.	rs7653982	ID.	.	.	.
.	ENST0000.	19q.	.	Score rs9896621	.	.	.	.
.	ENST0000.	19q.	.	Score=0.9	.	.	.	.
.	ENST0000.	19q.	.	rs1408143	.	.	.	0.001
.	ENST0000.	19q.	.	.	.	.	.	.
.	ENST0000.	19q.	.	Score rs1444115	.	.	.	.
.	ENST0000.	19q.	.	Score=0.9	.	.	.	.
.	ENST0000.	19q.	.	Score.	.	.	.	.
PLAUR	ENST0000.	19q.	.	rs4251912	.	.	.	.
NANO	ENST0000.	19q.	.	.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.	.
ZNF61	ENST0000.	19q.	.	.	.	.	.	.
.	ENST0000.	19q.	.	Score=0.9	.	.	.	.
.	.	19q.	.	Score=0.9	.	.	.	.
NCR1	ENST0000.	19q.	.	.	.	.	.	.
USP29	ENST0000.	19q.	.	.	.	.	.	.
USP29	ENST0000.	19q.	.	.	.	.	.	.
.	ENST0000.	20p.	.	.	.	.	.	.
.	ENST0000.	20p.	.	.	.	.	.	.

. ENST0000.	20p.	.	.	.	.	.	.	.	.
SIGLEC ENST0000.	20p.	.	.	.	.	.	.	.	.
PLCB1 ENST0000.	20p.	.	.	.	rs7610831.	.	.	.	.
. ENST0000.	20p.	.	.	.	.	.	.	.	.
. ENST0000HBI-43	20p.	.	.	.	.	.	.	.	.
. ENST0000.	20q.	.	Score=0.9f.	.	rs8120738 ID.	.	.	.	.
. ENST0000.	20q.	.	Score=0.9f.	.	rs7791580 ID.	.	.	.	0.001
. ENST0000.	20q.	.	.	.	.	.	.	.	.
. ENST0000.	20q.	.	.	.	.	.	.	.	.
NCOA6 ENST0000.	20q.	Sc.	.	.	rs1904867.	.	.	.	0.001
RNF11 ENST0000.	20q.	Sc.	.	.	.	.	.	.	.
UNKNC ENST0000.	20q.	Sc.	.	.	.	.	.	.	.
ZNF83 ENST0000.	20q.	.	.	.	.	.	.	.	.
. ENST0000.	20q.	.	Score.	.	.	.	.	.	.
. ENST0000.	20q.	.	.	.	.	.	.	.	.
. ENST0000.	20q.	.	Score rs1874434.	.	.	.	.	.	.
. .	21p.	.	Score=0.9f.	.	.	.	.	.	.
. ENST0000.	21p.	.	Score=0.9f.	.	.	.	.	.	.
. .	21p.	.	Score=0.9f Score.	.	.	.	.	.	.
. .	21p.	.	Score=0.9f.	.	rs3707796 ID.	.	.	.	.
. ENST0000.	21p.	.	Score=0.9f.	.	rs7469658 ID.	.	.	.	.
. .	21p.	.	Score=0.9f Score rs4638882.	.	.	.	.	.	.
. ENST0000.	21q.	.	.	.	.	.	.	.	.
. ENST0000.	21q.	.	.	.	.	.	.	.	.
. ENST0000.	21q.	.	.	.	.	.	.	.	.
CBS:NI ENST0000.	21q.	Sc.	.	.	.	.	.	.	.
. ENST0000.	21q.	.	.	.	rs7276130 ID.	.	.	.	.
. ENST0000.	21q.	.	.	.	.	.	.	.	.
. ENST0000.	22q.	.	Score=0.9f.	.	.	.	.	.	.
. ENST0000.	22q.	.	Score=0.9f.	.	.	.	.	.	.
. ENST0000.	22q.	.	Score=0.9f Score.	.	.	.	.	.	.
. ENST0000.	22q.	.	Score=0.9f.	.	rs3769174.	.	.	.	.
PRODH ENST0000.	22q.	.	Score=0.9f.	.	rs2870983 ID.	.	.	.	0.032
. ENST0000.	22q.	.	.	.	.	.	.	.	.
. .	22q.	.	Score=0.9f Score rs1389774.	.	.	.	.	.	0.067
. ENST0000.	22q.	.	Score=0.9f.	.	rs3731564 ID.	.	.	.	.
. ENST0000.	22q.	.	Score=0.9f.	.	rs1856371 ID.	.	.	.	0.016
. ENST0000.	22q.	.	.	.	.	.	.	.	.
. ENST0000.	22q.	.	.	.	rs5669283.	.	.	.	.
. ENST0000.	22q.	.	.	.	.	.	.	.	.
. ENST0000.	22q.	.	.	.	rs7606577.	.	.	.	.
. ENST0000.	22q.	.	Score=0.9f.	.	.	.	.	.	.
SYNGF ENST0000.	22q.	.	.	.	.	.	.	.	.
XPNPE ENST0000.	22q.	.	.	.	rs1409901.	.	.	.	.
EP300: ENST0000.	22q.	.	.	.	.	.	.	.	.
SREBF ENST0000.	22q.	.	.	.	rs3731131.	.	.	.	.
. ENST0000.	22q.	.	Score.	.	.	.	.	.	.
. ENST0000.	22q.	.	Score.	.	.	.	.	.	.
. ENST0000.	22q.	.	Score.	.	.	.	.	.	.
PLXNB ENST0000.	22q.	.	.	.	rs7711497 ID.	.	.	.	.
. ENST0000.	Xp2.	.	Score=0.9f.	.	.	.	.	.	.
. .	Xp2.	.	Score=0.9f Score rs8673094.	.	.	.	.	.	.
. ENST0000.	Xp2.	.	Score=0.9f.	.	rs7643909.	.	.	.	.
. ENST0000.	Xp2.	.	Score=0.9f.	.	rs6640384.	.	.	.	.

TLR7:1	ENST0000	Xp2					
TLR8:1	ENST0000	Xp2					
.	ENST0000	Xp2	Sc				
MAOA:	ENST0000	Xp1					
.	ENST0000	Xp1	Score=0.9				
PCSK1	ENST0000	Xp1	Score				
.	ENST0000	Xp1	Score=0.9				
.	ENST0000	Xp1					
.	ENST0000	Xp1					
GNL3L	ENST0000	Xp1					
.	ENST0000	Xp1	Score=0.9				
.	ENST0000	Xq1	Score				
MED12	ENST0000	Xq1					
NLGN3	ENST0000	Xq1	Sc				
.	ENST0000	Xq1	Score=0.9				
.	ENST0000	Xq2					
SASH3	ENST0000	Xq2					
UTP14:	ENST0000	Xq2	Score	ID			
BCORL	ENST0000	Xq2					
.	ENST0000	Xq2					
ARHGE	ENST0000	Xq2	Sc				
UNKN	ENST0000	Xq2	Score=0.9	Score			
TREX2	ENST0000	Xq2	Sc	rs7824625			
.	ENST0000	Xq2	Score				
.	ENST0000	1p3	Score=0.9				
.	ENST0000	1p3	Score=0.9	Score rs7810569	ID		
.	ENST0000	1p3	Score=0.9	rs1149269			
FAM21	ENST0000	1p3					
.	ENST0000	1p3					
.	ENST0000	1p3					
.	ENST0000	1p3	Score=0.9	rs2008876	ID		
.	ENST0000	1p3	Score=0.9	rs5565927			0.002
.	ENST0000	1p3	Score=0.9	rs6177234			
.	ENST0000	1p3	Score=0.9	rs1008195	ID		
.	ENST0000	1p3	Score=0.9	rs5388409	ID		0.025
CROCC	ENST0000	1p3	Sc Score=0.9	rs6669627	ID		
.	ENST0000	1p3					
.	ENST0000	1p3		rs7661411	ID		
HIVEP:	ENST0000	1p3		rs7802118	ID		
.		1p3	Score=0.9	Score rs8664767	ID		
.		1p3	Score				
.	ENST0000	1q2	Score=0.9	rs7581372			
.	ENST0000	1q2	Score=0.9	rs7697846			
.		1q2	Score=0.9	rs2016919			
.	ENST0000	1q2	Score=0.9	ID			
.	ENST0000	1q2	Score=0.9	rs3703375			
.	ENST0000	1q2	Score=0.9	rs1996515	ID		
.		1q2	Score=0.9				
.		1q2	Score=0.9				
.	ENST0000	1q2	Score=0.9	ID			
.	ENST0000	1q2	Score=0.9	Score			
.	ENST0000	1q2	Score=0.9	ID			
.	ENST0000	1q2	Score=0.9	rs8799960	ID		
.	ENST0000	1q2	Score=0.9	Score rs2003739			

.	ENST0000.	1q2.	Score=0.9	Score rs3705433	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.	.
.	ENST0000.	1q4.	Score=0.9	rs1839036	.	.	.	0.404
.	ENST0000.	1q4.	Score=0.9	Score.	.	.	.	.
.	ENST0000.	1q4.	Score=0.9	Score.	.	.	.	.
.	ENST0000.	1q4.	.	.	.	.	.	.
.	.	1q4.	Score=0.9	rs1828179	.	.	.	.
.	.	2p1.	Score=0.9	rs4096246 ID:	.	.	.	0.026
.	ENST0000.	2p1.	Score=0.9	.	.	.	.	.
.	.	2p1.	Score=0.9	.	.	.	.	.
.	ENST0000.	2p1.	Score=0.9	.	.	.	.	.
ANAPC	ENST0000.	2q1.	Score=0.9	rs2011280 ID:	.	.	.	.
.	.	2q1.	Score=0.9	rs8685337 ID:	.	.	.	.
.	ENST0000.	2q1.	Score=0.9	rs2747968 ID:	.	.	.	.
.	ENST0000.	2q1.	.	Score rs1029282	.	.	.	.
.	ENST0000.	2q2.	Score=0.9	Score rs2001821	.	.	.	.
.	ENST0000.	2q2.	Score=0.9	rs7800646 ID:	.	.	.	.
.	ENST0000.	2q3.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	rs1875561 ID:	.	.	.	0.006
.	ENST0000.	2q3.	.	Score rs8671576 ID:	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.
AGTR1	ENST0000.	3q2.	Sc	.	.	.	.	.
.	ENST0000.	3q2.	.	.	.	.	.	.
.	ENST0000.	3q2.	.	.	.	.	.	.
.	.	3q2.	Score=0.9	Score rs3760511 ID:	.	.	.	.
.	ENST0000.	3q2.	.	rs8677455	.	.	.	.
.	ENST0000.	3q2.	Score=0.9	rs1128840 ID:	.	.	.	.
.	ENST0000.	4p1.	.	.	.	.	.	.
.	ENST0000.	4p1.	.	rs1443656 ID:	.	.	.	.
.	ENST0000.	5p1.	.	.	.	.	.	.
.	ENST0000.	5p1.	Score=0.9	Score.	.	.	.	.
.	ENST0000.	5q1.	Score=0.9	Score rs3759258	.	.	.	0.772
.	ENST0000.	5q1.	Score=0.9	Score rs8790446 ID:	.	.	.	.
.	ENST0000.	5q2.	Score=0.9	ID:	.	.	.	.
.	ENST0000.	5q3.	.	.	.	.	.	.
.	ENST0000.	5q3.	.	.	.	.	.	.
COL23	ENST0000.	5q3.	.	.	.	.	.	.
.	ENST0000.	5q3.	.	.	.	.	.	.
.	.	6p2.	.	rs3719775	.	.	.	.
.	.	6p2.	.	rs9202904	.	.	.	.
.	.	6p1.	.	Score rs4292554 ID:	.	.	.	.
.	.	6p1.	.	Score rs4437505 ID:	.	.	.	.
.	ENST0000.	6q2.	.	rs7508774	.	.	.	.
.	ENST0000.	6q2.	.	.	.	.	.	.
.	ENST0000.	6q2.	Score=0.9	rs1436754	.	.	.	.
.	ENST0000.	6q2.	.	Score.	.	.	.	.
.	ENST0000.	7p2.	.	.	.	.	.	.
.	ENST0000.	7p2.	Score=0.9	Score rs2016650	.	.	.	.
.	ENST0000.	7p1.	.	Score.	.	.	.	.
.	ENST0000.	7p1.	Score=0.9	.	.	.	.	.
.	ENST0000.	7p1.	Score=0.9	ID:	.	.	.	.
.	ENST0000.	7p1.	Score=0.9	.	.	.	.	.
.	ENST0000.	7p1.	Score=0.9	.	.	.	.	.

	ENST0000.	7p1.	Score=0.9						
	ENST0000.	7p1.	Score=0.9						
	ENST0000.	7p1.	Score=0.9	Score.					
		7q1.		Score rs4596537					
		7q1.		Score rs2167825	ID:				
	ENST0000.	7q1.	Score=0.9	rs586765	ID:				
		7q1.	Score=0.9	rs8688020	ID:				
	ENST0000.	7q1.	Score=0.9	rs2462259	ID:				
	ENST0000.	7q2.	Score=0.9	rs6248349					
	ENST0000.	7q3.	Score=0.9	rs3741264					
	ENST0000.	7q3.	Score=0.9						
		8p2.	Score=0.9	rs2077351	ID:				
	ENST0000.	8p1.							
		8p1.		Score rs7503847					
		8p1.		Score rs7967153	ID:				
		8p1.		Score.	ID:				
		8q1.		Score rs4363208	ID:				
		8q1.		Score rs3740584					
	ENST0000.	8q2.		Score.					
ARC:NI	ENST0000.	8q2.	Sc						
	ENST0000.	8q2.		Score rs7821104	ID:				
		9p1.	Score=0.9	Score rs7495042	ID:				
		9q1.	Score=0.8	Score rs4928839					
	ENST0000.	9q1.	Sc	Score=0.9	rs4568707				
	ENST0000.	9q2.	Score=0.9	rs1435617	ID:				
	ENST0000.	9q2.	Score=0.9	rs3773733					
	ENST0000.	9q2.		Score.					
	ENST0000.	9q3.							
	ENST0000.	9q3.		Score.					
		10p.		Score rs1397322	ID:				
	ENST0000	hsa-mir-60		Score.					
	ENST0000.	10p.		Score rs9631413					
	ENST0000.	10p.							
	ENST0000.	10q.	Score=0.9	Score rs694157					
	ENST0000.	10q.	Score=0.8	rs5275172					
	ENST0000.	10q.		rs1888127					
		10q.	Score=0.9	rs2573327	ID:				
	ENST0000.	10q.	Score=0.9	rs3128226					0.524
	ENST0000.	11p.	Score=0.9		ID:				
	ENST0000.	11p.	Score=0.9		ID:				
		11q.		Score rs9035709	ID:				
		11q.	Score=0.9	rs1874489	ID:				
PRKR11	ENST0000.	11q.	Score=0.9	rs9666739					
	ENST0000.	11q.		Score rs5688517					
OR8G5	ENST0000.	11q.							
	ENST0000.	11q.							
	ENST0000.	12q.	Score=0.8	rs7606061					
ERBB3	ENST0000.	12q.			ID:				
	ENST0000.	12q.		rs7597010	ID:				
	ENST0000.	13q.	Score=0.9	rs2004528					
MYO16	ENST0000.	13q.	Sc	rs1510074	ID:				
	ENST0000.	14q.	Score=0.9	rs7446578	ID:				
	ENST0000.	14q.	Score=0.9						
	ENST0000.	14q.	Score=0.9	rs2006543					



. ENST0000.	14q.	. Score=0.9	. rs2020426.	. . .	. . .
. ENST0000.	14q.	. Score=0.9	. rs7704695 ID:	. . .	. . .
UNKNC ENST0000.	14q.	. . . .	. . . .	. . . .	. . . .
. ENST0000.	14q.	. . . .	. . . .	. . . .	. . . .
. ENST0000.	14q.	. Score=0.9	. ID:	. . . .	. . . .
. . . .	15q.	. Score=0.9	. Score rs6200967 ID:	. . . .	. 0.345
. ENST0000.	15q.	. Score=0.9	. . . .	. . . .	. . . .
. ENST0000.	15q.	. . . .	. . . .	. . . .	. . . .
. ENST0000.	15q.	. Score=0.9	. rs7751825	. . . .	. . . .
. ENST0000.	15q.	. Score=0.9	. Score rs2449652 ID:	. . . .	. 0.026
. ENST0000.	15q.	. Score=0.9	. Score rs2449653 ID:	. . . .	. 0.167
. ENST0000.	15q.	. Score=0.9	. . . .	. . . .	. . . .
. ENST0000.	15q.	. Score=0.9	. . . .	. . . .	. . . .
. ENST0000.	15q.	. Score=0.9	. rs6202600.	. . . .	. 0.422
. ENST0000.	15q.	. . . .	. . . .	. . . .	. . . .
. ENST0000.	15q.	. . . .	. . . .	. . . .	. . . .
GOLG/ ENST0000.	15q.	. Score=0.9	. . . .	. . . .	. . . .
. . . .	15q.	. Score=0.9	. rs3743150.	. . . .	. 0.446
. ENST0000.	15q.	. Score=0.9	. rs9700260.	. . . .	. . . .
. ENST0000.	15q.	. Score=0.9	. rs364085.	. . . .	. . . .
. ENST0000.	16p.	. Score=0.9	. rs2009400.	. . . .	. . . .
. ENST0000.	16p.	. Score=0.9	. rs2016432.	. . . .	. . . .
. ENST0000.	16p.	. Score=0.9	. ID:	. . . .	. . . .
. . . .	16p.	. Score=0.9	. rs5667377.	. . . .	. 0.001
. ENST0000.	16p.	. Score=0.9	. rs5618411 ID:	. . . .	. . . .
. . . .	16p.	. Score=0.9	. Score rs8792106.	. . . .	. . . .
. . . .	16q.	. . . .	. Score rs4319791 ID:	. . . .	. . . .
. . . .	16q.	. . . .	. Score rs4349321.	. . . .	. . . .
. . . .	16q.	. . . .	. Score rs4246344.	. . . .	. . . .
. . . .	16q.	. . . .	. . . .	. . . .	. . . .
. . . .	16q.	. . . .	. Score rs8799648.	. . . .	. . . .
. . . .	16q.	. . . .	. Score rs9972801.	. . . .	. . . .
. . . .	16q.	. . . .	. Score rs4324300 ID:	. . . .	. . . .
. . . .	16q.	. . . .	. Score rs9328621 ID:	. . . .	. . . .
. . . .	16q.	. . . .	. Score rs4380209 ID:	. . . .	. . . .
. . . .	16q.	. . . .	. Score rs4291933.	. . . .	. . . .
. . . .	16q.	. . . .	. rs4011858 ID:	. . . .	. . . .
. . . .	16q.	. . . .	. Score.	. . . .	. . . .
. . . .	16q.	. . . .	. Score rs7205231.	. . . .	. . . .
. . . .	16q.	. . . .	. Score rs4093117.	. . . .	. . . .
. . . .	16q.	. . . .	. Score rs4249029.	. . . .	. . . .
. . . .	16q.	. . . .	. Score.	. . . .	. . . .
. ENST0000.	16q.	. Score=0.9	. rs6205366.	. . . .	. . . .
. ENST0000.	17p.	. Score=0.9	. rs2543804 ID:	. . . .	. . . .
. ENST0000.	17p.	. Score=0.9	. rs7126379 ID:	. . . .	. . . .
. ENST0000.	17p.	. Score=0.9	. rs7126379 ID:	. . . .	. . . .
. ENST0000.	17p.	. Score=0.9	. rs7841783.	. . . .	. . . .
. . . .	17p.	. . . .	. Score.	. . . .	. . . .
. . . .	17p.	. . . .	. Score rs1437650.	. . . .	. . . .
. . . .	17p.	. . . .	. Score.	. . . .	. . . .
. ENST0000.	17q.	. Score=0.9	. rs6207957.	. . . .	. . . .
KRTAP ENST0000.	17q.	. Score=0.9	. rs7482024 ID:	. . . .	. . . .
. ENST0000.	17q.	. . . .	. rs1459625 ID:	. . . .	. . . .
. ENST0000.	17q.	. Score=0.9	. . . .	. . . .	. . . .

.	ENST0000.	18p.	Score=0.9	rs2012257 ID.	.	.	.
.	ENST0000.	18p.	Score=0.9	rs3734996	.	.	.
.	ENST0000.	18q.	.	rs7520640	.	.	.
.	ENST0000.	19p.	.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.
.	.	19q.	Score=0.9	rs7641371	.	.	.
.	.	19q.	Score=0.9	Score.	.	.	.
.	ENST0000.	19q.	Score=0.9	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.
.	ENST0000.	19q.	.	rs3499068 ID.	.	.	.
.	ENST0000.	19q.	.	rs5615613 ID.	.	.	.
.	ENST0000.	19q.	Score=0.9	rs1334652 ID.	.	.	.
.	ENST0000.	19q.	.	rs3751555 ID.	.	.	.
NCOA6	ENST0000.	20q.	Score.	ID.	.	.	.
.	ENST0000.	21p.	Score=0.9	rs7984422 ID.	.	.	.
.	.	21p.	Score=0.9	rs2017188 ID.	.	.	.
.	ENST0000.	22q.	Score=0.9	rs3753995 ID.	.	.	.
.	ENST0000.	22q.	Score=0.9	.	.	.	.
.	ENST0000.	22q.	Score=0.9	rs2021509 ID.	.	.	.
.	ENST0000.	22q.	Score=0.9	.	.	.	.
.	ENST0000.	22q.	Score=0.9	rs6221896 ID.	.	.	.
.	ENST0000.	22q.	Score=0.9	rs2016329 ID.	.	.	0.114
.	ENST0000.	22q.	Score=0.9	rs6223125 ID.	.	.	.
.	ENST0000.	22q.	Score=0.9	rs367416 ID.	.	.	.
.	ENST0000.	22q.	Score=0.9	rs3609392	.	.	0.302
.	ENST0000.	22q.	Score=0.9	.	.	.	.
.	ENST0000.	22q.	.	.	.	.	.
.	ENST0000.	Xp1.	.	.	.	.	.
.	.	Xq1.	Score.	.	.	.	.
.	.	Xq1.	Score.	ID.	.	.	.
.	.	Xq1.	Score	rs7520049	.	.	.
.	.	Xq1.	Score	rs7756689	.	.	.
.	.	Xq1.	Score.	.	.	.	.
SNX12	ENST0000.	Xq1.	Sc.	rs1048883 ID.	.	.	.
.	ENST0000.	Xq1.	.	.	.	.	.
NHSL2	ENST0000.	Xq1.	.	.	.	.	.
.	ENST0000.	Xq2.	Score=0.9	rs1423249 ID.	.	.	.
.	.	Xq2.	.	.	.	.	.
.	ENST0000.	1p3.	Score=0.9	rs3744991 ID.	.	.	0.092
.	ENST0000.	1p3.	.	.	.	.	.
KLHL17	ENST0000.	1p3.	Sc.	rs1159856	.	.	.
UNKNC	ENST0000.	1p3.	.	.	.	.	.
ISG15:1	ENST0000.	1p3.	.	.	.	.	.
.	ENST0000.	1p3.	.	rs5413521	.	.	.
.	ENST0000.	1p3.	.	rs7680451 ID.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.
MXRA8	ENST0000.	1p3.	Sc.	.	.	.	.
.	ENST0000.	1p3.	.	rs7800811	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.
.	ENST0000.	1p3.	Score=0.9	rs2014492	.	.	0.001
UNKNC	ENST0000.	1p3.	Sc	Score=0.9	rs7463384	.	.
.	ENST0000.	1p3.	Score=0.9	Score.	.	.	.
.	ENST0000.	1p3.	Score=0.9	Score.	.	.	.
GABRI	ENST0000.	1p3.	.	.	.	.	.

. ENST0000.	1p3.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	.	.	.	.	.	.
MEGF6 ENST0000.	1p3.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	Score.	.	.	.	.	.
UNKNC ENST0000.	1p3.	Sc.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	rs9430027.	.	.	.	.	.
CHD5:1 ENST0000.	1p3.	Sc.	.	.	ID.	.	.	.	.
CHD5:1 ENST0000.	1p3.	Sc.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	rs9864160.	.	.	.	.	.
. ENST0000.	1p3.	.	.	rs7562596.	.	.	.	.	.
CAMT1 ENST0000.	1p3.	.	.	rs1431018.	.	.	.	.	.
. ENST0000.	1p3.	.	.	Score.	.	.	.	.	.
CAMT1 ENST0000.	1p3.	.	.	rs7748471.	.	.	.	.	.
. ENST0000.	1p3.	.	.	rs9446685.	.	.	.	.	.
GPR15 ENST0000.	1p3.	Sc.	.	rs1476580.	.	.	.	.	.
. ENST0000.	1p3.	.	.	Score.	.	.	.	.	.
. ENST0000.	1p3.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	rs7934532.	Uncer.	.	.	.	.
. ENST0000.	1p3.	.	.	Score.	.	.	.	.	.
VPS131 ENST0000.	1p3.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	Score=0.9f.	rs2021163 ID.	.	.	.	.	.
. ENST0000.	1p3.	.	Score=0.9f.	rs5876978 ID.	.	.	.	.	0.307
CASP9 ENST0000.	1p3.	.	.	rs4646008.	.	.	.	.	.
. ENST0000.	1p3.	.	.	rs3745685.	.	.	.	.	.
ARHG1 ENST0000.	1p3.	.	.	.	.	.	.	.	.
UNKNC ENST0000.	1p3.	.	Score=0.9f.	rs3734377 ID.	.	.	.	.	.
. ENST0000.	1p3.	.	Score=0.9f.	rs6177234.	.	.	.	.	.
. ENST0000.	1p3.	.	Score=0.9f.	rs4112521.	.	.	.	.	.
. ENST0000.	1p3.	.	Score=0.9f.	rs1213433 ID.	.	.	.	.	.
. .	1p3.	.	Score=0.9f.	rs3930814 ID.	.	.	.	.	.
. ENST0000.	1p3.	.	.	rs5780915.	.	.	.	.	0.019
IGSF21 ENST0000.	1p3.	.	.	rs3774826.	.	.	.	.	.
TAS1R ENST0000.	1p3.	.	.	rs3766882.	.	.	.	.	.
UBR4:1 ENST0000.	1p3.	Sc.	.	rs3471023.	.	.	.	.	.
UBR4:1 ENST0000.	1p3.	Sc.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	rs3712996.	.	.	.	.	.
. ENST0000.	1p3.	.	.	Score.	.	.	.	.	.
. ENST0000.	1p3.	.	.	rs1001195.	.	.	.	.	.
. ENST0000.	1p3.	.	.	.	.	.	.	.	.
UNKNC ENST0000.	1p3.	.	.	.	.	.	.	.	.
. .	1p3.	.	Score=0.9f.	rs7584776 ID.	.	.	.	.	.
CELA3 ENST0000.	1p3.	.	Score=0.9f.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	rs1391690.	.	.	.	.	.
RUNX3 ENST0000.	1p3.	.	.	rs7518873 ID.	.	.	.	.	.
. ENST0000.	1p3.	.	Score=0.9f.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	.	.	.	.	.	.
FAM11 ENST0000.	1p3.	Sc.	.	.	.	.	.	.	.

CNKSF	ENST0000.	1p3.	.	.	rs7737670.	.	.	.	.
UBXN1	ENST0000.	1p3.	Sc.	.	rs7767332.	.	.	.	.
RPS6K	ENST0000.	1p3.	.	.	.	.	.	.	.
ARID1A	ENST0000.	1p3.	.	.	rs8792552 ID: Patho.	.	.	.	.
ZDHC1	ENST0000.	1p3.	Sc.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	rs1003250.	.	.	.	.
.	ENST0000.	1p3.	Sc.	.	rs7625790.	.	.	.	.
.	ENST0000.	1p3.	.	.	rs9468364.	.	.	.	.
.	ENST0000.	1p3.	Score=0.9	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	ID:	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
FABP3	ENST0000.	1p3.	.	.	rs7596455 ID:	.	.	.	.
SPOC1	ENST0000.	1p3.	.	.	rs9232513.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
LCK:NM	ENST0000.	1p3.	.	.	.	.	.	.	.
.	.	1p3.	.	.	Score.	.	.	.	.
.	ENST0000.	1p3.	.	.	Score.	.	.	.	.
.	ENST0000.	1p3.	.	.	rs9651423.	.	.	.	.
RSPO1	ENST0000.	1p3.	.	.	rs7723940.	.	.	.	.
.	ENST0000.	1p3.	.	.	Score.	.	.	.	.
.	ENST0000.	1p3.	.	.	rs1814745.	.	.	.	0.009
.	ENST0000.	1p3.	.	.	Score.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	Score=0.9	.	rs5523408.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
PPT1:NM	ENST0000.	1p3.	Sc.	.	.	.	.	.	.
RLF:NM	ENST0000.	1p3.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	Sc.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	rs9093579.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	rs1179985.	.	.	.	.
YBX1:NM	ENST0000.	1p3.	.	.	rs7456140.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	Score.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
CCDC1	ENST0000.	1p3.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	rs7290104.	.	.	.	0.009
.	ENST0000.	1p3.	.	.	.	.	.	.	.
MKNK1	ENST0000.	1p3.	Sc.	.	rs5508458.	.	.	.	.
.	ENST0000.	1p3.	Score=0.9	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	Score rs7570389.	.	.	.	.
.	ENST0000.	1p3.	.	.	rs9512571.	.	.	.	.
.	ENST0000.	1p3.	.	.	Score rs7759188.	.	.	.	.
CYB5R	ENST0000.	1p3.	Sc.	.	.	.	.	.	.
PCSK9	ENST0000.	1p3.	.	.	rs3769455.	.	.	.	.
PRKAA	ENST0000.	1p3.	.	.	rs7815069 ID:	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.
ELTD1:	ENST0000.	1p3.	.	.	rs1785229.	.	.	.	.

.	ENST0000.	1p3.	Score=0.90	.	.	.	.	.	.
LPHN2	ENST0000.	1p3.	.	.	rs1394863 ID:	.	.	.	.
LPAR3	ENST0000.	1p2.	Sc.	.	rs7636045.	.	.	.	.
.	ENST0000.	1p2.	.	.	.	.	.	.	.
.	ENST0000.	1p2.	.	.	.	.	.	.	.
ABCA4	ENST0000.	1p2.	.	.	.	.	.	.	.
ABCA4	ENST0000.	1p2.	.	.	rs6174943 ID: not pr.	.	.	.	.
.	ENST0000.	1p2.	.	.	.	.	.	.	.
.	ENST0000.	1p2.	.	.	.	.	.	.	.
PRPF3	ENST0000.	1p1.	.	.	.	.	.	.	.
.	ENST0000.	1p1.	.	.	rs9363214.	.	.	.	.
.	ENST0000.	1p1.	.	.	Score rs7774328	.	.	.	.
RBM15	ENST0000.	1p1.	.	.	.	.	.	.	.
.	ENST0000.	1p1.	.	.	Score.	.	.	.	.
UNKNC	ENST0000.	1p1.	.	.	ID:	.	.	.	.
.	ENST0000.	1p1.	.	.	Score.	.	.	.	.
MOV1C	ENST0000.	1p1.	Sc.	.	rs7556469 ID:	.	.	.	.
RHOC:	ENST0000.	1p1.	.	.	.	.	.	.	.
MAGI3:	ENST0000.	1p1.	.	.	.	.	.	.	.
.	ENST0000.	1p1.	.	.	.	.	.	.	.
AMPD1	ENST0000.	1p1.	.	.	rs3724512.	.	.	.	.
.	ENST0000.	1p1.	.	.	ID:	.	.	.	.
.	ENST0000.	1p1.	.	.	.	.	.	.	.
.	ENST0000.	1p1.	Score=0.9	.	.	.	.	.	.
.	ENST0000.	1p1.	.	.	rs1041798.	.	.	.	.
.	ENST0000.	1p1.	.	.	.	.	.	.	.
.	ENST0000.	1q2.	Score=0.9	.	.	.	.	.	.
UNKNC	ENST0000.	1q2.	Score=0.9	.	rs9441133 ID:	.	.	.	.
.	ENST0000.	1q2.	Score=0.9	.	rs4067693 ID:	.	.	.	.
UNKNC	ENST0000.	1q2.	Score=0.9	.	.	.	.	.	.
UNKNC	ENST0000.	1q2.	Sc.	.	rs7819390 ID:	.	.	.	.
.	ENST0000.	1q2.	Score=0.9	.	rs7515424.	.	.	.	.
.	.	1q2.	Score=0.9	.	.	.	.	.	.
POLR3	ENST0000.	1q2.	.	.	.	.	.	.	.
.	ENST0000.	1q2.	Score=0.9	.	.	.	.	.	.
.	ENST0000.	1q2.	Score=0.9	.	.	.	.	.	.
.	ENST0000.	1q2.	Score=0.9	.	.	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.	.	.
PI4KB:	ENST0000.	1q2.	.	.	.	.	.	.	.
POGZ:	ENST0000.	1q2.	Sc.	.	.	.	.	.	.
FLG2:	ENST0000.	1q2.	.	.	.	.	.	.	.
.	ENST0000.	1q2.	.	.	rs9479104.	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.	.	.
DENNI	ENST0000.	1q2.	.	.	rs7704251 ID:	.	.	.	.
.	ENST0000.	1q2.	Sc.	.	.	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.	.	.
ASH1L	ENST0000.	1q2.	.	.	.	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.	.	.
.	ENST0000.	1q2.	.	.	rs9321901	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.	.	.
ETV3L:	ENST0000.	1q2.	.	.	rs3718046.	.	.	.	.
.	.	1q2.	.	.	Score rs2000983 ID:	.	.	.	.
CD1B:†	ENST0000.	1q2.	.	.	rs7734794	.	.	.	.

. ENST0000.	1q2.	.	.	rs7622475	.	.	.	.
ADAM1 ENST0000.	1q2.	Sc.	.	.	.	.	.	.
C1orf22 ENST0000.	1q2.	.	.	rs2010794	.	.	.	.
RGS4:1 ENST0000.	1q2.	.	.	.	.	.	.	.
PBX1:1 ENST0000.	1q2.	Sc.	.	.	.	.	.	.
POU2F ENST0000.	1q2.	Sc.	.	.	ID.	.	.	.
. ENST0000.	1q2.	.	.	.	.	.	.	.
. ENST0000.	1q2.	.	.	.	.	.	.	.
. ENST0000.	1q2.	.	.	.	.	.	.	.
. ENST0000.	1q2.	.	.	.	.	.	.	.
. ENST0000.	1q2.	.	.	.	.	.	.	.
ASTN1 ENST0000.	1q2.	Sc.	.	rs7763360	ID.	.	.	.
ABL2:1 ENST0000.	1q2.	.	.	.	.	.	.	.
. ENST0000.	1q2.	.	.	rs1014592	.	.	.	.
. ENST0000.	1q2.	.	.	Score.	ID.	.	.	.
CACNA ENST0000.	1q2.	Sc.	.	rs7733795	.	.	.	.
ZNF641 ENST0000.	1q2.	.	.	rs7640679	.	.	.	.
TEDDM ENST0000.	1q2.	.	.	.	.	.	.	.
NPL:1 ENST0000.	1q2.	.	.	rs7702036	.	.	.	.
TPR:1 ENST0000.	1q3.	.	.	.	.	.	.	.
. ENST0000.	1q3.	.	.	.	.	.	.	.
. ENST0000.	1q3.	.	.	.	.	.	.	.
KIF21B ENST0000.	1q3.	Sc.	.	rs3712350	.	.	.	.
. ENST0000.	1q3.	.	.	rs3723002	.	.	.	.
NAV1:1 ENST0000.	1q3.	.	.	rs3694010	ID.	.	.	.
. ENST0000.	1q3.	.	.	.	.	.	.	.
. ENST0000.	1q3.	.	.	rs1044866	.	.	.	.
. ENST0000.	1q3.	.	.	.	.	.	.	.
C4BPA ENST0000.	1q3.	.	.	.	.	.	.	.
. ENST0000.	1q3.	Score=0.9	.	.	.	.	.	.
. ENST0000.	1q3.	.	.	.	.	.	.	.
. ENST0000.	1q3.	.	.	.	.	.	.	.
. ENST0000.	1q3.	.	.	.	.	.	.	.
. ENST0000.	1q3.	.	.	rs9188348	.	.	.	.
FLVCR ENST0000.	1q3.	.	.	.	.	.	.	.
RPS6K ENST0000.	1q3.	Sc.	.	.	.	.	.	.
. ENST0000.	1q4.	.	.	.	.	.	.	.
. ENST0000.	1q4.	.	.	.	.	.	.	.
USH2A ENST0000.	1q4.	.	.	rs9106912	.	.	.	.
. ENST0000.	1q4.	.	.	.	.	.	.	.
USH2A ENST0000.	1q4.	.	.	rs7564262	ID.	.	.	.
. ENST0000.	1q4.	.	.	Score	rs1909372	.	.	0.002
. ENST0000.	1q4.	Sc.	.	.	.	.	.	.
IARS2:1 ENST0000.	1q4.	.	.	.	.	.	.	.
IARS2:1 ENST0000.	1q4.	.	.	rs7799500	ID.	.	.	.
MARC2 ENST0000.	1q4.	Sc.	.	.	.	.	.	.
DISP1:1 ENST0000.	1q4.	.	.	.	.	.	.	.
. ENST0000.	1q4.	.	.	Score.	.	.	.	.
. ENST0000.	1q4.	.	.	.	.	.	.	.
LEFTY:1 ENST0000.	1q4.	Sc	Score=0.9	.	.	.	.	.
. ENST0000.	1q4.	.	.	Score	rs9303868	.	.	.
. ENST0000.	1q4.	.	.	.	.	.	.	.
OBSC1 ENST0000.	1q4.	Sc.	.	.	.	.	.	.
TRIM6:1 ENST0000.	1q4.	.	.	.	.	.	.	.

. ENST0000.	1q4.	.	.	.	.	.	.	.
KCNK1 ENST0000.	1q4.	Sc.	.	rs1006991 ID.	.	.	.	.
. ENST0000.	1q4.	.	.	rs3676265 ID.	.	.	.	.
. ENST0000.	1q4.	Score=0.9f	.	.	.	.	.	.
. ENST0000.	1q4.	.	.	.	.	.	.	.
. ENST0000.	1q4.	.	.	Score rs1000082.	.	.	.	.
. ENST0000.	1q4.	.	.	rs1825931.	.	.	.	.
ZNF69 ENST0000.	1q4.	.	.	rs7580154.	.	.	.	.
. ENST0000.	2p2.	.	.	rs3724090.	.	.	.	.
. ENST0000.	2p2.	.	.	rs7778730.	.	.	.	.
TRAPP ENST0000.	2p2.	.	.	.	.	.	.	.
TRAPP ENST0000.	2p2.	.	.	rs5690508.	.	.	.	0.001
. ENST0000.	2p2.	.	.	.	.	.	.	.
MBOA1 ENST0000.	2p2.	.	.	rs7490370.	.	.	.	.
ADAM1 ENST0000.	2p2.	.	.	rs3691590.	.	.	.	.
. ENST0000.	2p2.	.	.	Score rs9653906.	.	.	.	.
. ENST0000.	2p2.	Sc.	.	Score.	.	.	.	.
. ENST0000.	2p2.	.	.	rs3765736.	.	.	.	.
VSNL1 ENST0000.	2p2.	Sc.	.	rs3680831.	.	.	.	.
KCNS3 ENST0000.	2p2.	.	.	rs7556987.	.	.	.	.
KLHL2 ENST0000.	2p2.	Sc.	.	ID.	.	.	.	.
. ENST0000.	2p2.	.	.	rs5650507.	.	.	.	.
NCOA1 ENST0000.	2p2.	Sc.	.	rs7736455.	.	.	.	.
EMILIN ENST0000.	2p2.	.	.	rs1479767.	.	.	.	.
CAD:NI ENST0000.	2p2.	.	.	.	.	.	.	.
CAD:NI ENST0000.	2p2.	.	.	.	.	.	.	.
. ENST0000.	2p2.	.	.	.	.	.	.	.
. ENST0000.	2p2.	.	.	.	.	.	.	.
BIRC6: ENST0000.	2p2.	.	.	rs7664313 ID.	.	.	.	.
. ENST0000.	2p2.	.	.	Score rs1047800.	.	.	.	.
. ENST0000.	2p2.	.	.	Score.	.	.	.	.
STRN: ENST0000.	2p2.	.	.	.	.	.	.	.
. ENST0000.	2p2.	.	.	Score rs7725290 ID.	.	.	.	.
. ENST0000.	2p2.	.	.	.	.	.	.	.
. ENST0000.	2p1.	.	.	.	.	.	.	.
. ENST0000.	2p1.	.	.	.	.	.	.	.
. ENST0000.	2p1.	.	.	.	.	.	.	.
SPTBN ENST0000.	2p1.	Sc.	.	.	.	.	.	.
. ENST0000.	2p1.	Sc.	.	.	.	.	.	.
. ENST0000.	2p1.	.	.	Score rs7787019 ID.	.	.	.	.
CCDC ENST0000.	2p1.	.	.	rs7608139.	.	.	.	.
. ENST0000.	2p1.	Sc.	.	.	.	.	.	.
. ENST0000.	2p1.	.	.	.	.	.	.	.
. ENST0000.	2p1.	.	.	.	.	.	.	.
. ENST0000.	2p1.	.	.	.	.	.	.	.
ARHG ENST0000.	2p1.	.	.	ID.	.	.	.	.
. ENST0000.	2p1.	.	.	.	.	.	.	.
. ENST0000.	2p1.	.	.	.	.	.	.	.
. ENST0000.	2p1.	.	.	.	.	.	.	.
. ENST0000.	2p1.	.	.	.	.	.	.	.
EVA1A ENST0000.	2p1.	.	.	rs7670256 ID.	.	.	.	.
DNAH ENST0000.	2p1.	.	.	.	.	.	.	.
. ENST0000.	2p1.	.	.	rs1883943.	.	.	.	.
. ENST0000.	2p1.	.	.	.	.	.	.	.





GORA5	ENST0000	2q3	.	.	.	rs9215367	.	.	.	.	.	.
.	ENST0000	2q3	.	.	Score	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	rs9638533	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	Score	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	Score	.	ID	.	.	.	.	.
.	ENST0000	2q3	.	.	.	rs9603080	.	.	.	.	.	.
DNAJC	ENST0000	2q3	.	.	.	rs3772721	.	.	.	.	.	.
FSIP2:	ENST0000	2q3	.	.	.	rs3766275	.	.	.	.	.	.
FSIP2:	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	rs3768239	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	rs7715235	.	.	.	.	.	.
.	ENST0000	2q3	Sc	c	.	.	.	.	.	.	.	.
SDPR:	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
STK17	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
KCTD1	ENST0000	2q3	Sc	c	.	.	.	.	.	.	.	.
CLK1:	ENST0000	2q3	Sc	c	.	.	.	.	.	.	.	.
KIAA20	ENST0000	2q3	.	.	.	rs5481928	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	rs1901033	.	.	.	.	.	0.009
RAPH1	ENST0000	2q3	.	.	Score	rs7778048	.	.	.	.	.	.
EEF1B:	ENST0000	2q3	.	.	.	rs1477917	ID	.	.	.	.	.
.	ENST0000	2q3	Sc	c	.	rs5379398	.	.	.	.	.	0.001
CRYG	ENST0000	2q3	Sc	c	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
UNC80	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	rs5756405	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	rs3732211	.	.	.	.	.	.
DNAJB	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	rs7469670	.	.	.	.	.	.
.	ENST0000	2q3	Sc	c	.	rs5290584	.	.	.	.	.	.
EPHA4	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
IRS1:N	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	rs499449	.	.	.	.	.	0.426
NMUR'	ENST0000	2q3	.	.	.	rs7533248	.	.	.	.	.	.
.	ENST0000	2q3	.	Score=0.9	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	Score=0.9	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	Score=0.9	.	.	.	.	.	.	.	.
UNKN	ENST0000	2q3	Sc	c	.	rs2020267	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	rs1053770	.	.	.	.	.	.
MROH:	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
.	ENST0000	2q3	.	.	.	.	.	.	.	.	.	.
PER2:	ENST0000	2q3	.	.	.	rs7483373	.	.	.	.	.	.

.	ENST0000.	2q3.	.	.	.	.	.	.	.
KIF1A:1	ENST0000.	2q3.	.	.	rs3776284.	.	.	.	.
.	ENST0000.	2q3.	.	.	rs1500761.	.	.	.	0.001
.	ENST0000.	2q3.	.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	.	.	.	.	.	.
CHL1:1	ENST0000.	3p2.	.	.	rs3731564 ID:	.	.	.	.
.	ENST0000.	3p2.	.	.	Score rs5694312.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	Score.	.	.	.	.
.	ENST0000.	3p2.	.	.	Score rs7502023.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
CRELD	ENST0000.	3p2.	Sc.	.	rs7567892.	.	.	.	.
.	ENST0000.	3p2.	Score=0.9	.	.	.	.	.	.
SLC6A	ENST0000.	3p2.	Sc.	.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
.	.	3p2.	.	.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	Score rs9925095.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
CAPN7	ENST0000.	3p2.	.	.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
NR1D2	ENST0000.	3p2.	.	.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
.	.	3p2.	.	.	Score.	.	.	.	.
.	ENST0000.	3p2.	.	.	Score rs8972401 ID:	.	.	.	.
TGFBR	ENST0000.	3p2.	.	.	rs1124655.	.	.	.	.
.	ENST0000	hsa-mir-46	3p2.	.	Score.	.	.	.	.
UNKN	ENST0000.	3p2.	.	.	rs7802104.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
DCLK3	ENST0000.	3p2.	.	.	rs5407838.	.	.	.	0.001
.	ENST0000.	3p2.	.	.	rs5599017.	.	.	.	.
GOLG7	ENST0000.	3p2.	.	.	.	.	.	.	.
.	ENST0000.	3p2.	Sc.	.	rs3732183.	.	.	.	.
.	ENST0000.	3p2.	.	.	Score.	.	.	.	.
SCN10	ENST0000.	3p2.	.	.	rs7485706 ID:	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
CCR9:1	ENST0000.	3p2.	.	.	rs7745693.	.	.	.	.
.	ENST0000.	3p2.	.	.	Score.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
CCDC5	ENST0000.	3p2.	.	.	rs7512571.	.	.	.	.
.	ENST0000.	3p2.	.	.	rs5304720.	.	.	.	.
NCKIP1	ENST0000.	3p2.	.	.	rs3713830.	.	.	.	.
WDR6:	ENST0000.	3p2.	.	.	.	.	.	.	.
QRICH	ENST0000.	3p2.	.	.	rs2001906.	.	.	.	.
USP4:1	ENST0000.	3p2.	.	.	.	.	.	.	.
BSN:NI	ENST0000.	3p2.	.	.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
UNKN	ENST0000.	3p2.	Sc.	.	rs7596904.	.	.	.	.
.	ENST0000.	3p2.	.	.	rs1821535.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
PCBP4	ENST0000.	3p2.	.	.	rs7780907.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.

. ENST0000.	3p2.	.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	.	Score.	.	.	.	.	.
. ENST0000.	3p2.	.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	.	rs9624625.	.	.	.	.	.
. ENST0000.	3p2.	.	.	.	.	.	.	.	.
PBRM1 ENST0000.	3p2.	.	.	.	.	.	.	.	.
CACNA ENST0000.	3p2.	Scc.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	.	rs2000990 ID.	.	.	.	.	.
. ENST0000.	3p1.	.	.	Score rs9858893.	.	.	.	.	.
. ENST0000.	3p1.	.	.	Score rs1042360.	.	.	.	.	.
. ENST0000.	3p1.	.	.	.	.	.	.	.	.
. ENST0000.	3p1.	.	.	.	.	.	.	.	.
. ENST0000.	3p1.	.	.	.	.	.	.	.	.
. ENST0000.	3p1.	.	.	.	.	.	.	.	.
ADAM1 ENST0000.	3p1.	.	.	rs7458693.	.	.	.	.	.
LMOD3 ENST0000.	3p1.	.	.	.	.	.	.	.	.
MITF:N ENST0000.	3p1.	.	.	.	.	.	.	.	.
. ENST0000.	3p1.	Score=0.94.	.	rs7794528 ID.	.	.	.	.	.
MINA:N ENST0000.	3q1.	.	.	.	.	.	.	.	.
. ENST0000.	3q1.	.	.	.	.	.	.	.	.
. ENST0000.	3q1.	.	.	.	.	.	.	.	.
. ENST0000.	3q1.	.	.	.	.	.	.	.	.
CFAP4 ENST0000.	3q1.	.	.	.	.	.	.	.	.
. ENST0000.	3q1.	Scc.	.	.	.	.	.	.	.
. ENST0000.	3q1.	.	.	.	.	.	.	.	.
STXBP ENST0000.	3q1.	.	.	rs3684939.	.	.	.	.	.
. ENST0000.	3q2.	.	.	rs1001693 ID.	.	.	.	.	.
. ENST0000.	3q2.	Score=0.94.	.	rs1465223.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
PLXNA ENST0000.	3q2.	.	.	rs5528272.	.	.	.	.	0.001
TPRA1 ENST0000.	3q2.	Scc.	.	rs7511092.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	Score=0.92.	.	rs5631647.	.	.	.	.	.
. ENST0000.	3q2.	Score=0.91.	.	.	.	.	.	.	.
NUDT1 ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
PRR23 ENST0000.	3q2.	Score=0.90.	.	.	.	.	.	.	.
PRR23 ENST0000.	3q2.	Score=0.90.	.	.	.	.	.	.	.
CLSTN ENST0000.	3q2.	Scc.	.	rs1408440 ID.	.	.	.	.	.
RASA2 ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	rs7685217 ID: Likely.	.	.	.	.	0.002
PCOLC ENST0000.	3q2.	.	.	rs7705095.	.	.	.	.	.
. ENST0000.	3q2.	.	.	ID.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
EIF2A:I ENST0000.	3q2.	.	.	rs7605662.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000 hsa-mir-16	3q2.	Scc.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	Score.	.	.	.	.	.
SKIL:N ENST0000.	3q2.	Scc.	.	rs5388049.	.	.	.	.	.
. ENST0000.	3q2.	.	.	Score rs9368630.	.	.	.	.	.
. ENST0000.	3q2.	Score=0.91.	.	ID.	.	.	.	.	.
USP13 ENST0000.	3q2.	Scc.	.	rs7652687.	.	.	.	.	.

. ENST0000.	3q2.	.	.	rs5714458 ID.	.	.	0.001
MCCC7 ENST0000.	3q2.	.	.	.	.	.	.
KLHL6: ENST0000.	3q2.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	rs9015268.	.	.	.
. ENST0000.	3q2.	.	.	Score.	.	.	.
ECE2: ENST0000.	3q2.	.	.	rs3748943 ID.	.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.
LPP: N ENST0000.	3q2.	Sc.	.	rs7531929.	.	.	.
. ENST0000.	3q2.	.	.	rs7777314.	.	.	.
. . .	3q2.	.	.	Score=0.9.	.	.	.
. . .	3q2.	.	.	Score=0.9.	Score.	.	.
. ENST0000.	3q2.	.	.	.	.	.	.
. ENST0000.	3q2.	.	.	Score.	.	.	.
. ENST0000.	3q2.	.	.	Score rs8866852.	.	.	.
. ENST0000.	3q2.	.	.	Score=0.9.	rs7637750 ID.	.	.
. ENST0000.	4p1.	.	.	Score.	.	.	.
UNKNC ENST0000.	4p1.	Sc.	.	rs7620115.	.	.	.
. ENST0000.	4p1.	.	.	.	.	.	.
. ENST0000.	4p1.	.	.	rs9125004.	.	.	.
. ENST0000.	4p1.	.	.	.	.	.	.
. ENST0000.	4p1.	.	.	Score.	.	.	.
. ENST0000.	4p1.	.	.	rs5508099.	.	.	.
. ENST0000.	4p1.	.	.	.	.	.	.
. ENST0000.	4p1.	.	.	Score.	.	.	.
. . .	4p1.	.	.	rs9333127.	.	.	.
ADRA2 ENST0000.	4p1.	.	.	Score.	.	.	.
WFS1: ENST0000.	4p1.	.	.	rs5603533.	other .	.	0.001
. ENST0000.	4p1.	.	.	.	.	.	.
. ENST0000.	4p1.	.	.	ID.	.	.	.
AFAP1 ENST0000.	4p1.	.	.	rs3763511.	.	.	.
. ENST0000.	4p1.	.	.	rs2006520.	.	.	0.008
SH3TC ENST0000.	4p1.	.	.	rs7521101.	.	.	.
ZNF51 ENST0000.	4p1.	.	.	rs7804064 ID.	.	.	.
BOD1L ENST0000.	4p1.	.	.	Score.	.	.	.
CC2D2 ENST0000.	4p1.	Sc.	.	.	.	.	.
. ENST0000.	4p1.	.	.	.	.	.	.
CCDC1 ENST0000.	4p1.	.	.	.	.	.	.
. . .	4p1.	.	.	Score rs1420745.	.	.	0.01
. ENST0000.	4p1.	.	.	rs5344165.	.	.	.
. ENST0000.	4p1.	.	.	Score=0.9.	.	.	.
. ENST0000.	4p1.	.	.	Score=0.9.	.	.	.
RHOH: ENST0000.	4p1.	.	.	rs7759148 ID.	.	.	.
NSUN7 ENST0000.	4p1.	Sc.	.	.	.	.	.
. ENST0000.	4p1.	.	.	Score rs2856467 ID.	.	.	.
. ENST0000.	4p1.	.	.	Score=0.9.	rs1451863 ID.	.	.
. . .	4p1.	.	.	Score=0.9.	Score rs5941177.	.	.
LRR6 ENST0000.	4q1.	.	.	ID.	.	.	.
. ENST0000.	4q1.	Sc.	.	.	.	.	.
. ENST0000.	4q1.	.	.	.	.	.	.
. ENST0000.	4q1.	.	.	.	.	.	.
. ENST0000.	4q1.	.	.	.	.	.	.
UGT2B ENST0000.	4q1.	.	.	ID.	.	.	.
. ENST0000.	4q1.	.	.	.	.	.	.
. ENST0000.	4q1.	.	.	rs7619680.	.	.	.



. ENST0000.	5p1.	Sc.	.	.	.	.	.	.	.
. ENST0000.	5p1.	.	.	.	.	.	.	.	.
. ENST0000.	5p1.	.	.	.	.	.	.	.	.
.	5q1.	.	.	Score.	.	.	.	.	.
.	5q1.	.	.	Score rs4327635	.	.	.	.	.
.	5q1.	.	.	Score.	.	.	.	.	.
ACTBL ENST0000.	5q1.	.	.	rs2005764	.	.	.	.	.
PDE4D ENST0000.	5q1.	Sc.	.	.	.	.	.	.	.
.	5q1.	.	.	Score=0.9!	rs5582099	.	.	.	.
. ENST0000.	5q1.	Sc.	.	.	.	.	.	.	.
. ENST0000.	5q1.	.	.	.	.	.	.	.	.
. ENST0000.	5q1.	.	.	.	rs5672287	.	.	.	.
MAST4 ENST0000.	5q1.	Sc.	.	.	.	.	.	.	.
MAST4 ENST0000.	5q1.	Sc.	.	.	rs2016310	.	.	.	.
PIK3R1 ENST0000.	5q1.	.	.	.	.	.	.	.	.
. ENST0000.	5q1.	.	.	Score.	.	.	.	.	.
. ENST0000.	5q1.	.	.	Score=0.9!	.	.	.	.	.
. ENST0000.	5q1.	.	.	.	.	.	.	.	.
. ENST0000.	5q1.	.	.	Score.	.	.	.	.	.
. ENST0000.	5q1.	.	.	.	.	.	.	.	.
ACOT1 ENST0000.	5q1.	.	.	.	.	.	.	.	.
. ENST0000.	5q1.	.	.	Score=0.8!	.	.	.	.	.
. ENST0000.	5q1.	.	.	.	rs3717547 ID:	.	.	.	.
.	5q1.	.	.	Score rs7815826	.	.	.	.	.
GPR98 ENST0000.	5q1.	.	.	.	.	.	.	.	.
KIAA08 ENST0000.	5q1.	.	.	.	.	.	.	.	.
ARSK:† ENST0000.	5q1.	.	.	.	rs7633968 ID:	.	.	.	.
. ENST0000.	5q2.	.	.	Score=0.9!	.	.	.	.	.
PAM:N ENST0000.	5q2.	Sc.	.	.	.	.	.	.	.
. ENST0000.	5q2.	.	.	.	rs1114874	.	.	.	.
. ENST0000.	5q2.	.	.	.	.	.	.	.	.
EPB41 ENST0000.	5q2.	.	.	.	.	.	.	.	.
SEMA6 ENST0000.	5q2.	.	.	.	.	.	.	.	.
. ENST0000.	5q2.	.	.	.	.	.	.	.	.
UNKNC ENST0000.	5q3.	Sc.	.	.	rs9346631	.	.	.	.
. ENST0000.	5q3.	.	.	.	.	.	.	.	.
FSTL4: ENST0000.	5q3.	Sc.	.	.	rs7465490	.	.	.	.
.	5q3.	.	.	.	.	.	.	.	.
. ENST0000.	5q3.	.	.	.	rs7470418	.	.	.	.
CDC25 ENST0000.	5q3.	.	.	.	rs7665720 ID:	.	.	.	.
CDC25 ENST0000.	5q3.	.	.	.	.	.	.	.	.
EGR1:† ENST0000.	5q3.	.	.	Score.	.	.	.	.	.
EGR1:† ENST0000.	5q3.	.	.	Score rs7721589	.	.	.	.	.
ANKHC ENST0000.	5q3.	Sc.	.	.	.	.	.	.	.
PCDH <sup>A</sup> ENST0000.	5q3.	.	.	Score=0.9!	.	.	.	.	.
PCDH <sup>A</sup> ENST0000.	5q3.	.	.	.	ID:	.	.	.	.
PCDH <sup>A</sup> ENST0000.	5q3.	Sc.	.	.	rs7823690 ID:	.	.	.	.
PCDHE ENST0000.	5q3.	.	.	Score=0.9!	ID:	.	.	.	.
PCDHE ENST0000.	5q3.	.	.	Score=0.9!	.	.	.	.	.
PCDHC ENST0000.	5q3.	.	.	.	.	.	.	.	.
PCDHC ENST0000.	5q3.	.	.	.	rs9814581	.	.	.	.
PCDHC ENST0000.	5q3.	Sc.	.	.	rs5446331 ID:	.	.	.	.
PCDHC ENST0000.	5q3.	.	.	.	rs3769527 ID:	.	.	.	.
PCDHC ENST0000.	5q3.	Sc.	.	.	rs7719463	.	.	.	.

KIAA01	ENST0000.	5q3.	Sc.	rs2018026 ID.		0.004
.	ENST0000.	5q3.	.	Score rs1000063.		
.	ENST0000.	5q3.	.	.		
.	ENST0000.	5q3.	.	.		
SYNPC	ENST0000.	5q3.	.	.		
G3BP1	ENST0000.	5q3.	Sc	Score=0.9.		
.	ENST0000.	5q3.	.	rs5492040.		0.002
RNF14	ENST0000.	5q3.	.	rs5611223.		
TENM2	ENST0000.	5q3.	Sc.	.		
TENM2	ENST0000.	5q3.	.	.		
WWC1	ENST0000.	5q3.	.	rs1491693.		
RARS:1	ENST0000.	5q3.	.	rs7577825 ID.		
.	ENST0000.	5q3.	.	.		
SH3PX	ENST0000.	5q3.	.	.		
.	ENST0000.	5q3.	.	rs1822272.		
.	ENST0000.	5q3.	.	.		
.	ENST0000.	5q3.	Sc.	.		
.	ENST0000.	5q3.	.	.		
.	ENST0000.	5q3.	.	rs4551119.		
FGFR4	ENST0000.	5q3.	Sc.	rs5582208.		
.	ENST0000.	5q3.	.	Score=0.9.		
.	ENST0000.	5q3.	.	Score=0.9.		
.	ENST0000.	5q3.	.	.		
.	ENST0000.	5q3.	.	Score=0.9.	rs1025870.	
.	ENST0000.	5q3.	Sc.	Score.		
.	ENST0000.	5q3.	.	Score.		
RPP40	ENST0000.	6p2.	.	rs7651293.		
.	ENST0000.	6p2.	.	Score rs1023580.		
.	ENST0000.	6p2.	.	rs1864505.		
.	ENST0000.	6p2.	.	Score=0.9.		
.	ENST0000.	6p2.	.	rs2004302.		
.	ENST0000.	6p2.	.	.		
.	ENST0000.	6p2.	.	rs3692600 ID.		
HIVEP	ENST0000.	6p2.	.	rs7468362.		
.	ENST0000.	6p2.	.	rs7674897.		
.	ENST0000.	6p2.	.	.		
.	.	6p2.	.	Score=0.9.		
.	ENST0000.	6p2.	.	Score=0.9.		
.	ENST0000.	6p2.	.	Score=0.9.		
.	ENST0000.	6p2.	.	.		
.	.	6p2.	.	.		
.	ENST0000.	6p2.	.	Score.		
.	ENST0000.	6p2.	.	.		
.	ENST0000.	6p2.	.	Score rs7653588 ID.		
.	ENST0000.	6p2.	.	Score=0.9.		
.	ENST0000.	6p2.	.	rs7511377.		
.	ENST0000.	6p2.	.	.		
.	ENST0000.	6p2.	.	.		
PRRC2	ENST0000.	6p2.	.	rs7792598.		
.	ENST0000.	6p2.	.	.		
.	ENST0000.	6p2.	.	.		
COL11.	ENST0000.	6p2.	.	rs1119219.		
COL11.	ENST0000.	6p2.	Sc.	rs7759216.		





UST:NI	ENST0000.	6q2.	Sc.	rs7737449 ID.	.	.	.
GINM1	ENST0000.	6q2.	Sc.	rs7774557.	.	.	.
KATNA	ENST0000.	6q2.	Sc.	.	.	.	.
.	ENST0000.	6q2.	Score=0.9	.	.	.	.
.	ENST0000.	6q2.	.	.	.	.	.
.	ENST0000.	6q2.	.	.	.	.	.
.	ENST0000.	6q2.	.	rs5290225.	.	.	.
.	ENST0000.	6q2.	.	ID.	.	.	.
IPCEF1	ENST0000.	6q2.	.	.	.	.	.
SCAF8	ENST0000.	6q2.	.	.	.	.	.
ARID1E	ENST0000.	6q2.	.	ID.	.	.	.
.	ENST0000.	6q2.	.	rs1015839.	.	.	.
SOD2:1	ENST0000.	6q2.	Sc.	.	.	.	.
.	ENST0000.	6q2.	Score=0.9	.	.	.	.
.	ENST0000.	6q2.	Score.	.	.	.	.
.	ENST0000.	6q2.	Score=0.9	.	.	.	.
.	ENST0000.	6q2.	.	.	.	.	.
PARK2	ENST0000.	6q2.	.	.	.	.	.
QKI:NM	ENST0000.	6q2.	Sc.	rs7739962.	.	.	.
C6orf1	ENST0000.	6q2.	.	rs2008105 ID.	.	.	.
.	ENST0000.	6q2.	Score=0.9	rs7558449.	.	.	.
.	ENST0000.	6q2.	.	.	.	.	.
FAM20	ENST0000.	7p2.	.	.	.	.	.
.	.	7p2.	.	.	.	.	.
.	ENST0000.	7p2.	.	.	.	.	.
INTS1:1	ENST0000.	7p2.	.	.	.	.	.
INTS1:1	ENST0000.	7p2.	.	.	.	.	.
INTS1:1	ENST0000.	7p2.	Sc.	rs7786995.	.	.	.
.	ENST0000.	7p2.	.	.	.	.	.
.	ENST0000.	7p2.	Score.	.	.	.	.
CHST1	ENST0000.	7p2.	.	rs5612232.	.	.	.
.	ENST0000.	7p2.	.	.	.	.	.
.	ENST0000.	7p2.	.	rs3699321.	.	.	.
.	ENST0000.	7p2.	.	.	.	.	.
.	ENST0000.	7p2.	.	rs5413152.	.	.	.
CCZ1:1	ENST0000.	7p2.	Score=0.9	.	.	.	.
CYTH3	ENST0000.	7p2.	.	.	.	.	.
DAGLB	ENST0000.	7p2.	.	rs7747652.	.	.	.
GRID2I	ENST0000.	7p2.	Sc.	.	.	.	.
C7orf2	ENST0000.	7p2.	.	.	.	.	.
ZNF31	ENST0000.	7p2.	Sc.	.	.	.	.
.	ENST0000.	7p2.	Score=0.9	rs7800175 ID.	.	.	.
.	ENST0000.	7p2.	Score=0.9	rs8790524.	.	.	.
.	ENST0000.	7p2.	Score=0.9	rs3726603 ID.	.	.	.
COL28	ENST0000.	7p2.	.	.	.	.	.
MIOS:1	ENST0000.	7p2.	.	ID.	.	.	.
.	ENST0000.	7p2.	Score.	.	.	.	.
THSD7	ENST0000.	7p2.	.	.	.	.	.
.	ENST0000.	7p2.	.	.	.	.	.
DNAH1	ENST0000.	7p1.	.	rs3710375.	.	.	.
.	ENST0000.	7p1.	Score.	.	.	.	.
.	ENST0000.	7p1.	.	.	.	.	.
HIBADI	ENST0000.	7p1.	.	rs1427054.	.	.	.
NOD1:1	ENST0000.	7p1.	.	.	.	.	.

.	.	7p1.	.	.	.	.	.	.	.
.	ENST0000.	7p1.	Sc	Score=0.9	.	.	.	.	.
FKBP9	ENST0000.	7p1.	.	Score=0.9	rs7507081	.	.	.	.
.	ENST0000.	7p1.	.	.	.	.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9	rs7696767 ID	.	.	.	.
.	ENST0000.	7p1.	Sc	Score=0.9	.	.	.	.	.
HECW	ENST0000.	7p1.	.	.	rs7755650 ID	.	.	.	.
.	ENST0000.	7p1.	.	.	.	.	.	.	.
UNKN	ENST0000.	7p1.	.	.	.	.	.	.	.
.	ENST0000.	7p1.	.	.	Score rs1113701	.	.	.	.
.	ENST0000.	7p1.	.	.	.	.	.	.	.
.	ENST0000.	7p1.	.	.	.	.	.	.	.
ADCY1	ENST0000.	7p1.	.	.	rs7476235	.	.	.	.
.	ENST0000.	7p1.	.	.	rs1024757	.	.	.	.
.	ENST0000.	7p1.	.	.	.	.	.	.	.
UNKN	ENST0000.	7p1.	.	.	.	.	.	.	.
NUPR1	ENST0000.	7p1.	.	.	.	.	.	.	.
.	.	7p1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9	rs3749762	.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9	rs8799601 ID	.	.	.	.
.	ENST0000.	7p1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	.	.	.	.	.
.	.	7q1.	.	Score=0.9	.	.	.	.	.
.	.	7q1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	Score rs6156381	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	ID	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	rs5480693 ID	.	.	.	0.015
WBSCI	ENST0000.	7q1.	Sc	.	rs7706902	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	Score rs5574064	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	.	.	.	.	.
FZD9	ENST0000.	7q1.	.	.	.	.	.	.	.
BAZ1B	ENST0000.	7q1.	.	.	rs7822351	.	.	.	.
.	ENST0000.	7q1.	.	.	.	.	.	.	.
.	ENST0000.	7q1.	.	.	.	.	.	.	.
GTF2IF	ENST0000.	7q1.	.	.	rs7822129	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	rs3705131	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	rs8799812	.	.	.	.
.	ENST0000.	7q1.	.	Score=0.9	rs1493360	.	.	.	0.569
.	ENST0000.	7q1.	.	Score=0.9	rs1403890	.	.	.	.
.	ENST0000.	7q2.	.	.	.	.	.	.	.
.	ENST0000.	7q2.	.	.	.	.	.	.	.
PCLO	ENST0000.	7q2.	.	.	.	.	.	.	.
CDK14	ENST0000.	7q2.	.	.	rs1413343	.	.	.	.
.	ENST0000.	7q2.	.	.	rs9879024	.	.	.	.
COL1A	ENST0000.	7q2.	Sc	.	rs7641741 ID	.	.	.	.
.	ENST0000.	7q2.	.	.	.	.	.	.	.
.	ENST0000.	7q2.	.	.	.	.	.	.	.

. ENST0000.	7q2.	.	.	ID.	.	.	.
. ENST0000.	7q2.	.	.	rs7821462.	.	.	.
TRRAF ENST0000.	7q2.	Sc.	.	rs7752142 ID.	.	.	.
. ENST0000.	7q2.	.	.	.	.	.	.
. ENST0000.	7q2.	.	.	rs9034524 ID.	.	.	.
PCOLC ENST0000.	7q2.	Sc.	.	rs5767320.	.	.	.
ACTL6 ENST0000.	7q2.	Sc.	.	.	.	.	.
MUC12 ENST0000.	7q2.	.	Score=0.9f.	rs7641678.	.	.	.
. ENST0000.	7q2.	.	.	.	.	.	.
CUX1: ENST0000.	7q2.	.	.	.	.	.	.
RASA4 ENST0000.	7q2.	.	Score=0.9f.	rs7590335.	.	.	.
. ENST0000.	7q2.	.	Score=0.9f.	rs4729845 ID.	.	.	.
PSMC2 ENST0000.	7q2.	.	.	.	.	.	.
ORC5: ENST0000.	7q2.	Sc.	.	.	.	.	.
LRRN3 ENST0000.	7q3.	Sc.	.	.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
. ENST0000.	7q3.	.	.	rs1457073.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
GPR37 ENST0000.	7q3.	.	.	rs3755434.	.	.	.
. ENST0000.	7q3.	.	Score=0.9f.	.	.	.	.
FLNC: ENST0000.	7q3.	.	Score=0.9f.	.	.	.	.
SMO: ENST0000.	7q3.	.	.	rs2006779.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
PLXNA ENST0000.	7q3.	.	.	rs3679590.	.	.	.
. ENST0000.	7q3.	Sc.	.	.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
DGKI: ENST0000.	7q3.	.	.	.	.	.	.
CREB3 ENST0000.	7q3.	.	.	.	.	.	.
. ENST0000.	7q3.	.	.	rs1825415.	.	.	0.007
. ENST0000.	7q3.	.	.	.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
MGAM: ENST0000.	7q3.	.	.	rs7825497 ID.	.	.	.
UNKNC ENST0000.	7q3.	.	.	.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
. ENST0000.	7q3.	.	Score=0.9f.	.	.	.	.
. ENST0000.	7q3.	.	.	rs7663697.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
. ENST0000.	7q3.	.	.	rs3733853 ID.	.	.	.
CNTNA ENST0000.	7q3.	.	.	rs7598872.	.	.	.
. ENST0000.	7q3.	.	.	rs8019707.	.	.	0.013
SSPO: ENST0000.	7q3.	.	.	rs1447568.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
UNKNC ENST0000.	7q3.	.	.	.	.	.	.
CDK5: ENST0000.	7q3.	Sc.	.	.	.	.	.
TMUB1 ENST0000.	7q3.	Sc.	.	.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.
KMT2C ENST0000.	7q3.	.	.	rs3761181.	.	.	.
. ENST0000.	7q3.	.	Score=0.9f.	.	.	.	.
. ENST0000.	7q3.	.	Score=0.9f.	rs9367654.	.	.	.

. ENST0000.	7q3.	.	.	.	.	.	.	.	.
. ENST0000.	7q3.	.	.	Score rs1056749.	.	.	.	.	.
. ENST0000.	7q3.	.	.	rs3696336.	.	.	.	.	.
. ENST0000.	7q3.	.	.	.	.	.	.	.	.
. ENST0000.	8p2.	.	.	.	.	.	.	.	.
CLN8: ENST0000.	8p2.	Sc.	.	.	.	.	.	.	.
XKR5: ENST0000.	8p2.	.	.	rs1995647.	.	.	.	.	.
. ENST0000.	8p2.	.	.	.	.	.	.	.	.
USP17: ENST0000.	8p2.	.	.	Score=0.9 rs7692119.	.	.	.	.	.
. . .	8p2.	.	.	Score=0.9 rs2946428 ID.	.	.	.	.	.
CLDN2 ENST0000.	8p2.	.	.	rs7810476.	.	.	.	.	.
RP1L1: ENST0000.	8p2.	.	.	rs7606573.	.	.	.	.	.
. ENST0000.	8p2.	.	.	.	.	.	.	.	.
. ENST0000.	8p2.	.	.	Score rs7511375.	.	.	.	.	.
SLC35: ENST0000.	8p2.	.	.	Score=0.9 rs7626017.	.	.	.	.	.
. ENST0000.	8p2.	.	.	.	.	.	.	.	.
. ENST0000.	8p2.	.	.	Score=0.9.	.	.	.	.	.
. ENST0000.	8p2.	.	.	Score=0.9 rs3988723.	.	.	.	0.425	.
. ENST0000.	8p2.	.	.	Score=0.9 rs3713666.	.	.	.	.	.
. ENST0000.	8p2.	.	.	rs1036449.	.	.	.	.	.
TUSC3 ENST0000.	8p2.	Sc.	.	.	.	.	.	.	.
. . .	8p2.	.	.	Score rs1470216 ID.	.	.	.	.	.
. . .	8p2.	.	.	Score rs1394112.	.	.	.	.	.
. ENST0000.	8p2.	.	.	.	.	.	.	.	.
. ENST0000.	8p2.	.	.	.	.	.	.	.	.
. ENST0000.	8p2.	.	.	.	.	.	.	.	.
NKX2- ENST0000.	8p2.	.	.	.	.	.	.	.	.
. ENST0000.	8p2.	.	.	rs7690910.	.	.	.	.	.
. ENST0000.	8p2.	.	.	rs2013688.	.	.	.	0.001	.
. ENST0000.	8p2.	.	.	.	.	.	.	.	.
EPHX2 ENST0000.	8p2.	.	.	rs7247582.	.	.	.	.	.
. ENST0000.	8p1.	.	.	.	.	.	.	.	.
TEX15: ENST0000.	8p1.	.	.	rs1419780 ID.	.	.	.	.	.
DUSP2 ENST0000.	8p1.	.	.	rs1198970.	.	.	.	.	.
. ENST0000.	8p1.	.	.	rs5320288.	.	.	.	.	.
. ENST0000.	8p1.	.	.	Score.	.	.	.	.	.
. ENST0000.	8p1.	.	.	Score rs7612284.	.	.	.	.	.
. ENST0000.	8p1.	.	.	.	.	.	.	.	.
TACC1 ENST0000.	8p1.	.	.	rs7608102.	.	.	.	.	.
. ENST0000.	8p1.	.	.	.	.	.	.	.	.
. ENST0000.	8p1.	.	.	.	.	.	.	.	.
. ENST0000.	8p1.	.	.	rs3705628.	.	.	.	.	.
. ENST0000.	8p1.	.	.	rs7605197.	.	.	.	.	.
. . .	8p1.	.	.	Score.	.	.	.	.	.
. . .	8p1.	.	.	Score rs3733322.	.	.	.	.	.
. . .	8p1.	.	.	Score rs2003364 ID.	.	.	.	.	.
. . .	8p1.	.	.	Score.	.	.	.	.	.
. . .	8q1.	.	.	Score rs4498566.	.	.	.	.	.
. . .	8q1.	.	.	Score.	.	.	.	.	.
. . .	8q1.	.	.	Score rs4401873.	.	.	.	.	.
EFCAB ENST0000.	8q1.	.	.	.	.	.	.	.	.
. ENST0000.	8q1.	.	.	.	.	.	.	.	.
. ENST0000.	8q1.	.	.	.	.	.	.	.	.
. ENST0000.	8q1.	Sc.	.	rs1871956.	.	.	.	.	.



BNC2:↑ENST0000.	9p2.	Sc.	.	.	.	.	.	.	.	.
CNTLNENST0000.	9p2.	Sc.	.	rs7717080.	.	.	.	.	.	.
SLC24↓ENST0000.	9p2.	.	.	.	.	.	.	.	.	.
UNKNC ENST0000.	9p2.	Sc.	.	rs7552126 ID:	.	.	.	.	.	.
. ENST0000.	9p2.	.	.	Score rs8986502.	.	.	.	.	.	.
. ENST0000.	9p2.	.	.	rs7703822.	.	.	.	.	.	.
. ENST0000.	9p1.	.	.	.	.	.	.	.	.	.
TESK1 ENST0000.	9p1.	.	.	.	ID:	.	.	.	.	.
FBXO1 ENST0000.	9p1.	Sc.	.	.	.	.	.	.	.	.
FRMPI ENST0000.	9p1.	.	.	.	ID:	.	.	.	.	.
. ENST0000.	9p1.	.	Score=0.9	rs1616872 ID:	.	.	.	.	.	.
CNTNA ENST0000.	9p1.	.	Score=0.9	Score rs7820531 ID:	.	.	.	.	.	.
. . .	9p1.	.	Score=0.9	Score rs6255281	.	.	.	.	.	.
. ENST0000.	9q1.	.	Score=0.9	.	.	.	.	.	.	.
. ENST0000.	9q1.	.	Score=0.9	rs2003121 ID:	.	.	.	.	.	.
. . .	9q1.	.	Score=0.9	Score rs2016275.	.	.	.	.	.	.
. . .	9q1.	.	Score=0.9	rs2013763.	.	.	.	.	.	.
. ENST0000.	9q1.	.	Score=0.9	rs3764322 ID:	.	.	.	.	.	.
. ENST0000.	9q1.	.	Score=0.9	.	.	.	.	.	.	.
FOXD4 ENST0000.	9q2.	.	Score=0.9	.	.	.	.	.	.	.
FOXD4 ENST0000.	9q2.	.	Score=0.9	rs7506128	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	Score.	.	.	.	.	.	.
TMEM2 ENST0000.	9q2.	Sc.	.	.	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	.	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	rs9660777	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	rs5294239.	.	.	.	.	.	.
. . .	9q2.	.	.	.	.	.	.	.	.	.
SPATA ENST0000.	9q2.	.	Score=0.9	rs5696558 ID:	.	.	.	.	.	.
. ENST0000.	9q2.	.	Score=0.9	.	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	rs7749802.	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	.	.	.	.	.	.	.
ZCCHC ENST0000.	9q2.	.	.	.	.	.	.	.	.	.
. ENST0000.	9q2.	.	Score=0.9	rs9367277	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	rs1447929.	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	.	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	Score.	.	.	.	.	.	.
WNK2: ENST0000.	9q2.	.	.	rs5352400.	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	.	ID:	.	.	.	.	.
. ENST0000.	9q2.	Sc.	.	.	.	.	.	.	.	.
ZNF36 ENST0000.	9q2.	.	.	.	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	rs5750212.	.	.	.	.	.	.
ZNF78 ENST0000.	9q2.	.	.	rs5664919 ID:	.	.	.	.	.	.
. ENST0000.	9q2.	.	.	rs5346016	.	.	.	.	.	0.001
. ENST0000.	9q3.	.	.	Score rs5275568.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.	.	.
KIAA19 ENST0000.	9q3.	Sc.	.	rs9418280.	.	.	.	.	.	.
KIAA19 ENST0000.	9q3.	Sc.	.	rs7534529.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	Score.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	rs1017044.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	rs5296296	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	Score.	.	.	.	.	.	.
PAPPA ENST0000.	9q3.	Sc.	.	rs5393503 ID:	.	.	.	.	.	.

. ENST0000.	9q3.	.	.	rs5770416.	.	.	.	.
. ENST0000.	9q3.	.	.	rs7765588.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
DAB2IF ENST0000.	9q3.	Sc.	.	rs7817163.	.	.	.	.
DAB2IF ENST0000.	9q3.	Sc.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	Score rs7671231.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
LRSAM ENST0000.	9q3.	.	.	rs7704105.	.	.	.	.
STXBP ENST0000.	9q3.	.	.	rs7514371.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
FPGS:† ENST0000.	9q3.	.	.	rs7724303 ID.	.	.	.	.
. ENST0000.	9q3.	.	.	rs3755590.	.	.	.	.
ODF2:† ENST0000.	9q3.	Sc.	.	rs7704197.	.	.	.	.
SPTAN ENST0000.	9q3.	.	.	rs3700623.	Likely.	.	.	.
SPTAN ENST0000.	9q3.	Sc.	.	rs1020109.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	rs1200306.	.	.	.	.
. ENST0000.	9q3.	.	.	Score rs4837317 ID.	.	.	.	.
. ENST0000.	9q3.	.	.	Score rs4837318 ID.	.	.	.	.
DOLPP ENST0000.	9q3.	.	.	rs7690702.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
CRAT:† ENST0000.	9q3.	Sc.	.	.	ID.	.	.	.
RAPGE ENST0000.	9q3.	.	.	rs9375934 ID.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
SETX:† ENST0000.	9q3.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	rs4498679.	.	.	.	0.038
. ENST0000.	9q3.	.	.	.	.	.	.	.
RALGC ENST0000.	9q3.	.	.	Score.	.	.	.	.
GBGT1 ENST0000.	9q3.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
STKLD ENST0000.	9q3.	.	.	rs7823594 ID.	.	.	.	.
TMEM‡ ENST0000.	9q3.	.	.	rs7806069.	.	.	.	.
DBH:NI ENST0000.	9q3.	.	.	.	.	.	.	.
COL5A ENST0000.	9q3.	.	.	.	.	.	.	.
COL5A ENST0000.	9q3.	.	.	rs6173790.	Benig.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
CAMS/ ENST0000.	9q3.	.	.	rs7478355.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	rs9942197 ID.	.	.	.	.
NOTCH ENST0000.	9q3.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	.	.	.	.	.
FAM69 ENST0000.	9q3.	.	.	.	.	.	.	.
. ENST0000.	9q3.	.	.	Score.	.	.	.	.
TRAF2 ENST0000.	9q3.	.	.	rs1399152.	.	.	.	.
. ENST0000.	9q3.	.	.	rs5651517.	.	.	.	.
. ENST0000.	9q3.	.	.	rs7788028.	.	.	.	.
FAM16 ENST0000.	9q3.	.	.	.	.	.	.	.
TOR4A ENST0000.	9q3.	.	.	rs7776402 ID.	.	.	.	.
. ENST0000.	9q3.	.	.	rs1126228.	.	.	.	0.001
. ENST0000.	9q3.	.	.	.	.	.	.	.
. ENST0000.	9q3.	Score=0.9†.	.	rs3707879.	.	.	.	.

.	ENST0000.	10p.	.	.	rs7547454.	.	.	.	.
.	ENST0000.	10p.	.	.	Score.	.	.	.	.
.	ENST0000.	10p.	.	.	rs5680149.	.	.	.	0.001
.	ENST0000.	10p.	.	.	Score.	.	.	.	.
SFMBT	ENST0000.	10p.	.	.	rs2019140 ID.	.	.	.	.
.	ENST0000.	10p.	.	.	Score rs7961144.	.	.	.	.
ITIH5:1	ENST0000.	10p.	.	.	rs3708927 ID.	.	.	.	.
.	ENST0000.	10p.	.	.	.	.	.	.	.
.	ENST0000.	10p.	.	.	.	.	.	.	.
.	.	10p.	.	.	Score.	.	.	.	.
.	.	10p.	.	.	.	.	.	.	.
.	ENST0000.	10p.	.	Score=0.9	Score rs1919845.	.	.	.	.
.	ENST0000.	10p.	.	.	rs7658069 ID.	.	.	.	0.03
CUBN:1	ENST0000.	10p.	.	.	.	.	.	.	.
.	ENST0000.	10p.	.	.	.	.	.	.	.
.	ENST0000.	10p.	.	.	rs9652901.	.	.	.	.
KIAA12	ENST0000.	10p.	.	.	.	.	.	.	.
ARHG7	ENST0000.	10p.	Sc	Score=0.9	rs7647799.	.	.	.	.
.	ENST0000.	10p.	.	.	rs1999030.	.	.	.	.
MYO3A	ENST0000.	10p.	.	.	.	.	.	.	.
.	ENST0000.	10p.	.	.	ID.	.	.	.	.
ANKRD	ENST0000.	10p.	.	.	rs3678495 ID: Uncer.	.	.	.	.
.	ENST0000.	10p.	.	.	.	.	.	.	.
.	ENST0000.	10p.	.	Score=0.9	ID.	.	.	.	.
.	ENST0000.	10p.	.	Score=0.9	rs7766630.	.	.	.	.
.	ENST0000.	10p.	.	Score=0.9	rs5733337.	.	.	.	.
CCNY:1	ENST0000.	10p.	Sc	.	ID.	.	.	.	.
.	.	10q.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	10q.	.	Score=0.9	ID.	.	.	.	.
.	ENST0000.	10q.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	10q.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.	.	.
WDFY2	ENST0000.	10q.	.	.	rs9040575 ID.	.	.	.	.
CHAT:1	ENST0000.	10q.	.	.	rs3745238.	.	.	.	.
.	ENST0000.	10q.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	10q.	.	.	rs7512474.	.	.	.	.
.	.	10q.	.	.	Score.	.	.	.	.
FAM13	ENST0000.	10q.	.	.	rs1389134 ID.	.	.	.	.
.	ENST0000.	10q.	.	.	rs5737945.	.	.	.	.
.	ENST0000.	10q.	.	.	Score.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.	.	.
COL13	ENST0000.	10q.	.	.	rs7548920 ID.	.	.	.	.
AIFM2:	ENST0000.	10q.	Sc	.	.	.	.	.	.
.	ENST0000.	10q.	.	.	rs3744653.	.	.	.	.
CDH23	ENST0000.	10q.	Sc	.	rs2017279 ID: Likely	.	.	.	.
P4HA1	ENST0000.	10q.	Sc	.	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.	.	.
.	ENST0000.	10q.	.	.	rs7759506.	.	.	.	.
.	ENST0000.	10q.	.	Score=0.9	rs7802380 ID.	.	.	.	.
.	ENST0000.	10q.	.	Score=0.9	Score rs8789174.	.	.	.	.
.	ENST0000.	10q.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.	.	.



SH2D4	ENST0000.	10q.	Sc.	rs5681324			0.001
.	ENST0000.	10q.	.	.	.	.	.
LRIT1:	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.
.	.	10q.	.	Score	rs5296587	.	.
.	ENST0000.	10q.	.	.	.	.	.
MYOF:	ENST0000.	10q.	.	rs3696055	.	.	.
CEP55	ENST0000.	10q.	.	rs7535868	.	.	.
.	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	Score	rs9047130	.	.
BLNK:	ENST0000.	10q.	.	rs7826084	.	.	.
.	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	Score	rs3769880	.	.
.	ENST0000.	10q.	.	rs9945308	.	.	.
HPSE2	ENST0000.	10q.	.	rs5392081	ID:	.	.
CUTC:	ENST0000.	10q.	Sc.	rs3692674	.	.	.
.	ENST0000.	10q.	.	rs9441434	.	.	.
PPRC1	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	Score	.	.	.
PDZD8	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	Score	.	.	.
.	ENST0000.	10q.	.	.	.	.	.
FAM17	ENST0000.	10q.	.	rs7503782	ID:	.	.
UNKN	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	rs3765225	.	.	.
FOXI2:	ENST0000.	10q.	.	.	ID:	.	.
.	ENST0000.	10q.	.	rs5455183	.	.	.
NKX6-2	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	rs5396027	.	.	.
PRAP1	ENST0000.	10q.	Sc.	.	.	.	.
PAOX:	ENST0000.	10q.	Sc.	.	.	.	.
.	ENST0000.	10q.	.	rs7793478	ID:	.	.
.	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	11p.	.	Score=0.9	.	.	.
.	ENST0000.	11p.	.	rs2003509	ID:	.	.
.	ENST0000.	11p.	.	.	.	.	.
.	ENST0000.	11p.	.	rs1008718	.	.	.
.	ENST0000.	11p.	.	rs7793525	.	.	.
LMNT	ENST0000.	11p.	Sc.	rs3741463	.	.	.
PHRF1	ENST0000.	11p.	.	.	.	.	.
.	ENST0000.	11p.	.	.	.	.	.
.	ENST0000.	11p.	.	rs8960121	.	.	.
.	ENST0000.	11p.	.	rs7582346	.	.	.
.	ENST0000.	11p.	.	rs7514641	.	.	.
.	ENST0000.	11p.	.	.	.	.	.
MUC5E	ENST0000.	11p.	.	.	ID:	.	.
MUC5E	ENST0000.	11p.	Sc.	.	ID:	.	.

MUC5E	ENST0000	11p.	.	.	rs3689865 ID: Uncer	.	.
.	ENST0000	11p.	.	.	.	.	.
.	.	11p.	.	.	rs1019902	.	.
.	ENST0000	11p.	.	.	Score rs7724812	.	.
.	ENST0000	11p.	.	.	.	.	.
.	ENST0000	11p.	.	.	.	.	.
.	.	11p.	.	.	Score=0.9	rs5592355 ID:	0.115
OR52B	ENST0000	11p.	.	.	.	.	.
.	ENST0000	11p.	.	.	ID:	.	.
.	ENST0000	11p.	.	.	Score rs8669468 ID:	.	.
.	ENST0000	11p.	.	.	.	.	.
.	ENST0000	11p.	.	.	rs7289628	.	0.001
DCHS1	ENST0000	11p.	.	.	.	.	.
DCHS1	ENST0000	11p.	.	.	.	.	.
MICAL	ENST0000	11p.	.	.	rs7595225	.	.
UNKNC	ENST0000	11p.	Sc	.	rs7811107	.	.
UNKNC	ENST0000	11p.	.	.	ID:	.	.
RRAS2	ENST0000	11p.	.	.	rs7824579 ID:	.	.
PDE3B	ENST0000	11p.	Sc	.	.	.	.
.	ENST0000	11p.	.	.	.	.	.
.	ENST0000	11p.	.	.	Score:	.	.
PLEKH	ENST0000	11p.	.	.	rs7785451	.	.
OTOG:	ENST0000	11p.	Sc	.	.	.	.
TPH1:	ENST0000	11p.	Sc	.	.	.	.
.	ENST0000	11p.	.	.	.	.	.
.	ENST0000	11p.	.	.	Score=0.9	.	.
.	ENST0000	11p.	.	.	.	.	.
.	ENST0000	11p.	.	.	.	.	.
NELL1:	ENST0000	11p.	Sc	.	rs1146385	.	.
GAS2:	ENST0000	11p.	.	.	.	.	.
.	ENST0000	11p.	.	.	Score=0.9	.	.
.	ENST0000	11p.	.	.	.	.	.
.	ENST0000	11p.	.	.	.	.	.
HSD17	ENST0000	11p.	.	.	Score=0.9	.	.
ZNF40	ENST0000	11p.	Sc	.	.	.	.
CKAP5	ENST0000	11p.	Sc	.	.	.	.
.	ENST0000	11p.	.	.	Score rs7731977	.	.
OR4A1	ENST0000	11q.	Sc	Score=0.9	ID:	.	.
.	ENST0000	11q.	.	.	rs7783566	.	.
SMTNL	ENST0000	11q.	.	.	.	.	.
OR1S1	ENST0000	11q.	.	.	Score=0.8	rs7556226	.
OR10G	ENST0000	11q.	.	.	rs3705153	.	.
.	ENST0000	11q.	.	.	rs7461600	.	.
PPP1R	ENST0000	11q.	.	.	rs7613895	.	.
.	ENST0000	11q.	.	.	.	.	.
FADS1	ENST0000	11q.	.	.	.	.	.
AHNAK	ENST0000	11q.	.	.	rs7506613	.	.
MTA2:	ENST0000	11q.	.	.	rs3688014	.	.
INTS5:	ENST0000	11q.	.	.	rs3734262	.	.
.	ENST0000	11q.	.	.	.	.	.
NAA40	ENST0000	11q.	.	.	rs7551956	.	.
.	ENST0000	11q.	.	.	rs320149 ID:	.	.
.	ENST0000	11q.	.	.	.	.	.
PYGM:	ENST0000	11q.	Sc	.	rs7694797	.	.

SYVN1	ENST0000.	11q.	Sc.	rs7599871.	.	.	.	.
.	ENST0000.	11q.	.	rs2009796 ID.	.	.	.	.
.	ENST0000.	11q.	.	Score.	.	.	.	.
KCNK7	ENST0000.	11q.	.	.	.	.	.	.
MAP3K	ENST0000.	11q.	Sc.	.	.	.	.	.
PCNXL	ENST0000.	11q.	.	rs3731576.	.	.	.	.
SIPA1:↓	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
GAL3S	ENST0000.	11q.	Sc.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
CD248:	ENST0000.	11q.	.	.	.	.	.	.
BRMS1	ENST0000.	11q.	Sc.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	.	rs8917540.	.	.	.	.
TCIRG	ENST0000.	11q.	.	rs1432324.	.	.	.	.
TPCN2	ENST0000.	11q.	.	rs7621382.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
DHCR7	ENST0000.	11q.	Sc.	rs7726393 ID.	.	.	.	.
.	ENST0000.	11q.	.	Score rs1917587.	Uncer.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	.	Score.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	Sc.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
SLCO2	ENST0000.	11q.	.	rs7806415.	.	.	.	.
MAP6:↑	ENST0000.	11q.	Sc.	rs7805688.	.	.	.	.
.	ENST0000.	11q.	.	rs7453149.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	.	Score rs3722049.	.	.	.	.
.	ENST0000.	11q.	.	Score=0.9.	.	.	.	.
GRM5:	ENST0000.	11q.	Sc.	.	ID.	.	.	.
.	ENST0000.	11q.	.	Score=0.9.	.	.	.	.
.	ENST0000.	11q.	.	rs7912478.	.	.	.	.
DYNC2	ENST0000.	11q.	.	rs1913813.	Uncer.	.	.	.
.	ENST0000.	11q.	.	rs7548668.	.	.	.	.
ELMOI	ENST0000.	11q.	Sc.	rs7639430.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
ACAT1	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	.	rs5746434.	.	.	.	.
.	ENST0000.	11q.	Sc.	rs1042921.	.	.	.	.
.	ENST0000.	11q.	.	rs9738553.	.	.	.	.
ZW10:↑	ENST0000.	11q.	.	rs7711773.	.	.	.	.
.	ENST0000.	11q.	.	Score rs7553780 ID.	.	.	.	.
SIK3:N↓	ENST0000.	11q.	.	.	.	.	.	.
TMPR5	ENST0000.	11q.	.	rs3706451.	.	.	.	.
SCN2B	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.	.
DDX6:↑	ENST0000.	11q.	Sc.	.	.	.	.	.

ARHGE1ENST0000	11q.	.	.	rs5761141	.	.	.	.
ARHGE2ENST0000	11q.	.	.	.	.	.	.	.
TECTA1ENST0000	11q.	.	.	rs1424863 ID: other;	.	.	.	0.001
OR10G1ENST0000	11q.	Sc	.	rs1464053	.	.	.	.
UNKNCEENST0000	11q.	.	.	rs1866274 ID:	.	.	.	0.008
ENST0000	11q.	.	.	.	.	.	.	.
PKNOX1ENST0000	11q.	.	.	.	.	.	.	.
FOXRE1ENST0000	11q.	.	.	rs1036245	.	.	.	.
ENST0000	11q.	.	.	Score rs1499597	.	.	.	.
PRDM1ENST0000	11q.	.	.	rs1160026	.	.	.	.
ADAM1ENST0000	11q.	Sc	.	rs7501981	.	.	.	.
OPCMI1ENST0000	11q.	.	.	.	.	.	.	.
ENST0000	11q.	.	.	Score rs9612999	.	.	.	.
ENST0000	11q.	.	.	.	.	.	.	.
ENST0000	12p.	.	.	rs1492134	.	.	.	.
ENST0000	12p.	.	.	Score	.	.	.	.
B4GAL1ENST0000	12p.	.	.	rs7477402	.	.	.	.
ENST0000	12p.	.	.	.	.	.	.	.
CACNA1ENST0000	12p.	Sc	.	ID:	.	.	.	.
CACNA2ENST0000	12p.	.	.	rs2020589 Likely	.	.	.	0.001
ENST0000	12p.	.	.	rs1044570	.	.	.	.
ENST0000	12p.	.	.	.	.	.	.	.
ENST0000	12p.	.	.	.	.	.	.	.
ENST0000	12p.	.	.	.	.	.	.	.
KCNA61ENST0000	12p.	.	.	.	.	.	.	.
TNFRS1ENST0000	12p.	.	.	Score	.	.	.	.
ENST0000	12p.	.	.	rs7522876	.	.	.	.
ENST0000	12p.	.	.	.	.	.	.	.
ENST0000	12p.	.	.	.	.	.	.	.
ENST0000	12p.	.	.	.	.	.	.	.
CLEC61ENST0000	12p.	.	.	.	.	.	.	.
UNKNCE1ENST0000	12p.	.	.	.	.	.	.	.
ENST0000	12p.	.	Score=0.9	.	.	.	.	.
ENST0000	12p.	.	Score=0.9	rs7607645 ID:	.	.	.	.
ENST0000	12p.	.	.	.	.	.	.	.
ENST0000	12p.	.	Score=0.9	.	.	.	.	.
ENST0000	12p.	.	.	.	.	.	.	.
UNKNCE1ENST0000	12p.	Sc	.	rs7520863	.	.	.	.
UNKNCE2ENST0000	12p.	.	.	ID:	.	.	.	.
ENST0000	12p.	.	.	rs7558438	.	.	.	.
PIK3C21ENST0000	12p.	.	.	.	.	.	.	.
PIK3C22ENST0000	12p.	.	.	.	.	.	.	.
ENST0000	12p.	.	.	rs9411424	.	.	.	.
SLCO11ENST0000	12p.	.	.	.	.	.	.	.
PPFIBF1ENST0000	12p.	.	.	.	.	.	.	.
ENST0000	12p.	.	.	.	.	.	.	.
ENST0000	12p.	.	.	rs3715564	.	.	.	.
ENST0000	12p.	.	.	.	.	.	.	.
ENST0000	12p.	.	Score=0.9	.	.	.	.	.
ENST0000	12q.	.	Score=0.9	.	.	.	.	.
ENST0000	12q.	.	.	.	.	.	.	.
ENST0000	12q.	.	.	.	.	.	.	.
ENST0000	12q.	.	.	.	.	.	.	.
C12orf1ENST0000	12q.	.	.	.	.	.	.	.



. ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
HECTD ENST0000.	12q.	Sc.	. .	rs3699442	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	rs7648934	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	12q.	Sc.	. .	rs9094398	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	rs7629138	. .	. .	. .	. .
OASL: ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	Score rs1000013 ID:	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	Score.	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	rs5485859	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	Score.	. .	. .	. .	. .
. ENST0000.	12q.	Sc.	. .	. .	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	rs3682772	. .	. .	. .	. .
DNAH1 ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	rs1861196	. .	. .	. .	0.005
. ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
. .	12q.	. .	. .	Score.	. .	. .	. .	. .
TMEM1 ENST0000.	12q.	. .	. .	rs7758291 ID:	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	rs8685914	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	12q.	. .	. .	. .	. .	. .	. .	. .
CHFR: ENST0000.	12q.	Sc.	. .	. .	. .	. .	. .	. .
PSPC1 ENST0000.	13q.	. .	. .	. .	. .	. .	. .	. .
ZMYM2 ENST0000.	13q.	. .	. .	. .	. .	. .	. .	. .
ZDHC ENST0000.	13q.	. .	. .	rs7650516 ID:	. .	. .	. .	. .
SGCG: ENST0000.	13q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	13q.	. .	. .	rs7609687	. .	. .	. .	. .
. .	13q.	. .	. .	. .	. .	. .	. .	. .
FRY: N ENST0000.	13q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	13q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	13q.	Sc.	. .	. .	. .	. .	. .	. .
CCDC1 ENST0000.	13q.	. .	. .	. .	. .	. .	. .	. .
SMAD9 ENST0000.	13q.	Sc.	. .	. .	. .	. .	. .	. .
MTRF1 ENST0000.	13q.	. .	. .	rs1133145	. .	. .	. .	. .
. .	13q.	. .	. .	Score rs9269682	. .	. .	. .	. .
. ENST0000.	13q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	13q.	. .	. .	rs5302300	. .	. .	. .	0.003
. ENST0000.	13q.	. .	. .	rs7755432	. .	. .	. .	. .
. .	13q.	. .	. .	Score rs5354767	. .	. .	. .	. .
. ENST0000.	13q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	13q.	. .	. .	. .	. .	. .	. .	. .
. ENST0000.	13q.	. .	. .	rs5371791	. .	. .	. .	. .
. ENST0000.	13q.	. .	. .	. .	. .	. .	. .	. .
MBNL2 ENST0000.	13q.	Sc.	. .	rs1492005	. .	. .	. .	. .
TM9SF ENST0000.	13q.	. .	. .	rs3733851	. .	. .	. .	. .
. ENST0000.	13q.	. .	. .	rs3731740	. .	. .	. .	. .
ABHD1 ENST0000.	13q.	. .	. .	. .	. .	. .	. .	. .

MYO16	ENST0000	13q.	Sc.	rs7567578			
COL4A	ENST0000	13q.		rs1488011	ID		
CARS2	ENST0000	13q.		rs7563035			
	ENST0000	13q.					
	ENST0000	13q.		rs1000744			
	ENST0000	13q.		rs7522048	ID		
MCF2L	ENST0000	13q.		rs7502995			
GAS6	ENST0000	13q.		rs7709821			
	ENST0000	14q.	Score=0.9	rs8791117			
	ENST0000	14q.	Score=0.9				
	ENST0000	14q.	Score=0.9	rs7445485			
	ENST0000	14q.					
TEP1	ENST0000	14q.		rs1453568			
KLHL3	ENST0000	14q.		rs5497679			
	ENST0000	14q.					
	ENST0000	14q.		rs3745810			
HAUS4	ENST0000	14q.		rs7576169	ID		
	ENST0000	14q.					
	ENST0000	14q.		rs7777607			
	ENST0000	14q.	Score	rs9241538			
	ENST0000	14q.					
RALGA	ENST0000	14q.					
	ENST0000	14q.					
	ENST0000	14q.	Score=0.9	rs5673369			
	ENST0000	14q.					
LRFN5	ENST0000	14q.		rs8659367	ID		
	ENST0000	14q.					
	ENST0000	14q.					
	ENST0000	14q.					
PTGER	ENST0000	14q.	Sc.	rs7462395			
	ENST0000	14q.					
	ENST0000	14q.					
DAAM1	ENST0000	14q.					
	ENST0000	14q.					
DHRS7	ENST0000	14q.		rs1401803			
	ENST0000	14q.					
MTHFC	ENST0000	14q.		rs5401543			
	ENST0000	14q.	Score	rs1404421			0.001
	ENST0000	14q.					
	ENST0000	14q.					
ZNF41	ENST0000	14q.	Sc.	rs7545827			
	ENST0000	14q.		rs3764591			
LTBP2	ENST0000	14q.	Sc.				
	ENST0000	14q.					
	ENST0000	14q.	Score				
RPS6K	ENST0000	14q.		rs1413435			
	ENST0000	14q.					
	ENST0000	14q.					
TTC7B	ENST0000	14q.		rs7511076			
	ENST0000	14q.		rs7632995			
	ENST0000	14q.					
	ENST0000	14q.					

.	ENST0000.	14q.	.	.	Score.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	.	.	.	.	.	.	.
BCL11I	ENST0000.	14q.	.	.	.	.	.	.	.	.	.
BCL11I	ENST0000.	14q.	Sc.	.	.	.	.	.	.	.	.
DLK1:1	ENST0000.	14q.	.	.	.	.	.	.	.	.	.
.	ENST0000hsa-mir-41	14q.	Sc.	.	.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	.	.	.	.	.	.	.
MOK:1	ENST0000.	14q.	Sc.	.	rs7571156.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	rs9721368.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	rs1043142.	.	.	.	.	.	.
KIF26A	ENST0000.	14q.	.	.	.	.	.	.	.	.	.
TMEM1	ENST0000.	14q.	Sc.	.	.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	rs7564163.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	rs7689001.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	.	.	.	.	.	.	.
PACS2	ENST0000.	14q.	.	.	rs7822187.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	rs7820214.	.	.	.	.	.	.
.	ENST0000.	14q.	.	.	Score=0.9.	.	.	.	.	.	.
.	.	14q.	.	.	Score=0.8.	.	.	.	.	.	.
.	.	15q.	.	.	Score=0.9 Score rs2005484 ID.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	Score=0.9.	.	.	.	.	.	.
.	.	15q.	.	.	Score=0.9 Score.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	Score=0.9.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	Score=0.9.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	Score=0.9 Score.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	Score=0.9.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	Score=0.9 (Score rs7605191.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	rs9195421.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	rs7485099.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	rs9209119.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	rs3718584 ID.	.	.	.	.	.	.
HERC2	ENST0000.	15q.	.	.	Score=0.9.	.	.	.	.	.	.
GOLG7	ENST0000.	15q.	.	.	Score=0.9 (rs2021672 ID.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	.	.	.	.	.	.	.
GOLG7	ENST0000.	15q.	.	.	Score=0.9.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	Score=0.9.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	Score=0.9 (Score rs1995696.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	Score=0.9 ID.	.	.	.	.	.	.
OTUD7	ENST0000.	15q.	.	.	.	.	.	.	.	.	.
.	.	15q.	.	.	Score=0.9 (rs1127716.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	.	.	.	.	.	.	.
PAK6:1	ENST0000.	15q.	Sc.	.	.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	rs3704110.	.	.	.	.	.	.
.	ENST0000.	15q.	.	.	.	.	.	.	.	.	.
TTBK2:	ENST0000.	15q.	Sc.	.	rs5310947 ID.	.	.	.	.	.	.
TUBGC	ENST0000.	15q.	.	.	rs7551745 ID.	.	.	.	.	.	.
CKMT1	ENST0000.	15q.	.	.	Score=0.9 (rs5360360.	.	.	.	.	.	.



. ENST0000.	15q.	. Score=0.9	.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	rs5322560	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	.	.	.	.
DUOX1	ENST0000.	15q.	Sc.	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.
FBN1:↑	ENST0000.	15q.	.	.	rs7737859	.	.
FBN1:↑	ENST0000.	15q.	Sc.	.	rs1409544 ID: Uncer	.	0.001
. ENST0000.	15q.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.
MYO5C	ENST0000.	15q.	Sc.	.	rs3686733 ID:	.	.
. ENST0000.	15q.	.	.	.	.	.	.
AQP9:↑	ENST0000.	15q.	Sc.	.	.	.	.
TLN2:↓	ENST0000.	15q.	.	.	rs7793599	.	.
MTFM1	ENST0000.	15q.	.	.	rs7518805	.	.
IGDCC	ENST0000.	15q.	Sc.	.	.	.	.
IGDCC	ENST0000.	15q.	Sc.	.	rs5369412	.	0.001
. ENST0000.	15q.	.	.	Score.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	rs7568129 ID:	.	.
. ENST0000.	15q.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	Score	rs5460720	.	0.001
. ENST0000.	15q.	.	.	.	.	.	.
CELF6:	ENST0000.	15q.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	rs1043159	.	.
. ENST0000.	15q.	.	.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	.	.	.	.
. ENST0000.	15q.	.	.	.	rs9744245	.	.
. ENST0000.	15q.	.	.	.	rs1047518	.	.
. ENST0000.	15q.	. Score=0.9	.	.	rs8789048 ID:	.	.
. ENST0000.	15q.	. Score=0.9	.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	.	.	.	.
KIAA10	ENST0000.	15q.	.	.	rs1471333 ID:	.	.
. ENST0000.	15q.	.	.	Score.	.	.	.
. ENST0000.	15q.	.	.	.	rs5292517	.	.
. ENST0000.	15q.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	rs9410184	.	.
GOLG7	ENST0000.	15q.	. Score=0.9	.	rs7920451 ID:	.	.
. ENST0000.	15q.	.	.	.	.	.	.
KLHL2?	ENST0000.	15q.	.	.	rs3718116	.	.
POLG:I	ENST0000.	15q.	.	.	.	.	.
. ENST0000.	15q.	.	.	Score.	.	.	.
KIF7:NI	ENST0000.	15q.	Sc.	.	rs2012804	.	.
KIF7:NI	ENST0000.	15q.	.	.	ID:	.	.
UNKNC	ENST0000.	15q.	.	.	rs1475111	.	.
. .	.	15q.	.	.	Score	rs5584446	0.001
ADAM1	ENST0000.	15q.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	Score.	.	.	.
UNKNC	ENST0000.	15q.	Sc.	.	rs7764234 ID:	.	.
. ENST0000.	15q.	.	.	.	.	.	.

. ENST0000.	15q.	. Score=0.97.	. . . . .	. . . . .	. . . . .
. ENST0000.	15q.	. Score=0.97.	rs3682087.	. . . . .	. . . . .
. ENST0000.	15q.	. Score=0.97.	. . . . .	. . . . .	. . . . .
. ENST0000.	15q.	. Score=0.97.	. . . . .	. . . . .	. . . . .
UNKNC ENST0000.	16p.	. . . . .	rs7613665.	. . . . .	. . . . .
ITFG3: ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	Score rs8927038.	. . . . .	. . . . .
WFIKK ENST0000.	16p.	. . . . .	rs1998911.	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	Score rs2010028 ID:	. . . . .	. . . . .
JMJD8: ENST0000.	16p.	. . . . .	Score rs7767345 ID:	. . . . .	. . . . .
FBXL1: ENST0000.	16p.	. . . . .	rs1466306.	. . . . .	. . . . .
NARFL ENST0000.	16p.	. . . . .	rs3681933.	. . . . .	. . . . .
CHTF1 ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
SSTR5 ENST0000.	16p.	. . . . .	rs1506415.	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	rs9971019.	. . . . .	. . . . .
BAIAP: ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	rs3710800.	. . . . .	. . . . .
BAIAP: ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	rs7592188.	. . . . .	. . . . .
BAIAP: ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
. . . . .	16p.	. . . . .	rs5365360.	. . . . .	0.002
CLCN7 ENST0000.	16p.	Sc.	rs7601714.	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
HN1L: ENST0000.	16p.	. . . . .	rs1450874 ID:	. . . . .	. . . . .
MAPK8 ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
RPL3L: ENST0000.	16p.	. . . . .	rs3749279.	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
ZNF59: ENST0000.	16p.	. . . . .	rs7634894.	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	Score rs1416929.	. . . . .	0.015
ZNF59: ENST0000.	16p.	Sc.	. . . . .	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	rs7525617.	. . . . .	. . . . .
SLX4: ENST0000.	16p.	. . . . .	rs5345285.	Likely .	0.008
CREBE ENST0000.	16p.	Sc.	. . . . .	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	Score rs5502446.	. . . . .	0.001
. ENST0000.	16p.	. . . . .	rs1894802.	. . . . .	. . . . .
ADCY9 ENST0000.	16p.	. . . . .	rs3711593 ID:	. . . . .	. . . . .
VASN: ENST0000.	16p.	. . . . .	rs2013575.	. . . . .	. . . . .
PPL: ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
CIITA: ENST0000.	16p.	. . . . .	rs5632991 ID:	. . . . .	0.001
. ENST0000.	16p.	. . . . .	rs7679436.	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	rs9184234.	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	rs7800288.	. . . . .	. . . . .
. ENST0000.	16p.	. Score=0.97.	Score rs5668064.	. . . . .	. . . . .
. ENST0000.	16p.	. Score=0.97.	rs7507758.	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	. . . . .	. . . . .	. . . . .
. ENST0000.	16p.	. . . . .	Score.	. . . . .	. . . . .
. ENST0000.	16p.	Sc Score=0.97.	. . . . .	. . . . .	. . . . .
SMG1: ENST0000.	16p.	. Score=0.97.	rs1784261 ID:	. . . . .	. . . . .

SYT17:ENST0000.	16p.	.	.	rs7575963.	.	.	.	.
UMOD:ENST0000.	16p.	.	.	rs7647908.	.	.	.	.
UNKNC ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	.	.	rs1829590.	.	.	.	.
GGA2:↓ENST0000.	16p.	Sc.	.	.	.	.	.	.
ERN2:↑ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	.	.	Score rs9722593.	.	.	.	.
. .	16p.	.	.	.	.	.	.	.
GTF3C ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	.	.	.	.	.	.	.
KIAA05 ENST0000.	16p.	.	.	rs1412530.	.	.	.	.
. ENST0000.	16p.	.	.	rs1909424.	.	.	.	0.02
. ENST0000.	16p.	Score=0.9f.	.	.	.	.	.	.
ATXN2 ENST0000.	16p.	Sc.	.	rs7491998.	.	.	.	.
. ENST0000.	16p.	.	.	.	.	.	.	.
ATP2A ENST0000.	16p.	.	.	rs1820846.	.	.	.	.
. ENST0000.	16p.	Score=0.9f.	.	.	.	.	.	.
. ENST0000.	16p.	Sc.	.	.	.	.	.	.
KCTD1 ENST0000.	16p.	Sc.	.	rs7813295.	.	.	.	.
. ENST0000.	16p.	.	.	Score rs9659529.	.	.	.	.
. ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	Score=0.9f.	.	.	.	.	.	.
ZNF26: ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	Score=0.9f.	.	rs7477221.	.	.	.	.
. ENST0000.	16p.	Score=0.9f.	.	rs460256 ID.	.	.	.	0.19
. ENST0000.	16p.	Score=0.9f.	.	.	.	.	.	.
. ENST0000.	16p.	Score=0.9f Score.	.	.	.	.	.	.
. ENST0000.	16p.	Score=0.9f Score rs3744640 ID.	.	.	.	.	.	0.1
. .	16p.	Score=0.9f.	.	.	.	.	.	.
. ENST0000.	16p.	Sc Score=0.9f.	.	.	.	.	.	.
. ENST0000.	16p.	.	.	Score.	.	.	.	.
. .	16q.	.	.	Score rs1333894.	.	.	.	.
. .	16q.	.	.	Score rs2885478 ID.	.	.	.	.
. .	16q.	.	.	Score rs4249087 ID.	.	.	.	.
. .	16q.	.	.	Score rs5591122.	.	.	.	.
. .	16q.	.	.	Score rs4246405.	.	.	.	.
. .	16q.	.	.	Score rs4292070 ID.	.	.	.	.
. .	16q.	.	.	Score rs8799648.	.	.	.	.
. .	16q.	.	.	Score rs8799977.	.	.	.	.
. .	16q.	.	.	Score rs4291933.	.	.	.	.
. .	16q.	.	.	Score rs4375682.	.	.	.	.
. .	16q.	.	.	Score rs7200104 ID.	.	.	.	.
. .	16q.	.	.	Score rs7188643.	.	.	.	.
. .	16q.	.	.	Score rs9328642.	.	.	.	.
. .	16q.	.	.	Score rs7205231.	.	.	.	.
. .	16q.	.	.	Score rs4445923.	.	.	.	.
. .	16q.	.	.	Score rs2887500 ID.	.	.	.	.
. .	16q.	.	.	Score rs2888543.	.	.	.	.
. .	16q.	.	.	Score rs7664258.	.	.	.	.
. .	16q.	.	.	Score rs4249076.	.	.	.	.
. .	16q.	.	.	Score.	.	.	.	.
MYLK3 ENST0000.	16q.	.	.	rs3683497.	.	.	.	.
. ENST0000.	16q.	.	.	.	.	.	.	.
. ENST0000.	16q.	.	.	.	.	.	.	.



PELP1:ENST0000.	17p.	Sc.	rs3764321	.	.	.
KIF1C:ENST0000.	17p.	Sc Score=0.9	rs2008227 ID:	.	.	.
ZNF59:ENST0000.	17p.	Score=0.9	rs2013516 ID:	.	.	.
. ENST0000.	17p.	.	Score.	.	.	.
KIAA07ENST0000.	17p.	.	.	.	.	.
. ENST0000.	17p.	.	.	.	.	.
. ENST0000.	17p.	.	Score.	.	.	.
NEURL ENST0000.	17p.	Sc.	rs2000463	.	.	.
POLR2 ENST0000.	17p.	.	rs7455911	.	.	.
CCDC4ENST0000.	17p.	Sc.	rs1473707	.	.	.
UNKNC ENST0000.	17p.	.	.	.	.	.
. ENST0000.	17p.	.	.	.	.	.
. ENST0000.	17p.	.	rs7534759	.	.	.
DNAH9 ENST0000.	17p.	.	.	.	.	.
HS3ST ENST0000.	17p.	.	.	.	.	.
TEKT3:ENST0000.	17p.	.	rs7633797	.	.	.
. ENST0000.	17p.	Score=0.9	rs6207237	.	.	.
NCOR1ENST0000.	17p.	Sc.	.	.	.	.
. ENST0000.	17p.	.	.	.	.	.
. ENST0000.	17p.	.	.	.	.	.
. ENST0000.	17p.	.	.	.	.	.
. ENST0000.	17p.	.	rs1157965	.	.	.
. ENST0000.	17p.	.	.	.	.	.
. ENST0000.	17p.	Score=0.9	.	.	.	.
LGALS ENST0000.	17p.	Sc Score=0.9	.	.	.	.
. ENST0000.	17p.	Score=0.9	rs2869918 ID:	.	.	0.654
. ENST0000.	17p.	.	rs7529523	.	.	.
. ENST0000.	17p.	.	.	.	.	.
. ENST0000.	17q.	Score=0.9	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.
. ENST0000.	17q.	.	Score.	.	.	.
. ENST0000.	17q.	.	rs1051245	.	.	.
. ENST0000.	17q.	.	.	.	.	.
SEZ6:ENST0000.	17q.	.	.	.	.	.
MYO18ENST0000.	17q.	Sc.	.	.	.	.
. ENST0000.	17q.	.	Score rs7968757 ID:	.	.	.
EVI2A:ENST0000.	17q.	Sc.	rs5324904	.	.	.
. ENST0000.	17q.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.
NLE1:ENST0000.	17q.	Sc.	.	.	.	.
SLFN1 ENST0000.	17q.	Score=0.8	rs7610872 ID:	.	.	.
. ENST0000.	17q.	Score=0.9	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.
. ENST0000.	17q.	Score=0.9	rs3702689	.	.	.
. ENST0000.	17q.	Score=0.9	Score rs3720623	.	.	.
. ENST0000.	17q.	Score=0.9	ID:	.	.	.
PCGF2 ENST0000.	17q.	.	rs7545869	.	.	.
. ENST0000.	17q.	.	Score.	.	.	.
CACNE ENST0000.	17q.	.	rs7807350	.	.	.
. ENST0000.	17q.	.	.	.	.	.



. ENST0000.	17q.	.	.	.	.	.	.	.	.
CYGB: ENST0000.	17q.	Sc.	.	rs3697050.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.	.	.	.
. ENST0000.	17q.	.	.	rs7670774.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.	.	.	.
DNAH1 ENST0000.	17q.	Sc.	.	rs7521502.	.	.	.	.	.
RBFOX ENST0000.	17q.	.	.	.	.	.	.	.	.
CBX4: ENST0000.	17q.	Sc.	.	.	.	.	.	.	.
CCDC4 ENST0000.	17q.	.	.	rs5354610 ID.	.	.	.	.	.
. ENST0000.	17q.	.	.	rs7737952.	.	.	.	.	.
CARD1 ENST0000.	17q.	.	.	rs3676544.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.	.	.	.
BAIAP2 ENST0000.	17q.	.	.	.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.	.	.	.
. ENST0000.	17q.	.	.	rs3678800.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.	.	.	.
OXLD1 ENST0000.	17q.	.	.	.	ID.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.	.	.	.
FASN: ENST0000.	17q.	.	.	.	.	.	.	.	.
FASN: ENST0000.	17q.	.	.	rs7594547 ID.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.	.	.	.
WDR4: ENST0000.	17q.	Sc.	.	rs1452537 ID.	.	.	.	.	.
ZNF75( ENST0000.	17q.	.	.	.	.	.	.	.	.
ADCYA ENST0000.	18p.	.	.	.	.	.	.	.	.
. ENST0000.	18p.	.	.	.	.	.	.	.	.
. ENST0000.	18p.	.	.	.	.	.	.	.	.
. ENST0000.	18p.	.	.	Score.	ID.	.	.	.	.
MC2R: ENST0000.	18p.	.	.	.	.	.	.	.	.
. ENST0000.	18p.	Score=0.9	.	.	.	.	.	.	.
. ENST0000.	18p.	Score=0.9	.	ID.	.	.	.	.	.
GREB1 ENST0000.	18q.	.	.	.	.	.	.	.	.
. ENST0000.	18q.	.	.	rs1390032.	.	.	.	.	.
. ENST0000.	18q.	.	.	Score.	.	.	.	.	.
LAMA3 ENST0000.	18q.	.	.	rs5453420.	.	.	.	.	0.001
. ENST0000.	18q.	.	.	rs7793765.	.	.	.	.	.
ELP2: ENST0000.	18q.	.	.	.	.	.	.	.	.
EPG5: ENST0000.	18q.	.	.	.	.	.	.	.	.
. ENST0000.	18q.	.	.	rs7789211.	.	.	.	.	.
. ENST0000.	18q.	.	.	.	.	.	.	.	.
MYO5E ENST0000.	18q.	.	.	rs7710491.	.	.	.	.	.
. ENST0000.	18q.	.	.	.	.	.	.	.	.
. ENST0000.	18q.	Score=0.9	.	.	.	.	.	.	.
ZCCHC ENST0000.	18q.	.	.	.	.	.	.	.	.
SERPI ENST0000.	18q.	.	.	rs1417032.	.	.	.	.	.
SERPI ENST0000.	18q.	Score=0.9	.	.	.	.	.	.	.
RTTN: ENST0000.	18q.	.	.	.	ID.	.	.	.	.
ZNF40 ENST0000.	18q.	.	.	.	.	.	.	.	.
. ENST0000.	18q.	.	.	.	.	.	.	.	.
. ENST0000.	19p.	.	.	rs1020066.	.	.	.	.	.
. ENST0000.	19p.	.	.	.	ID.	.	.	.	.
. ENST0000.	19p.	.	.	rs3749392.	.	.	.	.	.

POLRM	ENST0000	19p	.	.	rs7789396	.	.	.	.
PALM:†	ENST0000	19p	.	.	.	.	.	.	.
.	ENST0000	19p	.	.	rs3777310	.	.	.	0.001
TMEM2	ENST0000	19p	Sc	.	.	.	.	.	.
HMHA1	ENST0000	19p	.	.	rs9456811	.	.	.	.
.	ENST0000	19p	.	.	.	.	.	.	.
UNKNC	ENST0000	19p	.	.	rs7620114	ID	.	.	.
SBNO2	ENST0000	19p	Sc	.	rs2022226	.	.	.	.
.	ENST0000	19p	.	.	.	.	.	.	.
.	ENST0000	19p	.	.	Score rs7799382	.	.	.	.
SBNO2	ENST0000	19p	.	.	.	.	.	.	.
.	ENST0000	19p	.	.	.	.	.	.	.
CIRBP:	ENST0000	19p	.	.	rs3753640	.	.	.	.
.	ENST0000	19p	.	.	Score	.	.	.	.
.	ENST0000	19p	.	.	.	.	.	.	.
PLK5:N	ENST0000	19p	.	.	rs1007918	.	.	.	.
DOT1L	ENST0000	19p	Sc	.	rs3694032	.	.	.	.
.	ENST0000	19p	.	.	rs7522031	ID	.	.	.
SGTA:†	ENST0000	19p	.	.	.	ID	.	.	.
.	ENST0000	19p	.	.	.	.	.	.	.
S1PR4	ENST0000	19p	Sc	.	rs3763485	.	.	.	.
.	ENST0000	19p	.	.	rs7773785	.	.	.	.
.	ENST0000	19p	.	.	Score	.	.	.	.
.	ENST0000	19p	.	.	Score	.	.	.	.
ANKRC	ENST0000	19p	.	.	rs7591374	.	.	.	.
SH3GL	ENST0000	19p	.	.	.	ID	.	.	.
LRG1:†	ENST0000	19p	.	.	rs1503658	.	.	.	.
SEMA6	ENST0000	19p	.	.	Score	.	.	.	.
KDM4E	ENST0000	19p	.	.	.	.	.	.	.
.	ENST0000	19p	.	.	.	.	.	.	.
.	ENST0000	19p	.	.	rs1018214	.	.	.	.
UNKNC	ENST0000	19p	.	.	rs7632840	ID	.	.	.
.	ENST0000	19p	.	.	Score	.	.	.	.
ARHGE	ENST0000	19p	.	.	rs1390681	.	.	.	.
.	ENST0000	19p	.	.	rs3770694	.	.	.	.
XAB2:†	ENST0000	19p	.	.	rs3745730	.	.	.	.
XAB2:†	ENST0000	19p	.	.	rs7516930	.	.	.	.
STXBP	ENST0000	19p	.	.	rs1417170	ID	.	.	.
.	ENST0000	19p	.	.	Score=0.8	.	.	.	.
.	ENST0000	19p	.	.	.	.	.	.	.
.	ENST0000	19p	.	.	rs7595385	.	.	.	.
FBN3:†	ENST0000	19p	.	.	rs3527749	ID	.	.	0.005
.	ENST0000	19p	.	.	rs7615602	.	.	.	.
.	ENST0000	19p	.	.	rs5308100	.	.	.	0.007
ACTL9:	ENST0000	19p	.	.	.	ID	.	.	.
.	.	19p	.	.	Score=0.9	Score rs3694972	.	.	.
.	.	19p	.	.	Score=0.9	Score rs3751712	.	.	.
MUC1ε	ENST0000	19p	.	.	Score=0.9	rs5686926	.	.	0.001
MUC1ε	ENST0000	19p	.	.	rs7801357	.	.	.	.
MUC1ε	ENST0000	19p	.	.	.	.	.	.	.
.	ENST0000	19p	.	.	.	.	.	.	.
PIN1:N	ENST0000	19p	Sc	.	rs7564749	.	.	.	.
OLFM2	ENST0000	19p	Sc	.	rs7814402	ID	.	.	.
C19orf	ENST0000	19p	.	.	.	.	.	.	.



PPAN-I	ENST0000.	19p.	Sc.	.	.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.	.	.	.
ICAM1:	ENST0000.	19p.	.	.	.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.	.	.	.
TYK2:	ENST0000.	19p.	Sc.	.	rs1383503	ID.	.	.	.	.	.
PDE4A	ENST0000.	19p.	.	.	rs2009930.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	Score.	.	.	.	.	.	.
KRI1:	ENST0000.	19p.	.	.	.	.	.	.	.	.	.
LDLR:	ENST0000.	19p.	Sc.	.	rs7634492	ID.	.	.	.	.	.
.	ENST0000.	19p.	.	.	rs3737274	ID.	.	.	.	.	.
DOCK6	ENST0000.	19p.	.	.	rs3721772.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	Score	rs5385135	ID.	.	.	.	.
.	ENST0000.	19p.	.	.	Score.	.	.	.	.	.	.
DAND5	ENST0000.	19p.	Sc.	.	rs3710318.	.	.	.	.	.	.
RFX1:	ENST0000.	19p.	Sc.	.	.	ID.	.	.	.	.	.
PRKAC	ENST0000.	19p.	Sc.	.	.	.	.	.	.	.	.
.	ENST0000.	19p.	Sc.	.	Score.	.	.	.	.	.	.
OR10H	ENST0000.	19p.	.	Score=0.9	.	ID.	.	.	.	.	.
KLF2:	ENST0000.	19p.	.	.	.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	rs1015670.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	Score	rs1138422.	.	.	.	.	.
.	ENST0000.	19p.	.	.	Score.	.	.	.	.	.	.
USHBF	ENST0000.	19p.	.	.	rs9290443	ID.	.	.	.	.	.
GTPBF	ENST0000.	19p.	.	.	rs7698270.	.	.	.	.	.	.
UNC13	ENST0000.	19p.	.	.	rs1043222.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	Score.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.	.	.	.
PDE4C	ENST0000.	19p.	.	.	.	.	.	.	.	.	.
UPF1:	ENST0000.	19p.	.	.	rs3719294.	.	.	.	.	.	.
MAU2:	ENST0000.	19p.	.	.	rs2012753.	.	.	.	.	.	.
ZNF90:	ENST0000.	19p.	.	.	.	.	.	.	.	.	.
.	ENST0000.	19p.	.	Score=0.9	.	.	.	.	.	.	.
.	ENST0000.	19p.	.	Score=0.9	.	.	.	.	.	.	.
.	ENST0000.	19q.	.	.	Score.	.	.	.	.	.	.
TSHZ3	ENST0000.	19q.	Sc.	.	rs7540203	ID.	.	.	.	.	.
KIAA03	ENST0000.	19q.	Sc.	.	rs3754283.	.	.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	19q.	.	.	Score.	.	.	.	.	.	.
RBM42	ENST0000.	19q.	Sc.	.	rs7656023.	.	.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	19q.	.	.	Score	rs5581240.	.	.	.	.	.
.	.	19q.	.	Score=0.9	Score.	.	.	.	.	.	.
.	.	19q.	.	Score=0.9	Score.	rs4806419.	.	.	.	.	.
.	.	19q.	.	Score=0.9	Score	rs7125437.	.	.	.	.	.
.	.	19q.	.	Score=0.9	Score.	.	.	.	.	.	.
.	.	19q.	.	.	Score	rs7728313.	.	.	.	.	.
UNKNC	ENST0000.	19q.	Sc.	.	.	.	.	.	.	.	.
CATSP	ENST0000.	19q.	.	.	rs1476199	ID.	.	.	.	.	.
.	ENST0000.	19q.	.	.	Score.	.	.	.	.	.	.
.	ENST0000.	19q.	.	.	rs3756003.	.	.	.	.	.	0.001
.	ENST0000.	19q.	.	.	Score	rs5371432.	.	.	.	.	0.003

. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	Score rs5721273.	.	.	.	.	.	0.008	.
UNKNC ENST0000.	19q.	.	Score=0.9†	rs8917290.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	Score=0.9†	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	rs7564368 ID:	.	.	.	.	.	.	.
UNKNC ENST0000.	19q.	Sc.	.	rs7738579 ID:	.	.	.	.	.	.	.
. ENST0000.	19q.	.	Score=0.9†	.	.	.	.	.	.	.	.
SHKBP ENST0000.	19q.	Sc.	.	rs7469641.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	Score.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
UNKNC ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
UNKNC ENST0000.	19q.	Sc.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
C19orf1 ENST0000.	19q.	.	.	rs1045293.	.	.	.	.	.	.	.
UNKNC ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
TGFB1 ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
ARHGAP ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
MEGF8 ENST0000.	19q.	Sc.	.	.	.	.	.	.	.	.	.
CEACPA ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	Score=0.9†	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	Score=0.9†	.	.	.	.	.	.	.	.
IRGQ:1 ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
ZNF281 ENST0000.	19q.	.	Score=0.9†	.	.	.	.	.	.	.	.
UNKNC ENST0000.	19q.	.	.	rs7737032 ID:	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	rs9075637.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	Score rs5632226.	.	.	.	.	.	.	.
BCL3:1 ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
BCAM:1 ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
GPR4:1 ENST0000.	19q.	Sc.	.	.	.	.	.	.	.	.	.
PRKD2 ENST0000.	19q.	.	.	rs1026645.	.	.	.	.	.	.	.
STRN4 ENST0000.	19q.	Sc.	.	rs3697415 ID:	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	Score.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	Score=0.9†	Score rs6213000.	.	.	.	.	.	.	.
SPHK2 ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	rs1012379 ID:	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	rs5626072.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	rs7508901.	.	.	.	.	.	.	.
MYH14 ENST0000.	19q.	.	.	rs3749564 ID:	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	rs2001122.	.	.	.	.	.	0.001	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	rs5643823.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	rs3695357.	Likely.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.	.
MYBPC ENST0000.	19q.	.	.	rs7738602 ID:	.	.	.	.	.	.	.

. ENST0000.	19q.	.	.	.	.	.	.	.	.
GPR32 ENST0000.	19q.	.	Score=0.90	.	.	.	.	.	.
ZNF810 ENST0000.	19q.	.	.	.	.	.	.	.	.
ERVV-2 ENST0000.	19q.	.	.	Score.	.	.	.	.	.
VN1R4 ENST0000.	19q.	.	.	.	rs1420234 ID.	.	.	.	.
. ENST0000hsa-mir-52	19q.	.	.	.	.	.	.	.	.
CACNC ENST0000.	19q.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	Score=0.90	.	rs3704562.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	rs7529171.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.
TMEM1 ENST0000.	19q.	.	.	.	rs3707427.	.	.	.	.
NLRP1 ENST0000.	19q.	.	.	.	rs2000514.	.	.	.	.
PEG3:1 ENST0000.	19q.	.	.	.	rs7704358 ID.	.	.	.	.
. ENST0000.	19q.	.	Score=0.90	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.
ZNF600 ENST0000.	19q.	.	.	.	rs1474253.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	rs3733248.	.	.	.	.
SIRPA: ENST0000.	20p.	.	Score=0.90	.	rs1021538 ID.	.	.	.	.
. ENST0000.	20p.	.	.	.	rs7627114.	.	.	.	.
. ENST0000.	20p.	.	.	.	.	.	.	.	.
. ENST0000.	20p.	.	.	Score	rs8672082.	.	.	.	.
. ENST0000.	20p.	.	.	.	.	.	.	.	.
ADAM3 ENST0000.	20p.	.	.	.	rs7638624.	.	.	.	.
. ENST0000.	20p.	.	.	.	.	.	.	.	.
. ENST0000.	20p.	.	.	Score	rs1032256.	.	.	.	.
. ENST0000.	20p.	.	.	.	.	.	.	.	.
CSRP2 ENST0000.	20p.	.	.	.	.	.	.	.	.
. ENST0000.	20p.	.	.	Score.	.	.	.	.	.
CST4:1 ENST0000.	20p.	.	Score=0.90	.	rs1509219 ID.	.	.	.	.
. ENST0000.	20p.	.	.	.	.	.	.	.	.
. ENST0000.	20p.	.	Score=0.90	.	ID.	.	.	.	.
. ENST0000.	20q.	.	Score=0.90	.	ID.	.	.	.	.
. ENST0000.	20q.	.	Score=0.90	.	ID.	.	.	.	.
NOL4L ENST0000.	20q.	.	.	.	rs1845841 ID.	.	.	.	0.001
. ENST0000.	20q.	.	.	.	.	.	.	.	.
. ENST0000.	20q.	.	.	.	.	.	.	.	.
. ENST0000.	20q.	.	.	Score.	.	.	.	.	.
. ENST0000.	20q.	.	.	.	rs7460506 ID.	.	.	.	0.001
. ENST0000.	20q.	.	.	.	.	.	.	.	.
NFS1:1 ENST0000.	20q.	Sc.	.	.	rs1480471.	.	.	.	.
. ENST0000.	20q.	.	.	Score	rs5431099 ID.	.	.	.	.
. ENST0000.	20q.	.	.	.	.	.	.	.	.
. ENST0000.	20q.	.	.	.	.	.	.	.	.
. ENST0000.	20q.	Sc.	.	Score	rs8798536.	.	.	.	.
. ENST0000.	20q.	.	.	.	.	.	.	.	.
. ENST0000.	20q.	.	.	.	rs9848856.	.	.	.	.
DHX35 ENST0000.	20q.	Sc.	.	.	rs9460302.	.	.	.	.
. ENST0000.	20q.	.	.	.	rs3711048.	.	.	.	0.001
TOP1:1 ENST0000.	20q.	.	.	.	.	.	.	.	.
PLCG1 ENST0000.	20q.	Sc.	.	.	.	.	.	.	.

PTPRT	ENST0000	20q.	.	.	.	.	.	.	.	.	.	.	.	.
PTPRT	ENST0000	20q.	.	.	.	rs3761522	ID:	.	.	.	.	.	.	.
.	ENST0000	20q.	.	.	.	.	.	.	.	.	.	.	.	.
.	ENST0000	20q.	.	.	.	.	.	.	.	.	.	.	.	.
.	ENST0000	20q.	.	.	.	Score.	.	.	.	.	.	.	.	.
.	ENST0000	20q.	.	.	.	.	.	.	.	.	.	.	.	.
.	ENST0000	20q.	.	.	.	.	.	.	.	.	.	.	.	.
ZMYN1	ENST0000	20q.	Scc.	.	.	.	ID:	.	.	.	.	.	.	.
KCNG1	ENST0000	20q.	.	.	.	.	ID:	.	.	.	.	.	.	.
.	ENST0000	20q.	.	.	.	.	.	.	.	.	.	.	.	.
.	ENST0000	20q.	.	.	.	.	.	.	.	.	.	.	.	.
ZNF217	ENST0000	20q.	.	.	.	rs8891302	.	.	.	.	.	.	.	.
.	.	20q.	.	.	.	Score	rs8669651	.	.	.	.	.	.	.
GNAS1	ENST0000	20q.	.	.	.	.	.	.	.	.	.	.	.	.
GNAS1	ENST0000	20q.	.	.	.	.	.	.	.	.	.	.	.	.
.	ENST0000	20q.	.	.	.	.	.	.	.	.	.	.	.	.
LSM14B	ENST0000	20q.	.	.	.	rs7702464	.	.	.	.	.	.	.	.
.	ENST0000	20q.	.	.	.	rs7787907	.	.	.	.	.	.	.	.
.	ENST0000	20q.	.	.	.	rs1813756	.	.	.	.	.	.	.	0.002
ARFGAP3	ENST0000	20q.	Scc.	.	.	rs1435421	.	.	.	.	.	.	.	.
.	ENST0000	20q.	.	.	.	.	.	.	.	.	.	.	.	.
.	ENST0000	20q.	.	.	.	.	.	.	.	.	.	.	.	.
ABHD1	ENST0000	20q.	.	.	.	rs5462318	ID:	.	.	.	.	.	.	.
.	ENST0000	21p.	.	.	Score=0.9	rs7962225	.	.	.	.	.	.	.	.
.	.	21p.	.	.	Score=0.9	.	.	.	.	.	.	.	.	.
.	.	21p.	.	.	Score=0.9	Score.	.	.	.	.	.	.	.	.
.	.	21p.	.	.	Score=0.9	Score.	.	.	.	.	.	.	.	.
.	ENST0000	21p.	.	.	Score=0.9	Score	rs8680295	.	.	.	.	.	.	.
.	ENST0000	21p.	.	.	Score=0.9	Score	rs3711086	.	.	.	.	.	.	.
.	.	21p.	.	.	Score=0.9	.	rs3775054	ID:	.	.	.	.	.	.
.	ENST0000	21p.	.	.	Score=0.9	Score.	.	.	.	.	.	.	.	.
UNKNC	ENST0000	21p.	.	.	Score=0.9	.	.	.	.	.	.	.	.	.
.	ENST0000	21p.	.	.	Score=0.9	.	rs5282430	.	.	.	.	.	.	.
.	.	21p.	.	.	Score=0.9	Score.	.	.	.	.	.	.	.	.
.	.	21p.	.	.	Score=0.9	Score	rs665796	.	.	.	.	.	.	.
.	.	21p.	.	.	Score=0.9	Score	rs6582845	ID:	.	.	.	.	.	.
.	ENST0000	21p.	.	.	Score=0.9	.	rs915519	ID:	.	.	.	.	.	.
.	ENST0000	21q.	.	.	Score=0.9	Score.	.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	Score=0.9	.	.	ID:	.	.	.	.	.	.
.	ENST0000	21q.	.	.	Score.	.	.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	.	.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	.	.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	.	rs9172671	.	.	.	.	.	.	.
KRTAP2	ENST0000	21q.	.	.	.	.	.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	Score.	.	.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	.	.	.	.	.	.	.	.	.
SYNJ1	ENST0000	21q.	.	.	.	.	rs1034062	.	.	.	.	.	.	.
OLIG1	ENST0000	21q.	Scc.	.	Score.	.	.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	.	rs7587939	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	.	.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	Score.	.	.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	.	.	.	.	.	.	.	.	.
.	ENST0000	21q.	Scc.	.	Score	rs5585229	.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	.	rs7591033	.	.	.	.	.	.	.

BRWD	ENST0000	21q.	.	.	.	rs7585989 ID	.	.	.
.	ENST0000	21q.	.	.	.	.	.	.	.
DSCAM	ENST0000	21q.	Sc	.	.	.	.	.	.
DSCAM	ENST0000	21q.	Sc	.	.	.	.	.	.
DSCAM	ENST0000	21q.	.	.	.	ID	.	.	.
DSCAM	ENST0000	21q.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	Score rs9464977	.	.	.
ZBTB2	ENST0000	21q.	Sc	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	rs1014361	.	.	.
.	ENST0000	21q.	.	.	.	rs7806447	.	.	.
PWP2	ENST0000	21q.	Sc	.	.	rs5662670	.	.	.
.	ENST0000	21q.	.	.	.	rs9852755	.	.	.
ITGB2	ENST0000	21q.	Sc	.	.	rs7565454	.	.	.
SLC19	ENST0000	21q.	.	.	.	rs7582548 ID	.	.	.
.	ENST0000	21q.	.	.	.	rs3771590	.	.	.
.	ENST0000	21q.	.	.	.	.	.	.	.
.	ENST0000	21q.	.	.	.	.	.	.	.
PCNT	ENST0000	21q.	.	.	.	rs7517144	.	.	.
DIP2A	ENST0000	21q.	.	.	.	.	.	.	.
.	ENST0000	22q.	.	.	.	Score=0.9 rs2845112 ID	.	.	.
.	ENST0000	22q.	.	.	.	Score=0.9 rs8790424	.	.	.
.	ENST0000	22q.	.	.	.	Score=0.9	.	.	.
.	ENST0000	22q.	.	.	.	Score=0.9 rs1248470 ID	.	.	.
.	ENST0000	22q.	.	.	.	.	.	.	.
DGCR2	ENST0000	22q.	.	.	.	rs5555078	.	.	.
.	ENST0000	22q.	.	.	.	Score	.	.	.
.	ENST0000	22q.	.	.	.	Score=0.9 rs1899538	.	.	.
.	ENST0000	22q.	.	.	.	Score=0.9	.	.	.
.	ENST0000	22q.	.	.	.	.	.	.	.
PI4KA	ENST0000	22q.	Sc	Score=0.9	.	rs3714923	.	.	.
HIC2	ENST0000	22q.	.	.	.	rs7724279	.	.	.
.	ENST0000	22q.	.	.	.	Score=0.9	.	.	.
.	ENST0000	22q.	.	.	.	rs3777336	.	.	.
.	ENST0000	22q.	.	.	.	rs3681295	.	.	0.001
SUSD2	ENST0000	22q.	.	.	.	.	.	.	.
ADOR	ENST0000	22q.	.	.	.	.	.	.	.
.	ENST0000	22q.	.	.	.	.	.	.	.
GGT1	ENST0000	22q.	.	.	.	Score=0.9 rs7723316	.	.	.
.	ENST0000	22q.	.	.	.	Score=0.9	.	.	.
.	ENST0000	22q.	.	.	.	.	.	.	.
.	ENST0000	22q.	.	.	.	rs1925641	.	.	.
.	ENST0000	22q.	.	.	.	.	.	.	.
.	ENST0000	22q.	.	.	.	.	.	.	.
.	ENST0000	22q.	.	.	.	rs5710568	.	.	.
.	ENST0000	22q.	.	.	.	rs1015431	.	.	.
SFI1	ENST0000	22q.	.	.	.	.	.	.	.
.	.	22q.	.	.	.	Score=0.9	.	.	.
.	ENST0000	22q.	.	.	.	.	.	.	.
.	ENST0000	22q.	.	.	.	.	.	.	.
MCM5	ENST0000	22q.	.	.	.	rs1379196 ID	.	.	.
.	ENST0000	22q.	.	.	.	.	.	.	.

CSF2R ENST0000.	22q.	.	.	rs3682304.	.	.	0.001
. ENST0000.	22q.	.	.	rs5367410.	.	.	.
PLA2G ENST0000.	22q.	Sc.	.	.	.	.	.
. ENST0000.	22q.	.	.	.	.	.	.
. ENST0000.	22q.	.	.	rs7523833.	.	.	.
KCNJ4 ENST0000.	22q.	Sc.	.	ID.	.	.	.
KCNJ4 ENST0000.	22q.	Sc.	.	ID.	.	.	.
. ENST0000.	22q.	.	.	rs5714435.	.	.	0.001
APOBE ENST0000.	22q.	.	Score=0.90.	.	.	.	.
. ENST0000.	22q.	.	.	Score rs3719126.	.	.	0.005
TNRC6 ENST0000.	22q.	.	.	.	.	.	.
MCHR' ENST0000.	22q.	.	.	rs2016059.	.	.	.
POLR3 ENST0000.	22q.	Sc.	.	.	.	.	.
POLR3 ENST0000.	22q.	.	.	rs1838128.	.	.	.
. ENST0000.	22q.	.	.	.	.	.	.
. ENST0000.	22q.	.	Score=0.90.	.	.	.	.
. ENST0000.	22q.	.	.	rs1916812 ID.	.	.	.
. ENST0000.	22q.	.	.	.	.	.	.
. ENST0000.	22q.	Sc.	.	rs5584935.	.	.	0.001
. ENST0000.	22q.	.	.	rs1305515 ID.	.	.	.
. ENST0000.	22q.	.	.	.	.	.	.
. ENST0000.	22q.	.	.	.	.	.	.
PKDRE ENST0000.	22q.	.	.	.	.	.	.
CELSR ENST0000.	22q.	.	.	.	.	.	.
. ENST0000.	22q.	.	.	.	.	.	.
. ENST0000.	22q.	.	.	.	.	.	.
MOV1C ENST0000.	22q.	Sc.	.	rs5595729.	.	.	.
. ENST0000.	22q.	.	.	.	.	.	.
PANX2 ENST0000.	22q.	Sc.	.	.	.	.	.
PLXNB ENST0000.	22q.	.	.	rs3705843.	.	.	0.001
. ENST0000.	22q.	.	Score=0.80.	.	.	.	.
NCAPF ENST0000.	22q.	Sc.	.	ID.	.	.	.
. ENST0000.	22q.	.	.	rs9805300.	.	.	.
. ENST0000.	Xp2.	.	Score=0.90.	.	.	.	.
. ENST0000.	Xp2.	.	Score=0.90.	.	.	.	.
. ENST0000.	Xp2.	.	Score=0.90.	.	.	.	.
. ENST0000.	Xp2.	.	Score.	.	.	.	.
LOC10 ENST0000.	Xp2.	.	.	.	.	.	.
. ENST0000.	Xp2.	.	.	.	.	.	.
. ENST0000.	Xp2.	.	.	.	.	.	.
NHS:NI ENST0000.	Xp2.	Sc.	.	.	.	.	.
. ENST0000.	Xp2.	Sc.	.	.	.	.	.
APOO: ENST0000.	Xp2.	.	.	rs3730298.	.	.	.
ARX:NI ENST0000.	Xp2.	.	.	.	.	.	.
. ENST0000.	Xp2.	.	Score.	.	.	.	.
. ENST0000.	Xp2.	.	.	.	.	.	.
. ENST0000.	Xp2.	.	.	.	.	.	.
MAGEF ENST0000.	Xp2.	.	.	.	.	.	.
. ENST0000.	Xp2.	.	.	.	.	.	.
. ENST0000.	Xp2.	.	.	.	.	.	.
. ENST0000.	Xp2.	.	.	.	.	.	.
. ENST0000.	Xp2.	.	.	.	.	.	.
. ENST0000.	Xp1.	.	.	.	.	.	.



.	ENST0000.	Xq2.	Score=0.9	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	rs1507941	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	Score rs8664003	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	Score.	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
ACTRT	ENST0000.	Xq2.	.	.	rs1387255 ID	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
ATP11	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	Score=0.9	Score.	ID.	.	.	.	.
MAGE/	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	Score=0.9	.	rs7823749 ID	.	.	.	.
CNGA2	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	rs3712627	.	.	.	.
BGN:N	ENST0000.	Xq2.	Sc	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	rs7825278	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
SLC10/	ENST0000.	Xq2.	.	.	.	.	.	.	.
G6PD:†	ENST0000.	Xq2.	.	.	rs7819487 ID	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.	.
TMLHE	ENST0000.	Xq2.	.	.	.	.	.	.	.
.	.	Yq1.	Score=0.9	.	.	.	.	.	.
.	.	.	.	.	rs8791767	.	.	.	.
.	.	.	.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	rs5750552	.	.	0	.
.	ENST0000.	1p3.	Score=0.9	.	rs4101081	.	.	.	.
.	ENST0000.	1p3.	Score=0.9	.	rs7629862 ID	.	.	.	.
.	ENST0000.	1p3.	Score=0.9	Score.	.	.	.	.	.
EIF4G3	ENST0000.	1p3.	Sc	.	.	.	.	.	.
.	.	1q2.	Score=0.9	.	rs3772379	.	.	.	.
.	ENST0000.	1q2.	Score=0.9	Score rs3720400	.	.	.	.	.
.	ENST0000.	1q2.	Score=0.9	Score rs6181337	.	.	.	.	.
.	ENST0000.	1q4.	.	.	.	.	.	.	.
.	ENST0000.	2p1.	.	.	.	.	.	.	.
.	.	2p1.	Score=0.9	Score rs1649505	.	.	.	.	.
EPHA6	ENST0000.	3q1.	.	.	rs7933313	.	.	0.002	0.001
COL6A	ENST0000.	3q2.	.	.	rs7480655 ID	.	.	.	.
TOPBF	ENST0000.	3q2.	.	.	.	.	.	.	.
.	ENST0000.	4p1.	Score=0.9	.	.	.	.	.	.
.	ENST0000.	5p1.	Score=0.9	.	rs671688	.	.	.	.
.	ENST0000.	5p1.	Score=0.9	Score rs8681576 ID	.	.	.	.	.
CLK4:†	ENST0000.	5q3.	.	.	.	.	.	.	.





ABCG5	ENST0000.	2p2.	.	.	rs1420196	.	.	.	.
.	ENST0000.	2q2.	.	.	.	.	.	.	.
TANC1	ENST0000.	2q2.	.	.	.	.	.	.	.
SLC39A1	ENST0000.	2q3.	Sc.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	Score=0.9	rs1857895	.	.	0	0.003
.	ENST0000.	2q3.	.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	.	.	.	.	.	.
MROH2	ENST0000.	2q3.	.	.	.	.	.	.	.
STK25	ENST0000.	2q3.	.	.	rs7784676	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.	.
.	ENST0000.	3q1.	.	.	.	.	.	.	.
CEP63	ENST0000.	3q2.	.	.	.	.	.	.	.
CEP63	ENST0000.	3q2.	Sc.	.	.	.	.	.	.
.	ENST0000.	3q2.	.	.	.	.	.	.	.
GOLIM	ENST0000.	3q2.	.	.	rs7462149	ID.	.	.	.
.	ENST0000.	3q2.	.	.	.	.	.	.	.
PIK3CA	ENST0000.	3q2.	.	Score=0.9	rs1048860	ID: Patho.	.	.	.
YEATS	ENST0000.	3q2.	Sc.	.	.	.	.	.	.
.	ENST0000.	4p1.	.	.	.	.	.	.	.
SMARCA4	ENST0000.	4q2.	.	.	.	.	.	.	.
.	ENST0000.	4q2.	.	Score.	.	.	.	.	.
NAA15	ENST0000.	4q3.	Sc.	.	.	.	.	.	.
INPP4B	ENST0000.	4q3.	.	.	.	.	.	.	.
.	.	4q3.	.	.	.	.	.	.	.
.	ENST0000.	5p1.	.	.	Score rs1876921	ID.	.	.	.
RNF181	ENST0000.	5q1.	Sc.	.	.	.	.	.	.
F2R1	ENST0000.	5q1.	.	.	.	.	.	.	.
SEC24L	ENST0000.	5q3.	.	.	rs7956159	ID.	.	0.033	0.031
FAM71	ENST0000.	5q3.	.	.	.	.	.	.	.
HMMR	ENST0000.	5q3.	.	.	.	.	.	.	.
KCNIP1	ENST0000.	5q3.	.	.	.	ID.	.	.	.
.	ENST0000.	6p2.	.	.	.	.	.	.	.
SYCP2	ENST0000.	6p2.	.	.	.	.	.	.	.
.	ENST0000.	6p2.	.	.	.	.	.	.	.
.	ENST0000.	6p2.	.	Score=0.9	rs1787910	.	.	0.309	0.277
.	ENST0000.	6p2.	.	.	rs5364899	.	.	0.003	0.003
EYS1	ENST0000.	6q1.	.	.	.	.	.	.	.
EYS1	ENST0000.	6q1.	Sc.	.	.	.	.	.	.
.	ENST0000.	6q2.	.	.	.	.	.	.	.
.	ENST0000.	6q2.	.	.	.	.	.	.	.
.	ENST0000.	7p2.	.	Score=0.9	.	.	.	.	.
.	.	7q1.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	7q2.	.	.	.	.	.	.	.
.	ENST0000.	7q3.	.	.	.	.	.	.	.
.	ENST0000.	7q3.	.	.	rs3685111	.	.	.	.
.	ENST0000.	8p1.	.	.	.	.	.	.	.
PREX2	ENST0000.	8q1.	.	.	.	.	.	.	.
.	ENST0000.	8q2	Sc.	.	.	.	.	.	.
NAPRT	ENST0000.	8q2.	.	.	.	.	.	.	.
PLEC1	ENST0000.	8q2.	Sc.	.	rs3743103	ID.	.	.	.
.	.	9q1.	.	Score=0.8	rs4928838	ID.	.	.	.
.	.	9q2.	.	.	.	.	.	.	.
PHF21	ENST0000.	9q2.	.	.	.	.	.	.	.
.	ENST0000.	9q3.	.	.	.	.	.	.	.

. ENST0000.	9q3.	.	.	.	.	.	.	.	.
DIP2C: ENST0000.	10p.	.	.	.	.	.	.	.	.
. ENST0000.	10p.	.	.	.	.	.	.	.	.
. ENST0000.	10q.	Score=0.9(	rs3128226.	.	.	.	0.527	0.524	.
. ENST0000.	10q.	.	.	.	.	.	.	.	.
. ENST0000.	11p.	Score=0.9(	.	.	.	.	.	.	.
. ENST0000.	11p.	.	.	.	.	.	.	.	.
GYLTL ENST0000.	11p.	.	.	.	.	.	.	.	.
. ENST0000.	11q.	.	.	.	.	.	.	.	.
TENM4 ENST0000.	11q.	.	.	.	.	.	.	.	.
. ENST0000.	11q.	.	.	.	.	.	.	.	.
. ENST0000.	11q.	.	.	.	.	.	.	.	.
. ENST0000.	12p.	Score=0.9(	rs5382343 ID:	.	.	.	0.402	0.375	.
ATF7IF ENST0000.	12p.	Sc.	.	.	.	.	.	.	.
SMCO2 ENST0000.	12p.	.	.	.	.	.	.	.	.
. ENST0000.	12q.	.	rs8658204 ID:	.	.	.	.	.	.
. ENST0000.	12q.	Score.	.	.	.	.	.	.	.
NAA25 ENST0000.	12q.	.	.	.	.	.	.	.	.
NOS1: ENST0000.	12q.	.	rs7707492.	.	.	.	.	.	.
. ENST0000.	13q.	.	.	.	.	.	.	.	.
FRY:NI ENST0000.	13q.	.	rs3702294.	.	.	.	0.	.	.
FREM2 ENST0000.	13q.	.	rs4129275 ID: Uncer.	.	.	.	0.	.	.
FREM2 ENST0000.	13q.	.	.	.	.	.	.	.	.
PCDH2 ENST0000.	13q.	.	ID:	.	.	.	.	.	.
. ENST0000.	13q.	.	.	.	.	.	.	.	.
SLAIN1 ENST0000.	13q.	.	.	.	.	.	.	.	.
CCDC1 ENST0000.	13q.	.	.	.	.	.	.	.	.
. ENST0000.	14q.	.	rs3699116.	.	.	.	.	.	.
. ENST0000.	14q.	Score rs7660001:	.	.	.	.	.	.	.
BTBD7 ENST0000.	14q.	Sc.	.	.	.	.	.	.	.
. ENST0000.	14q.	.	.	.	.	.	.	.	.
AKT1:NI ENST0000.	14q.	.	rs1214345 ID: Patho.	.	.	.	.	.	.
. ENST0000.	14q.	Score=0.9(	.	.	.	.	.	.	.
. ENST0000.	15q.	Score=0.9(	rs4932010 ID:	.	.	.	.	.	.
. ENST0000.	15q.	Score=0.9(	Score rs7494426.	.	.	.	.	.	.
. ENST0000.	15q.	Score=0.9(	rs1079463 ID:	.	.	.	.	.	.
. ENST0000.	15q.	Score=0.9(	Score rs1823548.	.	.	.	0.086	0.088	.
. ENST0000.	15q.	.	.	.	.	.	.	.	.
. ENST0000.	15q.	Score rs1861770.	.	.	.	.	0.003	0.002	.
PATL2: ENST0000.	15q.	.	rs9953164 ID:	.	.	.	.	.	.
. ENST0000.	15q.	Score.	.	.	.	.	.	.	.
. ENST0000.	15q.	.	.	.	.	.	.	.	.
. ENST0000.	15q.	Score=0.8(	Score.	.	.	.	.	.	.
CCDC6 ENST0000.	16p.	.	ID:	.	.	.	.	.	.
. ENST0000.	16p.	Score=0.9(	.	.	.	.	.	.	.
OGFOI ENST0000.	16q.	.	rs7759203.	.	.	.	.	.	.
. ENST0000.	16q.	Score.	.	.	.	.	.	.	.
C17orf ENST0000.	17p.	.	.	.	.	.	.	.	.
GPR17 ENST0000.	17q.	.	rs7810711 ID:	.	.	.	.	.	.
DBF4B ENST0000.	17q.	.	rs1509595.	.	.	.	0.	.	.
HOXB8 ENST0000.	17q.	.	.	.	.	.	.	.	.
. ENST0000.	17q.	.	rs3742496.	.	.	.	0.002	0.002	.
. ENST0000.	17q.	.	rs5611679.	.	.	.	.	.	.

NOTUM	ENST0000.	17q.	Sc.	rs5502840	.	.	.	0.
.	ENST0000.	18p.	Score=0.9	rs1996954	ID:	.	.	.
.	ENST0000.	18q.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
.	ENST0000.	19p.	.	.	.	.	.	.
SUGP1	ENST0000.	19p.	Sc.	.	.	.	.	.
ZNF50	ENST0000.	19p.	Score=0.8	.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.	.
ZNF56	ENST0000.	19q.	.	.	.	.	.	.
TTC9B	ENST0000.	19q.	.	.	ID:	.	.	.
.	ENST0000.	19q.	Score=0.9	.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.	.
.	ENST0000.	20p.	.	.	.	.	.	.
TGM6	ENST0000.	20p.	.	.	.	.	.	.
CDS2	ENST0000.	20p.	Sc.	rs1438597	.	.	.	.
.	ENST0000.	20q.	.	.	.	.	.	.
.	ENST0000.	20q.	Score.	.	.	.	.	.
.	ENST0000.	21p.	Score=0.9	rs1170118	ID:	.	.	.
USP25	ENST0000.	21q.	.	.	.	.	.	.
.	ENST0000.	22q.	.	.	.	.	.	.
OSBP2	ENST0000.	22q.	.	.	.	.	.	.
EIF3L	ENST0000.	22q.	Sc.	.	.	.	.	.
ARSF	ENST0000.	Xp2.	.	rs7509188	ID:	.	.	.
ARX	ENST0000.	Xp2.	Sc.	.	.	.	.	.
.	ENST0000.	Xp1.	Score=0.9	.	.	.	.	.
KIF4A	ENST0000.	Xq1.	.	.	.	.	.	.
NKAP	ENST0000.	Xq2.	Sc.	.	.	.	.	.
.	.	Xq2.	.	.	.	.	.	.
.	.	Xq2.	.	.	.	.	.	.
.	.	Xq2.	.	.	.	.	.	.
.	ENST0000.	Xq2.	Sc.	.	.	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.	.
.	.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	Score=0.9	rs1149286	.	.	.	.
TMEM	ENST0000.	1p3.	Sc.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.
COL24	ENST0000.	1p2.	Sc.	.	.	.	.	.
.	ENST0000.	1p1.	Score=0.9	rs1998147	.	.	.	.
.	ENST0000.	1q2.	Score=0.9	rs8662584	ID:	.	.	.
.	ENST0000.	2p1.	.	.	.	.	.	.
ETAA1	ENST0000.	2p1.	.	.	.	.	.	.
.	ENST0000.	2p1.	.	.	.	.	.	.
GLI2	ENST0000.	2q1.	.	rs3708851	.	.	.	.
.	ENST0000.	2q2.	Score	rs2008806	ID:	.	.	0.
.	ENST0000.	2q2.	.	rs9042902	.	.	.	.
.	ENST0000.	2q3.	.	rs3702772	.	.	.	.
.	ENST0000.	2q3.	.	rs5574456	.	.	.	0.
.	ENST0000.	3p2.	Score	rs1446637	.	.	.	0.078 0.081
.	ENST0000.	3p2.	.	.	.	.	.	.
GRAMI	ENST0000.	3q1.	.	.	.	.	.	.
DRD3	ENST0000.	3q1.	.	rs2015548	ID:	.	.	.
.	ENST0000.	4p1.	.	rs1163261	.	.	.	0.
.	.	4p1.	Score=0.9	rs4695484	ID:	.	.	.
.	.	4p1.	Score=0.9	rs4695485	ID:	.	.	.
SMR3E	ENST0000.	4q1.	.	rs7496227	ID:	.	.	.

PDLIM1	ENST0000	4q3	.	.	rs7758415	ID	.	.	.
PCDH1A	ENST0000	5q3	.	Score=0.9	.	ID	.	.	.
.	ENST0000	6p2	.	.	rs1161907	.	.	.	.
.	ENST0000	6q1	.	.	.	.	.	.	.
.	ENST0000	6q1	.	Score=0.9	.	.	.	.	.
.	ENST0000	6q2	.	.	rs7577542	.	.	.	.
.	ENST0000	7p2	.	.	.	.	.	.	.
ABCB1	ENST0000	7q2	.	.	.	.	.	.	.
.	ENST0000	7q2	.	Score=0.9	.	.	.	.	.
PCM1L	ENST0000	8p2	Sc	.	rs7722351	.	.	.	.
.	ENST0000	8q2	.	.	.	.	.	.	.
TRAF2	ENST0000	9q3	.	.	rs7507213	ID	.	.	.
.	ENST0000	10p	Sc	.	.	.	.	.	.
ITGA8	ENST0000	10p	.	.	rs7571508	ID	.	.	.
.	ENST0000	10p	.	Score=0.9	rs5655237	.	.	0	0.001
.	ENST0000	10q	.	Score	rs7905448	ID	.	0.347	0.355
.	ENST0000	10q	.	.	.	.	.	.	.
.	ENST0000	10q	.	.	rs9706750	.	.	.	.
.	ENST0000	10q	.	.	rs7723659	.	.	.	.
INA:NM	ENST0000	10q	.	.	.	ID	.	.	.
FGFR2	ENST0000	10q	.	.	rs1219134	ID	Likely	.	.
DEAF1	ENST0000	11p	.	.	.	.	.	.	.
USH1C	ENST0000	11p	.	.	rs5453728	.	.	0	.
USH1C	ENST0000	11p	Sc	.	.	.	.	.	.
.	ENST0000	11q	.	.	.	.	.	.	.
OAS1L	ENST0000	12q	.	.	rs1030864	.	.	.	.
RB1:NM	ENST0000	13q	.	.	.	.	.	.	.
.	.	13q	.	Score=0.9	rs9145408	.	.	.	.
.	.	13q	.	Score	rs9816818	.	.	.	.
.	ENST0000	14q	.	.	.	.	.	.	.
.	ENST0000	14q	Sc	.	.	.	.	.	.
PRPF3	ENST0000	14q	Sc	.	rs5634662	ID	.	0	.
.	ENST0000	14q	.	.	.	.	.	.	.
EML5L	ENST0000	14q	.	.	.	.	.	.	.
HHIPL1	ENST0000	14q	.	.	.	.	.	.	.
.	ENST0000	15q	.	Score=0.9	.	.	.	.	.
.	ENST0000	15q	.	Score=0.9	rs7780894	.	.	.	.
MGA:N	ENST0000	15q	.	.	.	.	.	.	.
TTBK2	ENST0000	15q	.	Score	.	.	.	.	.
SLC9A1	ENST0000	16q	.	.	.	.	.	.	.
.	ENST0000	17p	.	.	.	.	.	.	.
.	.	17p	.	Score=0.9	rs5864828	.	.	.	.
.	ENST0000	17q	.	.	rs7798230	.	.	.	.
.	ENST0000	18p	.	.	.	.	.	.	.
CACNA	ENST0000	19p	Sc	.	rs7477304	ID	.	.	.
OR7A1	ENST0000	19p	.	.	.	.	.	.	.
.	ENST0000	19q	.	Score=0.9	Score	rs9472013	.	.	.
APLP1	ENST0000	19q	.	.	.	.	.	.	.
.	ENST0000	19q	.	.	.	.	.	.	.
.	ENST0000	19q	.	.	rs3718581	.	.	.	.
.	ENST0000	19q	.	.	rs1056285	.	.	.	.
.	ENST0000	20p	.	.	rs5584781	ID	.	0	.
.	ENST0000	20p	.	Score=0.9	rs6037279	ID	.	.	.
.	ENST0000	20q	.	.	.	.	.	.	.

	ENST0000.	20q.	Sc.					
	ENST0000.	21p.		Score=0.9	rs2013315 ID.			
	ENST0000.	21p.		Score=0.9	rs2001788 ID.			
PKDRE	ENST0000.	22q.			ID.			
IRAK1	ENST0000.	Xq2.						
	ENST0000.	1p3.		Score=0.9	rs6263527 ID.			
	ENST0000.	1p3.						
	ENST0000.	1q2.		Score=0.9	rs7457471 ID.			
	ENST0000.	1q2.	Sc.					
	ENST0000.	1q4.						
		2p1.		Score=0.9	ID.			
		2p1.		Score=0.9	rs3711404 ID.			
	ENST0000.	2q3.	Sc.					
	ENST0000.	3q2.		Score=0.9	rs7758373 ID.			
	ENST0000.	4p1.						
		4p1.		Score=0.9	rs4694947			
	ENST0000.	9q2.		Score.	ID.			
	ENST0000.	10p.		Score=0.9	rs4070334 ID.			
	ENST0000.	12q.		Score	rs9213947			
	ENST0000.	14q.			rs1125033 ID.			
	ENST0000.	14q.		Score.				
GOLG7	ENST0000.	15q.		Score=0.9	rs2859043 ID: Benig			
	ENST0000.	15q.		Score=0.9				
	ENST0000.	18q.		Score.	ID.			
	ENST0000.	1q2.		Score=0.9				
	ENST0000.	1q2.		Score=0.9	rs2787778 ID.			
	ENST0000.	1q2.		Score=0.9	rs2787777 ID.		0.319	0.325
		2p1.		Score=0.9	rs3711404 ID.			
	ENST0000.	5p1.		Score	rs1997973			
	ENST0000.	7q1.		Score=0.9	rs2018986 ID.			
		7q1.		Score=0.9				
POLR2	ENST0000.	7q2.		Score=0.9	rs1390499 ID.			
		8p2.		Score=0.9	rs2077351 ID.			
	ENST0000.	9q1.		Score=0.9	rs1136487 ID.			
	ENST0000.	9q2.		Score=0.9	rs7648362 ID.			
	ENST0000.	9q2.						
FAM21	ENST0000.	10q.	Sc	Score=0.9	rs1995206 ID.			
	ENST0000.	11p.		Score=0.9	rs3713518 ID.			
	ENST0000.	11p.			rs8790394			
	ENST0000.	17p.		Score=0.9	rs1155611 ID.			
SLC35	ENST0000.	18p.		Score=0.9	rs2018600 ID.			
		21p.		Score=0.9	Score.	ID.		
		21p.		Score=0.9	rs8792017 ID.			
	ENST0000.	21p.		Score	rs1043983 ID.			
	ENST0000.	Xq2.		Score=0.9	rs1444677		0.107	0.101
	ENST0000.	1p3.		Score=0.9				
	ENST0000.	1p3.						
	ENST0000.	1p3.						
TMEM2	ENST0000.	1p3.	Sc.					
	ENST0000.	1p3.		Score=0.9				
	ENST0000.	1p3.		Score=0.9				
	ENST0000.	1p2.	Sc.					

.	ENST0000.	1q2.	Score=0.9†	rs3894786 ID.	.	.	.
.	ENST0000.	1q2.	Score=0.9†	rs1112760 ID.	.	.	.
.	ENST0000.	1q2.	Score=0.9†	rs2017985 ID.	.	.	.
.	ENST0000.	1q2.	Score=0.9†	rs3713084 ID.	.	.	.
.	ENST0000.	1q2.	Score=0.9†	rs8799710.	.	.	.
.	ENST0000.	1q2.	Score=0.9†	rs6699421 ID.	.	.	.
.	ENST0000.	1q2.	Score=0.9†	rs8799669.	.	.	.
OTUD7	ENST0000.	1q2.	.	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.
RIT1:N	ENST0000.	1q2.	Sc.	rs4833528 ID: not pr.	.	.	.
.	ENST0000.	1q2.	.	rs8940723.	.	.	.
.	ENST0000.	1q2.	.	rs7731705.	.	.	.
.	ENST0000.	2p1.	Score=0.9†	.	.	.	.
.	ENST0000.	2p1.	.	rs7781962.	.	.	.
LYG2:†	ENST0000.	2q1.	Sc.	rs2018517 ID.	.	0	0.001
SLC9A:	ENST0000.	2q1.	Sc.	.	.	.	.
EVX2:†	ENST0000.	2q3.	.	rs7685255.	.	.	.
CWC2:	ENST0000.	2q3.	Sc.	rs7551300.	.	.	.
RPSA:†	ENST0000.	3p2.	.	rs6224264 ID.	.	.	.
.	ENST0000.	3q2.	.	.	.	.	.
ABCC5	ENST0000.	3q2.	Sc.	.	.	.	.
HTR3C	ENST0000.	3q2.	.	.	.	.	.
.	ENST0000.	3q2.	.	.	.	.	.
.	ENST0000.	4q2.	.	.	.	.	.
.	ENST0000.	4q2.	.	rs5742217.	.	0	.
VEGFC	ENST0000.	4q3.	.	rs5549088 ID.	.	0	.
.	ENST0000.	5p1.	Score=0.9†	Score.	.	.	.
.	ENST0000.	5q1.	Score=0.9†	Score rs3759258.	.	0.777	0.772
PTCD2	ENST0000.	5q1.	.	.	.	.	.
.	ENST0000.	5q3.	.	.	.	.	.
.	ENST0000.	5q3.	Sc.	.	.	.	.
.	ENST0000.	5q3.	.	.	.	.	.
.	ENST0000.	5q3.	.	Score.	.	.	.
.	ENST0000.	6p2.	.	Score rs7580301.	.	.	.
.	ENST0000.	6p2.	.	rs7598672.	.	.	.
.	ENST0000.	6p2.	.	.	.	.	.
HLA-G:	ENST0000.	6p2.	Score=0.8†	.	.	.	.
.	ENST0000.	6p2.	.	.	.	.	.
.	ENST0000.	6p2.	.	.	.	.	.
.	ENST0000.	6p2.	.	.	.	.	.
.	ENST0000.	6q1.	.	.	.	.	.
LOC44	ENST0000.	6q1.	Score=0.9†	.	.	.	.
.	ENST0000.	6q2.	Score.	.	.	.	.
.	ENST0000.	7p2.	.	.	.	.	.
.	ENST0000.	7q1.	Score=0.9†	rs2018986 ID.	.	.	.
.	ENST0000.	7q2.	.	rs9803140.	.	.	.
.	ENST0000.	7q3.	Score=0.9†	Score rs1208357 ID.	.	.	.
.	ENST0000.	7q3.	Score=0.9†	Score rs6248378 ID.	.	.	.
GIMAP	ENST0000.	7q3.	.	.	.	.	.
.	ENST0000.	7q3.	Score=0.9†	.	.	.	.
.	ENST0000.	8p2.	.	.	.	.	.
.	.	8p1.	.	Score rs2022368 ID.	.	.	.
.	ENST0000.	8q2.	.	.	.	.	.
FRMD:	ENST0000.	9q2.	Sc.	.	.	.	.







. ENST0000.	4p1.	. . .	rs4970287 ID.	. . .
. ENST0000.	4q2.	. . .	. . .	. . .
TET2: ENST0000.	4q2.	. . .	ID.	. . .
NIPBL: ENST0000.	5p1.	. . .	. . .	. . .
. ENST0000.	5q3.	. . .	Score.	. . .
. ENST0000.	7p1.	. . .	rs9642790.	. . .
. ENST0000.	7p1.	. . .	Score=0.9.	rs6246184 ID.
. ENST0000.	7p1.	. . .	Score=0.9.	. . .
LRCH4 ENST0000.	7q2.	Sc.	. . .	. . .
PTPRZ ENST0000.	7q3.	. . .	ID.	. . .
. ENST0000.	7q3.	. . .	rs8915428.	. . .
. ENST0000.	7q3.	. . .	. . .	. . .
. ENST0000.	8p2.	. . .	. . .	. . .
ZNF70: ENST0000.	8p1.	. . .	. . .	. . .
. ENST0000.	8q1.	. . .	. . .	. . .
. ENST0000.	9p2.	. . .	. . .	. . .
. ENST0000.	9q3.	. . .	. . .	. . .
. ENST0000.	10q.	. . .	. . .	. . .
GRID1: ENST0000.	10q.	. . .	. . .	. . .
NOLC1 ENST0000.	10q.	. . .	. . .	. . .
. ENST0000.	10q.	. . .	. . .	. . .
. ENST0000.	10q.	. . .	. . .	. . .
TRIM5: ENST0000.	11p.	. . .	. . .	. . .
NLRP1 ENST0000.	11p.	. . .	ID.	. . .
. ENST0000.	11p.	. . .	. . .	. . .
TRAF6 ENST0000.	11p.	Sc Score=0.9.	. . .	. . .
. ENST0000.	11q.	. . .	. . .	. . .
DSCAM ENST0000.	11q.	. . .	rs7580622 ID.	. . .
CD163: ENST0000.	12p.	. . .	. . .	. . .
. . .	12q.	. . .	. . .	. . .
GPD1: ENST0000.	12q.	. . .	. . .	. . .
GPR84 ENST0000.	12q.	. . .	. . .	. . .
. ENST0000.	12q.	. . .	. . .	. . .
HCAR3 ENST0000.	12q.	. . .	Score=0.9.	. . .
GPC5: ENST0000.	13q.	. . .	. . .	. . .
. ENST0000.	14q.	. . .	Score=0.9.	rs7149806 ID.
. . .	14q.	. . .	Score.	. . .
NDN: ENST0000.	15q.	. . .	Score=0.8.	. . .
. ENST0000.	15q.	. . .	Score=0.9.	Score rs1995696.
FMN1: ENST0000.	15q.	. . .	. . .	. . .
. ENST0000.	15q.	. . .	. . .	. . .
. ENST0000.	15q.	. . .	. . .	. . .
ANPEP ENST0000.	15q.	. . .	. . .	. . .
. ENST0000.	16p.	. . .	. . .	. . .
. ENST0000.	16q.	. . .	. . .	. . .
. ENST0000.	17p.	. . .	. . .	. . .
. ENST0000.	17q.	. . .	Score=0.9.	. . .
. ENST0000.	18p.	. . .	Score=0.9.	rs8790150 ID.
. ENST0000.	19p.	. . .	Score	rs8673654 ID.
MAN2E ENST0000.	19p.	. . .	rs7668108.	. . .
CRLF1 ENST0000.	19p.	Sc.	rs7683037.	. . .
. ENST0000.	19p.	. . .	Score=0.9.	. . .
. ENST0000.	19q.	. . .	. . .	. . .
MAP4K ENST0000.	19q.	. . .	. . .	. . .

. ENST0000.	19q.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.	.
. .	19q.	.	Score=0.9	.	.	.	.	.	.	.
NLRP9 ENST0000.	19q.	.	Score=0.9	.	.	.	.	.	.	.
. ENST0000.	20q.	.	.	.	.	.	.	.	.	.
SALL4: ENST0000.	20q.	.	.	.	.	.	.	.	.	.
. .	21p.	.	Score=0.9	Score rs1118412	.	.	.	.	.	.
ADAM1 ENST0000.	21q.	.	.	.	.	.	.	.	.	.
URB1: ENST0000.	21q.	Sc.	.	.	.	.	.	.	.	.
. .	22q.	.	Score=0.8	rs2006656 ID:	.	.	.	.	.	.
. ENST0000.	22q.	.	.	rs9392199	.	.	.	.	.	.
. ENST0000.	Xp1.	.	.	Score rs734038	.	.	.	0.207	0.192	.
. ENST0000.	Xq2.	.	Score=0.9	rs1826904	.	.	.	0	.	.
OCRL: ENST0000.	Xq2.	Sc.	.	.	.	.	.	.	.	.
GPR11 ENST0000.	Xq2.	.	.	.	ID:	.	.	.	.	.
SLITR: ENST0000.	Xq2.	.	.	.	.	.	.	.	.	.
F8:NM_ ENST0000.	Xq2.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.
. .	.	.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	Score=0.9	Score rs1810443 ID:	.	.	.	.	.	.
. .	1q2.	.	Score=0.9	Score rs3698413	.	.	.	.	.	.
. ENST0000.	1q2.	.	Score=0.9	rs3774960	.	.	.	.	.	.
. ENST0000.	1q2.	.	.	rs2596327 ID:	.	.	.	.	.	.
. ENST0000.	1q2.	.	Score=0.9	rs2020368	.	.	.	.	.	.
. .	1q2.	.	Score=0.9	.	.	.	.	.	.	.
. ENST0000.	2p1.	.	Score.	.	.	.	.	.	.	.
. ENST0000.	2p1.	.	Score=0.9	rs2647769 ID:	.	.	.	.	.	.
. ENST0000.	2q1.	.	Score.	.	.	.	.	.	.	.
. ENST0000.	2q1.	.	Score.	.	.	.	.	.	.	.
. ENST0000.	2q1.	.	Score.	.	.	.	.	.	.	.
. ENST0000.	2q2.	.	Score=0.9	Score rs6216494	.	.	.	.	.	.
. ENST0000.	3q2.	.	Score.	.	.	.	.	.	.	.
. ENST0000.	4p1.	.	.	.	.	.	.	.	.	.
. .	4q1.	.	.	Score rs1429725	.	.	.	0.684	0.681	.
. ENST0000.	5p1.	.	Score=0.9	rs2871612 ID:	.	.	.	.	.	.
. ENST0000.	7p1.	.	Score=0.9	rs6246206 ID:	.	.	.	.	.	.
. ENST0000.	7q1.	.	Score=0.9	rs3680944 ID:	.	.	.	.	.	.
. ENST0000.	8q1.	.	Score=0.9	Score rs1499905 ID:	.	.	.	.	.	.
. ENST0000.	10q.	.	.	.	.	.	.	.	.	.
. ENST0000.	10q.	.	.	Score rs7710236 ID:	.	.	.	.	.	.
. ENST0000.	10q.	.	.	rs1788433 ID:	.	.	.	.	.	.
. ENST0000.	10q.	.	.	.	.	.	.	.	.	.
. ENST0000.	11q.	.	Score.	.	.	.	.	.	.	.
. ENST0000.	12p.	.	Score=0.9	rs1063873	.	.	.	0.269	0.267	.
. ENST0000.	14q.	.	Score=0.9	Score rs4247513	.	.	.	.	.	.
. ENST0000.	14q.	.	Score=0.9	rs7445485	.	.	.	.	.	.
. ENST0000.	14q.	.	Score=0.9	rs8678279	.	.	.	.	.	.
. ENST0000.	14q.	.	.	.	.	.	.	.	.	.
. ENST0000.	17q.	.	Score=0.9	rs3930170 ID:	.	.	.	.	.	.
. ENST0000.	17q.	.	.	Score rs3894278 ID:	.	.	.	.	.	.
. .	21p.	.	Score=0.9	rs1963041 ID:	.	.	.	.	.	.
. ENST0000.	22q.	.	Score=0.9	rs3716554	.	.	.	.	.	.

. ENST0000.	22q.	. Score=0.9	.	.	.	.	.	.
. ENST0000.	Xq2.	. Score=0.9	rs7819787.	.	.	0.254	0.249	.
. ENST0000.	1p3.	. Score=0.9	.	.	.	.	.	.
. ENST0000.	1p3.	. Score=0.9	rs453347 ID.	.	.	0.45	0.437	.
. ENST0000.	1p3.	.	.	.	.	.	.	.
. ENST0000.	1q2.	. Score=0.9	rs1812127.	.	.	.	.	.
. ENST0000.	1q2.	. Score=0.9	Score.	.	.	.	.	.
. ENST0000.	1q2.	. Score=0.9	rs8799607.	.	.	.	.	.
. ENST0000.	1q2.	. Score=0.9	rs1451754 ID.	.	.	.	.	.
. ENST0000.	1q2.	. Score=0.9	rs2003945 ID.	.	.	.	.	.
. ENST0000.	1q2.	. Score=0.9	rs7970322.	.	.	.	.	.
. ENST0000.	1q3.	.	.	.	.	.	.	.
. ENST0000.	2q3.	.	rs1996199 ID.	.	.	.	.	.
. ENST0000.	3p2.	.	Score.	.	.	.	.	.
. ENST0000.	3q2.	.	rs1873413.	.	.	0.063	0.055	.
. .	3q2.	. Score=0.9	rs3723871.	.	.	.	.	.
. ENST0000.	3q2.	.	Score.	.	.	.	.	.
. ENST0000.	3q2.	. Score=0.9	rs2006820.	.	.	.	.	.
. .	4p1.	. Score=0.9	.	.	.	.	.	.
. ENST0000.	5q3.	.	.	.	.	.	.	.
. .	6q2.	.	Score.	.	.	.	.	.
. ENST0000.	6q2.	. Score=0.9	rs7746421 ID.	.	.	0.359	0.355	.
. .	6q2.	. Score=0.9	rs3759780.	.	.	.	.	.
. .	7q1.	. Score=0.9	ID.	.	.	.	.	.
. .	7q1.	. Score=0.9	.	.	.	.	.	.
AUTS2 ENST0000.	7q1.	Sc.	Score.	.	.	.	.	.
. ENST0000.	9p1.	. Score=0.9	rs2803685 ID.	.	.	.	.	.
. .	10q.	. Score=0.9	rs1996770.	.	.	.	.	.
. .	10q.	. Score=0.9	rs1456597 ID.	.	.	.	.	.
. ENST0000.	11p.	.	Score.	.	.	.	.	.
. ENST0000.	11q.	Sc.	.	.	.	.	.	.
. ENST0000.	12p.	. Score=0.9	rs3718339 ID.	.	.	.	.	.
. ENST0000.	12p.	. Score=0.9	rs3767721 ID.	.	.	.	.	.
. ENST0000.	12q.	.	rs5604999 ID.	.	.	.	.	.
. ENST0000.	14q.	. Score=0.9	rs7755744 ID.	.	.	.	.	.
. ENST0000.	14q.	. Score=0.9	rs1018908 ID.	.	.	.	.	.
. ENST0000.	15q.	. Score=0.9	.	.	.	.	.	.
AQR:N ENST0000.	15q.	.	rs7568595.	.	.	.	.	.
. ENST0000.	16p.	. Score=0.9	rs3739171.	.	.	.	.	.
. ENST0000.	16q.	. Score=0.9	rs7137409.	.	.	0.251	0.262	.
. ENST0000.	17p.	. Score=0.9	rs7124761.	.	.	.	.	.
. ENST0000.	17p.	. Score=0.9	rs6149181 ID.	.	.	.	.	.
. ENST0000.	17q.	. Score=0.9	rs2870408 ID.	.	.	.	.	.
. ENST0000.	17q.	. Score=0.9	rs2848380 ID.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.	.	.
. ENST0000.	18q.	.	.	.	.	.	.	.
. ENST0000.	19p.	.	Score.	.	.	.	.	.
. ENST0000.	21p.	. Score=0.9	.	.	.	.	.	.
. ENST0000.	22q.	. Score=0.9	ID.	.	.	.	.	.
. ENST0000.	22q.	. Score=0.9	rs3609392.	.	.	0.266	0.302	.
. ENST0000.	Xp1.	.	.	.	.	.	.	.
MXRA ENST0000.	1p3.	.	rs7558529.	.	.	.	.	.
. ENST0000.	1p3.	. Score=0.9	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	.	.	.	.	.

. ENST0000.	1p3.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	.	.	.	.	.	.	.	.
. ENST0000.	1p3.	Sc.	.	.	.	.	.	.	.
. ENST0000.	1p3.	Sc.	.	.	.	.	.	.	.
UNKNC ENST0000.	1p2.	.	.	.	.	.	.	.	.
LRR8 ENST0000.	1p2.	Sc	Score=0.9	.	.	.	.	.	.
. ENST0000.	1p1.	Sc.	.	rs1430207	.	.	.	0.002	0.001
. ENST0000.	1p1.	.	Score=0.9	Score.	.	.	.	.	.
. ENST0000.	1q2.	.	Score=0.9	rs1996428 ID.	.	.	.	.	.
. ENST0000.	1q2.	.	Score=0.9	Score.	ID.	.	.	.	.
. ENST0000.	1q2.	.	Score=0.9	rs3755029	.	.	.	.	.
. ENST0000.	1q2.	.	Score=0.9	rs2849511	.	.	.	.	.
. ENST0000.	1q2.	.	Score=0.9	rs7824596	.	.	.	.	.
. ENST0000.	1q2.	.	Score=0.9	rs3765099 ID.	.	.	.	.	.
TCHH: ENST0000.	1q2.	.	.	rs9099303 ID.	.	.	.	.	.
. ENST0000.	1q2.	.	.	.	.	.	.	.	.
. ENST0000.	1q2.	.	.	.	.	.	.	.	.
. ENST0000.	1q3.	.	.	.	.	.	.	.	.
. ENST0000.	1q3.	.	.	.	.	.	.	.	.
. ENST0000.	2q3.	.	.	.	.	.	.	.	.
. ENST0000.	2q3.	.	.	.	.	.	.	.	.
ITPR1: ENST0000.	3p2.	.	.	rs7793139 ID.	.	.	.	.	.
. ENST0000.	3p2.	.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	.	.	.	.	.	.	.
STAB1 ENST0000.	3p2.	Sc.	.	.	.	.	.	.	.
NELFA ENST0000.	4p1.	.	.	rs7785731	.	.	.	.	.
. ENST0000.	4q2.	.	.	rs7749410	.	.	.	.	.
. ENST0000.	5p1.	.	Score=0.9	rs2382048 ID.	.	.	.	.	.
DHFR: ENST0000.	5q1.	.	.	rs7817278	.	.	.	.	.
. ENST0000.	5q2.	.	.	.	.	.	.	.	.
ZNF47: ENST0000.	5q2.	.	.	rs1140023 ID.	.	.	.	0	.
. ENST0000.	5q3.	.	.	.	.	.	.	.	.
GABRE ENST0000.	5q3.	Sc.	.	.	.	.	.	.	.
. ENST0000.	6p2.	.	.	.	.	.	.	.	.
SLC44: ENST0000.	6p2.	.	.	.	.	.	.	.	.
. ENST0000.	6p1.	.	.	.	.	.	.	.	.
. ENST0000.	6q2.	.	Score=0.9	rs9907394	.	.	.	.	.
ARID1E ENST0000.	6q2.	.	.	ID.	.	.	.	.	.
MLLT4: ENST0000.	6q2.	.	.	.	.	.	.	.	.
. ENST0000.	6q2.	.	.	.	.	.	.	.	.
TTYH3 ENST0000.	7p2.	Sc.	.	.	.	.	.	.	.
. ENST0000.	7p2.	.	Score=0.9	.	.	.	.	.	.
ISPD: ENST0000.	7p2.	.	.	rs7468373	.	.	.	.	.
HECW ENST0000.	7p1.	.	.	.	.	.	.	.	.
. ENST0000.	7p1.	.	.	Score.	.	.	.	.	.
. ENST0000.	7q3.	.	.	rs5705914	.	.	.	0	.
GIMAP ENST0000.	7q3.	Sc.	.	rs1481871 ID.	.	.	.	.	.
. ENST0000.	8p2.	.	.	rs7588073	.	.	.	.	.
. ENST0000.	8p2.	.	.	rs7479925	.	.	.	.	.
. ENST0000.	8p1.	.	.	Score.	.	.	.	.	.
. ENST0000.	8q2.	.	.	Score rs5327262	.	.	.	.	.
. ENST0000.	8q2.	.	.	rs5696070	.	.	.	0	.
GNA14 ENST0000.	9q2.	.	.	rs3682437	.	.	.	0	.
OR13C ENST0000.	9q3.	.	.	rs3746457	.	.	.	0.003	0.003

. ENST0000.	9q3.	.	.	rs7528554.	.	.	.	.
PHPT1 ENST0000.	9q3.	.	.	rs5640471 ID.	.	.	.	.
. ENST0000.	9q3.	.	.	rs5505690.	.	.	.	0.
RBM20 ENST0000.	10q.	.	.	.	.	.	.	.
. ENST0000.	11p.	.	.	Score rs7615769 ID.	.	.	.	.
DCDC5 ENST0000.	11p.	.	.	.	.	.	.	.
DGKZ:1 ENST0000.	11p.	Sc.	.	rs7817387 ID.	.	.	.	.
.	11q.	.	.	.	.	.	.	.
C11orf1 ENST0000.	11q.	.	.	rs7525419.	.	.	.	.
. ENST0000.	11q.	.	.	.	.	.	.	.
. ENST0000.	11q.	.	.	.	.	.	.	.
RASAL ENST0000.	12q.	Sc.	.	.	.	.	.	.
WDR61 ENST0000.	12q.	.	.	rs1409770 ID.	.	.	.	0.
. ENST0000.	13q.	.	.	.	.	.	.	.
.	13q.	.	.	.	.	.	.	.
. ENST0000.	14q.	.	Score=0.9	Score.	ID.	.	.	.
. ENST0000.	14q.	.	.	.	.	.	.	.
. ENST0000.	14q.	.	.	.	.	.	.	.
. ENST0000.	14q.	.	.	.	.	.	.	.
. ENST0000.	14q.	.	.	.	.	.	.	.
ITFG3:1 ENST0000.	16p.	.	.	rs7663922.	.	.	.	.
. ENST0000.	16p.	.	.	rs5750779.	.	.	.	0.
. ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	.	.	.	.	.	.	.
. ENST0000.	16p.	.	Score=0.9	rs7569695.	.	.	.	.
. ENST0000.	16p.	.	Score=0.9	rs7520038.	.	.	.	.
. ENST0000.	17q.	.	.	Score.	.	.	.	.
CCL4:1 ENST0000.	17q.	Sc	Score=0.9	rs3713755.	.	.	.	0.
KRT24: ENST0000.	17q.	.	.	rs7744485.	.	.	.	.
ACSF2 ENST0000.	17q.	.	.	rs7460185 ID.	.	.	.	.
. ENST0000.	17q.	.	.	Score rs8668152.	.	.	.	.
. ENST0000.	17q.	.	Score=0.9	rs8665784 ID.	.	.	.	.
SEPT9 ENST0000.	17q.	.	.	.	.	.	.	.
CBX2:1 ENST0000.	17q.	.	.	rs1995663.	.	.	.	0.
. ENST0000.	17q.	.	.	.	.	.	.	.
.	19q.	.	Score=0.9	rs3865492 ID.	.	.	.	0.174 0.216
.	19q.	.	Score=0.9	.	.	.	.	.
GRIK5: ENST0000.	19q.	Sc.	.	rs7571526 ID.	.	.	.	.
APOC4 ENST0000.	19q.	.	.	rs7565559 ID.	.	.	.	.
SIRPB' ENST0000.	20p.	.	.	.	.	.	.	.
. ENST0000.	20q.	.	.	.	.	.	.	.
UNKN ENST0000.	20q.	.	.	rs3774092.	.	.	.	.
. ENST0000.	21q.	.	.	.	.	.	.	.
.	22q.	.	Score=0.9	rs6197100.	.	.	.	0.168 0.168
. ENST0000.	22q.	.	Score=0.9	.	.	.	.	.
. ENST0000.	22q.	.	Score=0.9	rs5662423 ID.	.	.	.	.
. ENST0000.	22q.	.	.	.	.	.	.	.
. ENST0000.	22q.	.	.	rs1007675.	.	.	.	.
. ENST0000.	Xp1.	.	.	Score.	.	.	.	.
. ENST0000.	Xp1.	.	.	.	.	.	.	.
CLCN5 ENST0000.	Xp1.	.	.	rs7970448.	Patho.	.	.	.
ITIH6:1 ENST0000.	Xp1.	.	.	.	.	.	.	.
. ENST0000.	Xq2.	.	Score=0.9	.	.	.	.	.
. ENST0000.	1p3.	.	Score=0.9	Score rs4634900 ID.	.	.	.	.

.	ENST0000.	1p3.	.	.	.	.	.	.	.
.	.	1q2.	.	Score=0.9	Score rs7450506 ID:	.	.	.	.
.	.	1q2.	.	Score=0.9	rs2016919.	.	.	.	.
.	.	1q2.	.	Score=0.9	.	.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs8662584 ID:	.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs4143495 ID:	.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs6181077 ID:	.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.	.	.
.	ENST0000.	1q3.	.	.	rs2003501.	.	.	0	0.001
.	ENST0000.	2p1.	.	.	.	.	.	.	.
.	ENST0000.	2p1.	Sc.	.	rs1834895.	Uncer.	.	0	.
DYSF:↑	ENST0000.	2p1.	.	.	rs2009908 ID:	Uncer.	.	.	.
WBP1:↓	ENST0000.	2p1.	.	.	.	.	.	.	.
.	ENST0000.	2q1.	.	Score=0.9	rs9528 ID:	.	.	.	.
.	ENST0000.	2q2.	Sc.	.	.	.	.	.	.
GPC1:↑	ENST0000.	2q3.	.	.	rs3739748.	.	.	.	.
.	ENST0000.	3p2.	.	.	rs5683253.	.	.	.	.
.	ENST0000.	3p2.	.	.	rs1474450.	.	.	0	.
ABHD1	ENST0000.	3p2.	Sc.	.	rs2004359.	.	.	.	.
ARHG/	ENST0000.	3q1.	.	.	.	.	.	.	.
.	ENST0000.	4p1.	.	.	.	.	.	.	.
.	ENST0000.	4p1.	.	.	.	.	.	.	.
SH3TC	ENST0000.	4p1.	Sc.	.	.	.	.	.	.
.	ENST0000.	4p1.	Sc.	.	.	.	.	.	.
.	.	4p1.	.	Score=0.9	rs2932367 ID:	.	.	.	.
.	ENST0000.	4p1.	.	Score=0.9	ID:	.	.	.	.
.	ENST0000.	4q1.	.	.	.	.	.	.	.
GK2:NI	ENST0000.	4q2.	.	.	rs7669673 ID:	.	.	.	.
.	ENST0000.	5q1.	.	.	.	.	.	.	.
.	.	5q1.	Sc.	.	.	.	.	.	.
SLCO4	ENST0000.	5q2.	Sc.	.	.	.	.	.	.
.	ENST0000.	5q3.	Sc.	.	ID:	.	.	.	.
.	ENST0000.	5q3.	.	.	rs5319092.	.	.	0	.
.	ENST0000.	6p2.	.	.	Score rs5661365.	.	.	0	.
.	ENST0000.	6p2.	.	Score=0.8	.	.	.	.	.
TNXB:↑	ENST0000.	6p2.	Sc.	.	.	.	.	.	.
INTS1:↓	ENST0000.	7p2.	.	.	rs1814105.	.	.	0	.
.	.	7p1.	.	Score=0.9	rs7827655.	.	.	.	.
.	ENST0000.	7q2.	.	.	rs1484992.	.	.	0.003	0.002
.	ENST0000.	7q2.	.	.	rs5523938.	.	.	0.005	0.004
DGKI:↓	ENST0000.	7q3.	Sc.	.	ID:	.	.	.	.
.	ENST0000.	7q3.	.	.	rs3737114.	.	.	.	.
OR2A2	ENST0000.	7q3.	Sc.	.	.	.	.	.	.
.	ENST0000.	8q1.	.	Score=0.9	rs9982298.	.	.	.	.
OTUD6	ENST0000.	8q2.	.	.	.	.	.	.	.
GLIS3:↓	ENST0000.	9p2.	.	.	.	.	.	.	.
.	ENST0000.	9p2.	.	.	.	.	.	.	.
.	ENST0000.	9q1.	.	Score=0.9	rs9330412 ID:	.	.	.	.
.	ENST0000.	9q2.	.	.	.	.	.	.	.
.	.	9q3.	.	Score=0.9	.	.	.	.	.
GPSM1	ENST0000.	9q3.	Sc.	.	rs9459874.	.	.	.	.
.	ENST0000.	9q3.	.	.	rs9494422.	.	.	.	.
GPR15	ENST0000.	10p.	Sc.	.	.	.	.	.	.
ZNF33/	ENST0000.	10p.	.	Score=0.9	.	.	.	.	.

.	.	10q.	Score=0.9	rs2996811	.	.	.
.	ENST0000.	10q.	Score=0.9	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.
.	ENST0000.	10q.	.	rs7792060	.	.	.
.	ENST0000.	11p.	.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.
HYOU1	ENST0000.	11q.	Sc.	.	.	.	.
.	ENST0000.	11q.	.	.	.	.	.
.	ENST0000.	12p.	.	.	.	.	.
ETV6:1	ENST0000.	12p.	.	ID:	.	.	.
KRAS:1	ENST0000.	12p.	Sc.	rs1219135	ID: Patho.	.	.
KIF5A:1	ENST0000.	12q.	.	rs3522560	Benig.	0	.
.	ENST0000.	12q.	.	.	.	.	.
.	ENST0000.	12q.	.	rs5396169	.	0	.
.	.	13q.	Score=0.9	.	.	.	.
.	ENST0000.	14q.	Score.	.	.	.	.
.	ENST0000.	14q.	.	rs8791962	.	.	.
.	ENST0000.	15q.	Score=0.9	.	.	.	.
NDN:1	ENST0000.	15q.	Sc Score=0.8	.	.	.	.
GABRA	ENST0000.	15q.	.	ID:	.	.	.
.	ENST0000.	15q.	Score=0.9	rs7831577	.	0.095	0.082
.	.	15q.	Score=0.9	rs2010114	ID:	.	.
.	ENST0000.	16p.	.	.	.	.	.
.	ENST0000.	16p.	Score=0.9	.	.	.	.
.	ENST0000.	16q.	.	.	.	.	.
.	ENST0000.	16q.	Score=0.9	rs2001829	ID:	.	.
.	ENST0000.	16q.	.	.	.	.	.
RFFL:1	ENST0000.	17q.	.	.	.	.	.
.	ENST0000.	17q.	Score=0.9	.	.	.	.
.	ENST0000.	17q.	.	.	.	.	.
.	ENST0000.	17q.	.	.	.	.	.
.	ENST0000.	18q.	Score=0.9	Score.	.	.	.
.	ENST0000.	19p.	.	Score rs8673654	ID:	.	.
UNKN	ENST0000.	19p.	.	.	.	.	.
DOCK	ENST0000.	19p.	Sc.	rs7680686	.	.	.
LRFN3	ENST0000.	19q.	.	.	.	.	.
.	ENST0000.	19q.	Score=0.9	.	.	.	.
ZNF22	ENST0000.	19q.	.	.	.	.	.
.	ENST0000.	19q.	.	.	.	.	.
.	ENST0000.	19q.	Score.	.	.	.	.
ZNF81	ENST0000.	19q.	Score=0.9	rs7705940	.	.	.
STK35:	ENST0000.	20p.	Sc.	.	.	.	.
.	ENST0000.	20p.	.	rs2002254	.	0	.
FAM83	ENST0000.	20q.	.	.	.	.	.
.	.	20q.	Score.	.	.	.	.
NCAM2	ENST0000.	21q.	Sc.	.	.	.	.
SYN3:1	ENST0000.	22q.	.	.	.	.	.
.	ENST0000.	Xp1.	Score=0.9	.	.	.	.
ARMC	ENST0000.	Xq2.	.	.	.	.	.
TEX13:	ENST0000.	Xq2.	.	ID:	.	.	.
NRK:1	ENST0000.	Xq2.	.	rs7533837	.	0.002	0.001
.	ENST0000.	Xq2.	.	.	.	.	.
.	ENST0000.	Xq2.	.	rs7767123	.	.	.
.	ENST0000.	Xq2.	.	.	.	.	.



G6PD:1	ENST0000.	Xq2.	.	.	rs3981235.	Patho.	0.002	0.001
.	.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	Score=0.9	rs1015792 ID:	.	.	.
TAS1R	ENST0000.	1p3.	.	.	.	.	.	.
RAP1G	ENST0000.	1p3.	.	.	rs1453424.	.	.	.
BTBD8	ENST0000.	1p2.	Sc.	.	.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs7704066.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs1415172 ID:	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs1256214 ID:	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs3721624.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs5876752 ID:	.	0.269	0.314
.	ENST0000.	1q2.	.	Score=0.9	.	.	.	.
CA14:1	ENST0000.	1q2.	Sc.	.	rs3730063.	.	.	.
.	ENST0000.	1q2.	.	.	.	.	.	.
KCNH1	ENST0000.	1q3.	.	.	.	.	.	.
KCNK1	ENST0000.	2p2.	Sc.	.	.	.	.	.
.	.	2p1.	.	Score=0.9	rs7540104.	.	.	.
.	ENST0000.	2q2.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	.	.	.	.	.
.	ENST0000.	2q3.	Sc.	.	rs9825331.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	Score rs1309395.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	rs3710999.	.	.	.
.	ENST0000.	3p2.	.	.	Score.	.	.	.
QRICH	ENST0000.	3p2.	.	.	.	.	.	.
BSN:NI	ENST0000.	3p2.	Sc.	.	.	.	.	.
BSN:NI	ENST0000.	3p2.	Sc.	.	.	.	.	.
.	ENST0000.	3p2.	.	.	.	.	.	.
.	ENST0000.	3q1.	.	.	.	.	.	.
.	ENST0000.	3q2.	.	.	rs5729372.	.	0.	.
.	ENST0000.	4p1.	.	.	rs4970287 ID:	.	.	.
.	.	4q1.	.	.	Score rs1456513.	.	0.002	0.001
AFF1:1	ENST0000.	4q2.	.	.	.	.	.	.
.	ENST0000.	4q2.	.	.	.	.	.	.
FAT4:1	ENST0000.	4q2.	.	.	rs3727861 ID:	.	.	.
GALNT	ENST0000.	4q3.	Sc.	.	.	.	.	.
.	ENST0000.	4q3.	.	.	Score.	.	.	.
.	ENST0000.	5q3.	.	.	.	.	.	.
.	ENST0000.	5q3.	.	.	.	.	.	.
.	ENST0000.	6p2.	.	.	.	.	.	.
.	ENST0000.	6p2.	.	.	.	.	.	.
.	ENST0000.	6q1.	.	.	rs9010911.	.	.	.
.	ENST0000.	6q2.	.	.	.	.	.	.
.	ENST0000.	7p2.	.	Score=0.9	rs1544467 ID:	.	.	.
.	ENST0000.	7p2.	.	.	.	.	.	.
.	ENST0000.	7p1.	.	.	.	.	.	.
.	ENST0000.	7p1.	.	.	.	.	.	.
TBRG4	ENST0000.	7p1.	.	.	.	.	.	.
.	.	7p1.	.	Score=0.9	rs1929995.	.	0.002	0.001
.	ENST0000.	7q1.	.	Score=0.9	.	.	.	.
HIP1:1	ENST0000.	7q1.	Sc.	.	.	.	.	.





TRAPP ENST0000.	2p2.	.	.	.	.	.	.	.	.
TRAPP ENST0000.	2p2.	.	.	.	.	.	.	.	.
NBAS: ENST0000.	2p2.	.	.	.	.	.	.	.	.
NLRC4 ENST0000.	2p2.	.	.	.	.	.	.	.	.
. ENST0000.	2p1.	.	.	.	.	.	.	.	.
. .	2q1.	.	.	Score rs2015850 ID:	.	.	.	.	.
ZAP70: ENST0000.	2q1.	Sc.	.	.	.	.	.	.	.
. ENST0000.	2q1.	Score=0.9	.	rs2008974.	.	.	.	.	.
. ENST0000.	2q1.	.	.	rs7249504 ID:	.	.	0.042	0.042	.
. ENST0000.	2q1.	.	.	.	.	.	.	.	.
TTN:N ENST0000.	2q3.	.	.	ID:	.	.	.	.	.
. ENST0000.	2q3.	.	.	.	.	.	.	.	.
. ENST0000.	2q3.	.	.	rs5520376)	.	.	.	.	.
. ENST0000.	2q3.	.	.	.	.	.	.	.	.
. ENST0000.	2q3.	.	.	Score rs1816528)	.	.	0.002	0.001	.
PRSS5 ENST0000.	2q3.	Sc.	.	.	.	.	.	.	.
. ENST0000.	3p2.	.	.	Score.	.	.	.	.	.
. ENST0000.	3p2.	.	.	rs9185110.	.	.	.	.	.
. ENST0000.	3p2.	.	.	rs3735896.	.	.	.	.	.
. ENST0000.	3q1.	.	.	.	.	.	.	.	.
DCBLD ENST0000.	3q1.	.	.	.	.	.	.	.	.
. ENST0000.	3q1.	.	.	.	.	.	.	.	.
. ENST0000.	3q1.	.	.	.	.	.	.	.	.
COL6A ENST0000.	3q2.	.	.	rs1456223 ID:	.	.	0.	.	.
PIK3C/ ENST0000.	3q2.	Score=0.9	.	rs1048860 ID: Patho.	.	.	.	.	.
. ENST0000.	4p1.	.	.	.	.	.	.	.	.
. ENST0000.	4p1.	Score=0.9	.	rs4018318.	.	.	.	.	.
. ENST0000.	4p1.	.	.	.	.	.	.	.	.
. ENST0000.	4p1.	.	.	.	.	.	.	.	.
. ENST0000.	4q1.	.	.	.	.	.	.	.	.
. ENST0000.	4q3.	.	.	.	.	.	.	.	.
. .	4q3.	Score=0.9	Score.	.	.	.	.	.	.
. ENST0000.	5p1.	Score=0.9	.	.	.	.	.	.	.
. ENST0000.	5q1.	.	.	.	.	.	.	.	.
. ENST0000.	5q2.	.	.	.	.	.	.	.	.
. ENST0000.	5q3.	.	.	.	.	.	.	.	.
PCDHC ENST0000.	5q3.	.	.	rs7735798 ID:	.	.	.	.	.
FGF18: ENST0000.	5q3.	.	.	ID:	.	.	.	.	.
TBC1D ENST0000.	5q3.	.	.	.	.	.	.	.	.
BTNL9: ENST0000.	5q3.	.	.	rs3761176 ID:	.	.	.	.	.
. ENST0000.	6p2.	Sc.	.	.	.	.	.	.	.
DHX16 ENST0000.	6p2.	Sc.	.	rs1419237 ID:	.	.	.	.	.
. ENST0000.	6q2.	.	.	rs3687466.	.	.	.	.	.
RAET1 ENST0000.	6q2.	Score=0.9	.	.	.	.	.	.	.
OPRM' ENST0000.	6q2.	.	.	.	.	.	.	.	.
TIAM2: ENST0000.	6q2.	.	.	rs2014763.	.	.	.	.	.
. .	6q2.	Score=0.9	.	rs3759780.	.	.	.	.	.
. ENST0000.	7p1.	.	.	rs7676901.	.	.	.	.	.
DDX56 ENST0000.	7p1.	.	.	.	.	.	.	.	.
. ENST0000.	7p1.	Score=0.9	.	rs6246184 ID:	.	.	.	.	.
. ENST0000.	7p1.	Score=0.9	.	rs2013722 ID:	.	.	.	.	.
. ENST0000.	7q1.	Score=0.9	.	.	.	.	.	.	.
. .	7q1.	Score=0.9	.	.	.	.	.	.	.
MUC12 ENST0000.	7q2.	Score=0.9	.	rs7611895.	.	.	.	.	.



. ENST0000.	16p.	.	.	.	.	.	.	.	.
SPN:NIENST0000.	16p.	.	.	.	.	.	.	.	.
ITGAX:ENST0000.	16p.	.	Score=0.9	.	rs1450253 ID:	.	.	.	.
SLC12:ENST0000.	16q.	.	.	.	.	.	.	.	.
. ENST0000.	16q.	.	.	.	rs1135006 ID:	.	.	.	.
SGSM2:ENST0000.	17p.	Sc.	.	.	rs7673846	.	.	.	.
GLP2R:ENST0000.	17p.	Sc.	.	.	rs7606360	.	.	.	.
. ENST0000.	17p.	.	.	.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	rs5549220	.	.	0	.
. ENST0000.	17q.	.	.	.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	.	.	.	.	.
. ENST0000.	17q.	.	.	.	rs7400170	.	.	0	.
. ENST0000.	18p.	.	Score=0.9	.	rs7837587 ID:	.	.	.	.
. ENST0000.	18q.	.	.	.	.	.	.	.	.
. ENST0000.	18q.	.	.	.	.	.	.	.	.
. ENST0000.	18q.	.	Score=0.9	.	rs1466769	.	.	0.013	0.011
. ENST0000.	18q.	.	.	.	rs5634889	.	.	0	.
ABCA7:ENST0000.	19p.	.	.	.	.	.	.	.	.
ACTL9:ENST0000.	19p.	.	.	.	.	.	.	.	.
. ENST0000.	19p.	.	Score.	.	.	.	.	.	.
. ENST0000.	19p.	.	.	.	.	.	.	.	.
. ENST0000.	19p.	.	.	.	.	.	.	.	.
. ENST0000.	19p.	.	Score=0.9	.	.	.	.	.	.
. ENST0000.	19q.	.	Score.	.	.	.	.	.	.
. ENST0000.	19q.	.	Score=0.9	Score	rs7125437	.	.	.	.
. ENST0000.	19q.	.	.	.	rs1820521	.	.	0	.
OXT:NIENST0000.	20p.	.	.	.	.	.	.	.	.
GFRA4:ENST0000.	20p.	Sc.	.	.	.	.	.	.	.
. ENST0000.	20p.	.	.	.	.	.	.	.	.
GATA5:ENST0000.	20q.	.	.	.	.	.	.	.	.
. ENST0000.	21p.	.	Score=0.9	.	rs7964453	.	.	.	.
. ENST0000.	21p.	.	Score=0.9	.	rs3735529 ID:	.	.	0.061	0.062
. ENST0000.	21p.	.	Score=0.9	Score	rs7280383 ID:	.	.	.	.
. ENST0000.	21q.	.	Score.	.	.	.	.	.	.
CLIC6:ENST0000.	21q.	.	.	.	rs7738143	.	.	.	.
TRAPP:ENST0000.	21q.	Sc.	.	.	rs5510648	.	.	0	.
PCBP3:ENST0000.	21q.	Sc.	.	.	.	.	.	.	.
COL6A:ENST0000.	21q.	Sc.	.	.	.	.	.	.	.
. ENST0000.	22q.	.	Score=0.9	.	rs1262847	.	.	.	.
. ENST0000.	22q.	.	Score=0.9	.	rs86008 ID:	.	.	.	.
RNF21:ENST0000.	22q.	.	.	.	.	.	.	.	.
. ENST0000.	Xp2.	.	.	.	.	.	.	.	.
BEND2:ENST0000.	Xp2.	.	.	.	rs7787173	.	.	.	.
. ENST0000.	Xp1.	.	.	.	.	.	.	.	.
. ENST0000.	Xq1.	.	.	.	.	.	.	.	.
. ENST0000.	Xq1.	.	Score.	.	.	.	.	.	.
OGT:N:ENST0000.	Xq1.	Sc.	.	.	ID:	.	.	.	.
. ENST0000.	Xq2.	.	Score=0.9	.	.	.	.	.	.
. ENST0000.	Xq2.	.	Score=0.9	.	.	.	.	.	.
. ENST0000.	Xq2.	.	.	.	rs9176062	.	.	.	.
. ENST0000.	Xq2.	.	Score	rs9279180	.	.	.	.	.
IRAK1:ENST0000.	Xq2.	.	.	.	.	.	.	.	.
ACTL8:ENST0000.	1p3.	.	.	.	rs3718451 ID:	.	.	.	.

WDTC	ENST0000.	1p3.	Sc.	.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	rs7678484.	.	.	.	.	.	.
GJA4:N	ENST0000.	1p3.	.	.	rs7603609 ID:	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.	.	.
TESK2	ENST0000.	1p3.	Sc.	.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.	.	.
.	ENST0000.	1p3.	.	.	.	.	.	.	.	.	.
AMPD2	ENST0000.	1p1.	.	.	.	.	.	.	.	.	.
.	ENST0000.	1p1.	.	.	Score rs7547967 ID:	.	.	.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	Score rs7528408.	.	.	.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	Score rs2009307 ID:	.	.	.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	rs3726923 ID:	.	.	.	.	.	.
.	ENST0000.	1q2.	.	Score=0.9	Score rs8799825.	.	.	.	.	.	.
.	ENST0000.	1q3.	.	.	.	.	.	.	.	.	.
.	ENST0000.	1q4.	.	.	rs7756172.	.	.	.	.	.	.
TPO:NI	ENST0000.	2p2.	.	.	rs7587514.	.	.	.	.	.	.
.	ENST0000.	2q3.	Sc.	.	.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	.	.	.	.	.	.	.	.
.	ENST0000.	2q3.	.	.	rs1411611.	.	.	.	.	.	.
CELSR	ENST0000.	3p2.	.	.	rs1156481 ID:	.	.	.	.	0.	.
.	ENST0000.	3q1.	.	Score=0.9	.	.	.	.	.	.	.
.	ENST0000.	3q2.	.	.	.	.	.	.	.	.	.
ABCC5	ENST0000.	3q2.	.	.	.	.	.	.	.	.	.
PDE6B	ENST0000.	4p1.	Sc.	.	.	.	.	.	.	.	.
GAK:NI	ENST0000.	4p1.	.	.	.	.	.	.	.	.	.
.	ENST0000.	4p1.	.	.	rs7307061.	.	.	.	.	0.	.
.	.	4p1.	.	Score=0.9	rs8796734.	.	.	.	.	.	.
.	ENST0000.	4q2.	.	.	Score rs7690288.	.	.	.	.	.	.
.	ENST0000.	4q3.	.	.	.	.	.	.	.	.	.
.	.	4q3.	.	.	Score rs1003755.	.	.	.	.	.	.
.	ENST0000.	5p1.	.	.	.	.	.	.	.	.	.
RASGF	ENST0000.	5q1.	Sc.	.	.	.	.	.	.	.	.
APC:NI	ENST0000.	5q2.	.	.	.	.	.	.	.	.	.
.	ENST0000.	5q3.	.	.	.	.	.	.	.	.	.
.	ENST0000.	5q3.	.	.	.	.	.	.	.	.	.
WWC1	ENST0000.	5q3.	Sc.	.	.	.	.	.	.	.	.
ZSCAN	ENST0000.	6p2.	.	.	.	.	.	.	.	.	.
POU5F	ENST0000.	6p2.	.	.	rs7589117.	.	.	.	.	.	.
.	ENST0000.	6p1.	.	.	.	.	.	.	.	.	.
TBX18:	ENST0000.	6q1.	Sc.	.	.	ID:	.	.	.	.	.
.	.	6q2.	.	.	rs441907 ID:	.	.	.	.	.	.
.	ENST0000.	7q2.	.	.	.	.	.	.	.	.	.
.	ENST0000.	7q2.	.	.	.	.	.	.	.	.	.
C7orf6(	ENST0000.	7q3.	.	.	.	ID:	.	.	.	.	.
ZNF70!	ENST0000.	8p2.	.	Score=0.9	.	.	.	.	.	.	.
CSMD3	ENST0000.	8q2.	Sc.	.	.	.	.	.	.	.	.
.	ENST0000.	8q2.	.	.	Score.	.	.	.	.	.	.
NFIB:N	ENST0000.	9p2.	Sc.	.	.	.	.	.	.	.	.
FKTN:!	ENST0000.	9q3.	.	.	.	.	.	.	.	.	.
OR1L6	ENST0000.	9q3.	.	.	.	.	.	.	.	.	.
.	ENST0000.	10p.	.	Score=0.9	.	.	.	.	.	.	.
.	.	10q.	.	Score=0.9	rs3125109 ID:	.	.	.	.	.	.
.	ENST0000.	10q.	.	.	.	.	.	.	.	.	.
.	ENST0000.	10q.	.	.	Score rs7905448 ID:	.	.	.	.	0.347	0.355

. ENST0000.	10q.	.	.	.	.	.	.	.	.
MXI1:N ENST0000.	10q.	.	.	rs7646688 ID:	.	.	.	.	.
. ENST0000.	10q.	.	.	.	.	.	.	.	.
DNHD1 ENST0000.	11p.	.	.	.	.	.	.	.	.
. ENST0000.	11p.	.	Score=0.9	.	.	.	.	.	.
UNKNC ENST0000.	11q.	.	.	rs3775202.	.	.	.	.	.
TRIM6 ENST0000.	11q.	.	Score=0.9	.	.	.	.	.	.
. ENST0000.	11q.	.	.	Score rs7690752.	.	.	.	.	.
SIDT2: ENST0000.	11q.	Sc.	.	rs7585846 ID:	.	.	.	.	.
ITPR2: ENST0000.	12p.	.	.	.	.	.	.	.	.
DDN:N ENST0000.	12q.	.	.	.	.	.	.	.	.
. ENST0000.	12q.	.	.	.	.	.	.	.	.
CDX2: ENST0000.	13q.	.	.	.	.	.	.	.	.
. ENST0000.	14q.	.	Score=0.9	rs2259899 ID:	.	.	.	.	.
. ENST0000.	14q.	.	Score=0.9	rs2014187.	.	.	.	.	.
ZFP36L ENST0000.	14q.	Sc.	.	.	.	.	.	.	.
UNC13 ENST0000.	15q.	.	.	.	.	.	.	.	.
CACNA ENST0000.	16p.	.	.	rs7764738.	.	.	.	.	.
. ENST0000.	16p.	.	.	.	.	.	.	.	.
. ENST0000.	16q.	.	Score=0.9	rs2013540 ID:	.	0.324	0.285	.	.
. ENST0000.	18p.	.	Score=0.9	rs7502623 ID:	.	0.623	0.62	.	.
. ENST0000.	19p.	.	.	rs7589667 ID:	.	.	.	.	.
COL5A ENST0000.	19p.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	Score.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.
. ENST0000.	19q.	.	.	.	.	.	.	.	.
SBK3: ENST0000.	19q.	Sc.	.	rs9019919.	.	.	.	.	.
ANKEF ENST0000.	20p.	.	.	.	.	.	.	.	.
ANKEF ENST0000.	20p.	.	.	rs7770803.	.	.	.	.	.
AAR2: ENST0000.	20q.	.	.	rs7792821.	.	.	.	.	.
DONSC ENST0000.	21q.	.	.	.	.	.	.	.	.
TBC1D ENST0000.	22q.	Sc.	.	.	.	.	.	.	.
. ENST0000.	Xp2.	.	Score.	.	.	.	.	.	.
. ENST0000.	Xp2.	.	Score=0.9	.	.	.	.	.	.
ARAF: ENST0000.	Xp1.	Sc.	.	.	.	.	.	.	.
. ENST0000.	Xp1.	.	.	.	.	.	.	.	.
. ENST0000.	Xq2.	.	.	.	.	.	.	.	.
. ENST0000.	Xq2.	.	.	.	.	.	.	.	.
. ENST0000.	Xq2.	.	.	.	.	.	.	.	.
ZIC3:N ENST0000.	Xq2.	.	.	.	ID:	.	.	.	.
. ENST0000.	Xq2.	.	.	.	.	.	.	.	.
. ENST0000.	Xq2.	.	Score=0.9	rs4013617.	.	.	.	.	.
. ENST0000.	Xq2.	.	.	.	ID:	.	.	.	.



1000g2	esp	Ex/	Ex/	SIF	Polyp	Polyp	Mutε	gerp	CAC	Nov	Nov	INF	(FOR	ACa	ACa	01T	Ori_REF	Ori_ALT
										0	0.2	SOM	GT:/0:8,(0/1:11,3:3	T			C	
												SOM	GT:/0:11 0/1:7,4:37	A			G	
												SOM	GT:/0:50 0/1:83,12:3	C			T	
												SOM	GT:/0:13 0/1:19,3:37	C			T	
		##	0	0.9	0.001	0.001	1.00					SOM	GT:/0:71 0/1:135,26	G			A	
												SOM	GT:/0:21 0/1:35,13:3	C			T	
										0		SOM	GT:/0:8,(0/1:3,2:37	A			G	
										0		SOM	GT:/0:14 0/1:13,3:28	G			T	
										0	0	SOM	GT:/0:30 0/1:69,5:31	C			G	
										0	0	SOM	GT:/0:17 0/1:26,4:37	T			C	
										0		SOM	GT:/0:25 0/1:37,3:37	G			A	
												SOM	GT:/0:11 0/1:20,6:20	A			C	
		0	##	0				3.3	4.54			SOM	GT:/0:19 0/1:54,14:3	G			A	
												SOM	GT:/0:49 0/1:83,13:3	G			A	
												SOM	GT:/0:14 0/1:26,14:3	A			C	
												SOM	GT:/0:13 0/1:20,7:37	G			A	
												SOM	GT:/0:10 0/1:21,3:37	A			T	
												DB;GT:/0:23 0/1:27,3:37	G			A		
										0	0	SOM	GT:/0:18 0/1:24,3:37	A			C	
										0		SOM	GT:/0:9,(0/1:16,4:37	T			C	
										0	0.1	SOM	GT:/0:17 0/1:18,4:37	G			A	
										0	0.3	SOM	GT:/0:12 0/1:14,3:37	C			G	
										0		SOM	GT:/0:42 0/1:52,4:34	A			T	
										0	0.1	SOM	GT:/0:30 0/1:46,6:37	C			G	
												SOM	GT:/0:43 0/1:74,6:37	G			A	
0.005										0	0	SOM	GT:/0:8,(0/1:10,4:37	C			T	
								4.8	4.02			SOM	GT:/0:11 0/1:244,50	T			C	
										0.1	0.5	SOM	GT:/0:8,(0/1:4,2:37	T			C	
										0		SOM	GT:/0:15 0/1:37,5:34	A			G	
												SOM	GT:/0:13 0/1:166,6:3	G			T	
										0		SOM	GT:/0:37 0/1:64,4:37	G			A	
												SOM	GT:/0:36 0/1:48,31:3	C			T	
												SOM	GT:/0:57 0/1:65,5:31	C			G	
										0	0.4	SOM	GT:/0:14 0/1:17,9:37	G			A	
0.014										0		DB;GT:/0:40 0/1:89,4:37	A			C		
		##	0									SOM	GT:/0:12 0/1:160,70	C			T	
0.759										0.2	0.7	SOM	GT:/0:9,(0/1:18,4:37	C			T	
		0	0	0	0.2	0.006	0.001	1,N		0	0	SOM	GT:/0:21 0/1:33,3:37	T			G	
		##			0.1	0.002	0.003	1,D	3.5	3.54		SOM	GT:/0:15 0/1:190,11	G			A	
												SOM	GT:/0:24 0/1:45,21:3	G			T	
									1.82	0		SOM	GT:/0:17 0/1:31,9:15	A			C	
												SOM	GT:/0:49 0/1:64,22:3	A			C	
		0	0							0	0.1	SOM	GT:/0:54 0/1:111,5:3	A			G	
										0.2	0.1	DB;GT:/0:64 0/1:130,6:3	A			G		
										0.1	0.1	DB;GT:/0:28 0/1:62,7:37	G			T		
0.066										0	0	DB;GT:/0:24 0/1:21,7:37	C			A		
										0		SOM	GT:/0:14 0/1:9,3:37	G			A	
												SOM	GT:/0:8,(0/1:6,2:37	C			T	
					0.1	0.168	0.087	1,D	3.4	2.35		SOM	GT:/0:10 0/1:149,65	A			G	
										0.1	0.2	SOM	GT:/0:66 0/1:95,5:37	T			G	

						0	0	SOM GT:/0:8,(0/1:11,4:27	A	G			
0.739	1	1				0	0	SOM GT:/0:25 0/1:19,6:37	T	C			
			0.0	0.965	0.998	1,N		SOM GT:/0:12 0/1:186,34	C	A			
								SOM GT:/0:19 0/1:37,3:37	C	T			
			0.0	0.232	0.347	1.00	5.5	2.28		T			
								SOM GT:/0:57 0/1:104,17	A	T			
								SOM GT:/0:20 0/1:35,7:18	T	G			
			0.0	0.006	0.006	0.81	4.4	2.83		T			
			0.8	0.004	0.0	B	0.98	2.4		G			
		##	0					SOM GT:/0:38 0/1:50,25:3	T	G			
								SOM GT:/0:54 0/1:93,4:37	C	T			
								SOM GT:/0:44 0/1:78,38:3	C	T			
							0		SOM GT:/0:32 0/1:67,4:37	A	C		
							0		SOM GT:/0:29 0/1:53,15:1	T	G		
							3.4			G	G		
			0.3	0.12	0.167	1.00	5.7	2.23		G	G		
									SOM GT:/0:22 0/1:31,29:3	C	G		
									SOM GT:/0:10 0/1:226,71	G	A		
	0	0	0	0.0	0.997	1.0,D	1.00	4.9	5.22		T		
2E-04	0	0	0	0.0	0.399	0.932	1,N				T		
								1.45			G		
									SOM GT:/0:44 0/1:68,12:3	G	A		
4E-04	0							0	0	DB;S	T		
									GT:/0:62 0/1:139,10	G	T		
									SOM GT:/0:12 0/1:19,4:37	C	G		
		##	0						SOM GT:/0:39 0/1:54,6:32	C	T		
			1.0	0.129	0.478	1.00	5.9				A		
									SOM GT:/0:27 0/1:45,20:3	G	A		
									SOM GT:/0:15 0/1:28,3:37	C	T		
								0	0.2	SOM GT:/0:16 0/1:10,6:37	T	C	
								0	0	SOM GT:/0:16 0/1:29,5:37	C	T	
								0.2	0.2	DB;S	T	T	
									GT:/0:24 0/1:38,4:37	C	T		
								0		SOM GT:/0:22 0/1:27,6:17	T	G	
								0	0	SOM GT:/0:9,(0/1:2,3:28:	C	T	
								0		SOM GT:/0:10 0/1:15,4:37	G	A	
			0.1			0.94				SOM GT:/0:36 0/1:63,20:3	C	T	
	0	##	0					0		SOM GT:/0:19 0/1:27,13:3	C	T	
										SOM GT:/0:44 0/1:57,7:37	C	T	
								0	0	DB;S	T	C	
									GT:/0:51 0/1:170,7:3	T	C		
									SOM GT:/0:40 0/1:119,6:3	G	A		
									SOM GT:/0:21 0/1:55,11:3	C	A		
								0	0	SOM GT:/0:36 0/1:120,8:3	A	G	
								2.36			G	G	
								0.1	0.2	SOM GT:/0:11 0/1:34,5:21	T	G	
										SOM GT:/0:16 0/1:37,5:37	T	C	
										SOM GT:/0:67 0/1:88,4:37	C	G	
										SOM GT:/0:26 0/1:54,25:3	A	G	
		##	0							SOM GT:/0:48 0/1:109,20	C	T	
								1.72			T	T	
		##	0	0.0	0.998	1.0,D	1,D	5.7	3.22		T	T	
								1.61	0.1	0	SOM GT:/0:9,(0/1:12,6:37	A	C
										0	DB;S	T	C
2E-04										GT:/0:22 0/1:35,5:31	G	C	
			0.4	0.001	0.0	B	0.99			SOM GT:/0:37 0/1:43,15:3	G	A	
										SOM GT:/0:51 0/1:40,36:3	T	G	
										SOM GT:/0:15 0/1:19,5:37	T	C	
			0.0	0.991	0.998	1,D	5.2	4.56		SOM GT:/0:30 0/1:66,5:37	A	G	
										SOM GT:/0:8,(0/1:13,8:37	C	T	
										SOM GT:/0:87 0/1:114,54	T	A	
								0	0	SOM GT:/0:10 0/1:17,6:37	T	C	
			0.1	0.01	0.063	1,N				SOM GT:/0:22 0/1:38,11:3	C	T	
		##	0							SOM GT:/0:81 0/1:132,7:3	G	A	

										SOM GT:/0:65 0/1:78,45:3 G	A	
0.038	0	0	0							DB;:GT:/0:43 0/1:63,8:37 C	T	
									0	0	SOM GT:/0:23 0/1:42,4:37 C	T
											SOM GT:/0:11 0/1:24,9:13 G	T
4E-04											DB;:GT:/0:19 0/1:40,3:37 G	C
											SOM GT:/0:38 0/1:60,27:3 G	A
											SOM GT:/0:23 0/1:176,6:3 C	T
0.125									0	0	SOM GT:/0:8,(0/1:22,3:37 C	T
0.016									0	0	SOM GT:/0:10 0/1:20,4:37 G	C
											SOM GT:/0:12 0/1:58,16:3 C	T
			0.0	0.367	0.883	1,N					SOM GT:/0:10 0/1:143,81 A	C
									0		DB;:GT:/0:22 0/1:64,5:37 G	T
											SOM GT:/0:52 0/1:66,7:35 G	T
											SOM GT:/0:90 0/1:91,17:3 G	A
0.098									0		SOM GT:/0:28 0/1:41,4:37 G	A
									0		SOM GT:/0:30 0/1:42,4:37 C	G
									0		SOM GT:/0:12 0/1:12,6:35 G	A
											SOM GT:/0:34 0/1:70,5:37 G	T
		##	0								SOM GT:/0:41 0/1:74,7:37 G	A
	0	0	0						0.1	0.1	SOM GT:/0:39 0/1:92,7:37 G	C
		##	0	0.0	0.994	1.0,D 1,D	4.6	3.91			SOM GT:/0:49 0/1:81,12:3 G	A
							2.4				SOM GT:/0:69 0/1:70,35:3 G	A
			0	0					0	0	SOM GT:/0:88 0/1:131,7:3 A	G
			0	0	0.0	1.0,D 1.0,D 1.00	4.9	4.26	0	0	SOM GT:/0:10 0/1:177,10 C	T
							2.11				SOM GT:/0:21 0/1:29,3:37 C	T
									0.3	0.4	SOM GT:/0:11 0/1:8,3:28: C	T
									0.3	0.4	SOM GT:/0:12 0/1:7,3:33: T	C
											SOM GT:/0:64 0/1:1256,3 C	A
											SOM GT:/0:10 0/1:10,5:37 A	G
									0		SOM GT:/0:15 0/1:21,6:17 A	C
				0.0	0.833	0.699	1,D	5.6	4.01		SOM GT:/0:12 0/1:18,7:18 T	G
4E-04											SOM GT:/0:10 0/1:16,11:3 G	A
									0		SOM GT:/0:14 0/1:67,5:37 A	G
											SOM GT:/0:16 0/1:15,8:33 T	C
0.001	0	0	0						0	0	SOM GT:/0:35 0/1:50,8:37 A	T
		0	0								DB;:GT:/0:38 0/1:115,5:3 T	C
									0	0	DB;:GT:/0:55 0/1:89,4:37 T	C
									0.1	0.2	SOM GT:/0:12 0/1:21,6:37 C	A
									0	0.1	SOM GT:/0:9,(0/1:10,3:37 G	A
			0	0					0	0	DB;:GT:/0:50 0/1:119,6:3 A	C
											SOM GT:/0:17 0/1:226,10 G	A
									0	0.1	SOM GT:/0:9,(0/1:13,7:37 G	A
							3.7				SOM GT:/0:85 0/1:98,58:3 C	T
							5.6	2.81			SOM GT:/0:39 0/1:61,10:1 T	G
		##	0								SOM GT:/0:85 0/1:115,53 A	G
		##	0								SOM GT:/0:11 0/1:171,53 C	T
				0.0	1.0,D 1.0,D 1,D	5.7	5.41				SOM GT:/0:55 0/1:70,32:3 G	A
											DB;:GT:/0:37 0/1:72,5:37 T	G
				0.1	0.022	0.02	1,N				SOM GT:/0:31 0/1:29,5:37 C	T
				0.0	0.996	1.0,D 1,D	5.3	4.51			SOM GT:/0:18 0/1:27,13:3 G	A
		##	0	0.1	0.001	0.002	1,N		0		SOM GT:/0:67 0/1:84,37:3 G	A
		##	0								SOM GT:/0:12 0/1:189,82 C	T
			0	0					0		DB;:GT:/0:45 0/1:74,4:37 G	T
											SOM GT:/0:24 0/1:35,14:3 C	T

								0 0.4	SOM GT:/0:8,(0/1:3,4:37: A	C		
2E-04								0	SOM GT:/0:54 0/1:83,14:3 C	T		
	0	0						0	SOM GT:/0:39 0/1:59,5:37 T	A		
	##	0				5.4	2.57		SOM GT:/0:94 0/1:144,42 C	T		
									SOM GT:/0:9,(0/1:3,3:24: C	A		
						2.7			SOM GT:/0:90 0/1:133,26 C	T		
2E-04	0	##	0						SOM GT:/0:12 0/1:191,27 C	T		
2E-04	##	##	0	0.1	0.056	0.685	1,N	4.4	SOM GT:/0:44 0/1:55,19:3 G	A		
									SOM GT:/0:17 0/1:20,4:37 G	T		
						2.1			SOM GT:/0:51 0/1:53,7:20 A	C		
								0	0 SOM GT:/0:38 0/1:72,5:37 C	T		
									SOM GT:/0:20 0/1:9,3:28: A	G		
									SOM GT:/0:22 0/1:37,24:3 G	A		
									SOM GT:/0:9,(0/1:14,6:37 G	T		
								0	0 SOM GT:/0:11 0/1:19,3:37 A	T		
									SOM GT:/0:8,(0/1:18,9:35 G	A		
									SOM GT:/0:8,(0/1:16,3:37 T	G		
									SOM GT:/0:84 0/1:141,48 G	A		
			0.0	0.295	0.594	0.99		2.32	0	SOM GT:/0:43 0/1:79,5:37 T	A	
									0	SOM GT:/0:20 0/1:33,13:1 T	G	
						2.4			0	SOM GT:/0:20 0/1:33,13:1 T	G	
		##	0					2.22		SOM GT:/0:10 0/1:137,62 C	T	
0.001	0	0	0	0.0	0.029	0.595	0.98	5.2	2.47	0	SOM GT:/0:43 0/1:87,23:3 C	T
											SOM GT:/0:13 0/1:251,18 G	T
		##		0.1	0.001	0.002	1,N			0	SOM GT:/0:89 0/1:175,16 C	T
0.155									0.1	0.1	DB;S GT:/0:47 0/1:94,5:34 T	C
0.205									0.1	0	SOM GT:/0:19 0/1:56,4:37 T	C
										0	SOM GT:/0:66 0/1:77,9:37 C	G
				0.0	0.949	0.994	1,D	5.2	4.41		SOM GT:/0:46 0/1:36,41:3 A	C
									0	0.1	SOM GT:/0:9,(0/1:5,2:37: T	C
										0	SOM GT:/0:8,(0/1:17,3:37 A	G
											SOM GT:/0:25 0/1:28,14:3 G	A
						1.67					SOM GT:/0:22 0/1:42,22:3 G	C
						3.6					SOM GT:/0:47 0/1:71,33:3 C	T
						1.42			0		SOM GT:/0:55 0/1:116,5:3 A	C
											SOM GT:/0:21 0/1:36,5:37 G	A
											SOM GT:/0:15 0/1:349,13 C	T
											SOM GT:/0:15 0/1:53,4:37 C	T
						3.2	1.26				SOM GT:/0:42 0/1:65,27:3 C	T
				0.0	0.967	0.993	0.99	3.4	1.91		SOM GT:/0:91 0/1:163,16 C	A
									0	0	SOM GT:/0:22 0/1:37,3:37 G	A
									0	0	SOM GT:/0:16 0/1:22,3:33 C	T
										0	SOM GT:/0:8,(0/1:5,2:37: G	A
										0	SOM GT:/0:8,(0/1:7,3:37: C	T
									0	0	SOM GT:/0:11 0/1:13,3:37 G	T
				0.0	0.131	0.164	0.82	3.6	2.01		SOM GT:/0:88 0/1:106,76 C	T
						3.6				0	SOM GT:/0:11 0/1:10,6:20 A	C
										0	SOM GT:/0:11 0/1:11,5:19 A	C
											SOM GT:/0:33 0/1:44,32:3 G	A
						2.8	1.36				SOM GT:/0:18 0/1:33,13:3 G	A
											SOM GT:/0:13 0/1:15,11:3 T	G
		##	0	0.0	0.352	0.934	1,D	4.3	1.26		SOM GT:/0:89 0/1:100,51 G	A
								1.47			SOM GT:/0:24 0/1:47,3:33 G	T
									0.1	0.3	SOM GT:/0:8,(0/1:2,3:33: C	T

				0.1	0	SOM	GT:/0:11 0/1:14,6:3E	A				
					0	0.4	DB;GT:/0:22 0/1:22,3:37	C				
				1.48			SOM	GT:/0:47 0/1:1228,6:C	A			
					0	0	SOM	GT:/0:10 0/1:28,3:37	G			
					0	0.1	SOM	GT:/0:42 0/1:87,4:37	G			
					0	0	SOM	GT:/0:40 0/1:75,12:3	C	T		
							SOM	GT:/0:36 0/1:58,5:37	C	T		
							SOM	GT:/0:70 0/1:179,8:3	C	T		
							SOM	GT:/0:26 0/1:34,4:37	T	C		
							SOM	GT:/0:18 0/1:52,10:3	A	G		
0.379					0	0.2	SOM	GT:/0:8,(0/1:12,5:37	C	T		
				1.74			SOM	GT:/0:99 0/1:351,12	G	A		
							SOM	GT:/0:20 0/1:638,22	G	A		
	##	0 0.0		1,N			SOM	GT:/0:11 0/1:379,32	C	T		
		0.0(0.993	1.0,D	1.00	5.1	4.80		SOM	GT:/0:71 0/1:181,49	G	A	
								SOM	GT:/0:51 0/1:123,5:3	T	C	
							0	SOM	GT:/0:41 0/1:50,4:37	C	A	
								SOM	GT:/0:49 0/1:57,4:37	G	A	
							0	SOM	GT:/0:93 0/1:126,16	G	T	
				2.5			0	SOM	GT:/0:8,(0/1:54,4:34	G	A	
								SOM	GT:/0:16 0/1:56,11:3	G	A	
								SOM	GT:/0:49 0/1:155,10	C	T	
4E-04							0	SOM	GT:/0:11 0/1:309,29	G	A	
							0	SOM	GT:/0:10 0/1:14,4:34	A	G	
	0	0 0.3		1,N				SOM	GT:/0:24 0/1:42,3:37	A	G	
	0	0						SOM	GT:/0:14 0/1:69,9:37	A	G	
								SOM	GT:/0:56 0/1:149,39	G	A	
								SOM	GT:/0:23 0/1:70,7:37	C	T	
	##	0			1.60		0	SOM	GT:/0:89 0/1:235,14	C	T	
				3.8				SOM	GT:/0:10 0/1:219,69	G	A	
8E-04							0	0	SOM	GT:/0:26 0/1:79,4:37	C	T
								DB;GT:/0:24 0/1:36,3:37	T	C		
							0	DB;GT:/0:34 0/1:42,3:37	T	C		
								DB;GT:/0:23 0/1:31,3:37	T	C		
								DB;GT:/0:56 0/1:107,5:3	T	C		
							0	DB;GT:/0:84 0/1:189,7:3	T	A		
								DB;GT:/0:31 0/1:25,5:34	T	C		
							0	SOM	GT:/0:42 0/1:131,5:3	T	C	
							0	SOM	GT:/0:25 0/1:50,4:37	T	G	
								SOM	GT:/0:40 0/1:80,4:37	T	A	
							0	DB;GT:/0:66 0/1:155,8:3	T	A		
								DB;GT:/0:49 0/1:97,5:37	T	A		
							0	DB;GT:/0:36 0/1:56,4:37	T	C		
							0	DB;GT:/0:47 0/1:73,5:37	T	C		
							0	DB;GT:/0:36 0/1:49,8:37	T	C		
							0	DB;GT:/0:44 0/1:102,5:3	T	A		
							0	SOM	GT:/0:20 0/1:37,4:37	T	A	
								DB;GT:/0:20 0/1:29,3:37	T	G		
							0	DB;GT:/0:36 0/1:68,4:37	T	C		
							0	DB;GT:/0:33 0/1:60,4:37	T	A		
							0	SOM	GT:/0:20 0/1:41,3:37	T	G	
								SOM	GT:/0:13 0/1:31,3:37	T	C	
								SOM	GT:/0:9,(0/1:17,7:17	T	A	
				1,A	5	5.87		SOM	GT:/0:76 0/1:74,21:3	T	C	

					0	0	SOM GT:/0:9,(0/1:5,4:24: C	G
			0.010.58E0.99E 1,N	2.8			SOM GT:/0:49 0/1:47,40:3 C	T
		##	0			1.43	0 SOM GT:/0:74 0/1:115,48 G	A
			0.210.05E0.08E 1,D	3.4	3.15		SOM GT:/0:25 0/1:40,19:3 T	C
4E-04	0	##	0	0.5	0.007	0.09E0.99	SOM GT:/0:93 0/1:133,64 G	A
							SOM GT:/0:21 0/1:30,9:12 A	C
0.006		0	0				SOM GT:/0:13 0/1:217,10: C	T
							SOM GT:/0:89 0/1:141,71 G	A
							SOM GT:/0:63 0/1:114,5:3 G	T
							0 SOM GT:/0:28 0/1:55,4:37 C	G
							0 0 DB;S GT:/0:26 0/1:20,5:37 G	T
							0 SOM GT:/0:9,(0/1:12,3:37 C	A
							0 0 SOM GT:/0:33 0/1:53,4:37 T	G
							0 0 DB;S GT:/0:34 0/1:55,4:37 T	G
							0 SOM GT:/0:34 0/1:55,5:37 G	A
							SOM GT:/0:10 0/1:5,2:37: G	C
							SOM GT:/0:16 0/1:34,17:3 T	A
0.021							0 0 DB;S GT:/0:37 0/1:58,13:3 A	T
						2.3	0 SOM GT:/0:44 0/1:84,16:1 T	G
							0 0.2 SOM GT:/0:34 0/1:82,5:37 G	A
							0 0.1 SOM GT:/0:77 0/1:132,5:3 T	C
						2.6	SOM GT:/0:54 0/1:65,30:3 G	A
							SOM GT:/0:37 0/1:39,9:14 T	G
							SOM GT:/0:43 0/1:95,29:1 A	C
						5.5	2.32 SOM GT:/0:45 0/1:82,40:3 C	T
							0 SOM GT:/0:8,(0/1:1,2:37: T	C
							0 SOM GT:/0:10 0/1:143,6:3 C	G
							SOM GT:/0:13 0/1:39,4:37 G	A
							0 SOM GT:/0:20 0/1:54,4:37 C	G
							0 SOM GT:/0:34 0/1:73,4:34 C	T
							0 SOM GT:/0:10 0/1:18,4:37 A	G
							SOM GT:/0:19 0/1:57,6:37 G	T
						3.2	SOM GT:/0:43 0/1:71,28:3 G	A
							SOM GT:/0:10 0/1:29,11:3 G	A
							SOM GT:/0:48 0/1:86,4:37 G	T
			0.8	0.0,B	0.0,B	1,N	0 SOM GT:/0:10 0/1:213,39 G	A
							SOM GT:/0:10 0/1:18,3:37 T	C
							0 DB;S GT:/0:20 0/1:33,26:3 G	A
							SOM GT:/0:14 0/1:29,11:3 C	T
							0 SOM GT:/0:8,(0/1:7,3:37: C	T
							0.1 0.1 SOM GT:/0:28 0/1:20,7:3E G	A
							0 0 SOM GT:/0:8,(0/1:13,3:37 G	T
							0 0 SOM GT:/0:10 0/1:11,4:34 G	A
							0 0 SOM GT:/0:14 0/1:30,5:37 A	T
							SOM GT:/0:28 0/1:33,10:3 G	A
							0 0 SOM GT:/0:11 0/1:3,2:37: C	A
0.24							0 0 SOM GT:/0:10 0/1:15,3:37 G	A
2E-04		##	0				SOM GT:/0:53 0/1:136,13 C	T
							SOM GT:/0:17 0/1:23,8:37 A	G
0.065							0 DB;S GT:/0:36 0/1:81,5:37 C	G
							0 SOM GT:/0:36 0/1:81,5:37 T	G
							0 SOM GT:/0:56 0/1:76,8:37 A	C
						3	SOM GT:/0:26 0/1:39,16:3 C	T
						3.3	3.32 SOM GT:/0:23 0/1:41,8:1E A	C

									SOM GT:/0:32 0/1:72,29:3 G	A
0.031									SOM GT:/0:15 0/1:29,3:3 C	T
									SOM GT:/0:45 0/1:67,29:3 G	A
									SOM GT:/0:37 0/1:45,22:3 G	A
	##	0							SOM GT:/0:17 0/1:34,5:31 C	T
								0	SOM GT:/0:8,(0/1:5,2:37: C	T
								0	0 SOM GT:/0:8,(0/1:10,4:24 T	C
			0.0	0.505	0.857	0.99	4.6	4.05	SOM GT:/0:12 0/1:140,84 G	A
								1.53	DB;S GT:/0:20 0/1:41,21:3 G	A
									SOM GT:/0:26 0/1:23,3:37 C	T
		0	0						SOM GT:/0:45 0/1:90,17:3 C	T
	##	0							SOM GT:/0:92 0/1:135,52 C	T
									SOM GT:/0:8,(0/1:20,4:37 A	T
									SOM GT:/0:12 0/1:9,4:37: T	G
								4.4	SOM GT:/0:26 0/1:40,12:3 C	T
								3.1	1.56 SOM GT:/0:22 0/1:44,4:37 C	T
									SOM GT:/0:37 0/1:49,28:3 C	T
								3.6	1.91 SOM GT:/0:15 0/1:232,91 G	A
	##	0	0.995	1.0,D	1,N				SOM GT:/0:79 0/1:132,44 G	A
			0.0	0.04,	0.48,	0.99		1.45	SOM GT:/0:14 0/1:294,15 C	T
			0.6	0.004	0.005	0.99			SOM GT:/0:40 0/1:83,7:3 C	T
									SOM GT:/0:12 0/1:180,58 C	T
									SOM GT:/0:32 0/1:32,121 G	A
			0.0	0.433	0.884	1,D	5.2	3.32	SOM GT:/0:90 0/1:146,78 C	T
			0.1	0.039	0.107	1.00	5.3	4.84	SOM GT:/0:64 0/1:122,64 C	T
0.002									0 0 SOM GT:/0:21 0/1:9,3:28: G	A
		0	0						0 0.2 DB;S GT:/0:21 0/1:35,4:37 G	A
									SOM GT:/0:22 0/1:29,4:37 C	T
0.034							1.65	0.1	0.2 SOM GT:/0:9,(0/1:20,4:37 C	T
									SOM GT:/0:10 0/1:20,9:37 A	C
4E-04	##	##	0				2.3		SOM GT:/0:36 0/1:40,41:3 G	A
									SOM GT:/0:30 0/1:46,47:3 T	C
									SOM GT:/0:17 0/1:25,26:3 T	C
							2.9		SOM GT:/0:55 0/1:80,66:3 C	T
0.248									0 0.2 SOM GT:/0:12 0/1:5,3:37: G	C
									0 0 SOM GT:/0:15 0/1:30,5:37 C	A
									0 0 SOM GT:/0:8,(0/1:17,3:37 T	G
									0 SOM GT:/0:33 0/1:63,4:34 A	T
									SOM GT:/0:22 0/1:61,5:37 T	C
									0 0 SOM GT:/0:29 0/1:78,5:37 G	C
									SOM GT:/0:9,(0/1:15,5:37 G	A
									SOM GT:/0:35 0/1:106,6:3 C	A
									SOM GT:/0:35 0/1:107,6:3 A	C
								0	0.3 SOM GT:/0:8,(0/1:5,3:37: A	G
									0 SOM GT:/0:21 0/1:58,8:37 A	C
									0 0 SOM GT:/0:23 0/1:30,4:37 C	G
									0 0 SOM GT:/0:23 0/1:30,4:37 C	T
									SOM GT:/0:8,(0/1:18,14:3 C	T
								0.1	0.2 SOM GT:/0:24 0/1:54,5:31 G	A
									0 0.5 SOM GT:/0:8,(0/1:6,5:37: G	A
									0 0.5 SOM GT:/0:10 0/1:7,5:37: G	A
									SOM GT:/0:17 0/1:37,5:21 A	C
	##	0	0.0	0.997	1.0,D	1,D	5.7	5.14	0 SOM GT:/0:65 0/1:121,19 C	T
									SOM GT:/0:23 0/1:34,15:3 C	T

.	.	.	.	.	.	.	.	.	.	SOM GT:/0:19 0/1:38,7:17 C	A			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:28 0/1:40,36:3 G	T			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:19 0/1:43,24:3 G	A			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:24 0/1:40,5:37 A	G			
.	.	.	.	.	.	3.7	2.73.	.	.	SOM GT:/0:58 0/1:72,42:3 C	A			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:39 0/1:67,65:3 A	G			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:11 0/1:36,4:37 C	A			
.	.	.	.	.	.	.	.	.	0	SOM GT:/0:8,(0/1:12,4:37 C	T			
.	.	.	.	.	.	.	.	0	0.2	SOM GT:/0:8,(0/1:14,5:37 A	T			
.	.	.	.	.	.	.	.	0.1	0	SOM GT:/0:13 0/1:47,19:3 A	T			
.	.	.	.	.	.	.	.	0.1	0	SOM GT:/0:36 0/1:111,6:3 T	C			
4E-04	##	0	0.2	0.0010.008	1.00	2.3	.	.	.	SOM GT:/0:97 0/1:132,12: G	A			
.	.	.	.	.	.	.	.	.	.	DB;S GT:/0:62 0/1:125,15 A	C			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:23 0/1:32,3:37 C	T			
2E-04	.	.	.	.	.	.	.	.	0	0	SOM GT:/0:8,(0/1:6,9:34: C	T		
.	.	.	.	.	.	.	3	1.31.	.	SOM GT:/0:14 0/1:23,8:37 G	C			
6E-04	.	.	.	.	.	.	.	.	0	SOM GT:/0:11 0/1:17,19:3 G	A			
.	.	.	0.0	0.0540.102	1,N	3.6	.	.	.	SOM GT:/0:52 0/1:62,50:3 G	T			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:8,(0/1:15,9:35 A	G			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:45 0/1:10,58:3 T	C			
0.005	0	0	0	0.4	0.0040.007	1,N	.	.	0	0	SOM GT:/0:79 0/1:66,33:3 C	T		
.	.	.	.	.	.	.	0.0	0.9610.999	1,D	5.1	5.69.	.	SOM GT:/0:42 0/1:88,8:37 C	T
.	.	.	.	.	.	.	.	.	0	0.1	SOM GT:/0:8,(0/1:0,2:37: T	C		
.	.	.	.	.	.	1,D	5.2	4.50.	.	SOM GT:/0:13 0/1:31,21:3 G	A			
.	.	.	.	.	.	.	5.2	1.86.	.	SOM GT:/0:9,(0/1:10,13:3 G	A			
.	.	.	0	0	0.2	0.0020.001	1,D	4.8	4.41	0	0	DB;S GT:/0:77 0/1:159,6:3 G	C	
.	.	.	.	.	.	.	.	.	0.2	0.3	DB;S GT:/0:27 0/1:78,4:37 G	A		
.	##	0	.	.	.	.	.	.	.	SOM GT:/0:34 0/1:36,36:3 G	A			
.	.	.	.	.	.	.	4.1	.	.	SOM GT:/0:54 0/1:81,41:3 C	T			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:28 0/1:26,18:3 C	G			
.	.	.	0.0	0.9120.995	1,D	5.8	5.36.	.	.	DB;S GT:/0:19 0/1:62,173 G	A			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:29 0/1:85,213 C	G			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:55 0/1:397,59 A	G			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:8,(0/1:93,35:3 G	T			
.	.	.	.	.	.	.	.	.	0	0.3	DB;S GT:/0:31 0/1:244,8:3 A	G		
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:11 0/1:115,11: C	T			
.	.	.	0.0	.	.	0.73	2.06.	.	.	SOM GT:/0:60 0/1:71,9:37 G	T			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:30 0/1:412,11 G	T			
.	.	.	.	.	.	.	.	.	0	.	SOM GT:/0:57 0/1:95,7:37 C	G		
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:18 0/1:10,14:3 C	T			
.	.	.	.	.	.	.	.	.	0	.	SOM GT:/0:8,(0/1:17,3:37 A	G		
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:15 0/1:21,15:3 G	A			
.	##	.	.	.	.	2.4	.	.	0	.	SOM GT:/0:11 0/1:313,25 C	T		
.	.	.	0.965	0.999	.	4	5.22.	.	.	SOM GT:/0:22 0/1:565,40 C	T			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:12 0/1:22,16:3 T	C			
.	.	.	.	.	.	.	2.00.	.	.	SOM GT:/0:9,(0/1:31,5:37 G	A			
.	.	0	0	0.4	0.0020.004	1,N	.	.	0	0	SOM GT:/0:60 0/1:142,9:3 T	G		
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:16,12:3 G	A			
.	##	0	.	.	.	.	.	.	.	SOM GT:/0:11 0/1:140,13: C	T			
.	.	.	.	.	.	.	.	.	0	.	SOM GT:/0:11 0/1:21,4:37 C	G		
.	.	.	.	.	.	.	1.84.	.	.	DB;S GT:/0:33 0/1:55,43:3 C	T			
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:20,3:37 G	A			
.	.	.	.	.	.	.	.	.	0	0	SOM GT:/0:20 0/1:48,4:37 G	A		
.	.	.	.	.	.	.	.	.	0	.	SOM GT:/0:13 0/1:14,9:34 A	G		



						0.	SOMGT:/0:12 0/1:18,3:37A	C
0.038						0 0	SOMGT:/0:12 0/1:34,6:37G	C
				3.5 2.17			SOMGT:/0:39 0/1:52,65:3C	A
0.237						0.2 0.4	SOMGT:/0:8,(0/1:7,11:35T	G
							SOMGT:/0:20 0/1:27,18:3G	A
	##	0.				0 0	DB;SOMGT:/0:44 0/1:90,4:37G	A
4E-04	0	0	0.				SOMGT:/0:23 0/1:50,49:3C	A
0.026		0	0.			0 0	DB;SOMGT:/0:90 0/1:227,7:3A	G
0.047		0	0.			0.1 0.2	SOMGT:/0:69 0/1:26,21:3T	C
							SOMGT:/0:33 0/1:58,4:37C	T
						0 0	DB;SOMGT:/0:62 0/1:265,9:3T	A
				1,D	6 5.89		SOMGT:/0:41 0/1:68,62:3G	T
							SOMGT:/0:15 0/1:32,6:20A	C
	##	0.					SOMGT:/0:36 0/1:55,53:3A	G
	0	0	0.0	0.0,B	0.0,B	1,N	SOMGT:/0:55 0/1:79,5:37C	T
						0.	SOMGT:/0:12 0/1:18,7:37G	T
						0.	SOMGT:/0:8,(0/1:23,5:37A	G
							SOMGT:/0:11 0/1:0,2:37:C	T
							DB;SOMGT:/0:76 0/1:166,10 G	C
						0.	SOMGT:/0:38 0/1:93,7:35C	A
						0.	SOMGT:/0:20 0/1:47,4:34G	A
							SOMGT:/0:74 0/1:100,5:3G	A
							SOMGT:/0:75 0/1:70,4:34C	G
							DB;SOMGT:/0:10 0/1:224,7:3G	A
							SOMGT:/0:21 0/1:36,6:37G	T
0.002						0 0	SOMGT:/0:8,(0/1:13,3:37C	T
						0 0	SOMGT:/0:8,(0/1:6,2:37:T	C
				4.9			SOMGT:/0:57 0/1:93,71:3A	G
						0 0	SOMGT:/0:15 0/1:12,5:21T	G
						0.	SOMGT:/0:14 0/1:28,6:17T	G
						0.	SOMGT:/0:14 0/1:30,6:18T	G
						0 0	SOMGT:/0:8,(0/1:2,2:37:G	C
							SOMGT:/0:8,(0/1:16,11:3C	T
						0 0	SOMGT:/0:10 0/1:21,3:37C	G
						0 0	SOMGT:/0:12 0/1:24,7:35G	A
	##	0.				0.	SOMGT:/0:18 0/1:274,20 G	A
						0.1 0.1	SOMGT:/0:8,(0/1:22,5:37C	G
							SOMGT:/0:8,(0/1:28,3:37G	A
							SOMGT:/0:20 0/1:33,17:3G	T
							SOMGT:/0:23 0/1:59,5:37G	C
							DB;SOMGT:/0:43 0/1:104,5:3C	T
							SOMGT:/0:8,(0/1:7,7:37: G	T
							SOMGT:/0:80 0/1:109,10:G	A
				2.2			SOMGT:/0:17 0/1:35,20:3C	T
6E-04						0.	SOMGT:/0:19 0/1:74,6:35G	A
2E-04							SOMGT:/0:37 0/1:75,17:3C	T
	0	0	0	1.0,0.013	0.004	1.00	0 0.3 DB;SOMGT:/0:20 0/1:46,3:37T	C
						0 0	SOMGT:/0:12 0/1:28,6:32C	A
4E-04						0 0	SOMGT:/0:13 0/1:22,6:37T	A
						0 0	SOMGT:/0:34 0/1:67,5:37G	T
						0.1 0.2	SOMGT:/0:8,(0/1:26,5:37C	A
0.321						0.1 0.2	DB;SOMGT:/0:29 0/1:63,5:34A	G
						0.	SOMGT:/0:22 0/1:55,5:34G	T
6E-04							SOMGT:/0:14 0/1:17,15:3G	A

				2.31		SOMGT:/0:82 0/1:169,7:3 G	A
			0.0,1.0,D 1.0,D 1,D	4.9 4.64		SOMGT:/0:99 0/1:134,80 G	A
	##	0				SOMGT:/0:50 0/1:66,77:3 C	T
					0 0	SOMGT:/0:15 0/1:10,5:31 C	T
						SOMGT:/0:47 0/1:63,50:3 T	G
					0.1 0.3	SOMGT:/0:8,(0/1:15,4:34 T	A
0.41						SOMGT:/0:8,(0/1:24,11:3 G	C
						SOMGT:/0:43 0/1:120,8:3 T	A
						SOMGT:/0:30 0/1:32,12:3 G	A
						SOMGT:/0:52 0/1:73,50:3 C	T
0.156				2.7	0.4 0.5	DB;SOMGT:/0:31 0/1:50,49:3 C	G
						SOMGT:/0:16 0/1:3,2:37: C	G
						SOMGT:/0:18 0/1:228,15: C	T
					0.1 0	SOMGT:/0:9,(0/1:3,2:37: A	C
0.021					0 0	SOMGT:/0:39 0/1:98,6:32 T	C
						SOMGT:/0:11 0/1:40,7:19 T	G
				3.5		SOMGT:/0:38 0/1:137,5:3 G	A
				1.64		SOMGT:/0:52 0/1:89,9:37 G	A
				1.75		SOMGT:/0:22 0/1:37,21:3 G	A
				2.9		SOMGT:/0:27 0/1:17,25:3 G	C
						SOMGT:/0:12 0/1:21,19:3 T	C
			0.0,0.12, 0.912 1,N	2.8		SOMGT:/0:90 0/1:192,7:3 C	T
						SOMGT:/0:11 0/1:8,15:33 G	A
	##	0				SOMGT:/0:53 0/1:65,56:3 G	A
						SOMGT:/0:79 0/1:125,99 G	A
						SOMGT:/0:21 0/1:28,7:35 C	A
					0 0.2	DB;SOMGT:/0:35 0/1:65,4:37 A	G
						SOMGT:/0:13 0/1:14,15:3 A	T
						SOMGT:/0:52 0/1:122,20 C	T
						SOMGT:/0:8,(0/1:11,5:37 C	T
2E-04	##	0	0.0,0.993 1.0,D 0.96	2.9 3.63		SOMGT:/0:33 0/1:58,43:3 G	T
					0	SOMGT:/0:13 0/1:13,6:32 T	C
					0.1 0.3	SOMGT:/0:61 0/1:120,8:3 C	G
			0.0 0.993 1.0,D 1.00	5.2 3.95		SOMGT:/0:60 0/1:75,67:3 T	A
				3.7 2.31	0	SOMGT:/0:11 0/1:31,4:37 T	C
				2.9		SOMGT:/0:64 0/1:58,47:3 G	A
				5.7 1.53		SOMGT:/0:53 0/1:61,42:3 T	C
	##	##	0 0.2 0.002 0.003 0.68	4.3 2.22		SOMGT:/0:63 0/1:84,77:3 G	A
				4.3 1.40		SOMGT:/0:19 0/1:22,15:3 C	T
				1,A	5.99	SOMGT:/0:59 0/1:80,70:3 G	A
						SOMGT:/0:23 0/1:48,17:3 C	G
			0.0 0.943 0.997 1.00	4.1 4.28		SOMGT:/0:51 0/1:94,69:3 C	T
					0	SOMGT:/0:15 0/1:62,6:37 G	A
					0	SOMGT:/0:17 0/1:48,5:37 A	G
						SOMGT:/0:37 0/1:59,41:3 G	C
			0.0,0.997 1.0,D 1.00	3.9 3.50		SOMGT:/0:40 0/1:56,37:3 C	G
				6 1.44		SOMGT:/0:37 0/1:69,6:37 A	G
				1.48		SOMGT:/0:24 0/1:39,24:3 A	C
					0 0	SOMGT:/0:8,(0/1:8,3:33: T	C
						SOMGT:/0:91 0/1:134,86 G	T
						SOMGT:/0:16 0/1:34,31:3 C	G
					0.1 0.2	SOMGT:/0:13 0/1:29,7:37 C	A
	##	0	0.0 0.413 0.943 0.98	3.8 4.06		SOMGT:/0:10 0/1:152,12 G	A
				4.4 1.49		SOMGT:/0:37 0/1:119,6:3 T	A

				4.6 1.64 .		SOM GT:/0:84 0/1:110,66 G	T
				0.9340.998 1,N 2.2 .		SOM GT:/0:22 0/1:26,20:3 T	C
				0.210.068 0.396 0.99 5.8 3.14 0 .		SOM GT:/0:17 0/1:32,9:12 G	C
						SOM GT:/0:75 0/1:104,63 G	A
					0 .	SOM GT:/0:16 0/1:27,8:16 A	C
						SOM GT:/0:52 0/1:82,56:3 C	T
						SOM GT:/0:16 0/1:13,20:3 C	T
					0	SOM GT:/0:15 0/1:29,3:37 A	G
						SOM GT:/0:55 0/1:169,12 G	T
					0	0 SOM GT:/0:66 0/1:175,8:3 C	A
					0	0 SOM GT:/0:70 0/1:123,5:3 A	G
				1.30 .		SOM GT:/0:46 0/1:87,50:3 C	A
				3 .		SOM GT:/0:11 0/1:164,13: A	G
						SOM GT:/0:35 0/1:72,8:33 G	A
				2.7 .		SOM GT:/0:68 0/1:75,67:3 C	T
						SOM GT:/0:44 0/1:62,62:3 C	T
						SOM GT:/0:12 0/1:15,15:3 C	A
					0 .	SOM GT:/0:37 0/1:34,10:3 C	T
					0	0 SOM GT:/0:10 0/1:31,3:37 T	C
						SOM GT:/0:9,(0/1:10,4:21 C	A
					0	0 SOM GT:/0:47 0/1:100,8:3 G	A
						SOM GT:/0:44 0/1:101,6:3 C	T
	##	0 .		5.4 2.61 .		SOM GT:/0:48 0/1:119,9:3 C	T
						SOM GT:/0:58 0/1:70,4:34 G	A
	0	0 .			0	0 SOM GT:/0:21 0/1:36,6:37 C	T
				3.2 .		SOM GT:/0:15 0/1:19,6:37 C	G
				3.9 .		SOM GT:/0:12 0/1:167,12: G	A
				0.0 0.0040.0010.99 2.8 .		SOM GT:/0:67 0/1:110,76 C	T
					0 .	SOM GT:/0:11 0/1:39,4:37 A	G
					0 .	SOM GT:/0:20 0/1:43,5:37 T	C
						SOM GT:/0:12 0/1:20,16:3 C	A
2E-04 .						SOM GT:/0:17 0/1:27,3:37 C	T
						SOM GT:/0:32 0/1:56,42:3 C	T
					0 .	SOM GT:/0:11 0/1:42,7:37 G	T
					0 .	DB;GT:/0:51 0/1:245,10 G	C
					0 .	DB;GT:/0:38 0/1:195,8:3 A	T
					0 .	DB;GT:/0:37 0/1:100,6:3 T	C
						DB;GT:/0:36 0/1:106,5:3 A	G
					0 .	DB;GT:/0:62 0/1:183,7:3 T	C
						DB;GT:/0:78 0/1:202,8:3 G	T
					0 .	DB;GT:/0:49 0/1:121,6:3 C	G
					0 .	DB;GT:/0:46 0/1:127,6:3 C	T
					0 .	DB;GT:/0:35 0/1:86,8:33 T	G
					0 .	SOM GT:/0:50 0/1:117,8:3 A	G
						DB;GT:/0:52 0/1:125,6:3 A	C
					0 .	DB;GT:/0:36 0/1:149,7:3 T	G
					0 .	SOM GT:/0:34 0/1:71,7:37 A	G
					0 .	DB;GT:/0:55 0/1:180,7:3 C	G
						DB;GT:/0:80 0/1:275,14 C	T
						DB;GT:/0:70 0/1:207,7:3 G	T
						DB;GT:/0:66 0/1:161,11 A	T
						SOM GT:/0:18 0/1:43,3:37 G	T
						DB;GT:/0:19 0/1:41,4:37 C	T
						SOM GT:/0:17 0/1:40,3:37 G	C

							0.	DB;GT:/0:44 0/1:147,10 T	C		
								SOMGT:/0:11 0/1:45,3:37 G	A		
							0.	SOMGT:/0:14 0/1:42,4:37 C	G		
								SOMGT:/0:14 0/1:34,3:37 C	T		
								SOMGT:/0:28 0/1:39,25:3 C	G		
1E-03	0	0	0.0	0.086	0.044	1,D	5.2	0	0	SOMGT:/0:12 0/1:307,18 G	C
0.317								0	0.1	DB;GT:/0:39 0/1:83,4:37 T	C
										SOMGT:/0:15 0/1:10,11:3 G	T
			0.0	0.942	0.988	1,D	5.3	3.11		SOMGT:/0:15 0/1:81,200 C	A
		##	0.0	0.885	0.933	1,D	5.3	3.92		SOMGT:/0:15 0/1:58,203 C	T
								0	0	SOMGT:/0:18 0/1:51,4:37 C	A
								0	0.1	SOMGT:/0:9,(0/1:23,4:37 C	A
0.533								0	0.2	SOMGT:/0:9,(0/1:20,4:37 A	G
			0.7	0.047	0.042	1,N				SOMGT:/0:35 0/1:50,22:3 G	A
								0	0	SOMGT:/0:17 0/1:18,6:22 A	C
										SOMGT:/0:94 0/1:129,91 C	T
							2.31	0	0	SOMGT:/0:36 0/1:50,39:3 G	A
										SOMGT:/0:11 0/1:13,16:3 C	T
										SOMGT:/0:16 0/1:29,16:3 C	T
								0.1	0.1	SOMGT:/0:16 0/1:29,7:37 T	A
0.134								0.2	0.2	SOMGT:/0:10 0/1:31,14:3 A	G
								0.		SOMGT:/0:51 0/1:139,5:3 C	G
								0	0	SOMGT:/0:37 0/1:45,7:37 T	G
								0.		DB;GT:/0:37 0/1:55,5:37 A	G
								0.		SOMGT:/0:10 0/1:48,9:37 T	G
										SOMGT:/0:9,(0/1:41,3:37 C	T
										SOMGT:/0:45 0/1:64,5:34 G	C
										SOMGT:/0:45 0/1:82,4:34 C	T
								0.1	0	DB;GT:/0:38 0/1:117,8:3 T	C
								0	0	SOMGT:/0:9,(0/1:17,4:37 T	A
								0	0	SOMGT:/0:8,(0/1:16,3:37 T	A
							2.77			SOMGT:/0:59 0/1:70,63:3 C	G
							2.7	2.69		SOMGT:/0:28 0/1:61,4:37 G	A
								0	0	SOMGT:/0:96 0/1:186,6:3 G	T
		##	0					0.		SOMGT:/0:96 0/1:107,11:G	A
			0.6	0.098	0.066	1,D	5.1	2.42		SOMGT:/0:53 0/1:80,58:3 C	T
								0.		SOMGT:/0:8,(0/1:8,8:34: G	A
0.053										DB;GT:/0:26 0/1:57,27:3 C	T
								0	0	SOMGT:/0:15 0/1:36,4:37 A	T
								0	0	SOMGT:/0:8,(0/1:6,5:37: G	C
								0	0	SOMGT:/0:11 0/1:25,3:37 G	A
								0	0	SOMGT:/0:10 0/1:25,3:37 C	T
										SOMGT:/0:42 0/1:85,16:3 C	A
		##	##	0						SOMGT:/0:10 0/1:146,12:G	A
										SOMGT:/0:54 0/1:66,38:3 G	A
										SOMGT:/0:56 0/1:65,38:3 G	T
2E-04			0.1	0.806	0.985	0.64	5.1	2.59		SOMGT:/0:15 0/1:215,16:G	A
										SOMGT:/0:56 0/1:99,61:3 T	C
							4.1	1.24		SOMGT:/0:56 0/1:70,51:3 C	T
										SOMGT:/0:51 0/1:73,44:3 G	A
										SOMGT:/0:11 0/1:15,3:37 G	C
								0.		SOMGT:/0:18 0/1:34,3:37 C	G
										SOMGT:/0:90 0/1:129,10:G	C
0.13								0.2	0.2	SOMGT:/0:9,(0/1:15,15:3 T	A

	##	0	0.0	0.773	0.928	1,N	2.55		SOM	GT:/0:85	0/1:136,11	G	A				
0.722								0.3	0.5	DB;S	GT:/0:48	0/1:124,8	T	C			
										SOM	GT:/0:8,(0/1:10,6	32	G	A			
			0.0	0.793	0.976	1.00	5.8	4.40		SOM	GT:/0:61	0/1:70,66	T	G			
										SOM	GT:/0:46	0/1:60,48	T	G	A		
	##	0								SOM	GT:/0:58	0/1:88,43	T	G	A		
	##	##	0							SOM	GT:/0:45	0/1:75,52	T	G	A		
									0	SOM	GT:/0:12	0/1:31,5	34	C	T		
							3.1	1.79		SOM	GT:/0:25	0/1:35,21	T	C	A		
										SOM	GT:/0:32	0/1:43,29	T	C	A		
			0.2	0.974	0.998	0.99	3.9	1.92		SOM	GT:/0:55	0/1:93,63	T	C	A		
									0	0.2	SOM	GT:/0:8,(0/1:15,5	37	C	G		
									0	0.1	SOM	GT:/0:8,(0/1:2,4	37	T	G	A	
									0.1	0	SOM	GT:/0:48	0/1:91,4	37	G	A	
									0	0.1	SOM	GT:/0:21	0/1:48,10	T	C		
									0	0	SOM	GT:/0:27	0/1:76,4	37	G	T	
									0	0	DB;S	GT:/0:32	0/1:57,6	37	G	A	
									0	0	SOM	GT:/0:8,(0/1:10,3	3	T	A	A	
											SOM	GT:/0:9,(0/1:4,6	30	A	C		
											SOM	GT:/0:11	0/1:13,3	37	T	G	
							4.5				SOM	GT:/0:70	0/1:99,93	T	G	A	
							2.9	2.16			SOM	GT:/0:34	0/1:70,52	T	G	A	
											SOM	GT:/0:14	0/1:6,2	37	T	C	
			0.0	0.012	0.313	0.99	2	2.54			SOM	GT:/0:18	0/1:4,14	3	T	A	
									0	0.1	SOM	GT:/0:10	0/1:1,4	34	T	C	
0.078											SOM	GT:/0:22	0/1:5,6	37	T	G	
0.029		0	0						0	0	SOM	GT:/0:55	0/1:80,4	37	T	C	
											SOM	GT:/0:31	0/1:20,4	27	G	A	
		0	0	0	0.5	0.0,B	0.002	1,D		0	DB;S	GT:/0:34	0/1:46,5	37	T	C	
											SOM	GT:/0:18	0/1:47,21	T	C	A	
							0.926	0.986	0.99	3.6	2.28						A
											SOM	GT:/0:11	0/1:131,10	G	A		
											SOM	GT:/0:8,(0/1:5,2	37	T	A	A	
5E-04		##	0								SOM	GT:/0:12	0/1:191,15	G	A		
											SOM	GT:/0:21	0/1:36,10	T	C	G	
											SOM	GT:/0:23	0/1:47,10	T	C	G	
											SOM	GT:/0:12	0/1:30,3	37	T	G	
											SOM	GT:/0:9,(0/1:5,2	37	T	A	C	
											SOM	GT:/0:15	0/1:44,5	34	T	C	
											SOM	GT:/0:21	0/1:47,5	37	T	C	
							1,A	4.3	12.6		SOM	GT:/0:58	0/1:68,54	T	C	A	
								1.66			SOM	GT:/0:47	0/1:130,5	T	C	A	
											SOM	GT:/0:11	0/1:13,4	34	T	A	G
											SOM	GT:/0:52	0/1:131,17	A	G		
								1.46			SOM	GT:/0:39	0/1:66,52	T	C	A	
											SOM	GT:/0:49	0/1:69,60	T	C	A	
											SOM	GT:/0:36	0/1:81,15	1T	G		
									0	0	SOM	GT:/0:13	0/1:9,4	37	T	C	A
									0		SOM	GT:/0:29	0/1:70,5	37	T	A	G
											SOM	GT:/0:41	0/1:79,60	T	C	A	
											SOM	GT:/0:11	0/1:19,3	37	T	A	G
											SOM	GT:/0:56	0/1:406,14	C	T		
											SOM	GT:/0:30	0/1:290,27	C	T		
									0	0	SOM	GT:/0:8,(0/1:11,3	37	T	A	G	
											SOM	GT:/0:33	0/1:61,4	34	T	A	G

			0.0	0.99	1.0,D	1,D	4.6	5.20		SOM	GT:/0:90	0/1:190,12	C	T		
		##	0							SOM	GT:/0:41	0/1:95,5:37	C	T		
0.001									0	SOM	GT:/0:62	0/1:117,5:3	T	C		
									0.1	0.1	SOM	GT:/0:47	0/1:100,11	T	C	
									0	0	DB;S	GT:/0:43	0/1:100,6:3	T	C	
									0.1	0.2	DB;S	GT:/0:19	0/1:34,5:37	T	G	
0.192									0.1	0.2	DB;S	GT:/0:19	0/1:37,6:37	G	C	
									0.3	0.3	DB;S	GT:/0:63	0/1:108,5:3	T	C	
4E-04		##	0	0.2	0.37	0.96	1.00	5.8	3.60	0	SOM	GT:/0:12	0/1:164,12	C	T	
											SOM	GT:/0:49	0/1:92,7:3	3	G	A
								1.42			SOM	GT:/0:38	0/1:97,11:3	3	G	T
								2.7		0	SOM	GT:/0:19	0/1:16,9:14	T	G	
			0.0	0.82	0.99	2	1,N	4.5	1.58		SOM	GT:/0:40	0/1:65,7:37	G	T	
											SOM	GT:/0:66	0/1:114,8:3	C	T	
			0.0	0.99	1.0,D	1,D		2.95			SOM	GT:/0:66	0/1:119,9:3	G	A	
									0		SOM	GT:/0:15	0/1:18,4:37	T	C	
									0		SOM	GT:/0:8,	0/1:9,3:37	G	A	
									0	0.3	SOM	GT:/0:14	0/1:17,3:37	C	G	
									0	0	SOM	GT:/0:70	0/1:112,6:3	3	G	A
											SOM	GT:/0:30	0/1:45,5:37	C	G	
									0.1	0	DB;S	GT:/0:20	0/1:18,3:37	G	C	
0.114									0	0	SOM	GT:/0:8,	0/1:11,6:37	A	G	
											SOM	GT:/0:27	0/1:45,4:37	C	G	
									0	0	DB;S	GT:/0:34	0/1:66,4:37	T	A	
		##	0								SOM	GT:/0:60	0/1:99,14:3	3	G	A
			0.0	0.92	0.99	0.92	2.1	2.54			SOM	GT:/0:56	0/1:93,5:2	9	G	T
											SOM	GT:/0:20	0/1:46,3:3	3	G	C
		##	0	0.0	1.0,D	1.0,D	1,D	5	5.82		SOM	GT:/0:81	0/1:144,11	G	A	
0.128	0	0	0	1.0,0.0,B	0.0,B	1.00	3.3		0	0.1	SOM	GT:/0:24	0/1:37,4:37	A	G	
		##	##	0.0	0.01,	0.047	1,N	1.51			SOM	GT:/0:27	0/1:71,11:3	C	T	
		0	0						0	0	SOM	GT:/0:40	0/1:99,11:3	A	G	
				1.0,0.001	0.0,B	1,D	5.4				SOM	GT:/0:34	0/1:60,7:37	C	A	
								1.35			SOM	GT:/0:54	0/1:92,9:37	T	A	
											SOM	GT:/0:11	0/1:188,18	G	A	
							3.2	1.43	0	0	SOM	GT:/0:11	0/1:19,4:37	G	A	
											SOM	GT:/0:51	0/1:39,4:37	G	C	
											SOM	GT:/0:16	0/1:15,4:27	T	C	
									0	0	SOM	GT:/0:12	0/1:15,3:37	G	T	
			0.0	0.707	0.76	3	1.00	4.2	2.72		SOM	GT:/0:13	0/1:189,12	C	T	
								3.3			SOM	GT:/0:41	0/1:82,6:37	C	T	
											SOM	GT:/0:9,	0/1:5,2:37	C	A	
									0		SOM	GT:/0:10	0/1:7,3:37	G	C	
									0		SOM	GT:/0:10	0/1:7,3:33	C	T	
0.002	0	0							0	0	DB;S	GT:/0:55	0/1:98,7:37	G	A	
								1.95	0	0	SOM	GT:/0:16	0/1:18,3:37	G	A	
0.105											SOM	GT:/0:14	0/1:20,4:27	C	T	
											SOM	GT:/0:96	0/1:141,13	G	A	
								1.31			SOM	GT:/0:22	0/1:47,10:1	A	C	
											SOM	GT:/0:27	0/1:25,14:1	A	C	
											SOM	GT:/0:38	0/1:71,8:37	T	G	
			0.1	0.655	0.93	6	1,D	5.6	5.16		SOM	GT:/0:42	0/1:66,7:37	G	A	
		##	0	0.0	0.90	0.99	1,D	5.8	5.70		DB;S	GT:/0:26	0/1:38,6:37	G	A	
								1.41			SOM	GT:/0:52	0/1:79,6:3	3	C	A
		0	0	0.1	0.565	0.98	1.09	4.2	3.28		SOM	GT:/0:20	0/1:339,26	G	A	

										SOM GT:/0:10 0/1:163,14 A	G
									0.	SOM GT:/0:51 0/1:85,7:35 A	G
									0.	SOM GT:/0:8,(0/1:4,3:37: C	T
			0.2	0.002	0.002	1,N	2.2	1.28.		SOM GT:/0:69 0/1:119,5:3 C	T
										SOM GT:/0:26 0/1:49,7:37 A	C
									0.1	0.2 SOM GT:/0:13 0/1:27,3:37 G	A
									0	0 SOM GT:/0:42 0/1:54,5:37 C	T
		##	0	0.2	0.085	0.804	1,D	2.4	1.31.	SOM GT:/0:17 0/1:280,26 G	A
0.381									0.1	0.2 DB;S GT:/0:19 0/1:17,3:35 C	T
										SOM GT:/0:17 0/1:25,3:37 G	A
										SOM GT:/0:15 0/1:21,8:14 A	C
			0.0	0.999	1.0,D	0.91	3.2			SOM GT:/0:19 0/1:89,9:35 G	C
			0.0	0.91,	0.99,	0.86	3.5	3.17.		SOM GT:/0:75 0/1:104,13 C	A
		##	0	0.0	0.469	0.99,	0.99	3.7	2.54.	SOM GT:/0:77 0/1:160,11 C	T
										SOM GT:/0:30 0/1:57,4:37 G	A
									0	SOM GT:/0:53 0/1:82,9:32 T	A
										SOM GT:/0:59 0/1:88,6:37 T	G
										SOM GT:/0:27 0/1:46,3:37 C	T
										SOM GT:/0:36 0/1:63,5:37 C	T
			0.0	0.997	1.0,D	1,D	5.6	5.94.		SOM GT:/0:79 0/1:141,10 G	A
									0.	SOM GT:/0:46 0/1:90,13:1 T	G
									0.	SOM GT:/0:73 0/1:128,5:3 C	T
0.069									0.2	0.2 SOM GT:/0:9,(0/1:8,11:37 G	A
										SOM GT:/0:52 0/1:30,6:28 C	T
										SOM GT:/0:31 0/1:22,4:37 G	T
										SOM GT:/0:12 0/1:4,2:37: A	G
									0	0 SOM GT:/0:9,(0/1:8,3:28: C	G
										SOM GT:/0:21 0/1:10,6:37 C	A
									0	0 SOM GT:/0:23 0/1:15,3:37 T	C
									0	SOM GT:/0:70 0/1:94,6:35 C	T
									0	SOM GT:/0:85 0/1:113,6:3 C	T
									0	0 SOM GT:/0:11 0/1:15,3:28 G	A
			0.0	0.041	0.006	1,D	6.1	4.63.		SOM GT:/0:37 0/1:61,6:37 G	A
			0.0	0.681	0.989	0.99	3.7			SOM GT:/0:52 0/1:83,16:3 C	T
			0.0	1.0,D	1.0,D	1,D	5.3	5.07.		SOM GT:/0:40 0/1:87,4:37 C	T
0.008										SOM GT:/0:39 0/1:73,4:34 G	A
0.005									0.	SOM GT:/0:32 0/1:68,6:37 C	T
								1.34.		SOM GT:/0:10 0/1:16,5:19 A	C
										SOM GT:/0:28 0/1:54,4:37 G	C
										SOM GT:/0:8,(0/1:5,3:33: C	T
										SOM GT:/0:53 0/1:66,5:37 G	C
									0.	SOM GT:/0:19 0/1:27,3:37 G	A
0.148										SOM GT:/0:90 0/1:91,4:37 T	A
										SOM GT:/0:10 0/1:15,3:37 C	G
							3.2	2.52.		SOM GT:/0:19 0/1:45,3:35 C	T
									0.	SOM GT:/0:22 0/1:32,5:37 G	A
0.039									0	0 SOM GT:/0:12 0/1:11,3:35 T	C
										SOM GT:/0:46 0/1:75,5:37 G	A
6E-04									0.	SOM GT:/0:37 0/1:73,5:37 C	T
										SOM GT:/0:37 0/1:50,10:3 G	A
										SOM GT:/0:94 0/1:158,7:3 C	T
										SOM GT:/0:15 0/1:11,5:37 G	A
		0	0.						0.1	0 DB;S GT:/0:47 0/1:72,7:37 C	T
		0	0.						0.	SOM GT:/0:47 0/1:72,5:37 T	C

0.371	0	0	0	.	.	.	.	.	0	0.1	SOM	GT:/0:23	0/1:27,3:37	G	C
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:69	0/1:94,8:35	G	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:17	0/1:20,3:35	G	T
.	.	.	.	.	.	.	.	.	0	0	DB;S	GT:/0:33	0/1:57,4:37	T	C
.	##	0	.	.	.	.	.	.	.	.	SOM	GT:/0:12	0/1:233,19	G	A
.	.	.	0.0	0.99	1.0,D	1,D	5.7	4.61	.	.	SOM	GT:/0:78	0/1:119,7:3	G	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:21	0/1:14,3:37	G	A
.	##	0	.	.	.	.	.	.	.	.	SOM	GT:/0:62	0/1:122,12	G	A
.	.	.	.	.	.	.	.	.	0	.	DB;S	GT:/0:22	0/1:36,5:37	A	G
.	.	.	.	.	.	.	.	.	0.3	0.2	SOM	GT:/0:10	0/1:24,4:37	G	A
.	.	.	.	.	.	.	.	2.9	.	.	SOM	GT:/0:27	0/1:36,8:37	G	A
.	0	##	0	0.0	0.97	0.99	1,D	5.8	5.60	.	SOM	GT:/0:58	0/1:158,6:3	G	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:22	0/1:30,4:37	A	G
0.433	.	1	1	.	.	.	.	.	0.1	0.5	SOM	GT:/0:48	0/1:90,5:37	C	G
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:19	0/1:31,4:37	G	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:18	0/1:35,9:15	C	G
4E-04	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:12	0/1:21,7:37	C	T
.	.	.	0.3	0.01	0.04	1,D	5.2	2.12	.	.	SOM	GT:/0:10	0/1:198,14	C	A
.	.	.	.	.	.	.	.	1.70	.	.	SOM	GT:/0:39	0/1:85,6:37	G	T
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:12	0/1:30,4:37	C	T
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:9,	0/1:7,5:32	A	T
.	0	0	.	.	.	.	.	2.1	.	.	SOM	GT:/0:12	0/1:14,3:37	T	C
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:11	0/1:198,16	C	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:93	0/1:181,20	G	C
.	.	.	.	.	.	.	.	2.9	.	.	SOM	GT:/0:31	0/1:32,4:37	G	C
.	.	.	.	.	.	.	.	.	0	.	SOM	GT:/0:16	0/1:41,8:35	C	A
.	##	0	0.0	0.36	1.0,517	1,D	5.7	4.40	0	.	DB;S	GT:/0:17	0/1:46,4:37	C	T
.	##	##	0	0.4	0.052	0.375	0.51	4	2.41	.	SOM	GT:/0:49	0/1:70,7:37	C	T
.	0	0	.	.	.	.	.	.	.	.	DB;S	GT:/0:11	0/1:243,8:3	T	C
0.001	.	0	0	0.1	0.03,	1.0,0.075	1.00	1.87	.	.	SOM	GT:/0:45	0/1:58,8:37	C	T
.	.	.	.	.	.	1,A	3.73	.	.	.	SOM	GT:/0:51	0/1:70,12:3	G	A
0.001	.	.	.	.	.	.	.	.	0	0	SOM	GT:/0:37	0/1:68,5:37	G	A
.	.	.	.	.	.	.	.	2.6	.	.	SOM	GT:/0:15	0/1:36,4:37	C	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:52	0/1:89,11:3	G	A
0.22	.	.	.	.	.	.	.	.	0.1	0.3	SOM	GT:/0:8,	0/1:6,9:37	T	C
.	##	0	0.0	1.0,D	1.0,D	1,D	5	4.51	.	.	SOM	GT:/0:84	0/1:155,9:3	G	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:9,	0/1:25,4:37	C	T
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:31	0/1:72,10:1A	A	C
.	##	0	.	.	1,A	4.9	5.89	.	.	.	SOM	GT:/0:17	0/1:45,3:37	G	A
.	.	.	0.0	0.997	1.0,D	1,D	6.2	4.86	.	.	SOM	GT:/0:31	0/1:79,4:37	C	T
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:83	0/1:149,14	C	T
.	.	.	.	.	.	.	.	.	0	.	SOM	GT:/0:33	0/1:44,5:37	T	G
.	.	.	.	.	.	.	.	.	0	0	SOM	GT:/0:9,	0/1:12,3:37	G	A
.	.	.	.	.	.	.	.	.	0	.	SOM	GT:/0:9,	0/1:9,3:37	C	T
.	.	.	.	.	.	.	.	.	0	0	SOM	GT:/0:8,	0/1:4,3:37	T	G
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:10	0/1:20,3:37	T	C
.	.	.	.	.	.	.	.	.	0	0	SOM	GT:/0:10	0/1:198,7:3	C	T
.	.	.	.	.	.	.	3.49	.	.	.	SOM	GT:/0:43	0/1:69,8:34	G	T
.	##	0	.	.	.	.	.	.	.	.	SOM	GT:/0:10	0/1:210,12	G	A
.	.	.	.	.	.	.	.	.	0	.	SOM	GT:/0:23	0/1:30,3:37	T	A
.	.	.	.	.	.	.	.	.	0	0.3	DB;S	GT:/0:44	0/1:67,4:34	G	A
2E-04	.	.	.	.	.	.	.	.	0	0	SOM	GT:/0:8,	0/1:17,3:37	C	T
.	.	.	.	.	.	.	.	.	0.2	0.2	DB;S	GT:/0:22	0/1:51,8:37	G	C
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:8,	0/1:5,2:37	G	T



					0 0.1	SOM GT:/0:10 0/1:7,8:35	A	C
					0 0	SOM GT:/0:10 0/1:15,6:37	C	G
					0 0.1	SOM GT:/0:9,(0/1:18,3:33	A	G
					0 0.2	SOM GT:/0:8,(0/1:18,4:37	G	A
		0 0			0 0	SOM GT:/0:74 0/1:153,8:3	G	A
				2.8 2.38		SOM GT:/0:22 0/1:312,17	G	A
2E-04	##	0				SOM GT:/0:68 0/1:145,10	C	T
						SOM GT:/0:20 0/1:27,3:37	C	T
		0 0	1.0,0.0,B 0.0,B 1.00		0 0	SOM GT:/0:42 0/1:72,4:37	A	G
						SOM GT:/0:9,(0/1:1,2:37	G	A
			0.5,0.0010.0,B 1,N			SOM GT:/0:99 0/1:163,14	T	C
						SOM GT:/0:18 0/1:304,14	A	T
						SOM GT:/0:38 0/1:71,4:37	C	T
						SOM GT:/0:15 0/1:20,3:33	G	A
					0	DB;GT:/0:23 0/1:75,11:3	C	G
					0	DB;GT:/0:25 0/1:49,4:37	C	T
						SOM GT:/0:35 0/1:123,6:3	T	G
					0	DB;GT:/0:42 0/1:132,9:3	G	A
					0	DB;GT:/0:59 0/1:235,13	C	T
					0	DB;GT:/0:65 0/1:265,14	T	A
					0	DB;GT:/0:36 0/1:135,6:3	C	T
					0	DB;GT:/0:35 0/1:138,6:3	G	C
						DB;GT:/0:43 0/1:70,4:37	C	T
					0	SOM GT:/0:8,(0/1:55,4:37	G	A
					0	DB;GT:/0:22 0/1:103,8:3	T	C
						DB;GT:/0:34 0/1:116,6:3	G	T
					0	DB;GT:/0:38 0/1:156,6:3	A	G
					0	DB;GT:/0:39 0/1:155,7:3	G	C
					0 0	SOM GT:/0:8,(0/1:25,3:37	C	A
					0	SOM GT:/0:22 0/1:71,4:37	A	G
						DB;GT:/0:43 0/1:107,5:3	C	T
					0	DB;GT:/0:43 0/1:184,7:3	C	T
						DB;GT:/0:30 0/1:112,5:3	C	T
						SOM GT:/0:14 0/1:38,3:37	A	T
						DB;GT:/0:35 0/1:167,11	A	C
					0	DB;GT:/0:27 0/1:117,8:3	A	C
					0	DB;GT:/0:21 0/1:82,4:34	T	C
						SOM GT:/0:33 0/1:61,8:34	C	A
		0 0	0.6 0.0,B 0.0,B 1,N		0 0	SOM GT:/0:79 0/1:161,7:3	A	G
					0 0	SOM GT:/0:14 0/1:20,4:24	A	C
			0.1,0.002 0.0,B 1,N	1.72		SOM GT:/0:46 0/1:69,8:37	C	G
						SOM GT:/0:35 0/1:85,5:31	C	A
						SOM GT:/0:19 0/1:29,5:21	T	G
				3.2		SOM GT:/0:58 0/1:122,7:3	G	A
						SOM GT:/0:79 0/1:146,11	G	T
						SOM GT:/0:14 0/1:28,3:37	G	A
					0 0	SOM GT:/0:16 0/1:31,4:37	T	G
0.344					0 0.2	SOM GT:/0:11 0/1:9,4:37	A	G
0.177					0 0.2	SOM GT:/0:13 0/1:10,3:37	C	A
			0.1370.458 1.00	4.9 3.16	0	SOM GT:/0:25 0/1:30,4:37	C	T
						SOM GT:/0:37 0/1:59,4:37	A	G
					0 0	DB;GT:/0:29 0/1:39,4:37	A	T
						SOM GT:/0:18 0/1:0,2:37	G	A
						SOM GT:/0:33 0/1:42,4:34	G	A

	##	0.0	0.985	1.0,D	1.00	3.4	4.41		SOMGT:/0:13	0/1:225,21	C	T		
	0	0				2.5			SOMGT:/0:88	0/1:170,17	G	A		
									SOMGT:/0:93	0/1:159,7:3	G	A		
4E-04									SOMGT:/0:21	0/1:29,5:26	C	T		
						4			SOMGT:/0:55	0/1:104,7:3	G	A		
						1,N			SOMGT:/0:10	0/1:165,13	C	T		
	##	##	0					0	SOMGT:/0:87	0/1:143,9:3	C	T		
						1.42			SOMGT:/0:14	0/1:255,23	C	T		
	0							0	SOMGT:/0:17	0/1:13,3:37	C	T		
									SOMGT:/0:32	0/1:36,3:37	G	A		
									SOMGT:/0:65	0/1:130,5:3	G	T		
									SOMGT:/0:11	0/1:23,5:37	G	T		
						2.4	1.26		SOMGT:/0:10	0/1:18,3:37	C	A		
									SOMGT:/0:11	0/1:12,3:37	G	A		
								0	0.1	SOMGT:/0:8,	0/1:6,4:34	T	C	
								0	0	SOMGT:/0:26	0/1:35,3:37	G	T	
								0		SOMGT:/0:38	0/1:68,4:37	C	G	
						3.1				SOMGT:/0:24	0/1:40,7:37	C	T	
								0		SOMGT:/0:22	0/1:50,11:1	A	C	
										SOMGT:/0:19	0/1:28,3:37	C	G	
			0.0	0.805	0.975	0.81	3.51			DB;S	GT:/0:37	0/1:55,5:37	C	A
								0		DB;S	GT:/0:34	0/1:75,4:34	C	A
										SOMGT:/0:17	0/1:27,7:16	A	C	
2E-04								0	0	SOMGT:/0:11	0/1:33,3:37	T	C	
								0		SOMGT:/0:85	0/1:173,6:3	T	C	
	##	0								SOMGT:/0:75	0/1:156,15	G	A	
										SOMGT:/0:39	0/1:76,8:37	G	T	
	##	0	0.0	0.961	0.998	0.76	2.6	3.22		SOMGT:/0:17	0/1:294,23	T	G	
						2.9				SOMGT:/0:42	0/1:75,4:37	C	T	
										SOMGT:/0:17	0/1:41,7:33	C	T	
										SOMGT:/0:21	0/1:33,3:37	G	T	
										SOMGT:/0:87	0/1:157,7:3	C	A	
								0		SOMGT:/0:23	0/1:27,3:37	A	G	
										SOMGT:/0:41	0/1:71,9:34	C	A	
								0.1	0.2	SOMGT:/0:10	0/1:17,4:37	C	T	
								0	0	SOMGT:/0:41	0/1:41,3:37	C	T	
								0		SOMGT:/0:54	0/1:104,5:3	A	G	
										SOMGT:/0:9,	0/1:14,3:37	G	A	
										SOMGT:/0:29	0/1:63,4:37	C	T	
										SOMGT:/0:12	0/1:9,3:37	T	G	
										SOMGT:/0:56	0/1:101,5:3	C	T	
										SOMGT:/0:20	0/1:50,4:37	C	T	
1E-03	0	0						0	0	SOMGT:/0:18	0/1:330,16	G	A	
0.03								0	0	SOMGT:/0:22	0/1:40,3:37	C	T	
	##	##	0							SOMGT:/0:63	0/1:126,13	C	T	
						3.5				SOMGT:/0:56	0/1:87,9:35	G	A	
						2.38				SOMGT:/0:25	0/1:31,3:37	G	A	
										SOMGT:/0:26	0/1:63,4:37	C	A	
								0	0.1	SOMGT:/0:31	0/1:19,4:37	G	T	
0.034										SOMGT:/0:11	0/1:17,4:37	T	C	
			0.0	0.754	0.898	0.97	5	3.18		SOMGT:/0:11	0/1:219,22	C	T	
	##	0	0.0	0.805	0.998	1,D	5.1	3.90		SOMGT:/0:48	0/1:99,6:35	C	T	
						2.6				SOMGT:/0:93	0/1:181,16	G	A	
	0	0	0.0	0.999	1.0,D	1,D	4.9	3.75		SOMGT:/0:43	0/1:81,4:37	G	A	

									SOMGT:/0:26 0/1:116,5:3 G	C			
								0.	SOMGT:/0:13 0/1:43,6:37 T	C			
								0.	SOMGT:/0:13 0/1:44,4:37 A	G			
0.048	0							0	0 DB;SOMGT:/0:60 0/1:107,9:3 A	T			
			0.0,0.416	0.974	0.93	4.8			SOMGT:/0:71 0/1:166,13 G	A			
			0.4	0.001	0.0,B	1.00			SOMGT:/0:89 0/1:195,17 T	C			
									SOMGT:/0:65 0/1:150,10 C	T			
									SOMGT:/0:17 0/1:35,5:37 C	A			
									SOMGT:/0:20 0/1:37,6:37 G	A			
		0	0				3.39		SOMGT:/0:17 0/1:15,3:37 G	A			
									SOMGT:/0:26 0/1:99,6:35 T	C			
									SOMGT:/0:29 0/1:107,5:3 G	A			
									SOMGT:/0:22 0/1:68,10:3 C	A			
		##	0						SOMGT:/0:95 0/1:120,52 C	T			
									SOMGT:/0:40 0/1:83,12:3 C	G			
2E-04	0	0	0	0.8	0.062	0.877	0.99	4.2	2.67	SOMGT:/0:92 0/1:141,9:3 C	T		
				0.0,0.38,	0.273	1,D	5.4	4.81		SOMGT:/0:14 0/1:192,47 C	T		
								0	0	SOMGT:/0:17 0/1:26,6:33 G	A		
0.081								0	0.4	SOMGT:/0:8,(0/1:3,2:37: G	C		
										SOMGT:/0:31 0/1:31,3:37 T	A		
								0	0	SOMGT:/0:8,(0/1:15,5:37 C	T		
				0.0,0.052	0.103	1,N	3	2.65		SOMGT:/0:40 0/1:54,13:3 G	C		
2E-04										SOMGT:/0:13 0/1:11,4:37 C	T		
0.001	0	0	0	0.2	0.005	0.055	1,D	5	3.03	0	0	SOMGT:/0:46 0/1:49,18:3 G	A
												SOMGT:/0:13 0/1:17,5:37 G	A
								2.3	1.84			SOMGT:/0:86 0/1:102,35 G	A
		##	0	0.0	0.001	0.002	1,D	3.2	2.14			SOMGT:/0:93 0/1:97,26:3 G	A
				0.0	0.18,	0.236	1.00	6.2	2.89			SOMGT:/0:39 0/1:67,4:37 C	T
				0.0	0.998	1.0,D	1,D	5.9	5.31			SOMGT:/0:30 0/1:50,5:37 G	C
								2.3	2.51			SOMGT:/0:37 0/1:78,13:3 G	T
												SOMGT:/0:25 0/1:60,7:37 G	T
												SOMGT:/0:12 0/1:26,7:37 G	C
										0		SOMGT:/0:18 0/1:36,3:37 A	G
		##	0	0.0	0.002	0.029	1,N	1.80				SOMGT:/0:23 0/1:325,84 C	T
										0	0.1	SOMGT:/0:8,(0/1:6,2:37: C	A
								2.2	1.31			SOMGT:/0:41 0/1:57,23:3 C	T
												SOMGT:/0:28 0/1:37,14:3 C	G
												SOMGT:/0:20 0/1:38,4:37 G	A
												SOMGT:/0:10 0/1:15,5:37 G	A
												SOMGT:/0:11 0/1:19,4:37 G	A
												SOMGT:/0:8,(0/1:6,2:37: C	A
												SOMGT:/0:31 0/1:52,14:3 G	A
								1.48				SOMGT:/0:56 0/1:66,10:3 G	A
												SOMGT:/0:10 0/1:146,43 G	A
		0	0							0	0.3	SOMGT:/0:11 0/1:24,7:37 G	A
										0	0	SOMGT:/0:12 0/1:12,4:37 C	T
												SOMGT:/0:9,(0/1:6,2:37: C	T
										0	0	SOMGT:/0:13 0/1:12,3:33 G	A
										0	0	SOMGT:/0:41 0/1:80,4:37 A	G
										0	0.1	SOMGT:/0:20 0/1:37,6:37 C	G
										0		DB;SOMGT:/0:52 0/1:60,8:37 A	T
												SOMGT:/0:68 0/1:130,5:3 T	G
												SOMGT:/0:9,(0/1:6,2:37: A	G
												SOMGT:/0:8,(0/1:14,3:33 G	A

										SOM GT:/0:19 0/1:32,4:37 C	A	
									0.	DB;GT:/0:27 0/1:36,4:37 C	T	
										SOM GT:/0:16 0/1:191,8:3 T	G	
										SOM GT:/0:18 0/1:169,15 C	G	
									0 0	SOM GT:/0:12 0/1:12,4:37 G	A	
									0 0	SOM GT:/0:12 0/1:12,4:37 G	A	
								1.97	0 0	SOM GT:/0:11 0/1:12,3:37 G	C	
										SOM GT:/0:9,(0/1:8,16:36 G	A	
0.398									0 0.2	SOM GT:/0:24 0/1:41,7:37 C	T	
									0.	SOM GT:/0:14 0/1:17,4:37 T	A	
								1.76		SOM GT:/0:18 0/1:40,9:37 C	T	
										SOM GT:/0:62 0/1:92,28:3 C	G	
										SOM GT:/0:31 0/1:37,10:3 C	A	
										SOM GT:/0:69 0/1:120,29 A	T	
										SOM GT:/0:19 0/1:32,12:2 G	T	
								3.3 1.34		SOM GT:/0:51 0/1:74,5:37 C	T	
								2.8 1.23		SOM GT:/0:85 0/1:183,14 C	T	
								2		SOM GT:/0:42 0/1:58,4:37 C	T	
								0.3 0.082 0.11,1,1,N		SOM GT:/0:58 0/1:77,28:3 C	G	
2E-04	0	0	0							SOM GT:/0:12 0/1:20,3:37 G	A	
	##	0	0	0.0	0.333	0.988	1.00	5.6	3.54		SOM GT:/0:52 0/1:81,26:3 G	A
				0.1	0.582	0.994	0.99	2.6	3.80		SOM GT:/0:25 0/1:60,5:37 G	A
				0.0	1.0,D	1.0,D	1,D	5.7	5.03	0.	SOM GT:/0:75 0/1:121,27 C	T
											SOM GT:/0:13 0/1:16,3:37 G	A
											SOM GT:/0:38 0/1:64,14:3 G	A
								1.87			SOM GT:/0:28 0/1:44,12:3 C	T
											SOM GT:/0:9,(0/1:20,8:33 C	G
								3.4			DB;GT:/0:40 0/1:76,25:3 G	C
											SOM GT:/0:31 0/1:49,16:3 G	C
										0.	SOM GT:/0:9,(0/1:5,2:37: C	A
								4.1			SOM GT:/0:69 0/1:81,25:3 C	T
								3.9			SOM GT:/0:13 0/1:28,3:37 C	T
											SOM GT:/0:36 0/1:58,19:3 A	G
								1.61			SOM GT:/0:17 0/1:21,3:37 C	G
											SOM GT:/0:12 0/1:10,3:37 C	G
										0.	SOM GT:/0:27 0/1:37,12:3 C	T
								2.6		0	SOM GT:/0:31 0/1:58,4:37 C	T
	##	##	0								SOM GT:/0:59 0/1:87,17:3 C	T
											SOM GT:/0:77 0/1:107,20 C	T
								1.57			SOM GT:/0:39 0/1:48,7:33 G	A
										0.	SOM GT:/0:17 0/1:23,3:37 A	G
										0.	SOM GT:/0:18 0/1:24,3:37 C	A
								1.90			SOM GT:/0:27 0/1:30,5:31 C	T
									0.1	0.5	SOM GT:/0:8,(0/1:10,5:37 G	A
									0	0.1	SOM GT:/0:8,(0/1:13,3:37 T	C
								3.8 1.39			SOM GT:/0:90 0/1:123,26 C	T
											SOM GT:/0:29 0/1:37,15:3 G	A
								1.92			SOM GT:/0:31 0/1:35,12:3 G	C
0.408									0	0	DB;GT:/0:28 0/1:62,5:37 A	T
								5.4 3.63			SOM GT:/0:10 0/1:180,7:3 C	T
											SOM GT:/0:16 0/1:27,3:37 C	T
0.739		1	1						0	0	SOM GT:/0:17 0/1:40,3:37 T	C
									0.		SOM GT:/0:9,(0/1:16,3:37 A	G
											SOM GT:/0:18 0/1:139,15 C	T

.	.	.	.	.	.	.	.	.	SOM GT:/0:17 0/1:26,7:35G	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:22 0/1:40,3:37G	C
.	.	.	.	.	.	.	.	.	SOM GT:/0:14 0/1:21,7:14T	G
.	.	.	0.1	0.1040.2910.94	2.4	2.90.	.	.	SOM GT:/0:37 0/1:64,18:3C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:15 0/1:10,6:15T	G
.	.	.	.	.	.	.	.	.	SOM GT:/0:9,(0/1:16,4:30T	C
.	.	.	.	.	.	.	.	.	SOM GT:/0:33 0/1:41,12:3C	T
.	.	.	0.3	0.05, 0.1181,N	.	.	.	.	SOM GT:/0:26 0/1:47,11:3G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:13 0/1:30,9:37G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:25 0/1:20,5:37C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:67 0/1:114,5:3G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:45 0/1:89,22:3G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:23,4:37G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:10 0/1:14,3:37G	T
.	.	.	0.0	0.1660.1461,D	5.5	4.87.	.	.	SOM GT:/0:37 0/1:47,18:3C	G
.	.	.	.	.	.	.	.	.	SOM GT:/0:55 0/1:95,22:3C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:15 0/1:29,6:37G	A
.	.	.	.	.	4.6	2.01.	.	.	SOM GT:/0:98 0/1:168,47 C	T
.	.	.	0.1	0.3760.7221,D	5.4	4.72.	.	.	SOM GT:/0:10 0/1:179,35 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:271,65 G	A
.	.	##	.	.	.	1.27	0.	.	SOM GT:/0:17 0/1:225,71 C	T
.	##	.	0.1	0.67, 0.9391.00	5.4	4.66.	.	.	SOM GT:/0:10 0/1:165,17 G	A
.	.	##	0.	.	.	.	.	.	SOM GT:/0:52 0/1:100,24 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:33 0/1:50,21:3A	T
6E-04	0	0	0	.	.	3.1	.	.	SOM GT:/0:17 0/1:22,10:3G	A
.	.	.	0.1	0.0050.0111,N	.	.	.	.	SOM GT:/0:79 0/1:289,9:3C	T
.	.	.	0.1	0.2030.4371,N	3.6	3.56.	.	.	SOM GT:/0:68 0/1:221,12 C	G
.	.	.	.	.	.	.	.	.	SOM GT:/0:43 0/1:107,15 C	T
.	.	.	0.0	0.9930.9991.00	3.5	3.61.	.	.	SOM GT:/0:11 0/1:373,11 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:21 0/1:61,14:3C	T
.	.	.	0.1	0.5990.8731,N	4.2	1.92.	.	.	SOM GT:/0:68 0/1:207,25 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:41 0/1:145,25 C	T
.	.	.	.	.	.	2.9	.	.	SOM GT:/0:71 0/1:209,23 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:32 0/1:121,28 C	T
0.002	0	0	0	.	.	.	.	.	SOM GT:/0:26 0/1:60,64:3G	A
.	.	.	.	.	1,D	3.4	8.37.	.	SOM GT:/0:59 0/1:178,17 C	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:11 0/1:361,52 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:13 0/1:44,5:37T	G
.	.	.	.	.	.	2.8	.	.	SOM GT:/0:9,(0/1:25,6:37G	C
.	.	.	.	.	.	2.10.	.	.	SOM GT:/0:18 0/1:41,20:3C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:25 0/1:77,12:3G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:40 0/1:116,40 G	C
.	.	.	.	.	.	5.6	.	.	SOM GT:/0:70 0/1:245,30 C	T
.	.	.	0.4	1.0,D1.0,D1,N	.	.	.	.	SOM GT:/0:93 0/1:154,19 C	G
.	.	.	.	.	.	.	.	.	SOM GT:/0:22 0/1:68,9:34G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:24 0/1:46,11:3G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:8,(0/1:18,7:37C	T
.	.	.	.	.	.	.	0.	.	SOM GT:/0:17 0/1:54,5:37C	T
.	.	.	.	.	.	.	0	0	SOM GT:/0:10 0/1:28,5:34C	T
.	.	.	.	.	.	.	0	0	SOM GT:/0:11 0/1:36,5:31G	A
.	.	.	.	.	.	.	0	0	SOM GT:/0:14 0/1:45,5:37C	T
.	.	.	.	.	.	.	0.4	0.4	DB;SOM GT:/0:41 0/1:72,10:3C	T
.	.	0	0	.	.	2.1	.	.	SOM GT:/0:84 0/1:131,43 C	T
.	.	##	0	0.0,0.0,B 0.0,B 1.00	3	2.06	0.	.	SOM GT:/0:42 0/1:75,20:3G	A

									SOM GT:/0:10 0/1:21,3:37 G	A
					4	1.61			SOM GT:/0:21 0/1:31,10:3 G	A
			0.0	0.97	0.99	1,1,D	5.6	4.79	SOM GT:/0:57 0/1:113,29 C	G
								0	0 DB;SOM GT:/0:20 0/1:14,5:34 G	T
									SOM GT:/0:19 0/1:41,5:34 G	A
2E-04									SOM GT:/0:38 0/1:77,27:3 C	T
									SOM GT:/0:14 0/1:15,7:37 G	C
								0	0.1 SOM GT:/0:9,(0/1:22,3:37 C	A
									SOM GT:/0:18 0/1:35,11:3 C	T
									SOM GT:/0:28 0/1:50,13:3 G	A
0.108							1.30	0	0 SOM GT:/0:9,(0/1:11,3:33 A	T
			0.0	1.0,D	1.0,D	1,D	4.7	4.00	SOM GT:/0:17 0/1:265,68 G	C
								0	SOM GT:/0:11 0/1:21,4:37 A	G
							3.1		SOM GT:/0:26 0/1:33,7:18 T	G
									SOM GT:/0:10 0/1:34,5:37 T	C
								0	0 SOM GT:/0:10 0/1:18,3:37 G	C
			0.5	0.003	0.001	1,D	5.8		SOM GT:/0:17 0/1:322,15 G	A
									SOM GT:/0:10 0/1:21,3:37 C	T
									SOM GT:/0:14 0/1:26,13:3 G	A
									SOM GT:/0:14 0/1:22,8:12 A	C
									SOM GT:/0:14 0/1:38,7:37 G	A
							2.5		SOM GT:/0:11 0/1:20,5:37 T	A
									SOM GT:/0:11 0/1:13,6:37 C	T
									SOM GT:/0:29 0/1:48,8:37 G	C
								0	0 SOM GT:/0:22 0/1:49,15:3 C	T
									SOM GT:/0:26 0/1:43,14:3 C	T
						1,A	7.72		SOM GT:/0:37 0/1:58,14:3 C	T
			0.0	0.992	1.0,D	1,D	5.8	5.12	SOM GT:/0:69 0/1:110,28 C	T
							2.1	1.99	SOM GT:/0:35 0/1:36,12:3 C	A
							2.08		SOM GT:/0:12 0/1:21,6:30 C	A
									SOM GT:/0:40 0/1:70,15:3 A	C
									SOM GT:/0:24 0/1:45,12:3 C	T
									SOM GT:/0:10 0/1:23,3:37 G	C
									SOM GT:/0:31 0/1:63,4:37 G	A
1E-03							1.83	0	SOM GT:/0:12 0/1:35,3:37 G	A
							3.63		SOM GT:/0:83 0/1:80,26:3 C	T
							3.2		SOM GT:/0:13 0/1:209,7:3 G	C
		##	0.4	0.474	0.986	1.00	5.9	2.50	SOM GT:/0:31 0/1:64,5:37 C	G
									SOM GT:/0:12 0/1:37,5:37 C	G
			0.0	0.045	0.088	0.99	5.6	2.43	SOM GT:/0:68 0/1:114,21 C	G
		##	0				5.2	1.69	SOM GT:/0:24 0/1:411,94 G	A
			0.2	0.007	0.017	1,N			SOM GT:/0:76 0/1:130,30 C	T
			0.0	0.106	0.358	1,N			SOM GT:/0:92 0/1:170,45 C	G
									SOM GT:/0:12 0/1:14,5:37 C	T
							4		SOM GT:/0:49 0/1:97,12:3 G	C
									SOM GT:/0:15 0/1:31,10:3 G	C
									SOM GT:/0:34 0/1:63,9:37 G	A
									SOM GT:/0:15 0/1:33,9:35 G	A
									SOM GT:/0:12 0/1:237,42 G	A
			0.0	0.794	0.988	1.00	3.8	3.27	SOM GT:/0:97 0/1:156,49 C	T
2E-04		0	0						SOM GT:/0:59 0/1:115,7:3 C	T
							2.4	1.28	SOM GT:/0:18 0/1:332,10 C	T
									SOM GT:/0:13 0/1:286,10 C	T
									SOM GT:/0:37 0/1:50,18:3 C	A

									SOM GT:/0:24 0/1:35,8:17T	G	
	##						4.09	0	SOM GT:/0:13 0/1:23,8:17A	C	
2E-04	##	0	0.0	0.82E	0.997	1.00	5.4	3.50	0	SOM GT:/0:14 0/1:195,46 C	T
0.003	0	0	0	0.0	0.0,B	0.0,B	1,N			SOM GT:/0:42 0/1:74,15:G	A
										SOM GT:/0:48 0/1:103,5:G	G
										SOM GT:/0:15 0/1:27,8:37C	T
	##	0					1.60			SOM GT:/0:21 0/1:36,6:37C	T
			0.0	0.99E	1.0,D	1.00	6.2	5.48		SOM GT:/0:70 0/1:131,26 C	T
8E-04										SOM GT:/0:8,(0/1:7,3:37: G	A
										SOM GT:/0:98 0/1:146,39 G	C
	0	##	0							SOM GT:/0:57 0/1:80,23:G	A
										SOM GT:/0:59 0/1:97,21:G	T
										SOM GT:/0:26 0/1:32,4:37G	T
										SOM GT:/0:14 0/1:19,7:37C	T
0.008	0	0	0						0	SOM GT:/0:50 0/1:70,22:G	T
										SOM GT:/0:21 0/1:20,5:34G	A
										SOM GT:/0:69 0/1:48,5:34C	G
										SOM GT:/0:24 0/1:43,4:37A	T
										SOM GT:/0:25 0/1:37,3:37T	C
									0	0 SOM GT:/0:10 0/1:24,5:34T	C
0.359									0.1	0.4 SOM GT:/0:8,(0/1:2,3:37: C	T
										SOM GT:/0:34 0/1:12,3:2G	A
									0	SOM GT:/0:20 0/1:31,6:37G	C
	##	0					2.1		0	SOM GT:/0:11 0/1:164,6:G	C
									0	SOM GT:/0:12 0/1:35,10:1A	C
			0.1		0.51	2.6				SOM GT:/0:68 0/1:104,26 G	T
									0	0 SOM GT:/0:13 0/1:32,4:37A	G
	##	0	0							SOM GT:/0:14 0/1:191,49 G	A
2E-04	##	0	0.0	0.73E	0.974	0.77	4.5	4.43		SOM GT:/0:75 0/1:164,8:G	A
			0.4	0.044	0.014	1,D	5.9	2.69		SOM GT:/0:59 0/1:113,7:G	C
							3.9			SOM GT:/0:48 0/1:81,16:G	T
										SOM GT:/0:41 0/1:68,16:G	T
										SOM GT:/0:64 0/1:93,21:G	C
									0	0 SOM GT:/0:9,(0/1:19,3:37G	T
										SOM GT:/0:48 0/1:84,8:37G	A
										SOM GT:/0:16 0/1:16,3:37C	T
										SOM GT:/0:60 0/1:66,15:G	A
										SOM GT:/0:36 0/1:41,3:37A	G
										SOM GT:/0:19 0/1:20,5:37G	A
		0	0	0.0	0.781	0.982	1,D	5.8	3.58	SOM GT:/0:36 0/1:50,15:G	T
				0.3	0.42,	0.961	1,N	4.9	3.65	SOM GT:/0:11 0/1:181,7:G	A
	0	##	0	0.1	0.021	0.17E	0.99	3.2		SOM GT:/0:51 0/1:76,24:G	A
										SOM GT:/0:29 0/1:37,11:G	T
							2.8			SOM GT:/0:35 0/1:51,18:G	A
										SOM GT:/0:39 0/1:54,4:37T	A
									0	0 SOM GT:/0:38 0/1:53,9:37G	A
										SOM GT:/0:15 0/1:26,7:37G	A
										SOM GT:/0:11 0/1:10,3:2E	A
										SOM GT:/0:31 0/1:56,16:G	C
										SOM GT:/0:85 0/1:127,28 G	A
				0.1	0.721	0.972	1.00	2.2	3.43	SOM GT:/0:32 0/1:52,18:G	T
										SOM GT:/0:25 0/1:22,7:3E	A
				0.1	0.98E	0.991	1,D	4.8	2.47	SOM GT:/0:56 0/1:73,25:G	C
										SOM GT:/0:12 0/1:22,7:37G	C

.	.	.	.	.	.	.	.	.	SOM GT:/0:25 0/1:50,13:3 G	A		
.	.	.	.	.	.	.	.	.	SOM GT:/0:26 0/1:31,8:37 C	T		
.	.	##	0	0.1	0.015	0.008	0.99	2.58	SOM GT:/0:17 0/1:30,6:37 C	T		
.	.	.	.	0.8	0.004	0.025	1,N	.	SOM GT:/0:46 0/1:93,4:37 C	T		
.	.	.	.	.	.	1,A	5.9	8.08	SOM GT:/0:46 0/1:61,9:37 G	C		
.	.	.	.	.	.	.	.	0	0.1	SOM GT:/0:10 0/1:14,5:37 T	C	
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:40 0/1:72,7:37 C	G	
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:26 0/1:30,3:37 G	C	
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:9,(0/1:12,5:37 G	A	
.	.	.	.	.	.	.	2.4	.	.	SOM GT:/0:11 0/1:21,9:37 C	G	
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:23,6:35 C	G	
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:54 0/1:95,30:3 T	G	
.	.	.	.	0.0	0.396	0.673	0.57	6	2.71	SOM GT:/0:22 0/1:48,11:3 G	C	
.	.	.	.	.	.	.	.	3	1.95	SOM GT:/0:20 0/1:36,11:3 C	T	
.	.	.	.	.	.	.	.	5.1	1.57	SOM GT:/0:65 0/1:110,32 C	T	
.	.	.	.	.	.	.	.	3	1.29	SOM GT:/0:98 0/1:123,30 G	A	
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:17 0/1:230,62 G	A	
.	.	##	0	.	.	.	.	2.08	.	SOM GT:/0:30 0/1:39,5:34 C	T	
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:24 0/1:60,4:37 C	A	
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:20 0/1:37,3:37 G	T	
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:24 0/1:40,12:3 C	T	
.	.	.	.	.	.	.	.	.	.	SOM GT:/0:78 0/1:105,20 C	T	
.	.	.	.	.	.	1,A	5.2	10.2	.	SOM GT:/0:32 0/1:54,19:3 C	A	
.	.	0	0	.	.	.	.	.	0	0	DB;SOM GT:/0:45 0/1:86,10:3 T	C
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:16,7:22 T	G
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:15 0/1:16,7:25 T	G
.	.	.	.	.	.	.	2	.	.	.	SOM GT:/0:29 0/1:29,5:34 G	T
.	.	##	##	0	.	.	.	.	.	.	SOM GT:/0:72 0/1:118,34 G	A
.	.	.	.	.	.	.	2.53	.	.	.	SOM GT:/0:14 0/1:23,6:32 G	A
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:48 0/1:77,15:3 G	C
.	.	##	0	0.0	0.542	0.996	1.00	4.8	4.62	.	SOM GT:/0:11 0/1:165,36 G	A
.	.	##	0	.	.	.	.	4.3	2.58	.	SOM GT:/0:68 0/1:123,20 G	A
.	.	.	.	.	.	.	.	.	.	0	SOM GT:/0:8,(0/1:16,3:37 C	T
.	.	.	.	.	.	.	.	.	.	0	SOM GT:/0:8,(0/1:15,4:37 A	G
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:12 0/1:20,3:37 C	G
.	.	.	.	.	.	.	.	1.39	.	.	SOM GT:/0:11 0/1:19,5:37 G	A
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:24 0/1:18,9:35 G	A
.	.	.	.	.	.	.	.	.	0.1	0.1	SOM GT:/0:21 0/1:36,3:37 A	G
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:93 0/1:128,45 G	A
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:26 0/1:47,4:37 C	G
.	.	.	.	0.0	0.991	1.0,D	1,D	5	4.63	.	SOM GT:/0:28 0/1:54,12:3 G	A
.	.	.	.	.	.	1,A	4.6	3.58	.	.	SOM GT:/0:71 0/1:118,32 C	T
.	.	.	.	0.0	0.154	0.463	.	2.3	4.08	.	SOM GT:/0:22 0/1:42,3:37 C	T
.	.	.	.	0.0	0.684	0.933	1,D	4.2	3.80	.	SOM GT:/0:77 0/1:122,13 A	G
.	.	.	.	.	.	.	2.2	.	.	.	SOM GT:/0:65 0/1:99,21:3 G	T
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:11 0/1:20,14:3 C	A
.	.	##	0	0.6	0.996	1.0,D	0.83	4	3.94	.	SOM GT:/0:77 0/1:125,26 C	T
.	.	.	.	.	.	.	2.32	.	.	.	SOM GT:/0:43 0/1:96,17:1 T	G
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:29 0/1:39,8:37 C	T
.	.	0	##	0	0.9	0.001	0.016	0.98	3.8	.	SOM GT:/0:53 0/1:87,21:3 C	T
.	.	.	.	.	.	.	1.36	.	.	.	SOM GT:/0:22 0/1:25,12:3 C	G
.	.	.	.	0.0	0.962	0.999	1,D	3.1	2.73	.	SOM GT:/0:14 0/1:238,53 C	G
.	.	.	.	.	.	.	3	1.80	.	.	SOM GT:/0:94 0/1:135,45 G	T
.	.	.	.	0.0	0.425	0.697	1,D	4	4.83	.	SOM GT:/0:33 0/1:46,13:3 G	A



					2.3				SOMGT:/0:24 0/1:40,12:3G	A
									SOMGT:/0:51 0/1:84,21:3C	T
		##	0						SOMGT:/0:93 0/1:196,11 C	T
				0.6	0.01	10.017	0.92	5.6 1.76	SOMGT:/0:28 0/1:55,5:37C	G
								3.4 3.20	SOMGT:/0:11 0/1:19,5:37G	A
								0 0	SOMGT:/0:82 0/1:125,7:3T	C
								0 0	SOMGT:/0:89 0/1:129,7:3C	T
								0 0	SOMGT:/0:15 0/1:38,3:33C	T
				0.3	0.98	1.0	D 1,D	6.2 5.79	SOMGT:/0:35 0/1:48,18:3C	T
								2.83	SOMGT:/0:79 0/1:117,32 C	G
									SOMGT:/0:47 0/1:66,16:3C	T
								2.7 1.91	SOMGT:/0:65 0/1:86,17:3C	T
0.104		##	0	0.0	0.99	1.0	D 1,D	4 3.20	SOMGT:/0:9,(0/1:17,3:33G	A
				0.0	0.13	0.347	1,N	2.37	SOMGT:/0:37 0/1:56,15:3G	A
									SOMGT:/0:17 0/1:23,16:3G	C
				0.0	0.59	1.0	96,1,N	3.9	SOMGT:/0:38 0/1:94,5:37C	G
				0.3	0.00	0.002	1,N	4.3	SOMGT:/0:15 0/1:227,60 C	T
								3.2	SOMGT:/0:15 0/1:47,13:3C	G
									SOMGT:/0:8,(0/1:19,4:37G	A
									SOMGT:/0:12 0/1:20,8:37C	T
								2.04	SOMGT:/0:18 0/1:29,12:3C	T
									SOMGT:/0:24 0/1:42,4:27T	G
				0.0			1,N		SOMGT:/0:36 0/1:81,6:37C	A
				0.0	0.99	1.0	D 1,D	6 4.89	SOMGT:/0:45 0/1:97,29:3G	C
									SOMGT:/0:10 0/1:6,2:37: C	T
									SOMGT:/0:43 0/1:76,21:3C	T
									SOMGT:/0:21 0/1:15,7:37G	A
		##	0						SOMGT:/0:47 0/1:91,6:30G	A
									SOMGT:/0:37 0/1:66,17:3G	A
									SOMGT:/0:45 0/1:51,10:3C	G
								2.7 2.30	SOMGT:/0:15 0/1:17,5:37A	C
				0.0	0.99	1.0	99,1.00	5.2 4.92	SOMGT:/0:25 0/1:36,8:37G	C
								1.00 3.6 1.82	SOMGT:/0:65 0/1:103,28 G	C
									SOMGT:/0:32 0/1:31,3:37C	A
				0	0			5.1 1.83	SOMGT:/0:99 0/1:145,51 G	T
									0 0.3 SOMGT:/0:8,(0/1:7,4:37: C	T
									SOMGT:/0:16 0/1:19,4:24A	C
								2.2	SOMGT:/0:53 0/1:87,16:3G	A
									SOMGT:/0:16 0/1:20,5:37G	A
									SOMGT:/0:16 0/1:28,5:37C	T
									SOMGT:/0:9,(0/1:19,5:37G	C
2E-04		0	0	0					SOMGT:/0:14 0/1:47,11:3C	T
									SOMGT:/0:23 0/1:45,3:37C	A
									SOMGT:/0:22 0/1:47,9:37C	A
									SOMGT:/0:41 0/1:75,18:3C	A
				0.0	0.57	0.99	4.066	4.2 3.13	SOMGT:/0:53 0/1:96,4:37G	A
									SOMGT:/0:14 0/1:233,12 C	T
									SOMGT:/0:39 0/1:44,15:3G	A
									SOMGT:/0:37 0/1:59,9:37G	C
									0 SOMGT:/0:67 0/1:93,19:3G	A
		##						1.75	SOMGT:/0:53 0/1:69,14:3G	A
									0 0 SOMGT:/0:14 0/1:33,7:20T	G
2E-04									SOMGT:/0:58 0/1:61,27:3G	A
									0 0.1 DB;SOMGT:/0:31 0/1:61,4:37G	A

										SOM GT:/0:20 0/1:33,3:37 C	T
										SOM GT:/0:9,(0/1:32,13:3 C	A
2E-04	##	0				4.2	1.36			SOM GT:/0:13 0/1:261,42 C	T
										SOM GT:/0:13 0/1:16,6:15 T	G
						1.97				SOM GT:/0:24 0/1:44,5:21 T	G
										SOM GT:/0:48 0/1:80,4:37 T	C
								0	0	SOM GT:/0:60 0/1:171,8:3 C	A
						1.94				SOM GT:/0:87 0/1:112,28 C	T
						3.36				SOM GT:/0:41 0/1:91,33:3 C	T
			0.0	0.973	1.0,D	1,D	5.8	4.85		SOM GT:/0:76 0/1:101,26 C	G
	##	0								SOM GT:/0:77 0/1:114,39 G	A
										SOM GT:/0:16 0/1:27,5:37 G	T
2E-04										SOM GT:/0:29 0/1:78,16:3 C	T
										SOM GT:/0:33 0/1:59,14:3 C	T
0.324								0	0	SOM GT:/0:9,(0/1:19,3:37 G	A
										SOM GT:/0:16 0/1:34,7:37 G	A
						3	1.84			SOM GT:/0:23 0/1:31,3:37 G	A
										SOM GT:/0:23 0/1:33,3:37 C	T
4E-04								0		SOM GT:/0:56 0/1:147,25 C	T
										SOM GT:/0:52 0/1:89,12:3 C	A
										SOM GT:/0:22 0/1:35,6:37 G	C
										SOM GT:/0:29 0/1:57,4:37 G	A
										SOM GT:/0:11 0/1:20,7:37 C	T
			0.0	0.996	0.999	1,D	4	4.10		SOM GT:/0:97 0/1:254,8:3 C	T
			0.0	0.037	0.214	1,N				SOM GT:/0:98 0/1:165,29 C	G
								0	0	DB;S GT:/0:22 0/1:35,4:34 T	C
										SOM GT:/0:27 0/1:85,12:3 C	T
			0.2	0.146	0.587	1,D	5.5	2.88		SOM GT:/0:55 0/1:115,22 C	G
										SOM GT:/0:10 0/1:22,4:37 C	G
								0		SOM GT:/0:14 0/1:38,6:37 C	T
	##	0	0.8	0.005	0.102	1,N		0		SOM GT:/0:31 0/1:65,12:3 C	T
	##	0		0.978	0.999	1,D	5.7	3.83		SOM GT:/0:89 0/1:144,35 G	A
										SOM GT:/0:28 0/1:51,15:3 C	T
										SOM GT:/0:44 0/1:58,10:3 G	A
						1,A	5.1	5.03		SOM GT:/0:67 0/1:88,6:37 G	A
			0.0	0.213	0.759	0.67	4.4	4.04		SOM GT:/0:57 0/1:120,7:3 C	T
										SOM GT:/0:21 0/1:24,13:3 G	A
0.021								0		SOM GT:/0:11 0/1:14,6:35 C	T
0.04	##	0						0	0	SOM GT:/0:10 0/1:6,2:37 T	C
	##	0	0.1	0.968	0.997	1.00	5.9	4.60		SOM GT:/0:46 0/1:83,22:3 C	T
										SOM GT:/0:45 0/1:65,22:3 G	A
										SOM GT:/0:8,(0/1:23,6:37 C	T
										SOM GT:/0:62 0/1:104,26 A	G
			0.1	0.974	0.999	1,D	5.8	5.29		SOM GT:/0:72 0/1:119,25 C	G
										SOM GT:/0:10 0/1:26,6:37 G	A
										SOM GT:/0:65 0/1:101,21 G	A
										SOM GT:/0:89 0/1:114,76 T	A
							2.1			SOM GT:/0:12 0/1:14,6:37 C	T
								0		DB;S GT:/0:32 0/1:60,6:37 A	C
	##	0								SOM GT:/0:11 0/1:28,4:34 C	G
			0.0	0.928	0.993	1,D	5.9	5.60		SOM GT:/0:67 0/1:96,27:3 C	T
			0.0	0.996	0.999	1,D	5	4.69		SOM GT:/0:88 0/1:156,47 C	G
							2.8	2.61		SOM GT:/0:10 0/1:17,9:37 T	A
								0.1		SOM GT:/0:22 0/1:31,6:37 A	G

										SOM GT:/0:27 0/1:47,7:37 G	A	
										SOM GT:/0:13 0/1:20,3:37 C	T	
		##	0							SOM GT:/0:12 0/1:204,59 C	T	
										SOM GT:/0:45 0/1:99,6:37 C	T	
			0.0	0.098	0.332	0.91		2.91		SOM GT:/0:42 0/1:58,14:3 C	G	
								4.3		SOM GT:/0:30 0/1:56,4:37 C	T	
			0.0	0.992	0.996	1.00	3.9	4.25		SOM GT:/0:52 0/1:88,17:3 A	G	
			0.7	0.106	0.652	1,N				SOM GT:/0:23 0/1:41,13:3 G	C	
2E-04										SOM GT:/0:23 0/1:42,17:3 G	A	
										SOM GT:/0:53 0/1:60,23:3 C	G	
										SOM GT:/0:70 0/1:104,27 G	C	
										SOM GT:/0:34 0/1:62,11:3 C	T	
										SOM GT:/0:13 0/1:228,26 G	A	
								0		SOM GT:/0:35 0/1:59,4:37 G	A	
										SOM GT:/0:26 0/1:33,8:35 C	T	
								2.06		SOM GT:/0:70 0/1:142,26 G	C	
								4.3	2.33	SOM GT:/0:10 0/1:19,5:37 G	A	
			0.0	0.634	0.991	1,D	4.8	2.26		SOM GT:/0:24 0/1:34,6:37 C	G	
								4.7		SOM GT:/0:17 0/1:28,5:34 C	A	
										SOM GT:/0:13 0/1:33,4:37 G	C	
										SOM GT:/0:16 0/1:25,4:37 G	T	
										SOM GT:/0:49 0/1:59,7:37 C	T	
								1.26		SOM GT:/0:10 0/1:142,43 G	A	
								4.3	3.84	SOM GT:/0:27 0/1:40,8:37 G	C	
								3.4	2.30	SOM GT:/0:50 0/1:72,21:3 G	A	
									0	SOM GT:/0:15 0/1:35,4:30 C	A	
			0.0	0.219	0.412	1,D	5.4	2.54		SOM GT:/0:73 0/1:136,8:3 G	C	
								2		SOM GT:/0:33 0/1:76,14:3 C	T	
								2.3		SOM GT:/0:24 0/1:37,10:3 G	A	
										SOM GT:/0:36 0/1:57,14:3 C	T	
								1.24		SOM GT:/0:45 0/1:87,26:3 C	T	
										SOM GT:/0:33 0/1:46,17:3 C	T	
								4.4	1.99	SOM GT:/0:17 0/1:338,10 C	G	
			0.0	0.003	0.012	0.99	6	2.11		SOM GT:/0:24 0/1:34,5:37 G	C	
			0.0	0.013	0.029	0.98	3.9	1.98		SOM GT:/0:24 0/1:35,5:34 G	T	
										SOM GT:/0:36 0/1:37,9:17 T	G	
										SOM GT:/0:11 0/1:178,27 G	C	
1E-03	0	0	0					2.4		SOM GT:/0:49 0/1:99,27:3 C	T	
								5.3	1.40	SOM GT:/0:11 0/1:151,47 C	T	
									0.1	0	SOM GT:/0:8,(0/1:15,3:37 A	G
											SOM GT:/0:19 0/1:30,6:37 G	C
											SOM GT:/0:11 0/1:212,8:3 G	A
			0.0	0.096	0.053	0.86	3.3	2.65		SOM GT:/0:42 0/1:73,17:3 C	G	
								2.3		SOM GT:/0:14 0/1:32,4:37 G	C	
			0.0			1,D	5.1	4.06		SOM GT:/0:30 0/1:62,12:3 C	G	
			1.0	0.002	0.001	1,D				SOM GT:/0:37 0/1:61,12:3 G	A	
									0	0	SOM GT:/0:20 0/1:39,3:37 C	T
											SOM GT:/0:11 0/1:14,3:29 G	T
			0.0			1,D	3.8	3.39		SOM GT:/0:85 0/1:150,27 C	T	
								2.3		SOM GT:/0:11 0/1:12,5:37 G	A	
											SOM GT:/0:13 0/1:38,3:37 C	T
											SOM GT:/0:34 0/1:50,7:37 C	T
								3.6		SOM GT:/0:38 0/1:67,19:3 G	A	
											SOM GT:/0:29 0/1:44,11:3 A	G

									SOM GT:/0:18 0/1:28,5:37 C	T		
									SOM GT:/0:59 0/1:83,22:3 G	A		
									SOM GT:/0:12 0/1:16,11:3 G	C		
									SOM GT:/0:38 0/1:71,19:3 G	T		
6E-04	0	0	0						SOM GT:/0:50 0/1:70,17:3 G	A		
0.023								0 0.1	SOM GT:/0:9,(0/1:10,3:37 A	T		
						1,A	5.18.		SOM GT:/0:58 0/1:109,5:3 G	T		
									SOM GT:/0:36 0/1:66,5:37 G	A		
							1.54.		SOM GT:/0:13 0/1:22,8:37 C	T		
									SOM GT:/0:13 0/1:25,8:37 G	C		
									SOM GT:/0:8,(0/1:10,3:28 G	A		
									SOM GT:/0:69 0/1:104,27 T	A		
									SOM GT:/0:9,(0/1:5,2:37: A	G		
									SOM GT:/0:13 0/1:20,3:37 G	C		
									SOM GT:/0:39 0/1:65,22:3 C	G		
						1,A	2.1 49.9.		SOM GT:/0:95 0/1:157,29 G	T		
						0.0	0.206 0.376 1,N		SOM GT:/0:89 0/1:154,26 G	A		
									SOM GT:/0:62 0/1:86,35:3 G	A		
						##	0 0.0,0.609 0.7,P 1,N	1.70.	SOM GT:/0:10 0/1:167,42 G	A		
									SOM GT:/0:57 0/1:81,17:3 C	T		
							0.0	0.999 1.0,D 0.82.	2.14.	SOM GT:/0:89 0/1:163,39 G	C	
									2.25.	SOM GT:/0:90 0/1:147,42 G	A	
									1.68.	SOM GT:/0:71 0/1:82,29:3 G	T	
							0.1	0.682 0.958 1,N		SOM GT:/0:31 0/1:70,15:3 C	G	
						0	0 0.1	0.006 0.013 1,N		SOM GT:/0:44 0/1:97,15:3 G	A	
										SOM GT:/0:9,(0/1:9,3:37: G	A	
										SOM GT:/0:97 0/1:154,44 A	T	
							0.007	0.015 1,N		SOM GT:/0:18 0/1:323,67 C	T	
										SOM GT:/0:10 0/1:194,51 G	A	
										SOM GT:/0:39 0/1:53,11:3 C	G	
							0.0	0.975 0.998 0.99	6 4.03.	SOM GT:/0:70 0/1:129,26 G	A	
									3.43.	SOM GT:/0:41 0/1:71,9:37 G	C	
										SOM GT:/0:11 0/1:24,3:37 T	G	
										SOM GT:/0:11 0/1:25,3:37 T	C	
						##	0 .	0.708 0.999 1,D		SOM GT:/0:12 0/1:251,47 C	T	
										SOM GT:/0:32 0/1:47,9:37 C	T	
										3.20.	SOM GT:/0:12 0/1:13,3:37 G	A
4E-04									0 0	SOM GT:/0:11 0/1:164,65 C	T	
										5.4 1.35.	SOM GT:/0:50 0/1:82,18:3 G	C
1E-03											SOM GT:/0:68 0/1:77,29:3 C	T
									0.	SOM GT:/0:33 0/1:55,15:3 G	A	
											SOM GT:/0:8,(0/1:14,3:37 G	C
0.002	0	0	0						0	DB;GT:/0:52 0/1:78,22:3 G	A	
							0.5	0.023 0.089 1,N	2.3 .	SOM GT:/0:11 0/1:200,52 C	G	
											SOM GT:/0:35 0/1:40,13:3 G	T
											SOM GT:/0:13 0/1:34,5:37 C	A
											SOM GT:/0:79 0/1:103,30 G	A
									0.	SOM GT:/0:8,(0/1:19,3:37 T	G	
											SOM GT:/0:34 0/1:29,13:3 G	A
							0.4	0.353 0.824 1,N	3.2 .	SOM GT:/0:55 0/1:96,17:3 G	C	
							0.0	0.993 1.0,D 0.99 .	1.34 .	SOM GT:/0:49 0/1:84,14:3 G	C	
							0.0	0.006 0.026 1.00 .		SOM GT:/0:44 0/1:75,14:3 G	C	
											SOM GT:/0:10 0/1:24,9:37 C	T
											SOM GT:/0:20 0/1:27,4:24 T	G

										SOM GT:/0:14 0/1:26,10:3 G	A
										SOM GT:/0:80 0/1:139,28 G	A
										SOM GT:/0:23 0/1:58,10:3 C	G
										SOM GT:/0:32 0/1:81,5:37 C	G
										SOM GT:/0:32 0/1:73,21:3 G	A
										SOM GT:/0:21 0/1:52,9:37 C	G
6E-04										DB;SOM GT:/0:22 0/1:59,6:32 G	A
										SOM GT:/0:30 0/1:33,13:3 C	T
										SOM GT:/0:91 0/1:183,43 C	G
2E-04	##	##								SOM GT:/0:63 0/1:96,24:3 C	T
										SOM GT:/0:64 0/1:97,21:3 C	T
										SOM GT:/0:20 0/1:56,5:37 C	T
										SOM GT:/0:23 0/1:536,30 C	T
										SOM GT:/0:15 0/1:15,3:28 G	T
										SOM GT:/0:42 0/1:79,16:3 G	A
										SOM GT:/0:11 0/1:17,3:37 G	A
										SOM GT:/0:11 0/1:17,3:37 C	T
										DB;SOM GT:/0:22 0/1:22,5:37 A	C
										SOM GT:/0:23 0/1:54,7:37 T	G
										SOM GT:/0:15 0/1:30,9:37 G	A
										DB;SOM GT:/0:54 0/1:150,6:3 C	T
										SOM GT:/0:9,(0/1:12,3:28 C	A
										SOM GT:/0:38 0/1:40,12:3 T	C
										SOM GT:/0:32 0/1:26,9:34 G	A
										SOM GT:/0:75 0/1:111,20 G	A
										DB;SOM GT:/0:87 0/1:69,62:3 G	C
										DB;SOM GT:/0:32 0/1:45,6:37 G	A
										SOM GT:/0:42 0/1:46,15:3 C	G
										SOM GT:/0:70 0/1:122,11 C	T
										SOM GT:/0:13 0/1:28,6:35 T	A
										SOM GT:/0:11 0/1:28,4:37 G	C
										SOM GT:/0:8,(0/1:12,4:37 G	T
0.04	0	0								DB;SOM GT:/0:60 0/1:105,5:3 C	T
										SOM GT:/0:30 0/1:28,7:37 G	A
0.148										SOM GT:/0:8,(0/1:7,3:37 C	G
										SOM GT:/0:14 0/1:31,11:3 G	C
0.03										SOM GT:/0:11 0/1:47,3:37 C	T
										SOM GT:/0:32 0/1:39,9:37 C	G
										SOM GT:/0:12 0/1:181,61 G	A
										SOM GT:/0:17 0/1:28,9:32 G	T
	##	0								SOM GT:/0:12 0/1:151,41 G	A
										SOM GT:/0:14 0/1:15,17:3 G	C
										SOM GT:/0:70 0/1:159,7:3 G	C
	##	##								SOM GT:/0:46 0/1:79,4:37 C	T
										SOM GT:/0:11 0/1:190,52 G	C
	##	##	0							SOM GT:/0:88 0/1:131,45 G	A
										SOM GT:/0:30 0/1:37,13:3 C	G
										SOM GT:/0:16 0/1:274,68 C	T
										SOM GT:/0:9,(0/1:15,8:37 G	A
	##	0								SOM GT:/0:12 0/1:159,30 G	A
										SOM GT:/0:16 0/1:26,3:37 C	T
										SOM GT:/0:9,(0/1:3,2:37 G	A
	##	0								SOM GT:/0:13 0/1:21,5:37 T	C
										SOM GT:/0:19 0/1:13,4:37 G	A

			0.0	0.005	0.005	1,N	3.9			SOM	GT:/0:47	0/1:88,27:3	C	G	
						1,D	5.6	5.60			SOM	GT:/0:67	0/1:117,8:3	C	A
											SOM	GT:/0:27	0/1:54,13:3	G	T
			0.0	0.185	0.645	1,D	5.9	4.00			SOM	GT:/0:60	0/1:73,16:3	G	A
											SOM	GT:/0:53	0/1:72,18:3	G	A
											SOM	GT:/0:20	0/1:33,9:37	G	A
							2.04				SOM	GT:/0:32	0/1:41,12:3	C	G
							5.1	1.74			SOM	GT:/0:64	0/1:84,15:3	G	A
							2.6	2.43			SOM	GT:/0:34	0/1:62,21:3	A	G
											SOM	GT:/0:53	0/1:102,37	G	A
											SOM	GT:/0:32	0/1:66,18:3	C	T
									0	0	SOM	GT:/0:14	0/1:24,4:37	T	C
						1,A	4.7	9.66			SOM	GT:/0:62	0/1:108,29	C	G
						1,A	4.4	6.48			SOM	GT:/0:48	0/1:75,21:3	G	A
											SOM	GT:/0:23	0/1:47,8:37	C	G
											SOM	GT:/0:48	0/1:57,17:3	G	A
						1,A	5.2	5.59			SOM	GT:/0:38	0/1:63,22:3	C	T
			0.0	0.771	0.935	1,N		1.24			SOM	GT:/0:22	0/1:47,11:3	G	C
			0.0	0.577	0.879	1.00	4.9	3.19			SOM	GT:/0:74	0/1:98,23:3	G	A
											SOM	GT:/0:24	0/1:26,14:3	G	A
			0.4	0.002	0.001	1.00	4.3	1.36			SOM	GT:/0:78	0/1:144,35	C	T
			0.2	0.002	0.008	0.79	4.1				SOM	GT:/0:20	0/1:59,9:37	G	A
			0	0	0.6	0.86,	0.998	0.83	4.1		SOM	GT:/0:63	0/1:98,25:3	G	A
										0	SOM	GT:/0:15	0/1:23,8:14	A	C
										0	0	SOM	GT:/0/1:0:11,0:..11	T	C
										0	0	SOM	GT:/0/1:0:13,0:..13	G	A
										0	0	SOM	GT:/0/1:0:17,0:..17	C	T
											SOM	GT:/0/1:0:19,0:..19	G	T	
											SOM	GT:/0/1:0:24,0:..24	G	A	
										0	SOM	GT:/0/1:0:20,0:..20	A	C	
									0.1	0.4	DB;S	GT:/0/1:0:31,0:..31	C	T	
0.001										0	SOM	GT:/0/1:0:40,1:..41	T	C	
										0	0.1	SOM	GT:/0/1:0:15,0:..10	C	A
										0.3	0.4	DB;S	GT:/0/1:0:20,0:..20	C	G
0.005										0	0	SOM	GT:/0/1:0:10,0:..10	G	A
			0	0	0.0	1.0,D	1.0,D	1.00	4.5	3.37		DB;S	GT:/0/1:0:46,1:..47	G	C
										0	SOM	GT:/0/1:0:45,1:..46	A	C	
			##	0							SOM	GT:/0/1:0:93,0:..93	C	T	
			##	0	0.0	0.983	1.0,D	1.00	4.8	3.42		SOM	GT:/0/1:0:70,1:..71	C	T
										0	0	SOM	GT:/0/1:0:8,0:..9:0	C	T
											SOM	GT:/0/1:0:45,1:..46	G	C	
									0.3	0.5	DB;S	GT:/0/1:0:19,0:..17	T	C	
									0.3	0.4	SOM	GT:/0/1:0:17,0:..15	A	C	
										0	0.1	SOM	GT:/0/1:0:8,0:..9:0	T	A
										0	0	SOM	GT:/0/1:0:26,0:..26	C	A
										0	0	SOM	GT:/0/1:0:9,0:..7:0	C	A
											SOM	GT:/0/1:0:53,1:..47	T	A	
										0	SOM	GT:/0/1:0:28,0:..28	A	T	
										0	SOM	GT:/0/1:0:45,0:..44	C	G	
										0	SOM	GT:/0/1:0:10,0:..10	G	A	
										0	SOM	GT:/0/1:0:8,0:..8:0	T	A	
											SOM	GT:/0/1:0:43,0:..40	G	T	
										0	SOM	GT:/0/1:0:8,0:..6:0	G	C	
										0	0	SOM	GT:/0/1:0:11,0:..11	G	A

								0	0	SOMGT:/0/1:/0:12,0::12	G	A
								0		SOMGT:/0/1:/0:43,0::43	T	G
0.351								0	0.2	SOMGT:/0/1:/0:12,0::7:C	T	A
								0	0	SOMGT:/0/1:/0:10,0::9:C	T	C
								0	0	SOMGT:/0/1:/0:10,0::9:C	A	G
										SOMGT:/0/1:/0:23,0::23	A	C
								0	0.1	SOMGT:/0/1:/0:15,0::16	T	C
0.052								0.2	0.5	SOMGT:/0/1:/0:9,0::9:0:A	A	C
										SOMGT:/0/1:/0:52,0::22	G	C
										SOMGT:/0/1:/0:8,0::6:0:A	A	A
										SOMGT:/0/1:/0:69,1::68	G	T
		0	0	0.0	0.1070,4311,N	4.8	2.17	0.1		SOMGT:/0/1:/0:9,0::9:0:A	A	A
								0		SOMGT:/0/1:/0:33,1::33	G	A
								0	0	SOMGT:/0/1:/0:37,0::37	A	G
										SOMGT:/0/1:/0:52,1::52	G	T
								0		SOMGT:/0/1:/0:14,1::10	A	G
										SOMGT:/0/1:/0:70,0::70	C	T
										SOMGT:/0/1:/0:10,0::10	T	C
										SOMGT:/0/1:/0:25,0::25	A	T
0.002								0	0	SOMGT:/0/1:/0:8,0::8:0:A	A	T
							3.9		0	SOMGT:/0/1:/0:12,0::12	C	G
							1.88		0	SOMGT:/0/1:/0:20,0::20	T	G
							2.5			SOMGT:/0/1:/0:25,0::25	G	A
								0		SOMGT:/0/1:/0:24,0::24	T	G
								0		SOMGT:/0/1:/0:23,0::23	T	G
								0	0.2	SOMGT:/0/1:/0:14,0::14	G	A
								0	0.1	SOMGT:/0/1:/0:10,0::11	A	G
										SOMGT:/0/1:/0:34,0::33	A	G
										SOMGT:/0/1:/0:57,1::59	C	T
4E-04	0	0	0					0		SOMGT:/0/1:/0:27,0::27	G	A
										SOMGT:/0/1:/0:32,0::32	G	A
								0	0	SOMGT:/0/1:/0:23,0::20	C	T
0.477								0.1	0.4	SOMGT:/0/1:/0:9,0::7:0:A	A	T
								0		SOMGT:/0/1:/0:20,0::20	T	C
								0		SOMGT:/0/1:/0:59,1::60	G	A
								0		SOMGT:/0/1:/0:18,0::18	A	C
										SOMGT:/0/1:/0:15,0::15	A	G
				0.110,127	0.05,10.69		1.65			SOMGT:/0/1:/0:74,0::74	C	A
										SOMGT:/0/1:/0:45,0::45	C	A
	##	##	0				2.1			SOMGT:/0/1:/0:75,0::75	T	C
								0		SOMGT:/0/1:/0:35,0::35	C	G
								0	0	DB;SOMGT:/0/1:/0:59,1::59	A	G
								0		DB;SOMGT:/0/1:/0:43,1::35	G	T
		##	0							SOMGT:/0/1:/0:77,0::77	C	T
										SOMGT:/0/1:/0:24,0::24	A	C
								0		SOMGT:/0/1:/0:9,0::9:0:A	A	A
										SOMGT:/0/1:/0:8,0::6:0:A	A	G
								0		SOMGT:/0/1:/0:20,1::21	A	C
								0	0	SOMGT:/0/1:/0:12,0::9:C	T	A
										SOMGT:/0/1:/0:8,0::8:0:A	A	G
										SOMGT:/0/1:/0:46,0::45	C	G
										SOMGT:/0/1:/0:27,0::27	C	G
										SOMGT:/0/1:/0:18,0::5:C	C	G
										SOMGT:/0/1:/0:10,0::9:C	C	A

.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:20,0::13 G	T
.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:23,0::13 C	T
.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:23,0::23 A	C
.	.	.	.	.	.	.	.	.	DB;GT:/0/1:0:39,0::14 C	A
.	.	.	.	.	.	.	.	0.	DB;GT:/0/1:0:22,0::14 A	C
.	.	.	.	.	.	.	.	0 0.4	SOMGT:/0/1:0:8,0::4:0: G	T
.	.	.	.	.	.	.	.	0.	SOMGT:/0/1:0:9,0::7:0: G	A
.	.	.	.	.	.	.	.	0 0	DB;GT:/0/1:0:23,0::22 C	T
.	.	.	.	.	.	.	.	0.	SOMGT:/0/1:0:9,0::4:0: G	A
.	.	.	.	.	.	.	.	0 0.1	SOMGT:/0/1:0:14,0::14 C	G
.	.	.	.	.	.	.	4.2 3.16.	.	SOMGT:/0/1:0:87,1::71 T	C
.	.	.	.	.	.	.	.	0.2 0.3	SOMGT:/0/1:0:24,0::24 A	C
.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:25,0::25 T	G
.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:34,0::27 T	G
.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:18,0::7:0: G	A
.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:20,0::12 A	G
.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:50,0::19 C	G
.	.	.	.	.	.	.	.	0.	SOMGT:/0/1:0:37,1::23 G	C
.	.	.	.	.	.	.	.	0.	SOMGT:/0/1:0:9,0::9:0: C	T
.	.	.	0.0 0.998 0.999 1.00	4.8	4.21.	.	.	.	DB;GT:/0/1:0:88,0::88 G	A
.	.	0	0.	.	.	.	.	0 0	SOMGT:/0/1:0:14,1::15 T	G
.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:18,1::19 G	A
.	.	0	0.	.	.	.	.	0 0	DB;GT:/0/1:0:48,1::46 A	C
.	.	.	.	.	.	.	.	0.1 0.2	DB;GT:/0/1:0:38,1::39 G	A
.	.	.	.	.	.	.	.	0 0.1	SOMGT:/0/1:0:8,0::8:0: T	C
.	.	.	.	.	.	.	.	0 0	SOMGT:/0/1:0:57,0::57 T	C
.	.	.	.	.	.	.	1.65	0.	SOMGT:/0/1:0:26,1::27 C	G
.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:37,0::37 T	G
.	.	.	.	.	.	.	.	0 0	SOMGT:/0/1:0:8,0::7:0: C	T
.	.	.	.	.	.	.	.	0 0.2	SOMGT:/0/1:0:8,0::8:0: T	C
.	.	.	.	.	.	.	.	0.	SOMGT:/0/1:0:16,0::16 G	T
.	.	.	.	.	.	.	.	0.	SOMGT:/0/1:0:13,0::13 T	C
.	.	.	.	.	.	.	2.5.	.	SOMGT:/0/1:0:50,1::51 T	C
.	.	.	.	.	.	.	.	0 0.1	SOMGT:/0/1:0:12,0::12 A	G
1E-03	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:11,0::11 G	A
6E-04	0	0	0.	.	.	.	2.28.	.	SOMGT:/0/1:0:38,0::38 G	A
.	.	.	.	.	.	.	.	0 0.1	SOMGT:/0/1:0:12,0::12 T	C
0.433	1	1.	.	.	.	.	.	0.1 0.5	SOMGT:/0/1:0:41,0::29 C	G
.	.	.	.	.	.	.	.	0.	SOMGT:/0/1:0:23,0::23 T	C
.	.	.	.	.	.	.	.	0.	SOMGT:/0/1:0:24,0::24 G	A
.	.	.	.	.	.	.	.	0.	SOMGT:/0/1:0:8,0::8:0: C	T
.	.	.	.	.	.	.	.	0 0	SOMGT:/0/1:0:20,0::20 T	C
.	.	.	0.0 0.037 0.053 1,D	5.1	3.04.	.	.	.	DB;GT:/0/1:0:39,0::39 G	T
4E-04	.	.	.	.	.	.	.	0 0	SOMGT:/0/1:0:10,0::10 G	A
.	.	.	.	.	.	.	4.2 2.69	0.	SOMGT:/0/1:0:67,1::68 G	A
.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:36,0::36 T	G
.	.	.	.	.	.	.	.	0.	SOMGT:/0/1:0:12,0::12 T	C
.	.	.	0.0 0.26 0.612 1,D	4.6	3.17.	.	.	.	SOMGT:/0/1:0:70,1::71 T	C
.	.	.	.	.	.	.	3.9 1.70	0 0	SOMGT:/0/1:0:40,1::41 C	T
.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:30,0::30 C	T
4E-04	##	##	0.	.	.	.	.	.	SOMGT:/0/1:0:176,1::1 G	A
.	.	.	.	.	.	.	.	0 0	DB;GT:/0/1:0:49,1::50 T	C
.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:8,0::4:0: C	T
.	.	.	.	.	.	.	.	0 0	SOMGT:/0/1:0:10,0::9:0: C	T



					0	0	SOM	GT:/0/1:20:10,0::9:(	C					
								SOM	GT:/0/1:0:19,0::9:(	G				
			0.5	0.55	0.99	1,D	3.9	2.76		SOM	GT:/0/1:0:92,0::92	G		
										SOM	GT:/0/1:0:20,0::22	A		
										SOM	GT:/0/1:0:29,0::29	C		
0.258										SOM	GT:/0/1:0:9,0::9:0	C		
										SOM	GT:/0/1:0:22,0::14	C		
										SOM	GT:/0/1:0:27,1::28	A		
										SOM	GT:/0/1:0:75,1::72	G		
0.192										DB;S	GT:/0/1:0:38,0::38	T		
0.485									0.1	0.1	DB;S	GT:/0/1:0:41,0::41	T	
											SOM	GT:/0/1:0:38,0::25	G	
											SOM	GT:/0/1:0:11,0::6:(	G	
0.324											SOM	GT:/0/1:0:11,0::11	G	
							2.1				SOM	GT:/0/1:0:39,0::39	A	
								2.12			SOM	GT:/0/1:0:44,1::45	T	
			0.0		0.99		1.82				SOM	GT:/0/1:0:20,0::13	C	
0.327										0	0.5	SOM	GT:/0/1:0:12,0::12	T
												SOM	GT:/0/1:0:10,0::10	C
8E-04												DB;S	GT:/0/1:0:34,1::35	T
										0	0	SOM	GT:/0/1:0:13,0::14	G
												SOM	GT:/0/1:0:8,0::8:0	C
												SOM	GT:/0/1:0:11,0::9:(	C
4E-04												SOM	GT:/0/1:0:12,0::7:(	T
			0	0								SOM	GT:/0/1:0:18,0::18	T
												SOM	GT:/0/1:0:16,0::16	A
												DB;S	GT:/0/1:0:54,0::53	C
												DB;S	GT:/0/1:0:58,1::58	G
												SOM	GT:/0/1:0:20,0::15	G
												SOM	GT:/0/1:0:18,0::10	A
												SOM	GT:/0/1:0:30,0::25	A
												DB;S	GT:/0/1:0:35,1::29	A
												DB;S	GT:/0/1:0:46,1::47	G
										0	0.1	DB;S	GT:/0/1:0:35,0::32	T
										0	0.2	DB;S	GT:/0/1:0:35,1::32	C
										0	0	DB;S	GT:/0/1:0:30,0::16	A
												DB;S	GT:/0/1:0:27,0::12	G
												DB;S	GT:/0/1:0:33,1::21	G
												DB;S	GT:/0/1:0:46,1::42	T
												SOM	GT:/0/1:0:39,0::23	C
												DB;S	GT:/0/1:0:50,0::40	G
												SOM	GT:/0/1:0:11,0::2:(	C
												SOM	GT:/0/1:0:9,0::8:0	G
												SOM	GT:/0/1:0:48,1::49	G
												SOM	GT:/0/1:0:38,1::39	T
												DB;S	GT:/0/1:0:38,1::40	G
												SOM	GT:/0/1:0:34,0::29	G
												SOM	GT:/0/1:0:10,0::7:(	T
												SOM	GT:/0/1:0:13,0::12	T
												SOM	GT:/0/1:0:9,0::8:0	G
												SOM	GT:/0/1:0:13,0::12	C
			##	0								SOM	GT:/0/1:0:46,0::46	G
												SOM	GT:/0/1:0:28,0::24	G
												SOM	GT:/0/1:0:23,0::23	A

					0.	SOMGT:/0/1:0:62,0::50 C	G
						SOMGT:/0/1:0:67,1::53 A	T
		0 0.				SOMGT:/0/1:0:27,0::28 G	A
						SOMGT:/0/1:0:27,0::27 A	C
				2.1		DB;SOMGT:/0/1:0:44,1::45 T	A
					0 0	SOMGT:/0/1:0:10,0::10 G	T
					0.	SOMGT:/0/1:0:17,0::17 G	A
					0.	SOMGT:/0/1:0:16,0::16 C	A
					0.	SOMGT:/0/1:0:13,1::14 T	A
		0 0.			0 0	SOMGT:/0/1:0:49,1::50 A	G
		0 0.		1.77	0 0	DB;SOMGT:/0/1:0:37,1::38 C	T
		0 0.			0 0	DB;SOMGT:/0/1:0:27,1::28 G	A
		0 0.			0 0	SOMGT:/0/1:0:38,0::33 G	A
		0 0.				SOMGT:/0/1:0:58,1::59 C	T
					0.3 0.4	DB;SOMGT:/0/1:0:23,0::23 A	G
					0 0	DB;SOMGT:/0/1:0:43,0::42 T	C
					0.1 0.2	SOMGT:/0/1:0:11,0::6:0 G	A
						SOMGT:/0/1:0:9,0::5:0 A	T
					0 0	SOMGT:/0/1:0:8,0::6:0 A	G
						SOMGT:/0/1:0:39,1::35 T	G
					0 0	DB;SOMGT:/0/1:0:33,0::33 C	T
0.24					0 0.1	SOMGT:/0/1:0:8,0::8:0 G	T
					0 0	DB;SOMGT:/0/1:0:33,0::31 C	T
					0 0	DB;SOMGT:/0/1:0:22,0::22 T	C
0.458					0.1 0.3	DB;SOMGT:/0/1:0:36,0::36 C	T
					0 0	SOMGT:/0/1:0:35,0::35 C	A
						SOMGT:/0/1:0:24,0::24 G	A
				3.1 1.73		SOMGT:/0/1:0:39,1::40 C	T
						SOMGT:/0/1:0:51,0::46 G	C
						SOMGT:/0/1:0:39,0::27 C	T
						SOMGT:/0/1:0:38,1::27 T	C
					0.	SOMGT:/0/1:0:35,0::26 A	G
						SOMGT:/0/1:0:15,0::10 A	C
		0.2 0.0,B 0.0,B 1.00	5.3			SOMGT:/0/1:0:38,1::39 C	T
						SOMGT:/0/1:0:23,1::24 T	A
		0.1 0.0020.0011,N				SOMGT:/0/1:0:71,0::71 G	A
					0 0	SOMGT:/0/1:0:23,0::23 G	A
						SOMGT:/0/1:0:16,0::16 C	T
0.039					0 0.1	SOMGT:/0:11 0/1:15,8:37 C	T
						SOMGT:/0:43 0/1:72,8:35 C	T
0.007	0 0 0			1.30		DB;SOMGT:/0:22 0/1:424,23 C	T
		0.4 0.0420.089 1,N	1.28			SOMGT:/0:15 0/1:304,38 G	A
		0.0 0.983 1.0,D 1.00	1.51			SOMGT:/0:16 0/1:267,58 C	T
2E-04						SOMGT:/0:46 0/1:92,14:3 C	T
	##	0				SOMGT:/0:69 0/1:112,19 C	T
						SOMGT:/0:79 0/1:127,28 G	A
		0.2 0.0620.84, 1,N	2.7 1.91			SOMGT:/0:29 0/1:63,6:37 C	T
	##	0				SOMGT:/0:51 0/1:93,15:3 C	T
						SOMGT:/0:95 0/1:137,24 G	A
2E-04	##	##	0		0	SOMGT:/0:12 0/1:206,32 C	T
	##	0				SOMGT:/0:31 0/1:505,66 G	A
						SOMGT:/0:39 0/1:68,4:37 C	T
						SOMGT:/0:19 0/1:28,5:37 C	T
						SOMGT:/0:65 0/1:153,15 C	A

.	.	.	.	.	.	.	.	.	SOM GT:/0:23 0/1:37,4:37 G	A				
.	.	.	.	.	.	.	.	.	SOM GT:/0:77 0/1:111,25 G	A				
.	.	.	.	.	.	.	.	.	SOM GT:/0:13 0/1:238,7:3 A	G				
.	.	.	.	.	.	.	.	.	SOM GT:/0:28 0/1:62,11:3 C	A				
.	.	.	0.1:	0.988	1.0,D	0.99	5.5	4.01 .	SOM GT:/0:17 0/1:293,62 G	T				
.	.	.	.	.	.	.	.	.	SOM GT:/0:29 0/1:47,6:37 G	A				
.	.	.	.	.	.	.	.	.	SOM GT:/0:37 0/1:54,5:37 C	T				
.	.	.	0.0:	0.988	1.0,D	1.00	4.5	6.11 .	SOM GT:/0:98 0/1:190,30 C	T				
.	.	.	0.0:	0.996	0.997	1,D	4.8	4.48 .	SOM GT:/0:57 0/1:87,15:3 C	T				
.	.	.	.	.	.	.	.	.	SOM GT:/0:22 0/1:50,11:3 G	A				
.	.	##	0 .	.	.	.	.	2.54 .	SOM GT:/0:12 0/1:179,36 C	T				
4E-04	##	0	0 .	.	.	.	.	.	SOM GT:/0:22 0/1:340,60 C	T				
.	.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:27,5:37 T	A				
.	.	##	0 .	.	.	.	.	2 1.90 .	SOM GT:/0:69 0/1:85,22:3 C	T				
.	.	.	.	.	.	.	.	.	SOM GT:/0:29 0/1:34,11:3 C	T				
.	.	##	##	0	0.1:	0.594	0.975	1,N .	SOM GT:/0:64 0/1:138,23 G	A				
.	.	.	.	.	.	.	.	.	SOM GT:/0:42 0/1:56,8:37 C	T				
.	.	.	.	.	.	.	.	.	SOM GT:/0:22 0/1:37,11:3 C	T				
.	.	.	.	.	.	.	.	.	SOM GT:/0:17 0/1:35,6:37 A	G				
0.007	0	0	0 .	.	.	.	.	.	DB;S GT:/0:11 0/1:203,38 C	T				
.	.	.	.	.	.	.	.	3 1.88 .	SOM GT:/0:33 0/1:58,15:3 C	T				
.	.	.	.	.	.	.	.	3.36 .	SOM GT:/0:11 0/1:6,5:37: G	T				
.	.	.	.	.	.	.	.	0.899	0.994	1.00	6.1	4.05 .	SOM GT:/0:35 0/1:66,8:35 C	T
.	.	.	.	.	.	.	.	0	0	SOM GT:/0:65 0/1:90,7:37 G	C			
0.259	.	0	0 .	.	.	.	.	.	0 .	SOM GT:/0:9,(0/1:12,4:37 C	T			
.	.	##	0	0.3:	0.338	0.975	1,N .	2.01 .	DB;S GT:/0:77 0/1:148,23 G	A				
.	.	##	##	0 .	.	.	.	.	SOM GT:/0:10 0/1:163,30 C	T				
.	.	.	0.0:	0.763	0.998	0.96	2.2	4.05 .	SOM GT:/0:45 0/1:111,20 G	A				
.	.	0	0	0 .	.	.	.	.	0	0	SOM GT:/0:22 0/1:333,26 G	A		
.	.	.	.	.	.	.	.	.	0	0.1	SOM GT:/0:22 0/1:39,3:37 C	A		
.	.	.	.	.	.	.	.	.	0.1	0.2	DB;S GT:/0:23 0/1:30,3:37 T	C		
.	.	.	.	.	.	.	.	.	0.2	0.3	DB;S GT:/0:56 0/1:81,11:3 A	T		
.	.	.	.	.	.	.	.	.	.	.	DB;S GT:/0:24 0/1:35,3:37 G	A		
0.005	.	.	.	.	.	.	.	.	0	0	DB;S GT:/0:44 0/1:71,15:3 G	A		
.	.	##	.	0.0:	0.023	0.065	1.00	4 3.56 .	0	SOM GT:/0:49 0/1:92,19:3 C	T			
.	.	##	##	0	0.0	0.535	0.98,	0.99	4.7	2.17 .	SOM GT:/0:11 0/1:183,42 C	T		
0.005	0	0	0 .	.	.	.	.	.	.	.	DB;S GT:/0:47 0/1:80,16:3 G	A		
.	.	.	.	.	.	.	.	1.26 .	.	.	SOM GT:/0:16 0/1:284,59 G	A		
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:46 0/1:74,8:37 A	G		
.	.	##	##	0 .	.	.	.	4.6 1.47 .	.	.	SOM GT:/0:36 0/1:64,12:3 C	T		
.	.	.	.	.	.	.	.	2.2 .	.	.	SOM GT:/0:82 0/1:134,19 G	A		
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:26 0/1:58,11:3 G	A		
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:68 0/1:105,17 C	T		
.	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:78 0/1:106,15 A	G		
.	.	.	.	.	.	.	.	.	0 .	.	SOM GT:/0:32 0/1:54,4:37 C	T		
.	.	.	.	.	.	.	.	0.5:	0.044	0.055	1,N .	SOM GT:/0:23 0/1:48,15:3 C	A	
.	.	.	.	.	.	.	.	3 .	.	.	SOM GT:/0:10 0/1:28,6:37 G	A		
.	.	.	.	.	.	.	.	1.26 .	.	.	SOM GT:/0:49 0/1:64,21:3 G	T		
0.002	.	.	.	.	.	.	.	.	.	.	SOM GT:/0:8,(0/1:5,3:37: C	T		
.	.	##	0 .	.	.	.	.	.	.	.	SOM GT:/0:40 0/1:62,15:3 G	A		
.	.	.	.	.	.	.	.	1.51 .	.	.	SOM GT:/0:17 0/1:43,8:37 G	T		
.	.	.	.	.	.	.	.	1.49 .	.	.	SOM GT:/0:37 0/1:83,15:3 G	A		
.	.	.	.	.	.	.	.	2.5 .	.	.	SOM GT:/0:13 0/1:38,4:37 G	A		
.	.	.	.	.	.	.	.	2.4 .	.	.	SOM GT:/0:16 0/1:234,63 C	T		

	##	0	0.0	0.001	0.006	1,N	3.5	1.43		SOM	GT:	0:14	0/1:220,38	C	T		
	##	0	0.0	1.0,D	1.0,D	1.00	5.5	4.84		SOM	GT:	0:75	0/1:127,32	C	T		
			0.5:	0.206	0.937	1,D	5.1	4.66		0	SOM	GT:	0:74	0/1:92,22:	G	A	
						1,D	5	10.3			SOM	GT:	0:12	0/1:221,42	C	T	
			0.0	0.001	0.008	1.00	2.2	1.43			SOM	GT:	0:92	0/1:127,33	C	T	
											SOM	GT:	0:10	0/1:6,2:37:	G	A	
								3.14			SOM	GT:	0:67	0/1:129,12	C	T	
								2.64			SOM	GT:	0:17	0/1:29,5:37	G	A	
									0		SOM	GT:	0:58	0/1:69,16:	C	T	
											SOM	GT:	0:67	0/1:68,18:	G	A	
							2.3				SOM	GT:	0:10	0/1:23,3:37	G	C	
	##	0					2.3	1.55	0		SOM	GT:	0:78	0/1:144,31	G	A	
			0.0	0.237	0.947	1,N	1.35		0		SOM	GT:	0:79	0/1:129,24	G	A	
							3.2	2.43			SOM	GT:	0:86	0/1:130,25	G	A	
			0.0	0.714	0.772	1.00		3.12			SOM	GT:	0:57	0/1:75,12:	C	A	
											SOM	GT:	0:15	0/1:12,3:37	G	A	
											SOM	GT:	0:22	0/1:37,6:37	C	T	
							2.3				SOM	GT:	0:20	0/1:35,8:37	A	G	
	##	0	0.1:	0.079	0.161	1.00	3.8	2.32			SOM	GT:	0:59	0/1:109,27	G	A	
											SOM	GT:	0:29	0/1:46,13:	C	A	
0.002		0	0						0	0	SOM	GT:	0:70	0/1:100,26	C	T	
											SOM	GT:	0:20	0/1:39,3:37	C	T	
							5.8	4.31			SOM	GT:	0:53	0/1:61,18:	C	A	
							5.6	1.81			SOM	GT:	0:30	0/1:59,9:37	A	C	
4E-04											SOM	GT:	0:46	0/1:71,14:	C	T	
											SOM	GT:	0:73	0/1:118,20	G	T	
			0.9:	0.999	1.0,D	1,D	4.4	5.13			SOM	GT:	0:13	0/1:232,50	G	A	
							3.1				SOM	GT:	0:63	0/1:97,18:	C	T	
							5.4	1.33			SOM	GT:	0:30	0/1:38,8:37	C	A	
							4.8	2.89			SOM	GT:	0:54	0/1:60,23:	C	T	
											SOM	GT:	0:43	0/1:87,15:1	T	A	
0.01		0	0	0							DB;	GT:	0:33	0/1:37,5:37	C	T	
	##	0	0.0	0.007	0.029	1,D	5.4	3.98			SOM	GT:	0:12	0/1:215,32	G	A	
											SOM	GT:	0:52	0/1:87,17:	C	A	
							1.80				SOM	GT:	0:15	0/1:21,3:37	C	T	
											SOM	GT:	0:69	0/1:118,24	C	T	
			0.0:	0.955	0.998	1,N	3.39				SOM	GT:	0:13	0/1:227,40	C	A	
0.013									0	0	DB;	GT:	0:32	0/1:36,8:37	C	T	
							3.1				SOM	GT:	0:47	0/1:71,7:37	A	G	
2E-04	##	0									SOM	GT:	0:54	0/1:94,26:	C	T	
											SOM	GT:	0:66	0/1:54,4:37	C	T	
											SOM	GT:	0:27	0/1:36,10:	C	T	
							2.3				SOM	GT:	0:48	0/1:89,12:	C	T	
											SOM	GT:	0:8,	0/1:15,3:37	C	T	
											SOM	GT:	0:22	0/1:46,9:37	C	T	
			0.4:	0.779	0.98,	1,D	5.2	4.82			SOM	GT:	0:48	0/1:71,7:37	G	A	
	0	##	0	0.0	0.124	0.729	1,D	3.9	4.67	0		SOM	GT:	0:51	0/1:87,12:	C	A
		##	0	0.0	0.966	1.0,D	1,D	2.8	3.49	0		SOM	GT:	0:48	0/1:74,7:37	C	T
											SOM	GT:	0:11	0/1:143,34	C	T	
											SOM	GT:	0:32	0/1:52,12:	C	T	
											SOM	GT:	0:43	0/1:110,21	C	T	
											SOM	GT:	0:12	0/1:14,3:37	C	A	
											SOM	GT:	0:33	0/1:39,10:	C	A	
	##	0									DB;	GT:	0:40	0/1:65,12:	C	A	

.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:17,5:34 G	A
.	##	.	.	.	.	.	.	SOM GT:/0:54 0/1:87,11:3 C	T
.	##	0 0.1:	0.0010.0010.99.	1.97.	.	.	.	SOM GT:/0:89 0/1:151,15 C	T
.	.	.	.	.	.	.	.	SOM GT:/0:24 0/1:42,9:37 C	A
.	.	.	.	.	.	.	.	SOM GT:/0:26 0/1:41,4:37 G	T
.	.	.	.	3.5.	.	.	.	SOM GT:/0:71 0/1:105,26 G	C
.	##	0.	.	1.40.	.	.	.	DB;GT:/0:48 0/1:93,18:3 G	A
.	.	.	.	.	.	.	.	SOM GT:/0:15 0/1:19,3:37 T	A
.	.	.	.	.	.	.	.	SOM GT:/0:18 0/1:29,5:37 A	T
.	.	0.0	0.979	0.995	1,D	5.6	1.99.	SOM GT:/0:48 0/1:79,11:3 A	C
.	.	.	.	.	.	.	.	SOM GT:/0:10 0/1:194,33 C	T
.	.	.	.	.	.	.	0.	SOM GT:/0:31 0/1:32,9:37 G	A
.	.	0.0	0.996	1.0,D	1,D	4.9	4.51.	SOM GT:/0:11 0/1:197,36 C	T
.	.	.	.	.	.	.	.	SOM GT:/0:56 0/1:85,4:37 T	C
.	.	.	.	1,A	3.27.	.	.	SOM GT:/0:19 0/1:47,10:3 C	T
.	.	.	.	.	.	.	.	SOM GT:/0:10 0/1:125,25 T	C
.	##	0 0.0	0.676	0.997	1.00	4.1	3.60.	SOM GT:/0:96 0/1:146,38 C	T
.	.	.	.	.	.	5.4	2.78.	SOM GT:/0:10 0/1:164,31 G	A
.	.	0.0,	1.0,D	1.0,D	1,D	5.5	4.45.	SOM GT:/0:78 0/1:85,17:3 G	T
.	.	.	.	.	.	.	.	SOM GT:/0:76 0/1:115,24 T	G
.	##	##	0 0.0:	0.999	1.0,D	1,D	5.5 5.31.	SOM GT:/0:27 0/1:38,5:37 C	T
.	.	.	.	.	.	.	0.	SOM GT:/0:60 0/1:72,10:3 G	A
.	.	.	.	.	.	.	.	SOM GT:/0:14 0/1:20,3:37 G	T
.	.	.	.	.	.	.	.	SOM GT:/0:17 0/1:238,44 C	T
.	.	.	.	.	.	.	.	SOM GT:/0:11 0/1:11,3:37 C	T
.	.	.	.	2.2	2.04.	.	.	SOM GT:/0:34 0/1:59,8:35 A	G
.	.	.	.	.	.	.	.	SOM GT:/0:17 0/1:25,3:37 T	G
.	0	0.	.	.	.	.	0 0.1	DB;GT:/0:72 0/1:142,8:3 T	G
.	.	.	.	.	.	.	.	0 DB;GT:/0:46 0/1:68,5:37 G	C
.	.	.	.	.	.	.	.	SOM GT:/0:12 0/1:205,37 A	G
.	##	0.	.	6.2	3.22.	.	.	SOM GT:/0:11 0/1:214,10 C	T
.	.	.	.	.	.	.	0.1	DB;GT:/0:69 0/1:101,5:3 T	A
.	.	.	.	.	.	.	.	SOM GT:/0:48 0/1:35,6:37 C	T
.	.	.	.	4.9	3.57.	.	.	SOM GT:/0:51 0/1:80,16:3 C	T
.	.	.	.	.	.	.	.	SOM GT:/0:13 0/1:140,36 G	A
.	.	.	.	.	.	.	.	SOM GT:/0:33 0/1:383,15 G	A
.	.	.	.	.	.	.	.	SOM GT:/0:88 0/1:153,23 C	T
.	.	.	.	.	.	.	.	DB;GT:/0:90 0/1:151,29 C	T
.	.	.	.	1,D	5.5	10.0.	.	SOM GT:/0:62 0/1:111,13 G	A
.	.	0.0	0.997	0.999	1.00	6	3.34.	SOM GT:/0:66 0/1:75,19:3 T	C
.	.	.	.	.	.	.	.	SOM GT:/0:34 0/1:530,10 G	A
.	.	.	.	.	.	.	.	SOM GT:/0:32 0/1:37,3:37 C	T
.	.	.	.	.	.	.	.	SOM GT:/0:54 0/1:74,21:3 C	T
.	.	.	.	.	.	.	.	SOM GT:/0:33 0/1:46,11:3 A	G
.	##	0 0.0	0.249	0.978	0.99	3.8	3.72.	SOM GT:/0:53 0/1:113,21 G	A
.	.	.	.	1,D	4.3	3.54.	.	SOM GT:/0:10 0/1:150,34 C	A
.	.	.	.	.	1.74.	.	.	SOM GT:/0:60 0/1:114,20 C	T
.	.	0.0	0.0,B	0.0,B	0.99	4.2	2.12.	SOM GT:/0:57 0/1:87,18:3 C	A
.	.	.	.	1.62.	.	.	.	SOM GT:/0:23 0/1:36,5:37 C	A
.	.	.	.	.	.	.	.	SOM GT:/0:20 0/1:22,8:37 C	T
.	.	.	.	.	.	.	.	SOM GT:/0:37 0/1:40,11:3 T	C
.	##	0 0.3	0.004	0.007	1,N	.	0	SOM GT:/0:70 0/1:130,27 C	T
.	.	.	.	.	.	.	0 0	SOM GT:/0:12 0/1:21,3:35 A	G
.	##	0.	.	.	.	.	.	SOM GT:/0:42 0/1:56,6:37 G	A

	##	0							SOM GT:/0:30 0/1:47,11:3 C	T
			0.0	0.948	1.0,D	0.79	3.9	3.05	SOM GT:/0:11 0/1:168,31 G	A
8E-04	##	0					2.1		SOM GT:/0:16 0/1:252,55 C	T
			0.1	0.642	0.989	1,N	2.9	1.79	SOM GT:/0:80 0/1:114,21 C	A
			0.1	0.776	0.958	1,D	6.1	3.94	SOM GT:/0:72 0/1:118,5:3 A	G
									SOM GT:/0:12 0/1:259,38 C	T
									SOM GT:/0:15 0/1:32,3:37 G	A
									SOM GT:/0:19 0/1:28,5:37 A	G
									SOM GT:/0:25 0/1:23,7:37 C	T
									SOM GT:/0:11 0/1:25,6:37 G	A
									SOM GT:/0:34 0/1:33,10:3 T	G
	##	0							SOM GT:/0:61 0/1:111,22 C	T
						1,D	5.4	3.73	SOM GT:/0:10 0/1:187,39 C	A
									SOM GT:/0:22 0/1:30,8:37 C	T
									DB;S GT:/0:36 0/1:45,6:32 C	T
	##		0.0	0.829	0.996	1,D	4.2	4.18	SOM GT:/0:45 0/1:79,20:3 C	A
	##	0	0.5	0.004	0.013	1,N			SOM GT:/0:10 0/1:170,28 G	A
			0.0	0.998	1.0,D	0.96	4.8	4.07	SOM GT:/0:69 0/1:103,16 G	A
	##	0	0.0	0.998	1.0,D	1,D	5.6	4.70	DB;S GT:/0:70 0/1:102,24 C	T
			0.0	0.645	0.976	1.00	5.1	2.99	SOM GT:/0:27 0/1:35,9:37 C	A
									SOM GT:/0:22 0/1:46,4:37 C	T
									SOM GT:/0:39 0/1:42,8:37 A	G
	##	##	0	0.0	0.999	1.0,D	1.00	4 4.09 0	SOM GT:/0:44 0/1:84,15:3 G	A
	##	##					3.4		SOM GT:/0:60 0/1:101,10 C	T
	##	##	0	1.0	0.011	0.027	0.97	2.8	SOM GT:/0:19 0/1:299,47 G	A
							2.55		SOM GT:/0:20 0/1:32,4:37 G	T
									SOM GT:/0:16 0/1:23,4:37 C	T
									SOM GT:/0:53 0/1:84,17:3 C	T
									SOM GT:/0:30 0/1:51,14:3 T	G
									SOM GT:/0:11 0/1:14,4:34 G	A
									SOM GT:/0:60 0/1:72,16:3 T	C
									SOM GT:/0:20 0/1:46,6:37 C	G
									SOM GT:/0:26 0/1:39,8:37 T	C
									SOM GT:/0:61 0/1:130,17 C	T
			0.2	0.012	0.102	1,N	3.19		SOM GT:/0:12 0/1:178,29 C	T
			0.0	1.0,D	1.0,D	1,D	6	3.50	SOM GT:/0:32 0/1:52,10:3 G	T
							2.3		SOM GT:/0:57 0/1:99,22:3 A	G
									SOM GT:/0:38 0/1:66,8:37 G	A
			0.0	0.691	0.976	0.98	3.2	1.82	SOM GT:/0:13 0/1:207,37 T	C
									SOM GT:/0:57 0/1:67,9:37 G	T
	##	0	0.2	0.021	0.021	0.99	2.30		SOM GT:/0:73 0/1:87,20:3 C	T
8E-04	0	0							0 SOM GT:/0:18 0/1:41,8:37 C	T
						1,D	6.1	4.56	SOM GT:/0:54 0/1:70,11:3 C	T
							2.6		SOM GT:/0:88 0/1:125,23 C	T
	##	0	0.13	0.48	1.00	4.9	2.72	0	SOM GT:/0:40 0/1:74,8:37 C	T
			0.1	0.593	0.767	1.00	2.9	3.54	SOM GT:/0:31 0/1:61,12:3 C	A
			0.0	0.27	0.274	1.00	5.8	3.31	SOM GT:/0:52 0/1:91,14:3 T	G
									SOM GT:/0:33 0/1:34,3:37 C	T
									SOM GT:/0:60 0/1:104,21 G	A
			0.0	0.828	0.999	1,N	2.96		SOM GT:/0:19 0/1:250,46 G	A
									SOM GT:/0:13 0/1:37,3:37 C	T
									SOM GT:/0:68 0/1:106,24 G	A
			0.0	0.071	0.223	0.96	3.9	4.16	SOM GT:/0:16 0/1:33,6:17 A	T
			0.0	1.0,D	1.0,D	1,D	5.3	4.11	SOM GT:/0:48 0/1:94,18:3 G	A

								0.	SOM GT:/0:26 0/1:25,6:37 C	T		
								0	SOM GT:/0:16 0/1:244,60 C	T		
0.001	0	0	0.						SOM GT:/0:46 0/1:94,14:3 C	T		
									SOM GT:/0:34 0/1:51,9:37 C	T		
						1,D	6.1	4.95.	SOM GT:/0:30 0/1:38,13:3 C	T		
									SOM GT:/0:53 0/1:65,28:3 G	A		
0.001	0	0	0.						SOM GT:/0:67 0/1:134,15 C	T		
		##	0	0.4	0.992	1.0,D	1.00	3.6	3.57	0.	SOM GT:/0:47 0/1:71,12:3 C	T
		0	0	0.							SOM GT:/0:30 0/1:55,9:37 G	A
		##	0.								SOM GT:/0:18 0/1:323,62 G	A
			0.0	0.27	10.617	1.00	3.9	3.19.			SOM GT:/0:18 0/1:318,62 A	G
2E-04		##	0	0.0	0.938	0.999	1,D	4.7	4.09	0.	SOM GT:/0:54 0/1:98,17:3 G	A
											SOM GT:/0:73 0/1:87,20:3 T	C
		##	0	0.0	0.999	1.0,D	1,D	4.7	4.78.		SOM GT:/0:33 0/1:57,6:37 G	A
		##	##	0	0.0	0.897	0.998	1,D	5.5	3.85.	SOM GT:/0:59 0/1:106,16 C	T
											SOM GT:/0:46 0/1:55,20:3 G	A
								2.1	1.37.		SOM GT:/0:17 0/1:22,5:37 C	T
2E-04	0	##	0.					3.1			SOM GT:/0:28 0/1:57,6:37 C	T
		##	##	0.							SOM GT:/0:95 0/1:153,26 C	T
			##	0	0.0	0.999	1.0,D	1,D	5.6	3.16.	SOM GT:/0:72 0/1:149,24 C	T
				0.0	0.997	1.0,D	1,D	5.2	6.08.		SOM GT:/0:92 0/1:168,27 G	A
2E-04											SOM GT:/0:34 0/1:70,11:3 G	A
		##	0.								SOM GT:/0:48 0/1:95,26:3 G	A
2E-04	0	##	0	0.2	0.001	0.002	0.98.				SOM GT:/0:71 0/1:98,20:3 G	A
				0.0	0.008	0.002	0.77.	2.96.			SOM GT:/0:57 0/1:116,22 G	A
				1.0	0.197	0.645	1,D	4.7			SOM GT:/0:87 0/1:110,13 A	T
								3.			SOM GT:/0:11 0/1:13,3:37 G	A
											SOM GT:/0:23 0/1:37,7:37 G	A
		##	0	0.0	0.987	0.999	1,D	5.6	5.41	0.	SOM GT:/0:34 0/1:64,11:3 G	A
											SOM GT:/0:17 0/1:25,4:37 G	A
											SOM GT:/0:19 0/1:32,9:37 A	G
			0.1	0.022	0.005	1,D	5.3	3.98.			SOM GT:/0:50 0/1:71,14:3 C	T
		0	0.								DB;:GT:/0:46 0/1:73,13:3 C	T
								2.4			SOM GT:/0:11 0/1:16,5:37 T	G
								3.2			SOM GT:/0:41 0/1:67,8:37 T	C
											SOM GT:/0:34 0/1:30,6:37 C	A
											SOM GT:/0:27 0/1:41,9:37 C	T
			0.6	0.018	0.02,	0.99	5.6	1.44.			SOM GT:/0:81 0/1:122,27 C	A
							5.2	2.70.			SOM GT:/0:39 0/1:53,13:3 T	C
		##									SOM GT:/0:16 0/1:29,5:37 T	C
		##	0.								SOM GT:/0:29 0/1:38,10:3 C	T
								2.3	1.51.		SOM GT:/0:21 0/1:24,5:37 T	C
											SOM GT:/0:24 0/1:42,8:37 C	T
											SOM GT:/0:16 0/1:37,4:37 A	T
								1.28.			SOM GT:/0:18 0/1:43,9:37 A	C
			0.2	0.036	0.094	0.93	4.				SOM GT:/0:48 0/1:88,9:37 C	T
											SOM GT:/0:22 0/1:34,8:37 A	G
											SOM GT:/0:52 0/1:78,15:3 C	A
											SOM GT:/0:72 0/1:135,23 C	T
											SOM GT:/0:58 0/1:95,15:3 C	A
		##	0.								SOM GT:/0:95 0/1:123,31 C	T
			0.8	0.163	0.571	0.95	4.5				SOM GT:/0:30 0/1:53,10:3 A	G
2E-04											SOM GT:/0:25 0/1:43,3:37 G	A
								2.2			SOM GT:/0:55 0/1:71,17:3 G	A

					5			SOMGT:/0:34 0/1:70,11:3 G	T
								SOMGT:/0:49 0/1:67,11:3 T	C
								SOMGT:/0:28 0/1:69,4:37 C	T
					1.67			SOMGT:/0:25 0/1:28,6:37 A	C
0.004							0	SOMGT:/0:24 0/1:22,3:37 G	A
							0.2 0.5	SOMGT:/0:8,(0/1:23,12:3 G	A
							0.3 0.5	SOMGT:/0:9,(0/1:30,13:3 G	A
	0 ##	0			2.1 3.65			SOMGT:/0:16 0/1:287,50 C	T
					1.49			SOMGT:/0:18 0/1:240,52 T	G
								SOMGT:/0:18 0/1:27,7:35 T	C
							0	SOMGT:/0:8,(0/1:17,4:30 G	A
							0	SOMGT:/0:10 0/1:17,4:37 C	A
							0.1 0.1	DB;SOMGT:/0:38 0/1:71,8:37 G	A
2E-04	0 0				2.3 1.39			SOMGT:/0:63 0/1:65,7:37 G	A
								SOMGT:/0:61 0/1:102,22 A	G
	##	0						SOMGT:/0:76 0/1:115,24 C	T
					3.4 1.32		0	SOMGT:/0:43 0/1:60,17:3 C	T
								SOMGT:/0:45 0/1:84,14:3 G	A
2E-04	0 0							SOMGT:/0:70 0/1:128,23 T	C
								SOMGT:/0:14 0/1:206,34 G	A
								SOMGT:/0:46 0/1:51,5:37 T	C
								SOMGT:/0:30 0/1:35,8:37 C	A
	##	0 0.0	0.997 1.0,D 1,D	5.7 5.60				SOMGT:/0:68 0/1:117,16 C	T
			0.7 0.013 0.003 1,N					SOMGT:/0:29 0/1:43,4:37 G	A
	##	0						SOMGT:/0:60 0/1:92,17:3 G	A
	0 0	0 1.0,0.0,B	0.002 1,N	2.3				SOMGT:/0:27 0/1:381,68 C	T
	##	0 0.0	0.588 0.993 0.85	4 2.75				SOMGT:/0:42 0/1:41,12:3 C	T
								SOMGT:/0:46 0/1:83,12:3 G	A
								SOMGT:/0:18 0/1:22,5:37 A	G
			0.0	0.996 0.999 1.00	4.5 3.86			SOMGT:/0:58 0/1:82,20:3 A	G
								SOMGT:/0:91 0/1:172,36 G	A
								SOMGT:/0:68 0/1:77,12:3 T	C
	##	0					0	SOMGT:/0:37 0/1:70,14:3 C	T
							0	SOMGT:/0:35 0/1:38,13:1 T	A
								SOMGT:/0:24 0/1:49,14:2 G	A
	0 0							SOMGT:/0:62 0/1:82,12:3 C	T
							0.2 0	DB;SOMGT:/0:30 0/1:40,4:37 G	C
8E-04							0	SOMGT:/0:19 0/1:38,12:3 C	T
								SOMGT:/0:9,(0/1:7,3:37 A	G
								SOMGT:/0:24 0/1:28,4:37 C	T
								SOMGT:/0:14 0/1:28,3:37 C	A
			0.6	0.474 0.976 0.99	5.4			SOMGT:/0:43 0/1:87,17:3 G	A
					1.25			SOMGT:/0:10 0/1:176,28 G	T
								DB;SOMGT:/0:44 0/1:63,10:3 G	A
							0	SOMGT:/0:27 0/1:41,8:35 C	T
					3			SOMGT:/0:10 0/1:15,6:24 A	C
	##	0 0.0	1.0,D 1.0,D 1,D	5.1 4.07				SOMGT:/0:56 0/1:85,14:3 C	T
	## ##	0 0.1	0.031 0.157 0.99	5.6 3.15				SOMGT:/0:27 0/1:44,6:37 G	A
					3.88			SOMGT:/0:33 0/1:46,3:37 G	T
					1.43			SOMGT:/0:29 0/1:29,10:3 C	T
								SOMGT:/0:56 0/1:127,8:3 G	A
								SOMGT:/0:29 0/1:41,5:37 T	G
								SOMGT:/0:86 0/1:155,15 G	T
					3.5 1.73			SOMGT:/0:35 0/1:55,13:3 A	G



			1,A	3.6 5.01 .			SOMGT:/0:39 0/1:51,10:3 C	T
							SOMGT:/0:21 0/1:30,4:37 T	A
							SOMGT:/0:9,(0/1:14,4:37 G	A
				3.5 1.85 .			SOMGT:/0:32 0/1:36,6:37 T	C
				3.87 .			SOMGT:/0:25 0/1:44,6:37 T	C
							SOMGT:/0:13 0/1:11,5:37 G	A
							SOMGT:/0:10 0/1:8,3:37 A	T
							SOMGT:/0:8,(0/1:3,2:37 G	A
							SOMGT:/0:21 0/1:22,9:37 T	A
	0 0 .						SOMGT:/0:77 0/1:107,16 C	T
	## .		0.0:0.876 0.998 1,D	6 4.95 .			SOMGT:/0:39 0/1:62,19:3 T	C
			1.0, .	1,N .			SOMGT:/0:60 0/1:87,20:3 A	G
			0.1: .	1,N 2.8 .			SOMGT:/0:32 0/1:59,10:3 T	C
				3.07 .			SOMGT:/0:23 0/1:42,4:34 G	A
							SOMGT:/0:80 0/1:112,20 C	T
				5.2 4.01 .			SOMGT:/0:35 0/1:53,5:37 G	A
				2.39 .			SOMGT:/0:10 0/1:152,22 G	A
			0.0 0.045 0.075 1,N				DB;S GT:/0:21 0/1:40,10:3 T	A
			0.0, 1.0,D 1.0,D 1,D	4.12 .			SOMGT:/0:81 0/1:98,22:3 C	T
			0.0:0.999 1.0,D 0.95	5.5 5.36 .			SOMGT:/0:66 0/1:78,11:3 T	C
			0.0 0.985 0.986 1.00	5.4 4.37 .			SOMGT:/0:10 0/1:156,40 G	A
							SOMGT:/0:12 0/1:27,6:37 T	A
0.007 .						0 0	SOMGT:/0:74 0/1:169,37 A	G
							SOMGT:/0:67 0/1:100,17 G	A
	## 0 .						SOMGT:/0:64 0/1:129,22 G	A
0.002 0 0 0 .							SOMGT:/0:99 0/1:152,27 G	C
0.002 .	0 0 0.0: .		1,D	5.8 5.44 .			SOMGT:/0:18 0/1:31,9:37 C	A
			0.2:0.024 0.001 1.00 .				SOMGT:/0:49 0/1:117,18 G	A
							SOMGT:/0:87 0/1:145,22 C	T
							SOMGT:/0:57 0/1:113,13 A	G
							SOMGT:/0:19 0/1:22,3:37 T	C
							SOMGT:/0:35 0/1:40,15:3 G	T
							SOMGT:/0:46 0/1:89,19:3 A	T
				4.8 4.78 .			SOMGT:/0:32 0/1:55,7:37 C	A
				2.9 .			SOMGT:/0:48 0/1:77,23:3 G	T
							SOMGT:/0:98 0/1:179,29 G	A
2E-04 .	0 0 0.0 0.0,B 0.0,B 1,N						SOMGT:/0:16 0/1:25,7:37 G	T
							SOMGT:/0:66 0/1:96,27:3 G	A
				2.9 .			SOMGT:/0:61 0/1:106,17 G	A
							SOMGT:/0:67 0/1:125,18 C	T
							SOMGT:/0:80 0/1:159,27 C	T
						0	SOMGT:/0:66 0/1:147,23 T	A
				0.0 0.211 0.171 1,D	6.2 2.79 .		SOMGT:/0:87 0/1:142,28 C	T
							DB;S GT:/0:33 0/1:27,3:37 A	T
0.284 0 0 0 .						2.16 0.4 0.4	DB;S GT:/0:53 0/1:78,12:3 C	T
							SOMGT:/0:13 0/1:218,36 G	A
							SOMGT:/0:18 0/1:43,3:37 C	A
							SOMGT:/0:15 0/1:25,7:37 G	T
							SOMGT:/0:56 0/1:102,18 G	A
							SOMGT:/0:51 0/1:91,22:3 G	A
							SOMGT:/0:8,(0/1:12,4:37 C	T
							SOMGT:/0:63 0/1:136,25 C	T
							SOMGT:/0:37 0/1:50,14:3 C	T
				2.8 .			SOMGT:/0:51 0/1:92,19:3 C	T
				0.0:0.997 1.0,D 1,D	4.4 3.71 .			

										SOMGT:/0:18 0/1:34,7:37 C	T
	##	##	0							SOMGT:/0:30 0/1:65,9:34 G	A
0.007	0	0	0						0 0	SOMGT:/0:10 0/1:179,40 C	T
										SOMGT:/0:15 0/1:9,3:37 G	T
										SOMGT:/0:20 0/1:29,6:37 C	T
						4.6	2.74			SOMGT:/0:49 0/1:91,17:3 G	A
	##	##	0			4.8	1.24			SOMGT:/0:29 0/1:45,7:37 C	T
0.002										SOMGT:/0:8,(0/1:14,5:37 C	T
						2.21				SOMGT:/0:41 0/1:53,16:3 C	T
						2.5	1.28			SOMGT:/0:14 0/1:32,4:37 G	A
										SOMGT:/0:19 0/1:38,11:3 C	T
						4.1	2.41			SOMGT:/0:48 0/1:85,10:3 T	C
	##	0	0.0	0.966	1.0,D	0.99	5.2	3.90	0	SOMGT:/0:27 0/1:50,6:37 C	T
							2.23			SOMGT:/0:21 0/1:41,4:37 C	T
			0.0	0.993	1.0,D	1,D	4.8	4.39		SOMGT:/0:36 0/1:61,11:3 C	T
										SOMGT:/0:19 0/1:38,8:37 G	A
										SOMGT:/0:13 0/1:8,3:37 G	A
									0 0	SOMGT:/0:8,(0/1:15,3:37 C	T
										SOMGT:/0:77 0/1:139,18 G	T
										SOMGT:/0:16 0/1:22,3:37 C	A
			0.0	0.998	1.0,D	1.00	2.3	3.38		SOMGT:/0:16 0/1:23,9:37 T	A
										SOMGT:/0:31 0/1:35,13:3 T	C
							3.8	1.28		SOMGT:/0:26 0/1:44,5:37 G	T
							2.1			SOMGT:/0:40 0/1:71,10:3 G	A
							1.31			SOMGT:/0:39 0/1:69,8:37 C	T
										SOMGT:/0:20 0/1:36,9:37 A	G
	##	0								SOMGT:/0:22 0/1:33,11:3 A	G
2E-04	0	##	0	0.3	0.003	0.003	1.00	5.4	1.35	DB;SOMGT:/0:74 0/1:115,25 G	A
										SOMGT:/0:26 0/1:42,9:37 C	T
	##	0							0	SOMGT:/0:62 0/1:78,22:3 C	T
										SOMGT:/0:45 0/1:59,13:3 G	T
4E-04	##	0	0.5	0.001	0.002	1,N			0 0	SOMGT:/0:17 0/1:303,57 G	A
8E-04										SOMGT:/0:56 0/1:64,12:3 G	A
										SOMGT:/0:9,(0/1:28,4:37 T	C
	0	##	0							SOMGT:/0:36 0/1:72,11:3 G	A
							2.3			SOMGT:/0:30 0/1:59,12:3 C	T
	##	0								SOMGT:/0:63 0/1:88,14:3 G	A
										SOMGT:/0:49 0/1:71,13:3 G	A
	##	0	0.1	0.951	0.995	1,D	5	3.50		SOMGT:/0:10 0/1:184,41 G	A
									0	SOMGT:/0:21 0/1:31,6:35 G	A
							2			SOMGT:/0:47 0/1:51,8:35 G	A
	0	0	0.0	0.007	0.022	0.99	2.9	2.38		SOMGT:/0:15 0/1:236,46 C	T
	##	0							0	SOMGT:/0:16 0/1:280,51 G	A
	##	##	0	1.0	0.09,	0.608	0.98	3.6		SOMGT:/0:64 0/1:113,24 C	T
			0.0	1.0,D	1.0,D	1.00	5.3	3.33		SOMGT:/0:10 0/1:164,33 C	T
2E-04	##	0							0	SOMGT:/0:12 0/1:241,50 C	T
			0.0	0.816	0.999	0.99	2.3	4.32		SOMGT:/0:10 0/1:141,28 G	A
						1,A	6.60			SOMGT:/0:12 0/1:187,42 C	T
							2.8			SOMGT:/0:31 0/1:55,7:37 G	T
	##	0	0.1	0.666	0.985	1.00	5.1	4.02		SOMGT:/0:15 0/1:257,46 C	T
6E-04	0	0	0							SOMGT:/0:72 0/1:85,17:3 G	A
										SOMGT:/0:52 0/1:90,15:3 A	G
	##	0	0.0	1.0,D	1.0,D	1,D	4.4	4.28		SOMGT:/0:82 0/1:127,27 G	A
						1,D	4.5	3.79		DB;SOMGT:/0:26 0/1:76,7:37 A	G

										SOM GT:/0:38 0/1:50,8:37 G	A
									2.42.	SOM GT:/0:20 0/1:27,4:37 A	G
										SOM GT:/0:12 0/1:230,43 C	T
										SOM GT:/0:27 0/1:41,9:37 C	T
										SOM GT:/0:24 0/1:26,8:37 A	T
									0.1:0.997 0.999 1.00 5.6 5.03.	SOM GT:/0:66 0/1:105,19 T	G
									0.9 0.373 0.58, 0.99 5.4 1.88.	SOM GT:/0:55 0/1:95,25:3 C	T
										DB;S GT:/0:20 0/1:29,8:35 C	T
										DB;S GT:/0:36 0/1:47,5:26 T	C
										SOM GT:/0:36 0/1:47,5:27 T	C
										SOM GT:/0:13 0/1:30,6:37 G	A
									1.48.	SOM GT:/0:67 0/1:79,14:3 C	A
										SOM GT:/0:61 0/1:81,20:3 G	T
									4.2 2.40.	SOM GT:/0:54 0/1:55,12:3 G	T
		##	0						2.23.	SOM GT:/0:98 0/1:153,34 C	T
									0.5:0.001 0.0,B 1,N	SOM GT:/0:10 0/1:143,26 A	G
									0.0:0.962 0.998 1.00 5.9 3.83.	SOM GT:/0:76 0/1:89,22:3 C	T
		##	0						2.	SOM GT:/0:29 0/1:37,8:33 C	T
									0.3 0.156 0.575 0.90 5.	SOM GT:/0:25 0/1:46,9:37 G	A
										SOM GT:/0:20 0/1:26,6:37 A	G
										SOM GT:/0:46 0/1:76,15:3 G	T
									2.2 4.04 0.	SOM GT:/0:24 0/1:37,5:37 C	T
									2.5.	SOM GT:/0:28 0/1:41,6:35 G	T
										SOM GT:/0:44 0/1:92,13:3 A	C
										SOM GT:/0:31 0/1:50,10:3 C	A
		##	##	0	0.0:0.572 0.996 1.00 5.5 4.81.					SOM GT:/0:28 0/1:59,18:3 G	A
									2.7.	SOM GT:/0:20 0/1:47,10:3 G	A
										SOM GT:/0:25 0/1:60,6:37 G	A
									3.2.	SOM GT:/0:79 0/1:121,35 C	A
4E-04		0	0					0	0	SOM GT:/0:55 0/1:86,13:3 G	A
		##	0						2.6 1.42.	SOM GT:/0:12 0/1:200,54 G	A
										SOM GT:/0:26 0/1:79,15:3 A	G
										SOM GT:/0:40 0/1:51,11:3 C	T
									3.01.	SOM GT:/0:25 0/1:45,9:37 A	G
									0.0:0.931 0.999 1,D 3.7 4.27.	SOM GT:/0:74 0/1:110,20 G	A
										SOM GT:/0:58 0/1:98,17:3 C	A
									0.0 0.932 0.998 1,N 1.53.	SOM GT:/0:35 0/1:53,8:33 G	A
										SOM GT:/0:94 0/1:153,24 C	T
8E-04		##	##	0						SOM GT:/0:31 0/1:51,6:33 C	T
									4.6.	SOM GT:/0:56 0/1:54,12:3 G	A
										SOM GT:/0:10 0/1:14,4:37 C	T
0.048		0	0	0				0	0	DB;S GT:/0:20 0/1:22,4:37 A	T
		##	0	0.1 0.021 0.102 1.00 3.9 3.82.						SOM GT:/0:31 0/1:60,8:37 C	T
										SOM GT:/0:46 0/1:60,9:34 G	A
										SOM GT:/0:42 0/1:48,8:37 C	T
		##	0						3.2.	SOM GT:/0:62 0/1:94,12:3 C	T
										SOM GT:/0:9,(0/1:16,4:37 C	A
									6.1 2.79.	SOM GT:/0:22 0/1:54,8:37 G	A
										SOM GT:/0:98 0/1:136,21 G	A
										SOM GT:/0:9,(0/1:14,4:37 G	C
2E-04		##	0	0.0:0.999 1.0,D 1.00 6.1 4.63.						SOM GT:/0:38 0/1:51,4:37 C	T
										SOM GT:/0:9,(0/1:12,6:37 G	A
									1.54.	SOM GT:/0:34 0/1:49,4:37 G	T
		##	0							SOM GT:/0:47 0/1:100,23 C	T

2E-04	.	.	.	.	.	.	.	.	0	SOM	GT:/0:27	0/1:50,11:3	C	T		
.	.	.	.	.	5.6	.	.	.	.	SOM	GT:/0:82	0/1:125,19	T	G		
.	.	.	0.2:	0.455	0.836	1.00	5.7	4.22	.	SOM	GT:/0:10	0/1:166,23	C	T		
.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:59	0/1:83,15:3	C	T		
.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:60	0/1:84,18:3	T	C		
.	##	##	0	0.8:	0.024	0.083	1,D	5.1	.	SOM	GT:/0:63	0/1:66,16:3	G	A		
.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:39	0/1:63,9:34	T	A		
.	.	##	0	.	.	.	.	1.48	.	SOM	GT:/0:54	0/1:65,16:3	C	T		
.	.	##	0	.	.	.	.	2.5	.	SOM	GT:/0:33	0/1:51,11:3	G	A		
.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:24	0/1:57,6:37	C	T		
.	.	.	.	.	.	.	.	.	0	0	SOM	GT:/0:10	0/1:19,4:37	C	T	
.	.	.	.	.	.	.	.	3.1	.	.	SOM	GT:/0:43	0/1:58,12:3	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:51	0/1:76,24:3	C	T	
.	.	.	.	.	.	.	.	.	0	.	SOM	GT:/0:9,(0/1:11,7:37	G	A		
.	.	.	.	.	.	.	.	.	0	0	DB;S	GT:/0:75	0/1:132,7:3	A	G	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:8,(0/1:14,4:30	G	T		
.	.	##	0	0.0:	0.931	1.0,D	0.79	3.3	1.95	0	0	SOM	GT:/0:80	0/1:175,35	G	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:79	0/1:179,6:3	C	A	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:45	0/1:66,16:3	C	T	
.	.	.	.	.	.	.	.	.	0	.	SOM	GT:/0:43	0/1:67,5:37	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:70	0/1:90,18:3	G	A	
2E-04	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:19	0/1:23,5:37	G	A	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:68	0/1:85,30:3	T	C	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:16	0/1:14,5:37	G	A	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:10	0/1:176,29	G	A	
.	.	.	.	.	.	1,D	.	3.49	.	.	SOM	GT:/0:9,(0/1:25,8:35	C	T		
4E-04	0	0	0	.	.	.	.	.	.	.	DB;S	GT:/0:14	0/1:283,24	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:14	0/1:24,3:37	G	A	
.	.	.	.	.	.	.	.	1.69	.	.	SOM	GT:/0:72	0/1:111,17	G	A	
.	.	##	0	0.2:	0.002	0.004	1,D	4.1	1.85	.	SOM	GT:/0:35	0/1:62,7:37	G	A	
0.002	.	.	0	.	.	.	.	.	.	0	0	SOM	GT:/0:36	0/1:70,10:3	C	T
.	.	##	0	.	.	.	.	.	.	.	SOM	GT:/0:12	0/1:211,38	C	T	
.	.	.	.	0.0:	0.997	1.0,D	0.99	6.2	4.57	.	SOM	GT:/0:62	0/1:111,19	G	A	
.	.	.	.	0.0:	0.565	0.959	0.68	3.7	1.42	.	SOM	GT:/0:60	0/1:51,5:37	C	A	
.	.	.	.	0.0:	1.0,D	1.0,D	1,D	5.4	4.96	.	SOM	GT:/0:59	0/1:88,12:3	G	A	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:31	0/1:43,6:32	A	T	
.	.	.	.	0.1:	0.988	0.994	0.87	5.6	3.33	.	SOM	GT:/0:40	0/1:55,16:3	T	C	
0.003	.	.	.	.	.	.	.	.	.	0	0	SOM	GT:/0:8,(0/1:6,7:37:	A	G	
2E-04	.	##	0	.	.	.	.	2.2	2.78	.	SOM	GT:/0:20	0/1:27,9:37	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:55	0/1:85,15:3	C	T	
.	.	.	.	.	.	.	.	1.70	.	.	SOM	GT:/0:27	0/1:49,6:37	G	T	
.	.	##	0	0.0:	0.988	0.998	1,D	5.9	5.07	.	SOM	GT:/0:67	0/1:120,26	G	A	
.	.	.	.	0.2:	0.159	0.475	0.99	4.1	2.31	.	SOM	GT:/0:56	0/1:64,12:3	A	T	
.	.	.	.	.	.	.	.	.	.	.	DB;S	GT:/0:37	0/1:53,12:3	C	T	
.	.	.	.	.	.	.	.	.	0.1	0.2	SOM	GT:/0:20	0/1:26,4:37	C	T	
.	.	.	.	.	.	.	.	.	0	.	SOM	GT:/0:8,(0/1:6,4:37:	C	T		
.	.	.	.	0.1:	0.008	0.127	1,N	1.50	.	.	SOM	GT:/0:14	0/1:224,37	C	T	
.	.	.	.	.	.	.	.	1.36	.	.	SOM	GT:/0:13	0/1:23,4:37	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:69	0/1:88,14:3	G	C	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:9,(0/1:14,4:37	C	A		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:18	0/1:41,8:37	G	A	
.	.	.	.	.	.	1,A	.	5.21	.	.	SOM	GT:/0:17	0/1:254,36	C	T	
.	.	.	.	.	.	.	.	3.8	.	.	SOM	GT:/0:30	0/1:40,4:37	A	T	
.	.	##	0	.	.	.	.	.	.	.	SOM	GT:/0:27	0/1:32,4:37	C	T	

					1,D	5.6	4.33			SOM GT:/0:44 0/1:79,16:3C	T	
0.126	0	0							0	0 DB;:GT:/0:20 0/1:47,15:3T	A	
										SOM GT:/0:14 0/1:12,3:37G	T	
	##	0	0	0.0	1.0,D	1.0,D	1.00	3.9	3.90	SOM GT:/0:49 0/1:74,10:3C	T	
								4.7	1.51	SOM GT:/0:73 0/1:131,18 G	T	
		##	0	0.0	0.998	1.0,D	1.00	5.7	5.10	SOM GT:/0:53 0/1:87,13:3C	T	
									1,A	8.91	SOM GT:/0:34 0/1:74,8:35G	T
										1.24	SOM GT:/0:8,(0/1:14,4:37A	G
											SOM GT:/0:30 0/1:35,4:37T	C
				0.0	0.998	1.0,D	1,D	5.6	3.37	SOM GT:/0:12 0/1:231,37 G	T	
								3.9	3.01	SOM GT:/0:24 0/1:38,4:37C	A	
				0.0	1.0,D	1.0,D	1,D	5.5	5.97	SOM GT:/0:86 0/1:109,16 G	A	
	##	##	0	0.0	0.998	1.0,D	1,D	5.4	5.22	SOM GT:/0:96 0/1:131,18 C	T	
											SOM GT:/0:84 0/1:180,41 C	T
											SOM GT:/0:15 0/1:19,3:37A	G
											SOM GT:/0:44 0/1:46,12:3A	G
											DB;:GT:/0:28 0/1:21,5:37A	G
								1,A	5.8	7.24	SOM GT:/0:55 0/1:55,12:3G	T
				0.0	0.327	0.627	1,D	3.9	2.49	SOM GT:/0:34 0/1:67,17:3C	A	
		##	0	0.2	0.014	0.006	0.64	4.2	1.72	SOM GT:/0:67 0/1:118,23 T	C	
				0.0	0.998	1.0,D	1,D	6	4.97	SOM GT:/0:48 0/1:54,8:37G	T	
		##		0.1	0.574	0.818	1.00	5.1	4.00	SOM GT:/0:33 0/1:80,14:3A	G	
										0	0 SOM GT:/0:10 0/1:21,4:37C	A
										0	0 SOM GT:/0:99 0/1:155,29 G	A
								3.2			SOM GT:/0:47 0/1:115,27 G	T
								1.27			SOM GT:/0:95 0/1:133,17 G	A
								3.1			SOM GT:/0:34 0/1:66,10:3A	G
											SOM GT:/0:36 0/1:57,10:3C	A
										0	0 SOM GT:/0:9,(0/1:7,3:37: T	C
	0	0								0.1	0 SOM GT:/0:15 0/1:26,5:37G	A
											SOM GT:/0:12 0/1:27,6:37G	A
				0.0	0.641	0.908	1,D	3.7	4.04	SOM GT:/0:53 0/1:76,21:3A	G	
											SOM GT:/0:27 0/1:27,6:37C	T
											SOM GT:/0:58 0/1:67,12:3G	A
		##	0								SOM GT:/0:58 0/1:107,21 G	A
											SOM GT:/0:32 0/1:47,12:3A	G
				0.0	0.596	0.938	1,N	2.5			SOM GT:/0:83 0/1:132,22 G	A
										0	0.1 DB;:GT:/0:45 0/1:71,4:37G	C
											SOM GT:/0:45 0/1:55,7:37C	T
				0.5	0.0,B	0.0,B	1,N				SOM GT:/0:38 0/1:751,26 C	A
										0	SOM GT:/0:39 0/1:44,3:37G	A
		##	0	0.1	0.33,	0.728	1,N	4.9	3.90	SOM GT:/0:57 0/1:71,20:3G	A	
				0.0	0.998	1.0,D	1,D	5	3.70	SOM GT:/0:11 0/1:26,7:37G	T	
				0.0	0.152	0.568	1.00	5.4	2.84	SOM GT:/0:68 0/1:97,26:3A	G	
2E-04	0	0	0								SOM GT:/0:70 0/1:119,25 G	A
0.261	0	0	1						0.5	0.5 DB;:GT:/0:52 0/1:74,16:3G	A	
											SOM GT:/0:10 0/1:13,4:37G	C
		0	0								SOM GT:/0:83 0/1:163,26 G	A
											SOM GT:/0:40 0/1:72,19:3G	A
2E-04	##	0									SOM GT:/0:73 0/1:115,17 G	A
											SOM GT:/0:35 0/1:83,4:37G	C
											SOM GT:/0:36 0/1:87,4:37G	T
											DB;:GT:/0:35 0/1:82,6:37C	T
								5.5	2.43		SOM GT:/0:49 0/1:77,5:37C	A

										SOM GT:/0:18 0/1:23,3:37 T	A	
										SOM GT:/0:37 0/1:41,3:37 A	G	
										SOM GT:/0:46 0/1:65,10:3 G	T	
										SOM GT:/0:8,(0/1:17,3:37 T	C	
									0	SOM GT:/0:8,(0/1:22,4:37 T	C	
										SOM GT:/0:8,(0/1:22,4:37 A	G	
	##	##		0.267	0.507	1.00	4.8	1.30		SOM GT:/0:10 0/1:220,37 C	T	
				0.4	0.14	0.931	1,D	4.3	1.68	SOM GT:/0:45 0/1:81,14:3 C	T	
2E-04										SOM GT:/0:13 0/1:209,40 C	T	
							1,D	5.3	2.11	SOM GT:/0:39 0/1:61,7:37 C	A	
									2.24	SOM GT:/0:40 0/1:63,8:37 G	A	
6E-04								2.2	0	0	SOM GT:/0:20 0/1:29,7:37 G	A
				0.4	0.001	0.0	B 1,N		1.81		SOM GT:/0:12 0/1:192,41 A	G
0.001	0	0	0	0.0	0.436	0.988	1,N		2.82		SOM GT:/0:11 0/1:255,13 C	T
								5.2			SOM GT:/0:53 0/1:70,7:35 C	T
											SOM GT:/0:8,(0/1:15,5:37 A	G
										0	SOM GT:/0:24 0/1:41,5:37 C	G
								2.9	1.25		SOM GT:/0:34 0/1:55,9:37 C	A
											SOM GT:/0:12 0/1:12,3:37 A	G
									3.64		SOM GT:/0:19 0/1:29,5:37 C	T
								3.8			SOM GT:/0:47 0/1:70,14:3 G	A
								3.8			SOM GT:/0:15 0/1:13,5:37 G	A
	##	##	0								SOM GT:/0:20 0/1:28,8:30 C	T
										0	SOM GT:/0:23 0/1:32,7:37 C	T
				0.5	0.013	0.04	1,N	2.1			SOM GT:/0:10 0/1:154,38 G	T
				0.6	0.002	0.0	B 1,N				SOM GT:/0:53 0/1:92,18:3 G	A
		##	0	0.0	0.136	0.588	0.87	5.8	2.16	0	SOM GT:/0:32 0/1:53,10:3 C	T
											SOM GT:/0:25 0/1:43,5:37 C	T
				0.6	0.311	0.745	1,D	3.6	2.38		DB;GT:/0:29 0/1:48,8:37 A	C
8E-04											DB;GT:/0:30 0/1:21,4:37 C	T
											SOM GT:/0:16 0/1:36,10:3 G	T
											SOM GT:/0:96 0/1:149,25 A	G
				0.0	0.601	0.832	1,D	5.9	5.19		SOM GT:/0:43 0/1:69,8:37 C	T
											SOM GT:/0:13 0/1:12,4:37 G	T
				0.0	0.972	1.0	D 0.61	4.2	4.51		SOM GT:/0:13 0/1:19,7:31 G	A
								4.9			SOM GT:/0:23 0/1:30,11:3 A	T
		##	0					1.26			SOM GT:/0:57 0/1:84,17:3 C	T
								2.16			SOM GT:/0:16 0/1:21,4:37 C	T
		##	0								SOM GT:/0:21 0/1:28,8:37 T	C
		##	0	0.0	0.99	1.0	D 0.97	5.4	3.82	0	SOM GT:/0:51 0/1:66,15:3 C	T
				0.0	0.994	0.999	1.00	4.7	3.65		SOM GT:/0:36 0/1:69,17:3 A	G
				1.0	0.0	B 0.0	B 1,N				DB;GT:/0:10 0/1:204,38 A	G
		##	0	0.1	0.001	0.003	1.00	3.6	1.87		SOM GT:/0:10 0/1:205,41 G	A
				0.4	0.035	0.044	0.99	4.2	1.79		SOM GT:/0:70 0/1:103,20 T	C
											SOM GT:/0:11 0/1:184,34 G	A
											SOM GT:/0:16 0/1:262,49 C	T
		##	0							0	SOM GT:/0:55 0/1:84,21:3 G	A
				0.0	1.0	D 1.0	D 0.81	4.2	3.64		SOM GT:/0:14 0/1:241,42 G	A
				0.0	0.941	0.994	1.00	4.2	2.91		SOM GT:/0:12 0/1:195,40 C	T
											SOM GT:/0:65 0/1:111,27 C	T
				0.0	0.272	0.479	1,N	3.4	2.43		SOM GT:/0:76 0/1:141,32 C	T
0.002		##	0							0	SOM GT:/0:89 0/1:153,7:3 C	T
		##	##	0							SOM GT:/0:20 0/1:353,57 C	T
			##	0	0.0	0.875	0.998	1,D	4	3.02	SOM GT:/0:10 0/1:160,30 G	A

8E-04	##	0	0.0	0.001	0.003	1,N	.	.	0	0	SOM	GT:/0:70	0/1:140,30	G	A		
.	.	.	.	.	.	.	.	.	0	.	SOM	GT:/0:19	0/1:43,10	3A	G		
.	.	.	.	.	.	.	2.7	.	.	.	SOM	GT:/0:24	0/1:25,4	37T	C		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:23	0/1:55,15	3A	T		
.	.	.	0.0	0.647	0.978	0.86	5.5	3.81	.	.	SOM	GT:/0:11	0/1:214,52	G	A		
.	.	.	0.0	0.879	0.998	1,D	5.4	3.63	.	.	SOM	GT:/0:63	0/1:100,18	C	A		
4E-04	.	.	.	.	.	.	.	.	0	0	SOM	GT:/0:16	0/1:28,6	37G	A		
2E-04	0	0	0.1	0.514	0.96	1,1.00	5.7	3.45	.	.	SOM	GT:/0:86	0/1:146,25	C	T		
.	.	.	0.0	0.537	0.984	0.99	5.2	3.64	.	.	SOM	GT:/0:29	0/1:75,12	3G	A		
.	.	.	0.0	0.986	0.997	1.00	5.8	4.50	.	.	SOM	GT:/0:91	0/1:142,19	C	A		
.	0	##	0	0.1	0.281	0.981	0.99	4.3	.	.	SOM	GT:/0:72	0/1:133,19	C	T		
.	.	##	0	0.0	0.999	1.0	D	1,D	5.6	3.40	0	.	SOM	GT:/0:48	0/1:65,5	34C	T
.	.	.	.	.	.	.	5.1	.	.	.	SOM	GT:/0:49	0/1:94,19	3G	T		
.	.	.	0.0	0.075	0.181	1,D	5.8	3.16	.	.	SOM	GT:/0:14	0/1:259,53	T	C		
2E-04	.	.	.	.	.	.	.	.	0	.	SOM	GT:/0:14	0/1:11,3	37C	T		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:28	0/1:50,7	37C	A		
.	.	.	.	.	.	.	5.1	3.89	.	.	SOM	GT:/0:27	0/1:47,4	37T	C		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:12	0/1:213,42	G	A		
0.003	0	0	.	.	.	.	.	.	0	.	DB;	GT:/0:88	0/1:180,36	G	A		
4E-04	##	0	0.0	0.996	1.0	D	1,D	3.6	3.58	.	SOM	GT:/0:22	0/1:367,69	C	T		
.	.	.	.	.	.	.	3.2	3.75	.	.	SOM	GT:/0:47	0/1:75,9	37C	A		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:33	0/1:36,13	3C	T		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:21	0/1:38,5	37G	A		
.	.	.	.	.	.	.	.	.	0	0	SOM	GT:/0:21	0/1:40,13	3G	A		
.	.	.	.	.	.	.	3.7	3.15	.	.	SOM	GT:/0:25	0/1:44,7	37G	A		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:8,	0/1:9,4	37G	T		
.	##	0	0.1	0.017	0.14	1,0.73	5.2	1.40	0	.	SOM	GT:/0:83	0/1:120,21	G	A		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:15	0/1:19,6	37A	T		
0.002	.	.	.	.	.	.	.	.	0	0	SOM	GT:/0:33	0/1:54,7	37G	A		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:37	0/1:49,8	37A	G		
.	##	0	.	.	.	.	.	.	.	.	SOM	GT:/0:57	0/1:80,13	3C	T		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:16	0/1:12,3	37T	A		
.	##	##	0	.	.	.	.	.	0	.	DB;	GT:/0:58	0/1:83,7	37G	A		
.	##	0	0.0	0.951	1.0	D	1,D	5.9	6.16	.	SOM	GT:/0:90	0/1:144,22	G	A		
.	##	0	.	.	.	.	.	.	.	.	SOM	GT:/0:43	0/1:77,16	3C	T		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:28	0/1:29,7	37T	G		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:17	0/1:50,6	37C	T		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:12	0/1:23,3	37G	A		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:42	0/1:65,14	3T	C		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:19	0/1:30,5	34G	A		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:11	0/1:17,3	37C	T		
.	.	.	.	.	.	.	2.64	.	.	.	SOM	GT:/0:18	0/1:20,3	33G	A		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:20	0/1:50,5	37T	C		
.	0	0	.	.	.	.	.	.	.	.	DB;	GT:/0:20	0/1:34,3	37G	A		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:52	0/1:85,7	35A	G		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:57	0/1:91,15	3C	T		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:57	0/1:85,17	3G	T		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:59	0/1:98,10	3G	A		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:29	0/1:62,11	3A	G		
.	##	0	.	.	.	.	.	.	0	0	SOM	GT:/0:81	0/1:117,22	C	T		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:10	0/1:180,28	G	A		
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:15	0/1:15,3	37T	C		
.	.	.	0.0	1.0	D	1.0	D	1,D	4.2	4.48	.	DB;	GT:/0:63	0/1:97,19	3C	T	
.	0	0	.	.	.	.	.	.	0	.	SOM	GT:/0:99	0/1:169,26	C	T		

			0.01.0,D 1.0,D 1,D	5.7 5.41		SOM GT:/0:64 0/1:116,13	G	A
			0.0 0.973 0.996 1,D	3.6 2.38		SOM GT:/0:68 0/1:129,23	G	T
		##	0	1.66		SOM GT:/0:51 0/1:76,11:3	C	T
				3.3		SOM GT:/0:12 0/1:16,4:37	C	T
		##	0		0	SOM GT:/0:11 0/1:159,30	C	T
				1.32		SOM GT:/0:40 0/1:48,8:37	G	A
				2.9 2.80		SOM GT:/0:28 0/1:37,10:1	G	C
			0.0:0.124 0.865 1,D	4 2.29		SOM GT:/0:60 0/1:93,23:3	G	A
						SOM GT:/0:84 0/1:145,25	A	G
				2.1		SOM GT:/0:26 0/1:40,4:37	C	T
		##	0 0.9 0.006 0.014 1,N			SOM GT:/0:83 0/1:132,36	G	A
			0.0:0.687 0.991 0.70	4.9 1.80		SOM GT:/0:96 0/1:146,30	C	A
0.005	0	0		2.2	0	0 DB;SOM GT:/0:71 0/1:132,10	C	A
		##	0	1.37	0	SOM GT:/0:60 0/1:86,16:3	C	T
						SOM GT:/0:84 0/1:152,29	G	T
2E-04	0	##	0		0	SOM GT:/0:67 0/1:123,24	C	T
			0.0, 1.0,D 1.0,D 1,D	5.9 4.56		SOM GT:/0:73 0/1:107,27	C	T
						SOM GT:/0:23 0/1:28,5:37	G	T
						SOM GT:/0:60 0/1:111,23	A	G
4E-04	0	0	0			SOM GT:/0:40 0/1:66,11:3	G	A
	0	0	0 0.0:0.451 0.99,1,1,N	2.6 2.98		SOM GT:/0:10 0/1:175,38	G	A
						SOM GT:/0:39 0/1:68,13:3	G	A
			0.0:0.997 1.0,D	6 3.85		SOM GT:/0:73 0/1:118,19	C	A
						SOM GT:/0:10 0/1:200,24	C	G
				3.4		SOM GT:/0:34 0/1:39,7:37	A	G
0.001	0	0			0	0 SOM GT:/0:13 0/1:19,7:31	A	G
					0	SOM GT:/0:24 0/1:32,10:1	A	T
				2.9		SOM GT:/0:45 0/1:58,11:3	C	A
		##	0 0.0:0.001 0.007 0.65	4.8 2.89		SOM GT:/0:66 0/1:76,13:3	C	T
2E-04	0	##	0 0.0 1.0,D 1.0,D 1,D	3.70		SOM GT:/0:82 0/1:116,30	C	T
						SOM GT:/0:21 0/1:38,8:37	T	C
		##	0	1.51		SOM GT:/0:32 0/1:52,5:37	G	A
						SOM GT:/0:12 0/1:9,3:37	G	A
				2.4 1.98		SOM GT:/0:8,(0/1:13,4:37	C	T
			0.0,0.997 0.999 1,D	4.5 3.86		SOM GT:/0:16 0/1:242,48	T	C
2E-04					0	SOM GT:/0:65 0/1:103,20	A	C
				5.9 3.72		SOM GT:/0:41 0/1:47,9:37	T	C
						SOM GT:/0:28 0/1:43,6:37	T	C
				2.5 2.14		SOM GT:/0:14 0/1:22,5:37	T	C
						SOM GT:/0:35 0/1:31,3:37	G	T
			0.0,0.972 1.0,D 0.99	5.8 3.48		SOM GT:/0:70 0/1:83,13:3	G	T
						SOM GT:/0:21 0/1:30,3:33	C	T
						SOM GT:/0:26 0/1:41,6:37	G	A
						SOM GT:/0:23 0/1:29,10:3	T	C
2E-04	0	##	0		0	SOM GT:/0:54 0/1:96,13:3	C	T
						SOM GT:/0:30 0/1:65,4:37	A	C
		##	0 0.0:0.998 1.0,D 1,D	5.8 4.37		SOM GT:/0:28 0/1:54,16:3	G	A
					0	SOM GT:/0:16 0/1:30,8:37	G	A
						SOM GT:/0:22 0/1:19,7:37	T	C
						SOM GT:/0:56 0/1:93,20:3	T	C
				2.9		SOM GT:/0:73 0/1:116,24	C	T
1E-03	0	0	0	2.9 2.40	0	0 SOM GT:/0:22 0/1:36,10:3	G	A
		##	## 0 0.0:0.362 0.935 1,D	5.2 4.87		SOM GT:/0:22 0/1:384,83	G	A
			0.3:0.002 0.01,1,1,N			SOM GT:/0:96 0/1:119,20	A	G



	##	0	0.0	0.986	1.0,D	1,D	5.6	4.88		SOM	GT:	0:51	0/1:89,17:3	C	T	
	##	0	0.1	0.003	0.004	0.98	3.1	2.10		SOM	GT:	0:34	0/1:48,10:3	A	G	
			0.0	0.997	1.0,D	1,D	5.8	4.44		SOM	GT:	0:48	0/1:67,9:3	E	C	
										SOM	GT:	0:36	0/1:54,8:3	T	C	
										SOM	GT:	0:29	0/1:46,9:3	T	C	
							2.6	2.16		SOM	GT:	0:20	0/1:49,6:3	T	C	
	##	0								SOM	GT:	0:82	0/1:118,17	G	A	
										SOM	GT:	0:71	0/1:116,16	T	C	
			0.1	0.115	0.525	1,D	4.6	1.33		SOM	GT:	0:24	0/1:39,11:3	T	C	
			0.0	0.998	1.0,D	1,D	4.6	5.20		SOM	GT:	0:53	0/1:68,5:3	A	G	
						1,A	4.9	8.66		SOM	GT:	0:74	0/1:120,18	C	T	
										SOM	GT:	0:10	0/1:173,43	G	A	
			0.0	1.0,D	1.0,D	1,D	5.8	4.61		SOM	GT:	0:50	0/1:86,11:3	C	T	
									0	SOM	GT:	0:92	0/1:148,21	G	A	
										SOM	GT:	0:70	0/1:142,15	C	T	
										SOM	GT:	0:69	0/1:46,7:3	T	C	
							2.9	1.44		SOM	GT:	0:11	0/1:15,8:3	T	C	
			0.3	0.968	0.993	1,D	4.7			SOM	GT:	0:57	0/1:74,17:3	T	C	
	##	0					5.7			SOM	GT:	0:30	0/1:61,12:3	C	T	
4E-04	##	##	0	0.0	0.04,	0.231	1,N	3.09		SOM	GT:	0:12	0/1:199,43	G	A	
	##	0							0	SOM	GT:	0:14	0/1:224,24	C	T	
										SOM	GT:	0:27	0/1:43,7:3	T	G	
			0.0	0.959	0.996	1,D	5.1	3.79		SOM	GT:	0:10	0/1:155,27	T	A	
										SOM	GT:	0:11	0/1:16,3:3	T	C	
							3			SOM	GT:	0:97	0/1:184,36	G	T	
			0.3	0.039	0.041	0.96	4.4	1.40		SOM	GT:	0:54	0/1:103,19	C	T	
			0.0	0.097	0.167	1.00	5	3.97		SOM	GT:	0:51	0/1:88,17:3	C	T	
	##	0								SOM	GT:	0:90	0/1:134,22	G	A	
										SOM	GT:	0:99	0/1:188,25	A	G	
										SOM	GT:	0:14	0/1:254,51	G	A	
2E-04	##	0								SOM	GT:	0:18	0/1:298,64	G	A	
										SOM	GT:	0:52	0/1:100,5:3	C	T	
	##									SOM	GT:	0:68	0/1:89,18:3	C	T	
							2.5			SOM	GT:	0:9,	(0/1:7,7:3	T	C	
							1.40			SOM	GT:	0:42	0/1:61,18:3	C	T	
			0.0	1.0,D	1.0,D	1,D	3.6	3.67		SOM	GT:	0:78	0/1:96,11:3	C	T	
			0.1	0.002	0.0,B	1.00	4.5	3.16		SOM	GT:	0:93	0/1:136,30	C	A	
	##	0	0.0	0.624	0.966	1.00	3.84			SOM	GT:	0:54	0/1:70,10:3	C	A	
										SOM	GT:	0:17	0/1:47,11:3	T	G	
			0.0	0.999	1.0,D	1.00	3.2	3.89		SOM	GT:	0:16	0/1:255,56	C	T	
							2.05			SOM	GT:	0:29	0/1:51,10:3	C	T	
	##	0								SOM	GT:	0:13	0/1:147,15	G	A	
									0	0	SOM	GT:	0:13	0/1:35,4:3	T	G
									0		SOM	GT:	0:12	0/1:33,3:3	T	G
			0.5	0.021	0.011	1,N				SOM	GT:	0:32	0/1:63,15:3	T	C	
			0.0	0.998	1.0,D	1,D	5.7	4.60		SOM	GT:	0:54	0/1:82,10:3	T	G	
										SOM	GT:	0:35	0/1:57,12:3	T	G	
			0.0	1.0,D	1.0,D	1,D	5.6	3.42		SOM	GT:	0:14	0/1:257,48	C	A	
							2.47			SOM	GT:	0:40	0/1:48,11:3	T	C	
	##	0					5.1	1.42		SOM	GT:	0:57	0/1:94,21:3	C	T	
										SOM	GT:	0:35	0/1:47,10:3	T	C	
										SOM	GT:	0:28	0/1:59,8:3	T	A	
	##	##	0	0.1	0.095	0.122	1.00	5.9	3.45		SOM	GT:	0:29	0/1:43,9:3	T	C
			0.0	0.006	0.013	1,N				SOM	GT:	0:60	0/1:100,25	T	C	

									SOM GT:/0:15 0/1:19,3:37 C	T	
									SOM GT:/0:31 0/1:32,6:37 G	T	
		##	0					0 0	SOM GT:/0:69 0/1:96,30:3 C	T	
						3.1			SOM GT:/0:31 0/1:44,10:3 C	T	
									SOM GT:/0:19 0/1:16,6:35 G	A	
		##	0			4.1	1.68	0	SOM GT:/0:58 0/1:86,18:3 C	T	
									SOM GT:/0:11 0/1:142,30 G	A	
		##	0						SOM GT:/0:15 0/1:244,53 G	A	
									SOM GT:/0:17 0/1:55,12:3 G	A	
				0.0,0.993	1.0,D	0.96		3.31	SOM GT:/0:17 0/1:278,43 G	A	
2E-04									DB;S GT:/0:44 0/1:71,16:3 G	A	
									SOM GT:/0:46 0/1:104,11 G	A	
									SOM GT:/0:11 0/1:153,40 G	T	
		##	0					0	SOM GT:/0:21 0/1:42,7:37 C	T	
									SOM GT:/0:28 0/1:66,8:34 G	A	
									SOM GT:/0:42 0/1:73,15:3 A	C	
									SOM GT:/0:33 0/1:71,19:3 T	C	
				0.4	0.025	0.011	0.98		SOM GT:/0:54 0/1:59,19:3 G	A	
								0	SOM GT:/0:49 0/1:101,5:3 C	T	
									SOM GT:/0:91 0/1:140,28 G	T	
									SOM GT:/0:37 0/1:40,3:37 C	T	
									SOM GT:/0:34 0/1:81,8:37 T	G	
									SOM GT:/0:64 0/1:87,6:35 C	T	
									SOM GT:/0:52 0/1:46,5:37 C	T	
									SOM GT:/0:22 0/1:37,3:37 G	A	
									SOM GT:/0:69 0/1:136,8:3 C	T	
									SOM GT:/0:47 0/1:97,12:3 C	T	
								0	SOM GT:/0:33 0/1:42,8:35 G	T	
									SOM GT:/0:41 0/1:41,3:35 G	A	
								0.1	0.5 SOM GT:/0:9,(0/1:6,2:37):C	T	
						2.1		0 0	SOM GT:/0:18 0/1:30,3:37 G	T	
						2.1			SOM GT:/0:18 0/1:29,3:37 G	A	
0.019								0 0	SOM GT:/0:17 0/1:40,3:37 T	A	
		##	0	0.0	0.924	0.994	0.97	5.3	3.78	SOM GT:/0:43 0/1:76,16:3 C	T
0.004									0	SOM GT:/0:9,(0/1:26,5:37 C	T
										SOM GT:/0:75 0/1:105,6:3 T	C
										SOM GT:/0:12 0/1:159,34 G	A
				0.0	0.978	1.0,D	1.00	3.5	3.09	SOM GT:/0:20 0/1:354,61 C	T
		##	0	0.2	0.781	0.994	0.99	4.8	2.69	SOM GT:/0:96 0/1:165,21 C	T
								3		SOM GT:/0:49 0/1:94,4:37 G	T
									0	SOM GT:/0:40 0/1:51,9:37 G	A
		##	0	0.1	0.996	1.0,D	1.00	4.7	5.21	SOM GT:/0:11 0/1:152,35 G	A
		##						3.5		SOM GT:/0:17 0/1:306,11 T	C
										SOM GT:/0:41 0/1:60,9:37 T	C
0.598								0.2	0.1	SOM GT:/0:18 0/1:16,10:3 T	C
									0 0	SOM GT:/0:13 0/1:11,3:37 T	A
						5.8	3.77			SOM GT:/0:41 0/1:48,14:3 G	A
										SOM GT:/0:26 0/1:56,15:3 A	G
				0.0,0.998	1.0,D	1.00	5.1	2.61		SOM GT:/0:39 0/1:46,8:37 C	A
6E-04	0	##	0	0.0	0.916	0.981	0.99	5.9	3.17	SOM GT:/0:35 0/1:34,4:37 G	A
										SOM GT:/0:10 0/1:14,6:37 G	T
		##	0	0.0	0.997	1.0,D	1,D	5.6	4.80	SOM GT:/0:87 0/1:124,22 G	A
										SOM GT:/0:68 0/1:102,31 T	G
										SOM GT:/0:52 0/1:76,8:35 G	A

					1,D	5.5	4.26			SOM GT:/0:98 0/1:166,34 G	T
		##	0							SOM GT:/0:42 0/1:65,8:37 C	T
		##	0	0.0	0.7010.99E	1,D	6	4.93	0	SOM GT:/0:33 0/1:61,8:37 C	T
										SOM GT:/0:30 0/1:45,9:37 C	T
										SOM GT:/0:44 0/1:66,11:3 G	A
		##	0	0.0	0.61,0.975	1.00	3.1	4.07		SOM GT:/0:90 0/1:147,24 G	A
							3.1			SOM GT:/0:11 0/1:178,46 C	T
		0	0							SOM GT:/0:89 0/1:921,27 C	T
										SOM GT:/0:10 0/1:24,3:37 G	A
				0.0	0.99E	1.0,D	1,D	4.4	4.77	SOM GT:/0:13 0/1:202,34 G	A
		0	0							SOM GT:/0:97 0/1:64,10:3 C	T
										SOM GT:/0:41 0/1:43,3:37 T	C
				0.0	1.0,D	1.0,D	1,D	3.7	3.79	SOM GT:/0:34 0/1:74,14:3 C	T
				0.0	0.7470.99E	1.00	5.7	3.34		SOM GT:/0:43 0/1:59,8:37 G	A
										SOM GT:/0:75 0/1:121,24 T	C
										SOM GT:/0:23 0/1:39,5:31 G	A
										SOM GT:/0:25 0/1:37,11:3 G	A
0.001										SOM GT:/0:32 0/1:37,4:37 C	T
										SOM GT:/0:48 0/1:72,12:3 G	A
		##	##	0	0.0	0.8610.98E	0.99	5.5	4.90	SOM GT:/0:10 0/1:151,46 C	T
								2.8	2.65	SOM GT:/0:16 0/1:19,5:34 T	A
				0.0	0.9770.99E	1.00	4.9	3.01		SOM GT:/0:74 0/1:119,22 G	T
2E-04		##	0							SOM GT:/0:14 0/1:235,36 C	T
										SOM GT:/0:64 0/1:98,12:3 G	T
		##	##	0	0.0	0.84E	0.9970.98	4	3.66	SOM GT:/0:91 0/1:174,27 G	A
										SOM GT:/0:52 0/1:97,13:3 C	A
										DB;S GT:/0:51 0/1:61,10:2 G	A
				1.0	0.0040.0010.99					SOM GT:/0:52 0/1:102,16 A	G
				0.6	0.0020.0011,N					SOM GT:/0:16 0/1:40,7:37 C	T
0.002		##	0							SOM GT:/0:18 0/1:27,10:3 G	A
								2.3	3.13	SOM GT:/0:29 0/1:43,7:37 T	C
										SOM GT:/0:64 0/1:88,15:3 C	T
								1.64		SOM GT:/0:40 0/1:80,14:3 C	T
		##	0	0.0	0.2170.93E	1.00	5.6	3.26		SOM GT:/0:32 0/1:46,6:37 C	T
				0.1				5		SOM GT:/0:34 0/1:60,10:3 C	T
										SOM GT:/0:20 0/1:387,61 C	A
										SOM GT:/0:15 0/1:235,47 C	T
										SOM GT:/0:12 0/1:191,10 C	T
		0	0							SOM GT:/0:13 0/1:16,4:37 C	T
										SOM GT:/0:26 0/1:66,16:3 G	A
		0	0	0					0	SOM GT:/0:51 0/1:75,19:3 G	A
		##	0							SOM GT:/0:57 0/1:84,11:3 C	T
0.003									0	0 DB;S GT:/0:27 0/1:60,16:3 C	T
4E-04		0	0	0	0.99E	1.0,D	3.7			SOM GT:/0:11 0/1:190,37 G	A
										SOM GT:/0:62 0/1:100,12 T	G
										SOM GT:/0:68 0/1:100,18 A	G
				0.283	0.68,0.1		5.3	1.29		SOM GT:/0:65 0/1:104,16 C	T
				0.0	0.997	1.0,D	1,D	4.6	5.06	SOM GT:/0:99 0/1:151,36 C	T
				0.1	0.0150.2970.99		4.8	4.97		SOM GT:/0:24 0/1:41,6:32 C	T
										SOM GT:/0:35 0/1:60,7:29 C	T
										SOM GT:/0:18 0/1:41,6:37 C	T
		##	##	0	0.4	0.0020.003	1,N	1.38		SOM GT:/0:36 0/1:65,5:37 C	T
										SOM GT:/0:35 0/1:47,6:35 G	C
										SOM GT:/0:21 0/1:35,4:37 G	A

.	.	.	.	.	.	.	.	.	SOM GT:/0:37 0/1:47,5:34 G	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:8,(0/1:19,4:37 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:11 0/1:5,2:37: T	A
.	.	.	.	.	.	1.63.	.	.	SOM GT:/0:47 0/1:80,10:3 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:10 0/1:143,29 C	T
.	.	.	.	.	.	1.65.	.	.	SOM GT:/0:84 0/1:127,25 T	A
.	0	0	0.	.	.	.	.	.	SOM GT:/0:12 0/1:173,36 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:57 0/1:72,22:3 C	A
.	.	0	0.	.	.	.	.	.	SOM GT:/0:16 0/1:252,36 T	C
.	.	.	.	.	.	.	.	0.	SOM GT:/0:14 0/1:20,4:37 C	T
.	.	##	0.	.	.	3.3.	.	.	SOM GT:/0:10 0/1:176,26 C	T
.	.	##	0 0.0	0.0540.487 1,N	.	3.36.	.	.	SOM GT:/0:68 0/1:107,11 G	A
.	.	.	.	.	.	1,D 4.7.	.	.	SOM GT:/0:90 0/1:148,34 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:39 0/1:59,7:37 C	T
.	.	##	0.	.	.	.	.	0.	SOM GT:/0:92 0/1:111,13 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:25 0/1:31,10:3 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:53 0/1:85,36:3 C	T
0.244	.	.	.	.	.	.	.	0.3 0.5	SOM GT:/0:9,(0/1:5,9:37: A	G
.	.	.	.	.	.	.	.	.	SOM GT:/0:21 0/1:27,3:37 A	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:12 0/1:28,3:37 G	A
.	.	.	0.9	0.972 0.981 1.00	5.6 2.25.	.	.	.	SOM GT:/0:40 0/1:65,9:37 T	C
.	.	.	.	.	.	.	.	.	SOM GT:/0:11 0/1:8,5:37: A	G
.	.	.	.	.	.	.	.	0 0	SOM GT:/0:11 0/1:9,5:32: G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:47 0/1:70,17:3 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:43 0/1:83,18:3 G	T
.	.	.	.	.	.	4 2.52.	.	.	SOM GT:/0:17 0/1:40,7:37 C	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:91 0/1:182,30 G	T
.	0	0.	.	.	.	.	.	.	SOM GT:/0:85 0/1:157,26 C	T
2E-04	0	0.	.	.	.	.	.	.	SOM GT:/0:43 0/1:58,9:37 G	A
.	.	.	.	.	.	.	.	0.	SOM GT:/0:23 0/1:32,9:37 G	A
.	##	0 0 0.2	0.0010.002 1,N	.	.	.	.	.	DB;GT:/0:85 0/1:185,32 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:68 0/1:119,24 G	A
.	0 ##	0.	.	.	1,A	5.79.	.	.	SOM GT:/0:64 0/1:101,19 G	A
0.031	0	0 0 0.	.	.	.	.	.	.	DB;GT:/0:76 0/1:140,29 G	A
.	##	0.	.	.	.	.	.	0	SOM GT:/0:18 0/1:48,7:37 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:20 0/1:13,4:37 C	T
.	##	0.	.	.	.	.	.	.	SOM GT:/0:44 0/1:47,10:3 G	A
.	.	.	.	.	.	5.6 1.92.	.	.	SOM GT:/0:57 0/1:94,14:3 C	T
.	##	0 0.0	0.9940.999 1,D	3.7 3.34.	.	.	.	.	SOM GT:/0:36 0/1:65,10:3 G	A
.	.	.	.	.	.	3.3.	.	.	SOM GT:/0:27 0/1:18,6:37 T	C
.	.	.	.	.	.	.	.	.	SOM GT:/0:22 0/1:30,5:37 C	T
.	0 ##	0 0.0	.	.	1.00.	2.48.	.	.	SOM GT:/0:51 0/1:99,16:3 G	A
.	0	0.	.	.	.	.	.	0	SOM GT:/0:23 0/1:34,8:35 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:12 0/1:58,4:37 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:12 0/1:87,4:37 T	G
.	.	.	.	.	.	.	.	0.	SOM GT:/0:13 0/1:94,10:3 T	C
.	.	.	.	.	.	.	.	.	SOM GT:/0:12 0/1:98,5:37 A	C
.	.	.	.	.	.	.	.	.	SOM GT:/0:27 0/1:377,12 A	C
.	.	.	.	.	.	.	.	.	SOM GT:/0:14 0/1:62,5:37 G	A
.	.	.	.	.	.	.	.	0.	DB;GT:/0:35 0/1:267,13 C	G
.	.	.	0.7	0.0610.097 0.99	5.2.	.	.	.	SOM GT:/0:35 0/1:62,5:34 G	T
.	.	.	.	.	.	2.5.	.	.	SOM GT:/0:30 0/1:38,7:37 T	C
.	.	.	.	.	.	.	.	.	SOM GT:/0:15 0/1:23,4:37 A	G
.	.	.	.	.	.	.	.	.	SOM GT:/0:23 0/1:40,4:37 C	T

					4.9 4.20.			SOM GT:/0:36 0/1:52,6:37 G	A
					1.75.			SOM GT:/0:16 0/1:20,3:37 T	A
		##	0.					SOM GT:/0:26 0/1:40,6:37 G	A
4E-04	0	0	0.		2.3.		0	SOM GT:/0:55 0/1:86,19:3 C	T
								SOM GT:/0:10 0/1:18,4:34 G	A
					2.7.			SOM GT:/0:30 0/1:62,10:3 A	G
								SOM GT:/0:24 0/1:51,10:3 G	T
		##	0.					SOM GT:/0:25 0/1:50,6:37 G	A
					4.1.			SOM GT:/0:27 0/1:52,9:37 G	A
								SOM GT:/0:8,(0/1:12,3:37 C	T
								SOM GT:/0:21 0/1:32,3:37 T	C
								SOM GT:/0:81 0/1:117,12 T	C
								SOM GT:/0:33 0/1:64,16:3 G	A
								SOM GT:/0:62 0/1:82,11:3 C	T
		##	0 0.0,1.0,D	1.0,D	1,D	5 5.17.		SOM GT:/0:78 0/1:127,19 G	A
			0.0 0.9410.997	1,D	5.9 5.77.			SOM GT:/0:69 0/1:114,5:3 G	A
								SOM GT:/0:36 0/1:70,8:37 T	C
							0.	SOM GT:/0:17 0/1:21,4:37 G	A
								SOM GT:/0:36 0/1:48,6:37 T	C
								SOM GT:/0:12 0/1:15,4:37 T	A
								SOM GT:/0:31 0/1:38,7:37 G	A
								SOM GT:/0:32 0/1:38,5:37 G	A
					2.6 1.45.			SOM GT:/0:19 0/1:18,6:37 C	T
			0.0 0.255 0.898	0.68	4.8 3.48.			SOM GT:/0:10 0/1:157,39 C	T
6E-04	0	0	0 0.1 0.0370.108	1.00	3.1 1.59	0.		SOM GT:/0:61 0/1:111,25 C	T
								SOM GT:/0:50 0/1:67,11:3 A	G
								SOM GT:/0:8,(0/1:11,3:37 C	T
								SOM GT:/0:42 0/1:57,13:3 C	T
0.017	0	0	0.					DB;GT:/0:65 0/1:79,15:3 G	A
0.011		0.	0.1 0.0020.014	1,P	1.51	0.		DB;GT:/0:10 0/1:152,20 G	A
								SOM GT:/0:22 0/1:42,5:37 G	T
								SOM GT:/0:19 0/1:30,5:37 C	T
					1.36.			SOM GT:/0:71 0/1:84,5:34 C	A
								SOM GT:/0:29 0/1:39,7:35 C	A
							0	SOM GT:/0:31 0/1:53,12:3 C	T
								SOM GT:/0:60 0/1:131,5:3 G	T
		##	0.	0.008	0.166	1,N		SOM GT:/0:87 0/1:123,10 C	T
2E-04		##	0.					SOM GT:/0:48 0/1:62,21:3 G	A
			0.0	0.034	0.278	0.98	4 1.69.	SOM GT:/0:68 0/1:119,14 G	T
		##	0	1.0,0.001	0.004	1.00	3.3.	SOM GT:/0:21 0/1:36,8:29 C	T
			0.4 0.862	0.998	1.00	3.8 3.69.		SOM GT:/0:67 0/1:145,22 C	T
			0.119	0.389	1.00.			SOM GT:/0:18 0/1:328,65 G	A
1E-03	0	0	0 0.3 0.001	0.0,B	0.99.	1.25.		SOM GT:/0:15 0/1:238,43 G	A
0.002							0.	SOM GT:/0:17 0/1:26,7:37 C	T
					1,D	3.6 2.41.		SOM GT:/0:75 0/1:172,31 C	T
			0.0	0.981	1.0,D	1.00	5.2 3.52.	SOM GT:/0:42 0/1:66,9:37 G	A
		0	0 0.2 0.001	0.002	1,N	1.50.		SOM GT:/0:70 0/1:150,29 G	A
0.278		0	0.				0 0	SOM GT:/0:9,(0/1:17,4:37 A	G
								SOM GT:/0:19 0/1:31,3:37 C	T
			0.0 0.075	0.101	1,D	6.2 3.93.		SOM GT:/0:84 0/1:161,22 C	A
		##	0.					SOM GT:/0:58 0/1:65,18:3 G	A
			0.1 0.269	0.57, 0.95	3.1 2.96.			SOM GT:/0:62 0/1:108,15 C	T
		##	0 0.0 0.93,	1.0,D	1.00	6 5.23.		SOM GT:/0:60 0/1:87,11:3 C	T
								SOM GT:/0:18 0/1:36,5:37 C	T

			0.0,1.0,D 1.0,D 1,D	5.9 3.74.		SOM GT:/0:63 0/1:121,20 G	A
	##	0	0.0,0.988 1.0,D 0.99	5.2 4.81.		SOM GT:/0:29 0/1:45,8:37 G	A
						SOM GT:/0:26 0/1:48,8:35 G	A
	##	0		1.41.		SOM GT:/0:71 0/1:96,20:3 C	T
						SOM GT:/0:26 0/1:38,5:34 G	A
	0	0			0.	SOM GT:/0:63 0/1:117,22 C	T
						SOM GT:/0:23 0/1:50,9:37 G	A
			0.0,1.0,D 1.0,D 1,D	5.3 4.47.		SOM GT:/0:12 0/1:197,31 C	T
			0.1,0.022 0.024 1,D	5.9 2.74.		SOM GT:/0:15 0/1:216,42 G	A
				1,D 5.5 13.0.		SOM GT:/0:95 0/1:178,38 G	A
					0.	SOM GT:/0:12 0/1:29,5:37 A	G
						SOM GT:/0:10 0/1:2,6:37 G	C
						SOM GT:/0:8,(0/1:2,3:37 C	T
						SOM GT:/0:65 0/1:137,16 C	T
	0	0			0 0	SOM GT:/0:13 0/1:32,3:37 C	T
					0 0.2	SOM GT:/0:9,(0/1:12,3:37 G	A
						SOM GT:/0:9,(0/1:11,3:37 G	C
					0.	SOM GT:/0:11 0/1:31,3:37 A	G
						SOM GT:/0:36 0/1:46,8:37 A	C
			0.0:0.041 0.745 1,N			SOM GT:/0:13 0/1:176,17 G	A
	##	0	0.0,0.001 0.003 1.00.			SOM GT:/0:25 0/1:23,4:37 G	A
						SOM GT:/0:10 0/1:10,4:37 G	T
				3.5.		SOM GT:/0:93 0/1:155,27 G	T
				3.7.		SOM GT:/0:23 0/1:19,5:31 C	A
						SOM GT:/0:36 0/1:52,8:37 T	C
				1.82.		SOM GT:/0:70 0/1:126,28 G	A
						SOM GT:/0:17 0/1:30,6:37 A	G
2E-04	##	0	1.0,0.002 0.019 1,N			SOM GT:/0:10 0/1:126,23 G	A
						SOM GT:/0:26 0/1:53,10:3 G	A
	0	0		4.6.		SOM GT:/0:26 0/1:54,17:3 A	G
						SOM GT:/0:31 0/1:62,10:3 G	A
			0.0,1.0,D 1.0,D 1,D	5.7 4.59.		SOM GT:/0:46 0/1:99,11:3 C	T
						SOM GT:/0:13 0/1:202,38 C	T
8E-04	0	0	0.			SOM GT:/0:63 0/1:106,22 C	T
						SOM GT:/0:19 0/1:24,9:37 C	T
						SOM GT:/0:36 0/1:72,16:3 A	G
4E-04	0	0	0.3,0.0,B 0.006 1,N	1.43.		SOM GT:/0:14 0/1:262,46 G	A
					0 0	SOM GT:/0:12 0/1:17,3:37 A	G
				6.1 2.42.		SOM GT:/0:23 0/1:33,4:37 A	G
			0.4,0.001 0.0,B 1,N	4.4.		SOM GT:/0:52 0/1:83,9:37 C	T
6E-04					0 0	SOM GT:/0:35 0/1:47,10:3 C	T
2E-04	##	0	0.0,0.487 0.977 0.89	2.2 3.05.		SOM GT:/0:94 0/1:177,11 C	T
6E-04					0 0	SOM GT:/0:78 0/1:123,27 G	A
						SOM GT:/0:11 0/1:18,4:37 G	A
				1.27.		SOM GT:/0:24 0/1:39,8:37 A	G
			0.0,0.264 0.918 0.99	5.1 3.26.		SOM GT:/0:86 0/1:144,35 C	T
	##	0	0.3,0.018 0.023 0.99	5.8.		SOM GT:/0:10 0/1:173,32 C	T
						SOM GT:/0:12 0/1:24,4:34 G	T
						SOM GT:/0:69 0/1:173,13 G	T
				2.8.		SOM GT:/0:82 0/1:151,29 C	T
				2.8.		SOM GT:/0:73 0/1:102,14 C	T
4E-04					0 0	SOM GT:/0:90 0/1:137,26 C	T
						SOM GT:/0:19 0/1:19,4:37 C	A
			0.1,0.008 0.02,1 1.00.			SOM GT:/0:48 0/1:105,16 G	A

1E-03	.	.	.	.	.	.	.	.	0.	SOM	GT:/0:17	0/1:23,9:37	C	T	
	##	0.	.	.	.	.	.	.	.	SOM	GT:/0:35	0/1:61,13:3	C	T	
										SOM	GT:/0:16	0/1:25,4:37	A	G	
	##	0.	.	.	.	.	.	.	.	SOM	GT:/0:56	0/1:118,16	C	T	
		0.0!	0.982	0.995	1,D	5.2	4.96.	.	.	SOM	GT:/0:69	0/1:114,15	G	T	
										SOM	GT:/0:36	0/1:56,9:37	C	A	
										SOM	GT:/0:8,	0/1:13,5:37	C	T	
										SOM	GT:/0:69	0/1:113,19	T	C	
										SOM	GT:/0:64	0/1:137,5:3	C	T	
	##	0.	.	.	.	.	.	.	0	0	SOM	GT:/0:67	0/1:120,5:3	C	T
	##	0.7!	0.38	0.86,	1,D	5.5	3.10	0.	.	SOM	GT:/0:59	0/1:105,25	G	A	
										SOM	GT:/0:68	0/1:120,9:3	C	A	
	##	0.2!	0.00	0.00	1.00	2.8	.	0.	.	SOM	GT:/0:11	0/1:186,30	C	T	
										SOM	GT:/0:52	0/1:103,20	C	T	
	##	0.	.	.	.	4.8	.	.	.	SOM	GT:/0:63	0/1:125,25	C	T	
	##	##	0.0!	0.99	1,D	6	4.62	0.	.	SOM	GT:/0:57	0/1:100,15	G	A	
			0.0,	0.98	1,D	4.9	4.69.	.	.	SOM	GT:/0:82	0/1:117,19	C	T	
						2.4	2.14.	.	.	SOM	GT:/0:94	0/1:163,31	T	C	
										SOM	GT:/0:98	0/1:152,32	C	T	
0.005									0.	DB;	GT:/0:41	0/1:57,8:3	C	T	
									0	0	DB;	GT:/0:23	0/1:28,6:37	T	C
									0	0	DB;	GT:/0:21	0/1:27,5:2	C	T
	##	0.7!	0.00	0.00	1.00	2.06	.	.	.	SOM	GT:/0:56	0/1:117,24	G	A	
										SOM	GT:/0:64	0/1:103,25	G	A	
		0.1!	0.01	0.03	1.00	.	.	.	.	SOM	GT:/0:96	0/1:133,42	G	A	
										SOM	GT:/0:85	0/1:150,24	C	T	
										SOM	GT:/0:80	0/1:171,29	C	T	
		0.1!	0.01	0.04	1,N	3	3.01.	.	.	SOM	GT:/0:10	0/1:210,10	C	T	
0.087	0	.	.	.	.	.	.	0.1	0.1	DB;	GT:/0:35	0/1:34,8:37	G	A	
										SOM	GT:/0:47	0/1:85,13:3	G	A	
		0.4!	0.6,P	0.94,	1,N	3.02	.	.	.	SOM	GT:/0:46	0/1:73,22:3	C	T	
		0.3!	0.01	0.04	1,N	2.7	.	.	.	SOM	GT:/0:18	0/1:16,6:3	A	G	
										SOM	GT:/0:58	0/1:112,14	G	T	
	##	0.8!	0.00	0.01	1,D	.	.	0.	.	SOM	GT:/0:10	0/1:178,31	G	A	
	0	0.9!	0.00	0.00	0.88	3.7	.	.	.	SOM	GT:/0:71	0/1:139,23	C	T	
		0.1!	0.47	0.38	1,N	.	.	.	.	SOM	GT:/0:68	0/1:111,18	G	T	
		0.0!	0.98	1.0,D	0.98	4.5	1.94.	.	.	SOM	GT:/0:15	0/1:200,41	C	T	
2E-04	0	0	0.	.	.	.	.	.	.	DB;	GT:/0:67	0/1:125,26	C	T	
										SOM	GT:/0:61	0/1:123,20	G	A	
	##	0.0!	0.97	0.99	0.99	4	3.94.	.	.	SOM	GT:/0:43	0/1:106,18	C	T	
										SOM	GT:/0:63	0/1:136,24	C	A	
						1.39	.	.	.	DB;	GT:/0:56	0/1:86,8:37	C	T	
		0.0!	0.99	1.0,D	1,D	4.5	4.54.	.	.	SOM	GT:/0:35	0/1:63,12:3	C	A	
						2.9	.	.	.	SOM	GT:/0:43	0/1:76,10:3	C	T	
	##	0.4!	0.0,B	0.00	1.00	3.5	.	.	.	SOM	GT:/0:70	0/1:130,17	G	A	
										SOM	GT:/0:10	0/1:21,5:37	T	C	
	##	##	0.	.	.	.	.	.	.	SOM	GT:/0:12	0/1:190,26	C	T	
2E-04								0.	.	SOM	GT:/0:18	0/1:24,6:37	C	T	
						2.1	.	.	.	SOM	GT:/0:87	0/1:155,24	G	A	
		0.0!	0.96	0.99	0.53	3.45	.	.	.	SOM	GT:/0:60	0/1:101,37	C	A	
										SOM	GT:/0:10	0/1:204,41	G	A	
8E-04								0.	.	DB;	GT:/0:51	0/1:99,18:3	C	T	
										SOM	GT:/0:11	0/1:182,44	G	A	
										SOM	GT:/0:12	0/1:168,45	C	T	

	##	0							SOM GT:/0:21 0/1:18,4:37 C	T		
									SOM GT:/0:21 0/1:44,6:37 C	A		
2E-04									SOM GT:/0:14 0/1:28,5:37 C	T		
									SOM GT:/0:23 0/1:27,5:31 A	T		
4E-04	0	0	0.0	0.932	0.99	0.99	2.73	0	SOM GT:/0:43 0/1:64,11:3 G	A		
									SOM GT:/0:10 0/1:1,2:37: G	A		
	##	##	0	0.0	1.0,D	1.0,D	0.99	4.3	5.25	SOM GT:/0:28 0/1:481,73 C	T	
							3.2			SOM GT:/0:57 0/1:75,22:3 C	A	
										SOM GT:/0:35 0/1:68,9:37 G	A	
										SOM GT:/0:17 0/1:16,5:37 C	A	
										SOM GT:/0:15 0/1:23,6:28 C	A	
6E-04										SOM GT:/0:15 0/1:21,3:37 C	T	
0.007	0	0	0					0	0.1	DB;SOM GT:/0:37 0/1:65,10:3 G	A	
			0.0	0.99	1.0,D	1.00	4.6	2.46		SOM GT:/0:42 0/1:73,11:3 G	T	
							3	2.07		SOM GT:/0:21 0/1:27,3:37 C	T	
										SOM GT:/0:26 0/1:35,4:37 T	C	
			0.7	0.23	0.804	1,N	2.47			SOM GT:/0:53 0/1:54,15:3 A	T	
	##	0	0.0	0.99	1.0,D	1,D	5	5.02		SOM GT:/0:38 0/1:50,11:3 T	C	
0.003	0	0	0							SOM GT:/0:33 0/1:54,7:37 A	G	
			0.0	0.994	0.99	1,D	5.8	4.12		SOM GT:/0:33 0/1:104,8:3 A	G	
										SOM GT:/0:59 0/1:92,18:3 A	G	
	##	0	0	0.1	0.787	0.99	1,N	3.04		SOM GT:/0:62 0/1:94,11:3 G	A	
										SOM GT:/0:11 0/1:12,3:37 G	T	
								0		SOM GT:/0:56 0/1:69,14:3 G	A	
	##	0					1.99			SOM GT:/0:27 0/1:61,11:3 G	A	
2E-04	##	0								SOM GT:/0:25 0/1:411,67 C	T	
			0.7	0.99	1.0,D	1.00	5.9	3.84		SOM GT:/0:27 0/1:32,4:34 G	A	
										SOM GT:/0:9,(0/1:9,3:37: G	A	
										SOM GT:/0:19 0/1:27,3:37 G	A	
										SOM GT:/0:65 0/1:74,4:37 A	G	
										SOM GT:/0:13 0/1:179,23 C	T	
										SOM GT:/0:13 0/1:28,3:37 G	A	
								0		SOM GT:/0:40 0/1:64,6:37 G	A	
			0.1	0.01	0.025	1,N		0		SOM GT:/0:46 0/1:97,20:3 G	A	
	##	##	0							SOM GT:/0:47 0/1:79,12:3 G	A	
										SOM GT:/0:22 0/1:39,14:3 C	A	
										SOM GT:/0:53 0/1:117,14 G	A	
										SOM GT:/0:12 0/1:11,5:37 C	A	
6E-04	0	0	0	0.3	0.73	0.99	1,D	6	2.56	0	SOM GT:/0:28 0/1:46,5:37 G	A
8E-04								3.6	1.58		SOM GT:/0:8,(0/1:7,3:37: A	G
									0		SOM GT:/0:11 0/1:26,6:37 G	A
											SOM GT:/0:13 0/1:17,3:37 A	G
	##	0						0	0		SOM GT:/0:56 0/1:89,13:3 C	T
			0.0	0.98	0.99	1,D	6.2	5.20			SOM GT:/0:48 0/1:99,7:37 C	T
											SOM GT:/0:63 0/1:96,24:3 G	A
2E-04	0	##	0	0.0	0.99	1.0,D	1,D	5.2	4.17		SOM GT:/0:10 0/1:177,36 C	T
			0.0	0.99	1.0,D	1,D	4.4	3.97			SOM GT:/0:37 0/1:46,5:37 C	A
											SOM GT:/0:31 0/1:74,9:37 C	A
	##	0					2.1	1.45			SOM GT:/0:28 0/1:40,5:37 A	G
	0	0									SOM GT:/0:70 0/1:95,4:37 A	G
											SOM GT:/0:21 0/1:28,6:28 A	G
											SOM GT:/0:14 0/1:19,4:37 C	T
							2.57				SOM GT:/0:38 0/1:69,6:37 A	G
											SOM GT:/0:39 0/1:57,7:37 A	G



2E-04	##	0 0.0	0.998 1.0,D 1.00	5.2 4.83	0	SOM GT:/0:43 0/1:86,18:3 C	T
				4.4 1.39		SOM GT:/0:18 0/1:38,10:3 C	T
				1.28		SOM GT:/0:43 0/1:88,20:3 C	T
						SOM GT:/0:17 0/1:50,4:37 C	T
						SOM GT:/0:8,(0/1:12,4:37 C	T
				1.59		SOM GT:/0:10 0/1:148,34 G	A
	##	##	1,A	3.9 12.2	0	SOM GT:/0:48 0/1:56,16:3 G	A
		##	0 0.1	0.006 0.066 0.72	3.9 3.01	SOM GT:/0:21 0/1:53,13:3 G	A
						SOM GT:/0:40 0/1:39,9:37 G	T
				2.29		SOM GT:/0:17 0/1:12,4:37 T	G
		##	0 0.0	0.336 0.912 0.99	5.8 3.59	SOM GT:/0:52 0/1:104,22 C	T
						SOM GT:/0:11 0/1:42,4:37 G	A
						SOM GT:/0:38 0/1:48,19:3 G	A
						SOM GT:/0:37 0/1:41,11:3 C	T
		##	0 0.0	0.828 0.999 1,D	4.8 4.65	SOM GT:/0:65 0/1:85,17:3 G	A
	##	##	0 0.0	1.0,D 1.0,D 1,D	4.9 4.09	SOM GT:/0:47 0/1:77,13:3 C	T
						SOM GT:/0:56 0/1:86,18:3 C	T
			0.0	0.93,1 1.0,D 0.99	5.6 4.37	SOM GT:/0:12 0/1:188,47 G	A
				3 2.85		SOM GT:/0:60 0/1:96,21:3 A	G
					0	SOM GT:/0:15 0/1:229,49 C	T
						SOM GT:/0:36 0/1:65,18:3 C	A
						SOM GT:/0:17 0/1:12,6:37 G	A
						SOM GT:/0:17 0/1:26,8:37 T	G
						SOM GT:/0:18 0/1:30,5:34 C	T
			0.0	0.455 0.822 0.95	3.9 1.76	SOM GT:/0:70 0/1:109,20 C	T
						SOM GT:/0:9,(0/1:7,6:35: T	A
						SOM GT:/0:42 0/1:60,12:3 A	G
		##	0		0	SOM GT:/0:55 0/1:73,15:3 G	A
				1,A	5 8.40	SOM GT:/0:67 0/1:130,21 C	T
	0	0	0		1.65	SOM GT:/0:31 0/1:53,12:3 C	T
			0.0	0.993 1.0,D 1,D	3.8 4.93	SOM GT:/0:53 0/1:91,28:3 C	T
2E-04					1.50	SOM GT:/0:63 0/1:109,22 G	A
					1.46	SOM GT:/0:57 0/1:123,7:3 G	T
						SOM GT:/0:24 0/1:55,5:37 C	T
2E-04	0	0				SOM GT:/0:36 0/1:77,4:37 C	T
			0.6	0.002 0.001 1,N		SOM GT:/0:81 0/1:153,17 G	T
					2.8	SOM GT:/0:15 0/1:251,58 G	A
		##	0			SOM GT:/0:37 0/1:62,12:3 G	A
						SOM GT:/0:19 0/1:292,52 G	A
						SOM GT:/0:44 0/1:55,15:3 T	C
						SOM GT:/0:21 0/1:33,6:33 G	T
						SOM GT:/0:12 0/1:4,2:37: C	A
				3.2 2.43		SOM GT:/0:29 0/1:47,7:36 G	T
						SOM GT:/0:19 0/1:36,8:37 G	A
		##	0			SOM GT:/0:16 0/1:295,76 C	T
	##	##	0 0.1	0.002 0.008 1,N		SOM GT:/0:46 0/1:86,21:3 G	A
			0.1	0.257 0.687 1.00	4.7 1.29	SOM GT:/0:56 0/1:89,21:3 A	G
						SOM GT:/0:86 0/1:139,30 G	T
						SOM GT:/0:24 0/1:52,13:3 G	A
		0	0			SOM GT:/0:51 0/1:96,24:3 G	A
		0	0			SOM GT:/0:75 0/1:103,26 G	A
						SOM GT:/0:93 0/1:131,25 T	C
						SOM GT:/0:28 0/1:40,6:37 G	A
			0.0	0.993 1.0,D 1.00	3.2 1.94	SOM GT:/0:95 0/1:164,33 C	T

0	##	0	.	.	.	.	.	0	SOM	GT:	0:23	0/1:394,61	C	T		
.	.	.	.	.	.	.	.	.	SOM	GT:	0:10	0/1:23,5:37	A	G		
.	.	.	.	.	.	.	.	.	SOM	GT:	0:48	0/1:90,25:3	C	T		
.	.	.	.	.	.	.	.	.	SOM	GT:	0:51	0/1:91,14:3	G	A		
.	.	.	.	.	.	.	.	.	SOM	GT:	0:72	0/1:99,24:3	G	T		
.	.	.	.	.	.	.	.	.	SOM	GT:	0:19	0/1:32,11:3	G	A		
0.18	.	.	.	.	.	.	.	.	SOM	GT:	0:8,	0/1:6,2:37	T	C		
.	.	.	0.1	0.015	0.027	1,N	4.8	.	SOM	GT:	0:83	0/1:116,18	T	C		
.	.	.	.	.	.	.	.	.	SOM	GT:	0:39	0/1:55,7:37	G	A		
.	.	.	.	.	.	.	.	.	SOM	GT:	0:26	0/1:27,3:37	C	T		
.	.	.	.	.	.	.	3.4	1.62	SOM	GT:	0:65	0/1:130,6:3	G	A		
0.01	0	0	0	.	.	.	3.9	.	0	0	DB;	GT:	0:10	0/1:199,43	C	T
.	.	.	.	.	.	1,D	5.4	16.1	.	.	SOM	GT:	0:83	0/1:137,20	G	A
.	.	.	0.7	0.052	0.024	0.99	5.2	.	.	.	SOM	GT:	0:13	0/1:219,44	C	T
0.003	0	0	0	0.1	0.001	0.008	1,N	1.50	0	.	DB;	GT:	0:73	0/1:127,23	C	T
.	##	0	.	.	.	.	.	.	0	0	SOM	GT:	0:37	0/1:43,5:37	C	T
.	.	.	0.96	0.99	.	.	5.7	5.19	.	.	SOM	GT:	0:79	0/1:102,15	G	A
.	##	0	0.0	0.992	1.0,D	1,D	4.7	5.02	.	.	SOM	GT:	0:20	0/1:37,8:37	C	T
.	.	.	0.0	1.0,D	1.0,D	1,D	4.9	4.04	.	.	SOM	GT:	0:47	0/1:86,17:3	C	A
.	.	.	.	.	.	.	3.1	3.01	.	.	SOM	GT:	0:21	0/1:39,8:37	G	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:	0:10	0/1:35,6:37	G	A
.	##	0	0.0	0.151	0.54	1,D	3.2	2.63	.	.	SOM	GT:	0:14	0/1:263,48	G	A
.	.	.	0.3	.	0.99	2.7	1.67	.	.	.	SOM	GT:	0:64	0/1:94,15:3	G	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:	0:21	0/1:25,6:37	G	T
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:	0:55	0/1:106,17	C	T
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:	0:41	0/1:51,9:35	G	T
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:	0:35	0/1:59,6:37	C	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:	0:59	0/1:75,8:37	A	C
0.005	0	0	0	0.0	0.978	1.0,D	1,D	5.8	5.04	.	DB;	GT:	0:96	0/1:137,19	G	A
.	.	.	0.4	0.032	0.002	1.00	5.6	2.60	.	.	SOM	GT:	0:31	0/1:44,7:37	A	G
.	.	.	.	.	.	.	.	1.90	.	.	SOM	GT:	0:16	0/1:34,4:37	A	T
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:	0:19	0/1:47,9:37	C	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:	0:69	0/1:96,21:3	C	T
.	.	.	0.0	0.995	1.0,D	1,D	5.4	4.86	.	.	SOM	GT:	0:52	0/1:62,20:3	C	T
.	.	.	0.1	0.029	0.703	0.63	2.3	2.96	.	.	SOM	GT:	0:11	0/1:203,46	G	A
.	.	.	.	.	1,D	3.5	11.1	.	.	.	SOM	GT:	0:64	0/1:107,22	G	A
.	##	.	.	.	.	.	.	.	.	.	SOM	GT:	0:75	0/1:129,25	C	T
.	.	.	0.0	0.977	0.999	1.00	3.5	.	.	.	SOM	GT:	0:22	0/1:54,9:34	T	C
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:	0:45	0/1:59,8:37	T	C
.	.	.	0.0	1.0,D	1.0,D	1.00	4.4	4.35	.	.	SOM	GT:	0:53	0/1:115,7:3	T	G
.	##	0	0.0	1.0,D	1.0,D	0.90	3.2	.	.	.	SOM	GT:	0:16	0/1:247,51	G	A
.	##	.	1.0	0.004	0.006	1,N	.	.	.	.	SOM	GT:	0:77	0/1:102,16	C	T
.	##	0	.	.	.	.	.	.	0	.	SOM	GT:	0:35	0/1:45,5:37	C	T
.	##	0	0.0	1.0,D	1.0,D	1.00	5	4.11	.	.	SOM	GT:	0:98	0/1:165,21	G	A
.	.	.	.	.	.	.	.	5.1	.	.	SOM	GT:	0:17	0/1:24,7:37	C	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:	0:14	0/1:250,37	G	T
.	##	0	.	.	.	.	.	.	0	.	SOM	GT:	0:68	0/1:88,17:3	G	A
.	##	##	0	0.0	0.288	0.928	1.00	5	3.02	.	SOM	GT:	0:67	0/1:119,13	C	T
.	##	##	0	0.0	0.005	0.006	0.75	3.7	1.63	.	SOM	GT:	0:92	0/1:179,31	C	T
.	.	.	.	.	.	.	4.7	.	.	.	SOM	GT:	0:15	0/1:37,8:34	T	G
.	##	0	0.3	0.812	0.997	1,D	5.3	3.80	.	.	SOM	GT:	0:34	0/1:60,10:3	C	T
0.023	0	0	0	.	.	.	.	.	.	.	DB;	GT:	0:40	0/1:96,17:3	G	A
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:	0:32	0/1:70,11:3	T	A
.	##	0	0.0	0.069	0.218	1.00	5	3.71	.	.	SOM	GT:	0:45	0/1:93,19:3	C	T

	##	0				1.45		SOM GT:/0:86 0/1:157,30 G	A			
2E-04	0	0	0					SOM GT:/0:25 0/1:42,6:37 C	T			
								SOM GT:/0:15 0/1:22,5:37 G	A			
				0.2	0.0,B	0.0,B	1,N	SOM GT:/0:86 0/1:178,38 G	A			
						3.1		SOM GT:/0:49 0/1:95,22:3 G	A			
	##	##	0	0.1	0.662	0.998	0.82	2.3	4.16	SOM GT:/0:59 0/1:131,22 G	A	
				0.0	0.718	0.991	0.96	3.8	3.80	SOM GT:/0:45 0/1:96,23:3 G	A	
										SOM GT:/0:12 0/1:26,4:34 T	G	
										SOM GT:/0:16 0/1:230,32 G	A	
						2.6		SOM GT:/0:13 0/1:196,44 C	T			
						2.1		SOM GT:/0:61 0/1:105,18 C	T			
				0.1	0.979	0.995	0.53	2.3	2.09	SOM GT:/0:59 0/1:123,24 C	T	
				0.0	0.992	0.999	1.00	5	4.68	SOM GT:/0:67 0/1:151,23 T	C	
										SOM GT:/0:23 0/1:30,6:37 G	A	
								0		SOM GT:/0:52 0/1:52,8:32 C	T	
	##	##	0					3.28		SOM GT:/0:24 0/1:466,80 C	T	
		##	0	0.0	0.998	1.0	D	1,D	4.1	3.12	SOM GT:/0:27 0/1:427,85 C	T
										SOM GT:/0:25 0/1:21,6:37 G	A	
										SOM GT:/0:28 0/1:33,7:33 A	G	
		##	0	0.0	0.959	1.0	D	1.00	4.8	4.03	SOM GT:/0:74 0/1:116,29 C	T
0.002								2.5		SOM GT:/0:59 0/1:120,15 G	A	
										SOM GT:/0:28 0/1:34,3:37 G	C	
						2.4		SOM GT:/0:39 0/1:55,8:37 C	A			
										SOM GT:/0:38 0/1:59,9:37 A	G	
										SOM GT:/0:19 0/1:20,6:37 C	A	
										SOM GT:/0:22 0/1:22,4:37 T	C	
						4.4		SOM GT:/0:36 0/1:50,17:3 G	A			
										SOM GT:/0:19 0/1:33,9:37 C	T	
		##	0	0.2	0.05,	0.652	1,N			SOM GT:/0:75 0/1:97,17:3 G	A	
		##	0	0.1	0.004	0.096	1,N	1.64		SOM GT:/0:59 0/1:93,15:3 G	A	
		##	0							SOM GT:/0:29 0/1:59,13:3 C	T	
										SOM GT:/0:11 0/1:220,40 G	A	
								0	0.1	SOM GT:/0:10 0/1:2,2:37: G	C	
										SOM GT:/0:44 0/1:61,9:35 G	A	
				0.0	0.999	1.0	D	1,D	5.6	4.14	SOM GT:/0:50 0/1:100,29 G	A
										SOM GT:/0:20 0/1:27,8:37 G	A	
0.007		0	0							DB;:GT:/0:30 0/1:41,9:35 G	A	
0.001	0	0	0	0.0	0.233	0.647	1,D	5.6	3.66	SOM GT:/0:44 0/1:65,15:3 G	A	
										SOM GT:/0:20 0/1:26,6:37 G	A	
		##	0	0.0	0.204	0.284	1,D	5.3	3.64	SOM GT:/0:68 0/1:90,23:3 C	T	
						3.9	1.89	SOM GT:/0:28 0/1:44,9:35 A	G			
						1.33		SOM GT:/0:48 0/1:62,14:3 T	C			
						1.75		SOM GT:/0:99 0/1:150,24 A	G			
4E-04										SOM GT:/0:30 0/1:69,7:37 C	T	
						5.8	5.38	SOM GT:/0:16 0/1:35,12:3 G	A			
										SOM GT:/0:63 0/1:89,17:3 C	T	
		##	0							SOM GT:/0:35 0/1:50,13:3 G	A	
								0		SOM GT:/0:26 0/1:22,15:3 T	G	
						4.8		SOM GT:/0:83 0/1:110,16 C	T			
						2.7		SOM GT:/0:75 0/1:111,21 C	A			
				0.1	0.211	0.673	0.98	4.9	3.03	SOM GT:/0:70 0/1:130,27 C	T	
										SOM GT:/0:21 0/1:31,6:37 G	T	
						2.81		SOM GT:/0:78 0/1:149,35 C	A			
						4.7		SOM GT:/0:43 0/1:65,11:3 G	A			

	##	0							SOM GT:/0:38 0/1:65,13:3T	C		
			0.0	1.0,D	1.0,D	1,D	4.7	4.88	SOM GT:/0:42 0/1:68,5:37C	A		
0.002	0	0	0	0.0	0.977	1.0,D	0.83	4.3	3.69	0	SOM GT:/0:10 0/1:200,36 C	T
0.003	0	0	0	0.0	0.77,	0.819	1,N		1.29		SOM GT:/0:25 0/1:403,73 C	T
0.002		0	0							0	SOM GT:/0:14 0/1:176,31 C	T
								2.9			SOM GT:/0:58 0/1:88,15:3C	A
			0.0	0.998	0.998	1,D	5.5	3.68			SOM GT:/0:48 0/1:61,11:3C	T
			0.0	1.0,D	1.0,D	1,D	5.4	5.19			SOM GT:/0:78 0/1:124,28 G	A
4E-04		0	0								SOM GT:/0:36 0/1:74,10:3C	T
	##										DB;:GT:/0:21 0/1:398,69 G	T
	##	0	0.1	1.0,D	1.0,D	1,D	5.9	4.06			SOM GT:/0:72 0/1:108,27 G	A
			0.0	0.61,	0.566	0.97		3.26			SOM GT:/0:87 0/1:139,26 G	T
											SOM GT:/0:14 0/1:17,3:37G	A
											SOM GT:/0:9,(0/1:17,3:37G	A
											SOM GT:/0:22 0/1:31,4:27C	T
							2				SOM GT:/0:9,(0/1:45,11:3G	A
	##	0	0.5	0.168	0.642	0.85	4.9	3.51			SOM GT:/0:45 0/1:77,9:32G	A
											SOM GT:/0:17 0/1:31,5:37G	T
							3.7	1.29			SOM GT:/0:14 0/1:220,39 C	T
4E-04	##	##	0							0	SOM GT:/0:13 0/1:175,37 C	T
										0	0 SOM GT:/0:43 0/1:69,12:3G	A
										0	SOM GT:/0:17 0/1:21,3:37C	T
											SOM GT:/0:91 0/1:144,29 C	A
							2.3				SOM GT:/0:28 0/1:48,9:37G	T
			0.0	0.928	0.997	1.00	4.9	3.64			SOM GT:/0:12 0/1:226,36 A	G
			0.1	0.005	0.04,	1,N		2.00			SOM GT:/0:83 0/1:127,22 G	A
								3.44			SOM GT:/0:19 0/1:42,11:3C	T
											SOM GT:/0:8,(0/1:10,3:37C	T
											SOM GT:/0:87 0/1:130,32 C	A
							1.00	2.9	1.47		SOM GT:/0:35 0/1:68,13:3T	C
			0.1	0.001	0.0,B	1,N					SOM GT:/0:57 0/1:91,18:3T	A
			0.1	0.666	0.885	1,D	3.1	2.21			SOM GT:/0:35 0/1:58,10:3G	A
							2.2	1.34			SOM GT:/0:8,(0/1:17,3:37A	G
										0	DB;:GT:/0:21 0/1:28,3:37T	C
											SOM GT:/0:64 0/1:90,16:3C	A
											SOM GT:/0:69 0/1:131,21 G	A
							2.01				SOM GT:/0:50 0/1:83,15:3C	A
	##	0	0.0	0.99,	1.0,D	1,D		4.09			SOM GT:/0:46 0/1:79,14:3C	T
			0.0	0.93,	0.996	1,D	6	3.76			SOM GT:/0:51 0/1:76,12:3T	C
	##	0									SOM GT:/0:17 0/1:17,3:37C	T
			0.0	0.999	1.0,D	1.00	4	4.05			SOM GT:/0:39 0/1:61,6:37C	T
						1,A	3.9	7.41			SOM GT:/0:25 0/1:43,6:37G	T
											SOM GT:/0:8,(0/1:27,8:37A	C
			0.0	0.865	0.988	0.96	3.7	1.94			SOM GT:/0:27 0/1:28,5:37A	G
											SOM GT:/0:44 0/1:61,11:3A	G
							3.1	2.96			SOM GT:/0:36 0/1:51,7:35C	T
	0	##	0								SOM GT:/0:62 0/1:111,17 C	T
											SOM GT:/0:36 0/1:65,11:3C	T
											SOM GT:/0:36 0/1:66,7:37G	A
											SOM GT:/0:10 0/1:15,7:33C	T
											SOM GT:/0:9,(0/1:13,3:37C	T
											SOM GT:/0:13 0/1:42,4:37C	T
											SOM GT:/0:27 0/1:29,5:37A	T
			0.0	0.069	0.246	1,N					SOM GT:/0:55 0/1:90,18:3A	C

									SOM GT:/0:36 0/1:61,8:37 C	T	
			0.0	0.808	0.98	1,1,N	2.20		SOM GT:/0:15 0/1:281,45 T	C	
2E-04							1.67		SOM GT:/0:66 0/1:126,36 G	A	
	##	0	0.0	0.996	1.0,D	1,D	4.6	5.03	SOM GT:/0:56 0/1:92,24:3 G	A	
									SOM GT:/0:40 0/1:68,15:3 A	G	
0.035							2.5	3.31	DB;S GT:/0:24 0/1:42,8:37 G	A	
									SOM GT:/0:77 0/1:95,25:3 G	A	
			0.0	0.987	0.996	1,D	5.7	5.20	SOM GT:/0:34 0/1:55,7:37 T	C	
									SOM GT:/0:58 0/1:102,11 A	G	
									SOM GT:/0:45 0/1:73,21:3 G	T	
	##	##						0	SOM GT:/0:20 0/1:38,4:37 C	T	
2E-04	##	0	0.1	0.446	0.995	0.96			SOM GT:/0:63 0/1:99,19:3 G	A	
							4.6		SOM GT:/0:69 0/1:117,29 C	T	
									SOM GT:/0:38 0/1:62,24:3 G	A	
							2.01		SOM GT:/0:49 0/1:114,5:3 C	T	
									SOM GT:/0:36 0/1:75,13:3 G	A	
							5.3	2.00	SOM GT:/0:14 0/1:23,5:26 G	T	
	##	##	0	0.0	0.871	0.991	0.99	4.1	4.54	SOM GT:/0:41 0/1:48,5:37 C	T
	##	0	0.0	0.98	1.0,D	1.00	4.9	4.81	SOM GT:/0:82 0/1:111,22 C	T	
0.021								0	DB;S GT:/0:34 0/1:39,7:37 T	A	
									SOM GT:/0:14 0/1:25,4:37 G	C	
			0.0	0.998	0.999	1,D	5	4.83	SOM GT:/0:95 0/1:155,32 G	A	
	##	##	0					0	SOM GT:/0:38 0/1:70,12:3 G	A	
									SOM GT:/0:26 0/1:34,3:37 T	C	
2E-04	0	0	0.0	0.014	0.068	1.00	3.03		SOM GT:/0:10 0/1:180,30 G	A	
			0.1	0.272	0.565	0.99	3	2.43	SOM GT:/0:68 0/1:107,29 T	G	
2E-04	0	0					3.9		SOM GT:/0:45 0/1:54,11:3 C	T	
			0.0	0.549	0.956	1,D	5.2	4.98	SOM GT:/0:56 0/1:74,10:3 A	G	
			0.2	0.012	0.019	1,D	4.9	2.97	SOM GT:/0:58 0/1:76,15:3 A	G	
			0.0	0.001	0.003	1,N			SOM GT:/0:55 0/1:88,17:3 G	A	
	##	0					2.9		SOM GT:/0:50 0/1:93,14:3 C	T	
			0.0	0.946	0.999	1.00	5.5	4.78	SOM GT:/0:35 0/1:59,6:37 A	C	
	##	##	0	0.4	0.195	0.736	1.00	5.9	2.50	SOM GT:/0:30 0/1:38,7:37 C	T
							1.50		SOM GT:/0:58 0/1:78,12:3 G	T	
			0.2	0.976	0.999	1,D	5.1	3.90	SOM GT:/0:37 0/1:64,11:3 C	A	
			0.0	0.999	1.0,D	1,D	5.7	4.55	SOM GT:/0:50 0/1:79,8:37 G	T	
	##	0					3.1	1.36	SOM GT:/0:59 0/1:61,13:3 C	T	
								0	SOM GT:/0:38 0/1:39,10:3 A	G	
			0.0	0.864	0.997	0.99	3.3	2.82	SOM GT:/0:32 0/1:64,9:37 G	T	
									SOM GT:/0:72 0/1:112,20 C	T	
									SOM GT:/0:30 0/1:38,6:37 G	A	
2E-04	##	0	0.0	0.266	0.923	1,D	5.7	3.88	SOM GT:/0:58 0/1:84,12:3 G	A	
2E-04	##								SOM GT:/0:26 0/1:54,8:37 G	A	
									SOM GT:/0:27 0/1:35,5:37 T	C	
	##	0	0.5	0.002	0.002	1,N	4.1		SOM GT:/0:75 0/1:130,30 C	T	
									SOM GT:/0:53 0/1:87,9:35 C	T	
									SOM GT:/0:29 0/1:29,10:3 A	G	
							4.4		SOM GT:/0:23 0/1:43,9:35 G	T	
			0.0	0.999	1.0,D	1,D	5.4	4.00	SOM GT:/0:71 0/1:96,20:3 G	T	
									SOM GT:/0:48 0/1:80,13:3 G	A	
									SOM GT:/0:75 0/1:132,24 C	T	
			0.2	1.0,D	1.0,D	1,D	6	2.22	SOM GT:/0:23 0/1:57,7:37 C	T	
									SOM GT:/0:13 0/1:14,4:37 T	C	
									SOM GT:/0:19 0/1:36,6:37 C	T	

										SOM GT:/0:9,(0/1:9,3:37: G	T
									3.7	SOM GT:/0:22 0/1:25,4:37 C	A
	##	##	0							SOM GT:/0:59 0/1:87,15:3 G	A
		##	0							SOM GT:/0:52 0/1:82,9:34 C	T
										SOM GT:/0:62 0/1:95,4:37 T	G
										SOM GT:/0:16 0/1:27,7:35 A	G
									3.27	SOM GT:/0:83 0/1:124,28 G	T
									3.6 2.68	SOM GT:/0:18 0/1:28,5:37 C	T
		0	0						2.56	SOM GT:/0:38 0/1:55,7:37 C	T
				0.7,0.0010.0011,N						SOM GT:/0:68 0/1:82,20:3 A	T
										SOM GT:/0:9,(0/1:9,3:37: G	A
										SOM GT:/0:40 0/1:59,14:3 C	T
										SOM GT:/0:15 0/1:23,4:37 G	T
										SOM GT:/0:12 0/1:21,3:37 G	A
2E-04										SOM GT:/0:57 0/1:94,11:3 G	A
										SOM GT:/0:18 0/1:32,7:37 C	A
										SOM GT:/0:14 0/1:19,3:37 G	A
									2.11	SOM GT:/0:22 0/1:32,4:37 T	C
	##	##	0							SOM GT:/0:28 0/1:45,12:3 C	T
										SOM GT:/0:36 0/1:58,10:3 T	C
0.001		0	0						0 0	SOM GT:/0:11 0/1:165,45 G	A
									5.5 4.12	SOM GT:/0:18 0/1:23,5:37 T	G
		##	0							SOM GT:/0:42 0/1:74,14:3 C	T
				0.3 0.8140.9991,N	4.4 1.24	0	0			SOM GT:/0:40 0/1:75,16:3 G	A
										SOM GT:/0:39 0/1:63,12:3 G	T
										SOM GT:/0:13 0/1:227,35 T	C
										SOM GT:/0:46 0/1:61,11:3 C	T
				0.0 0.9760.9991,D	5.8 5.60					SOM GT:/0:57 0/1:98,18:3 C	T
										SOM GT:/0:65 0/1:142,5:3 C	T
				0.77, 0.99, 1.00	5.2 4.36					SOM GT:/0:34 0/1:40,8:37 G	T
		##	0	0.0 0.7430.9581,D	4.9 4.00	0				SOM GT:/0:26 0/1:37,6:37 G	A
										SOM GT:/0:29 0/1:50,8:37 G	A
		##	0							SOM GT:/0:57 0/1:80,19:3 G	A
									4.7 1.34	SOM GT:/0:18 0/1:27,7:37 T	C
				0.3380.3521,D	5.9 3.74					SOM GT:/0:27 0/1:60,6:37 G	T
										SOM GT:/0:29 0/1:34,6:37 T	G
										SOM GT:/0:36 0/1:70,20:3 C	T
				0.0 0.0050.0131,N	2.1 3.35					SOM GT:/0:57 0/1:75,14:3 C	T
				0.0 0.9630.9981,D	5.5 2.69					SOM GT:/0:54 0/1:82,9:37 T	C
		##		1.0,0.1160.84, 0.99	4.1 1.69					DB;:GT:/0:26 0/1:37,7:37 C	T
										SOM GT:/0:9,(0/1:13,4:37 G	A
										SOM GT:/0:9,(0/1:13,4:37 G	A
6E-04									0 0	SOM GT:/0:43 0/1:53,11:3 C	T
		##	0							SOM GT:/0:24 0/1:37,5:34 C	T
2E-04										SOM GT:/0:8,(0/1:5,2:37: C	T
									4.7 3.36	SOM GT:/0:41 0/1:53,8:37 A	C
										SOM GT:/0:39 0/1:58,8:37 G	A
4E-04									0	SOM GT:/0:9,(0/1:11,5:34 C	T
										SOM GT:/0:71 0/1:113,17 C	T
	##	##	0	0.0 0.9971.0,D1,D	5.9 5.76					SOM GT:/0:11 0/1:173,27 G	A
	##	0	0							SOM GT:/0:15 0/1:33,6:37 G	A
	##	##	0							SOM GT:/0:21 0/1:32,5:37 C	T
				0.5 0.0010.0040.99	5.9					SOM GT:/0:56 0/1:105,10 T	C

. . ## 0 0.0 0.997 1.0,D 1.00 5.4 5.22 . .	SOM GT:/0:63 0/1:131,21 G	A
. ## 0 0 0.0 0.995 1.0,D 1.00 3.8 3.80 . .	SOM GT:/0:58 0/1:89,14:3 G	A
. . ## 0 . . . . . . . . . .	SOM GT:/0:13 0/1:256,97 G	A
. . . . . . . . . . . . . . . .	SOM GT:/0:38 0/1:66,9:35 G	A
. . . . . . . . . . . . . . . .	SOM GT:/0:72 0/1:119,22 C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:26 0/1:27,5:37 G	A
. . ## 0 0.0 0.995 1.0,D 1.00 4.3 3.99 . .	SOM GT:/0:33 0/1:56,7:37 G	A
. . ## 0 0.7 0.001 0.003 1.00 . . . . .	SOM GT:/0:82 0/1:124,26 C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:9,(0/1:7,3:37: C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:33 0/1:76,4:37 G	T
. . . . . . . . . . . . . . . .	0 0 SOM GT:/0:12 0/1:12,4:37 C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:15 0/1:267,12 A	G
. . ## . 0.1 0.001 0.0,B 1,N 3 . 0 0	SOM GT:/0:77 0/1:106,12 C	A
8E-04 . 0 0 0.0 0.168 0.545 0.99 5.5 3.45 . .	SOM GT:/0:82 0/1:152,22 C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:30 0/1:63,16:3 C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:28 0/1:34,4:37 T	C
. . ## . . . . . . . . . . . . . . .	SOM GT:/0:30 0/1:67,6:37 G	A
. . ## 0 . . . . . . . . . . . . . . .	SOM GT:/0:86 0/1:149,23 G	A
. . . . . . . . . . . . . . . .	SOM GT:/0:13 0/1:206,40 A	G
. . ## 0 . . . . . . . . . . . . . . .	SOM GT:/0:17 0/1:40,6:37 G	A
. . . . . . . . . . . . . . . .	SOM GT:/0:9,(0/1:10,5:37 C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:9,(0/1:12,4:37 T	A
. . . . . . . . . . . . . . . .	SOM GT:/0:18 0/1:58,7:37 C	A
. . . . . . . . . . . . . . . .	SOM GT:/0:38 0/1:60,16:3 C	A
0.006 . 0 0 . . . . . . . . . . . . . . .	SOM GT:/0:14 0/1:252,32 G	A
. . . . . . . . . . . . . . . .	SOM GT:/0:40 0/1:82,18:3 C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:36 0/1:59,10:3 G	A
. . . . . . . . . . . . . . . .	SOM GT:/0:44 0/1:68,11:3 T	C
. . . . . . . . . . . . . . . .	SOM GT:/0:33 0/1:47,7:35 G	T
. . . . . . . . . . . . . . . .	SOM GT:/0:37 0/1:59,12:3 G	T
. . ## 0 . . . . . . . . . . . . . . .	SOM GT:/0:15 0/1:279,44 G	A
. . . . . . . . . . . . . . . .	SOM GT:/0:67 0/1:111,22 A	T
. . . . . . . . . . . . . . . .	SOM GT:/0:15 0/1:14,6:35 T	C
. . . . . . . . . . . . . . . .	SOM GT:/0:32 0/1:64,10:3 G	T
. . . . . . . . . . . . . . . .	SOM GT:/0:46 0/1:73,12:3 T	C
. . ## ## 0 . . . . . . . . . . . . . . .	SOM GT:/0:53 0/1:89,13:3 C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:26 0/1:20,3:37 A	G
2E-04 . ## 0 0.0 0.091 0.417 1,D 3.1 2.69 . .	SOM GT:/0:59 0/1:88,7:37 C	T
2E-04 . . . . . . . . . . . . . . .	0 . SOM GT:/0:15 0/1:40,9:37 C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:16 0/1:23,5:37 A	G
. . . . . . . . . . . . . . . .	SOM GT:/0:10 0/1:185,33 C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:21 0/1:30,8:33 C	T
. . ## 0 0.1 0.816 0.998 1,D 2.7 2.21 . .	SOM GT:/0:18 0/1:35,15:3 C	T
. . ## ## 0 . . . . . . . . . . . . . . .	SOM GT:/0:27 0/1:45,4:37 C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:92 0/1:149,19 A	G
. . . . . . . . . . . . . . . .	SOM GT:/0:65 0/1:118,13 C	T
. . . . . . . . . . . . . . . .	SOM GT:/0:21 0/1:39,9:35 G	T
6E-04 ## 0 0 . . . . . . . . . . . . . . .	SOM GT:/0:95 0/1:149,15 G	A
. . . . . . . . . . . . . . . .	SOM GT:/0:14 0/1:22,3:37 C	A
. . . . . . . . . . . . . . . .	SOM GT:/0:9,(0/1:17,6:37 G	T
. . ## 0 . . . . . . . . . . . . . . .	SOM GT:/0:49 0/1:69,12:3 G	A
. . 0 0 . . . . . . . . . . . . . . .	SOM GT:/0:34 0/1:54,9:37 G	A
. . . . . . . . . . . . . . . .	SOM GT:/0:38 0/1:53,11:3 G	A
. . . . . . . . . . . . . . . .	SOM GT:/0:98 0/1:163,34 G	A

.	.	.	.	.	.	.	.	.	SOM GT:/0:15 0/1:20,4:37 C	T	
.	.	.	.	.	.	.	.	.	SOM GT:/0:12 0/1:10,3:37 G	A	
.	.	.	0.0	0.853	0.984	0.99	4.3	3.06	SOM GT:/0:56 0/1:85,15:3 A	G	
.	.	.	0.2	0.993	0.999	1,D	5.4	3.15	SOM GT:/0:38 0/1:62,8:37 G	T	
.	.	.	.	.	.	.	3.5	.	SOM GT:/0:21 0/1:358,73 C	T	
.	.	.	.	.	.	.	4.2	2.86	SOM GT:/0:25 0/1:75,11:3 T	C	
.	.	.	.	.	.	.	.	.	SOM GT:/0:20 0/1:28,5:37 G	A	
.	.	##	0	.	.	.	.	.	SOM GT:/0:31 0/1:54,6:37 G	A	
.	.	.	.	.	.	.	.	.	SOM GT:/0:15 0/1:21,6:37 C	T	
.	.	.	.	.	.	.	.	.	SOM GT:/0:81 0/1:150,23 C	T	
.	.	.	0.2	0.002	0.02	1,D	.	.	SOM GT:/0:13 0/1:32,10:3 C	T	
.	.	.	0.3	.	.	1.00	3.7	1.88	SOM GT:/0:60 0/1:125,18 G	T	
.	.	.	.	.	.	.	.	.	SOM GT:/0:12 0/1:19,3:37 C	T	
.	.	##	0	.	.	.	.	0 0	SOM GT:/0:66 0/1:129,16 C	T	
.	.	.	.	.	.	.	.	.	SOM GT:/0:20 0/1:43,5:37 G	T	
.	.	##	0	.	.	.	.	.	SOM GT:/0:13 0/1:209,32 G	A	
.	.	.	.	.	.	.	.	.	SOM GT:/0:31 0/1:54,15:3 C	A	
.	.	##	0	0.3	0.024	0.104	0.99	2.3	1.34	SOM GT:/0:99 0/1:171,33 G	A
.	.	##	0	.	.	.	.	.	SOM GT:/0:84 0/1:137,21 C	T	
.	.	.	.	.	.	.	.	.	SOM GT:/0:22 0/1:42,8:37 G	A	
.	.	.	.	.	.	.	.	.	SOM GT:/0:38 0/1:48,12:3 C	T	
.	.	.	.	.	.	.	0.1	0.2	SOM GT:/0:8,0/1:9,3:37 G	A	
.	.	.	.	.	.	.	.	.	SOM GT:/0:12 0/1:212,15 C	T	
.	.	.	.	.	.	.	.	.	SOM GT:/0:24 0/1:29,4:37 A	G	
.	.	.	.	.	.	.	.	.	SOM GT:/0:96 0/1:167,17 A	G	
.	.	.	.	.	.	.	.	.	SOM GT:/0:28 0/1:23,3:37 C	T	
.	.	.	.	.	.	.	.	.	SOM GT:/0:46 0/1:73,10:3 G	A	
.	.	.	.	.	.	.	.	.	SOM GT:/0:40 0/1:51,9:37 G	A	
.	.	.	.	.	.	.	.	0	SOM GT:/0:60 0/1:93,9:37 C	T	
.	.	0	0	0.10	.	1,N	.	0	SOM GT:/0:78 0/1:155,26 G	A	
.	.	.	.	.	.	.	.	.	SOM GT:/0:75 0/1:125,24 G	A	
.	.	.	.	.	.	.	.	.	SOM GT:/0:11 0/1:7,3:37 G	A	
.	.	.	.	.	.	.	.	.	SOM GT:/0:25 0/1:37,7:37 T	C	
.	.	.	.	.	.	.	.	.	SOM GT:/0:13 0/1:187,29 A	G	
.	.	.	.	.	.	.	.	.	SOM GT:/0:24 0/1:48,6:37 G	A	
.	0	##	0	.	.	.	.	0	SOM GT:/0:70 0/1:113,19 C	T	
.	.	.	0.0	0.91	0.967	1,D	4	4.18	SOM GT:/0:11 0/1:67,16:3 A	G	
.	.	##	0	.	.	.	.	0	SOM GT:/0:55 0/1:35,4:34 C	T	
.	.	.	.	.	.	.	.	.	SOM GT:/0:24 0/1:26,3:37 G	T	
.	.	.	0.1	.	.	1,N	.	0	SOM GT:/0:14 0/1:238,9:3 G	A	
.	.	.	.	.	.	.	.	0	SOM GT:/0:40 0/1:66,9:32 C	T	
.	.	.	.	.	.	.	.	0.2	0.3	SOM GT:/0:10 0/1:14,6:33 A	G
.	.	.	.	.	.	.	.	.	SOM GT:/0:45 0/1:67,8:37 T	C	
.	.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:331,67 C	T	
.	.	.	.	.	.	.	.	.	SOM GT:/0:19 0/1:46,4:37 A	T	
.	.	.	.	.	.	.	.	.	SOM GT:/0:29 0/1:31,9:37 C	T	
.	.	.	.	.	.	.	2.3	.	SOM GT:/0:11 0/1:30,7:37 G	A	
.	.	.	0.1	0.924	1.0	D	1.00	4.5	2.61	SOM GT:/0:76 0/1:142,32 G	A
.	.	.	.	.	.	.	2.07	.	SOM GT:/0:39 0/1:48,7:37 G	T	
0.001	0	0	0	.	.	.	.	.	SOM GT:/0:86 0/1:175,42 C	T	
.	.	.	.	.	.	.	.	.	SOM GT:/0:87 0/1:117,24 G	A	
.	.	##	0	.	.	.	.	.	SOM GT:/0:60 0/1:93,12:3 G	A	
.	.	##	0	.	.	1,A	3.8	5.48	SOM GT:/0:55 0/1:101,14 C	T	
2E-04	.	##	0	.	.	1,D	4.3	7.65	SOM GT:/0:12 0/1:186,22 C	T	



									SOM GT:/0:30 0/1:37,5:37 G	A		
2E-04									SOM GT:/0:16 0/1:198,35 G	A		
									SOM GT:/0:48 0/1:60,10:3 G	A		
			0.0,0.99,1	1.0,D 1,D	4.4	3.92			SOM GT:/0:10 0/1:215,30 G	T		
									SOM GT:/0:16 0/1:31,3:37 A	G		
	##	0	0.0	0.4740.969	0.96	5.8	4.26		DB;S GT:/0:60 0/1:90,18:3 G	A		
4E-04	0	0	0.0	0.997	1.0,D 1,D	5.7	5.61		SOM GT:/0:10 0/1:186,27 C	T		
									SOM GT:/0:39 0/1:69,14:3 G	T		
									SOM GT:/0:15 0/1:27,3:37 A	G		
									SOM GT:/0:42 0/1:66,8:37 G	T		
					1,D	6	3.25		SOM GT:/0:27 0/1:37,6:37 A	G		
	##	0							SOM GT:/0:64 0/1:106,21 G	A		
									SOM GT:/0:17 0/1:21,5:34 G	T		
			0.0,0.999	1.0,D 1,D	5.5	3.28			SOM GT:/0:67 0/1:110,14 T	C		
	##	0	0.0	0.999	1.0,D 1,D	5.6	5.38		SOM GT:/0:42 0/1:59,9:37 G	A		
	##	0	0.0	0.984	1.0,D 0.98	2.8	3.48	0	0	SOM GT:/0:42 0/1:62,13:3 C	T	
			0.1	0.005	0.001	1,N	2.8			SOM GT:/0:32 0/1:37,4:34 C	G	
2E-04	##	0				3.7				SOM GT:/0:71 0/1:122,18 C	T	
										SOM GT:/0:15 0/1:21,6:37 G	A	
										SOM GT:/0:27 0/1:48,8:38 T	C	
						3.3	3.65			SOM GT:/0:54 0/1:62,13:3 T	C	
	##	0								SOM GT:/0:32 0/1:64,16:3 C	T	
										SOM GT:/0:61 0/1:105,10 C	T	
2E-04								0	0	SOM GT:/0:23 0/1:35,11:3 C	T	
										SOM GT:/0:34 0/1:44,12:3 C	A	
			0.1	0.998	1.0,D 1,D	6	4.74			SOM GT:/0:55 0/1:73,10:3 G	A	
										SOM GT:/0:76 0/1:143,25 C	A	
										SOM GT:/0:8,(0/1:11,6:37 G	A	
								0		SOM GT:/0:69 0/1:70,5:37 C	T	
								0		SOM GT:/0:64 0/1:70,5:37 C	T	
										SOM GT:/0:14 0/1:20,6:32 G	A	
										SOM GT:/0:12 0/1:19,6:37 C	T	
								0	0	SOM GT:/0:46 0/1:110,6:3 A	G	
										SOM GT:/0:41 0/1:61,15:3 G	T	
						2.5	1.34			SOM GT:/0:35 0/1:527,98 C	T	
	0	##	0							SOM GT:/0:10 0/1:159,25 C	T	
										SOM GT:/0:15 0/1:290,14 G	A	
2E-04	##	0						0		SOM GT:/0:58 0/1:108,20 G	A	
										SOM GT:/0:14 0/1:20,7:37 T	C	
										SOM GT:/0:9,(0/1:17,3:37 C	T	
	0	1.0,			1,N					SOM GT:/0:29 0/1:38,6:28 A	G	
										SOM GT:/0:23 0/1:39,4:37 G	A	
	##	##	0	0.0	0.458	0.901	1.00	5.4	3.98	0	SOM GT:/0:14 0/1:233,40 C	T
			0.0	0.791	0.999	1,D	5.1	4.69			SOM GT:/0:86 0/1:149,23 G	A
											SOM GT:/0:27 0/1:72,18:3 A	T
	##							0			SOM GT:/0:10 0/1:171,36 G	A
						1.71					SOM GT:/0:46 0/1:66,10:3 C	T
	0	##	0								SOM GT:/0:10 0/1:200,28 C	T
1E-03								0			SOM GT:/0:18 0/1:38,7:37 T	C
											SOM GT:/0:80 0/1:164,33 T	C
											SOM GT:/0:35 0/1:54,5:37 C	T
											SOM GT:/0:45 0/1:59,6:32 G	T
	##	0	0.0	0.998	1.0,D 1.00	5.7	3.91				SOM GT:/0:40 0/1:68,15:3 G	A
						3.4					SOM GT:/0:23 0/1:37,6:37 C	A

.	.	.	.	.	.	.	.	.	SOM GT:/0:59 0/1:612,25 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:73 0/1:768,52 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:17 0/1:248,63 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:29 0/1:428,14 A	G
.	.	##	0	0.002	0.001	0.77	3.5	.	SOM GT:/0:68 0/1:112,25 G	A
.	.	.	.	0.11	0.143	0.302	1,N	.	SOM GT:/0:11 0/1:208,32 G	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:12 0/1:216,42 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:9,(0/1:5,2:37) G	C
2E-04	.	##	0	0.0	0.024	0.491	1.00	.	SOM GT:/0:79 0/1:128,17 C	T
.	.	0	0	.	.	.	.	0	DB;S GT:/0:66 0/1:123,8:3 C	T
.	.	##	0	0.2	0.001	0.006	1,N	1.60	SOM GT:/0:46 0/1:74,11:3 G	A
2E-04	##	##	0	0.0	0.862	0.999	1,D	4.2 3.34	SOM GT:/0:17 0/1:298,68 C	T
.	.	##	##	0	.	.	.	0	SOM GT:/0:25 0/1:458,78 C	T
.	.	.	.	.	.	.	.	3	SOM GT:/0:31 0/1:36,6:32 G	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:8,(0/1:14,6:37) C	A
.	.	##	.	.	.	.	.	.	SOM GT:/0:97 0/1:178,29 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:28 0/1:63,8:37 G	A
.	.	.	.	0.0	0.608	0.958	1,N	2.8 2.07	SOM GT:/0:44 0/1:42,13:3 A	T
2E-04	.	.	.	.	.	.	.	.	SOM GT:/0:11 0/1:13,4:37 C	T
.	.	.	.	0.3	0.499	0.833	0.98	2.6 1.55	SOM GT:/0:65 0/1:140,28 G	A
.	.	##	0	.	.	.	.	.	SOM GT:/0:43 0/1:90,19:3 C	T
.	.	.	.	0.0	0.999	1.0	D 1,D	5.2 5.25	SOM GT:/0:12 0/1:214,40 G	A
4E-04	.	.	.	.	.	.	.	0	SOM GT:/0:83 0/1:118,23 G	A
.	.	0	0	0.0	0.999	1.0	D 1,D	4.8 4.71	SOM GT:/0:69 0/1:120,23 C	T
.	.	.	.	.	.	.	.	0	SOM GT:/0:22 0/1:26,11:3 C	T
.	.	##	##	0	0.0	0.999	1.0	D 1.00	SOM GT:/0:20 0/1:326,55 C	T
.	.	.	.	.	.	.	.	1.74	SOM GT:/0:99 0/1:138,33 T	A
4E-04	##	##	0	.	.	.	.	0	SOM GT:/0:45 0/1:87,24:3 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:30 0/1:50,12:3 C	A
.	.	##	0	0.4	0.0	B 0.001	1,N	.	SOM GT:/0:10 0/1:188,35 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:43 0/1:93,15:3 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:32 0/1:55,8:37 T	C
.	.	.	.	.	.	.	.	.	SOM GT:/0:66 0/1:92,15:3 G	A
0.003	.	.	.	.	.	.	.	0 0	SOM GT:/0:30 0/1:40,4:37 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:48 0/1:76,11:3 A	G
.	.	##	0	.	.	.	.	.	SOM GT:/0:36 0/1:59,8:37 C	T
0.002	.	0	0	0.3	0.0	B 0.0	B 1,N	.	SOM GT:/0:52 0/1:92,27:3 G	A
.	.	.	.	0.0	0.891	0.997	1.00	5.7 3.29	SOM GT:/0:61 0/1:90,18:3 C	A
4E-04	.	.	.	.	.	.	.	.	SOM GT:/0:14 0/1:23,3:37 T	A
2E-04	.	.	.	.	.	.	.	.	SOM GT:/0:28 0/1:38,9:37 G	A
.	.	##	##	0	.	.	.	.	SOM GT:/0:22 0/1:408,78 C	T
.	.	0	0	0.0	0.0	B 0.003	1,N	.	SOM GT:/0:90 0/1:140,39 C	T
.	.	.	.	0.0	0.997	0.999	0.96	4.8 2.03	SOM GT:/0:10 0/1:173,41 G	T
2E-04	.	##	0	0.2	0.0	B 0.0	B 1,N	.	SOM GT:/0:12 0/1:193,34 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:37 0/1:55,11:3 T	C
.	.	.	.	.	.	.	.	.	SOM GT:/0:28 0/1:55,8:37 G	A
.	.	##	0	.	.	.	.	2.57	SOM GT:/0:27 0/1:38,8:37 A	G
2E-04	.	.	.	.	.	.	.	2.86	SOM GT:/0:31 0/1:53,7:37 G	A
.	.	0	0	.	.	.	.	.	SOM GT:/0:81 0/1:61,13:3 G	A
.	.	.	.	.	.	.	.	5.6 2.61	SOM GT:/0:14 0/1:29,8:35 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:17,5:37 C	T
.	.	.	.	.	.	.	.	.	SOM GT:/0:22 0/1:20,5:37 G	A
.	.	.	.	.	.	.	.	2.1	SOM GT:/0:10 0/1:150,17 T	C
.	.	0	0	0.0	0.0	B 0.0	B 1.00	4.2 2.45	DB;S GT:/0:91 0/1:157,7:3 A	T

	0	0	0.6	0.002	0.004	1,N	2.2	0	SOM GT:/0:18 0/1:304,52 G	A	
	##	0							SOM GT:/0:72 0/1:101,26 G	A	
			0.997	1.0,D	1.00		3.2	2.86	SOM GT:/0:50 0/1:81,6:37 C	A	
	##	##							SOM GT:/0:82 0/1:155,28 C	T	
			0.0	0.999	1.0,D	1,D	5.7	4.84	SOM GT:/0:60 0/1:80,16:3 G	A	
			0.3	0.755	0.998	0.99	4.6	2.75	SOM GT:/0:77 0/1:126,24 C	T	
									SOM GT:/0:22 0/1:29,4:37 C	T	
									SOM GT:/0:19 0/1:33,3:37 G	T	
			0.0	0.999	1.0,D	0.73	3.6	4.00	SOM GT:/0:55 0/1:93,17:3 G	A	
									SOM GT:/0:55 0/1:74,12:3 C	T	
2E-04	##	##	0	0.0	0.99	1.0,D	1.00	5.2	3.22	SOM GT:/0:11 0/1:157,33 G	A
0.006									0 0 SOM GT:/0:25 0/1:26,7:3E A	T	
			0.4			1,N			SOM GT:/0:27 0/1:20,5:37 G	A	
			0.0	0.997	1.0,D	1,D	5.8	3.66	SOM GT:/0:11 0/1:179,38 C	T	
								1.23	SOM GT:/0:52 0/1:91,5:37 T	C	
2E-04		##	0	0.0	0.923	1.0,D	0.99	3.4	4.90	SOM GT:/0:13 0/1:223,31 G	A
									SOM GT:/0:68 0/1:96,14:3 G	T	
									SOM GT:/0:8,(0/1:6,2:37: G	T	
		##	0	0.2	0.469	0.99,	0.89	4.5	0 0 SOM GT:/0:13 0/1:198,45 C	T	
									SOM GT:/0:37 0/1:57,9:37 G	A	
							3.4	2.32	SOM GT:/0:67 0/1:106,21 T	C	
									SOM GT:/0:43 0/1:82,17:3 G	T	
									SOM GT:/0:10 0/1:203,22 C	A	
2E-04									0 0 DB;GT:/0:48 0/1:62,4:37 C	T	
0.215									0. SOM GT:/0:24 0/1:29,10:3 A	G	
							2.7		SOM GT:/0:23 0/1:350,28 A	G	
									0. SOM GT:/0:49 0/1:83,6:37 A	G	
0.02									0 0.1 SOM GT:/0:8,(0/1:3,3:37: G	C	
									SOM GT:/0:9,(0/1:5,2:37: C	A	
									SOM GT:/0:21 0/1:36,3:37 A	C	
									SOM GT:/0:9,(0/1:13,3:37 C	G	
									0. DB;GT:/0:19 0/1:112,5:3 A	C	
									0. DB;GT:/0:19 0/1:193,8:3 C	T	
									0. DB;GT:/0:22 0/1:245,9:3 T	G	
									DB;GT:/0:19 0/1:171,7:3 C	T	
									0. DB;GT:/0:28 0/1:424,22 G	C	
									0. DB;GT:/0:39 0/1:679,33 G	C	
									SOM GT:/0:23 0/1:292,12 A	G	
									0. SOM GT:/0:30 0/1:265,9:3 A	C	
									0 0 DB;GT:/0:24 0/1:213,8:3 A	G	
									DB;GT:/0:29 0/1:233,11 A	G	
									0. DB;GT:/0:34 0/1:228,8:3 T	G	
									DB;GT:/0:35 0/1:364,12 A	G	
									0. DB;GT:/0:34 0/1:446,15 G	C	
									0. DB;GT:/0:37 0/1:502,15 T	A	
									0. DB;GT:/0:23 0/1:363,12 A	T	
									0. DB;GT:/0:27 0/1:221,16 T	G	
									0. SOM GT:/0:10 0/1:60,5:37 G	T	
									0. SOM GT:/0:13 0/1:142,6:3 G	A	
									SOM GT:/0:10 0/1:99,7:37 T	C	
									SOM GT:/0:10 0/1:24,3:37 T	C	
	0	##	0						SOM GT:/0:15 0/1:237,60 G	A	
									SOM GT:/0:24 0/1:60,4:37 C	A	
									SOM GT:/0:49 0/1:90,20:3 C	A	

			0.1	0.006	0.002	1.00		1.43		SOM GT:/0:50 0/1:91,17:3 G	T
										SOM GT:/0:25 0/1:29,12:3 A	C
										SOM GT:/0:47 0/1:66,12:3 G	A
4E-04	0	0								SOM GT:/0:20 0/1:328,59 C	T
										SOM GT:/0:53 0/1:79,18:3 T	C
			0.0	0.742	0.986	0.67	3.1	3.79		SOM GT:/0:61 0/1:80,13:3 G	T
								1.73		SOM GT:/0:17 0/1:31,6:37 A	G
									0	SOM GT:/0:8,(0/1:9,3:37 A	G
			0.1	0.821	0.996	1,N		1.95		SOM GT:/0:93 0/1:195,41 C	T
										SOM GT:/0:30 0/1:50,5:37 A	G
	##	0							0	SOM GT:/0:13 0/1:180,35 C	T
2E-04	##	0	0.0	0.996	1.0,D	1.00	5.3	3.77		SOM GT:/0:89 0/1:125,24 G	A
							2.2	1.30		SOM GT:/0:60 0/1:95,9:34 G	T
	##	0	0.0	0.819	0.996	1.00		3.55		SOM GT:/0:48 0/1:98,10:3 C	T
	0 ##	0							0	SOM GT:/0:32 0/1:53,9:37 G	A
										SOM GT:/0:19 0/1:38,6:32 C	A
	##	0	0.03,	0.124	0.98			1.80		SOM GT:/0:65 0/1:141,5:3 C	T
										SOM GT:/0:41 0/1:53,6:37 C	A
										SOM GT:/0:10 0/1:197,38 G	A
			0.5	0.894	0.931	0.99	5.5	3.13		SOM GT:/0:31 0/1:77,10:3 C	T
									0 0	SOM GT:/0:38 0/1:50,12:2 A	G
										SOM GT:/0:25 0/1:34,7:33 C	T
1E-03										SOM GT:/0:38 0/1:71,13:3 C	T
	0 ##	0	0.715	0.996			4.1			SOM GT:/0:25 0/1:44,9:37 G	A
	0	0							0 0	SOM GT:/0:10 0/1:21,4:37 G	T
										SOM GT:/0:46 0/1:56,4:37 C	T
										SOM GT:/0:38 0/1:55,10:3 C	T
0.01									0 0	SOM GT:/0:10 0/1:8,6:37 A	G
	0	0	0.081	0.205					0	SOM GT:/0:38 0/1:40,7:35 G	A
										SOM GT:/0:14 0/1:14,3:37 T	C
0.063									0.1 0	DB;S GT:/0:34 0/1:56,4:37 C	T
6E-04	0 ##	0	0.0	0.846	0.984	0.98	5.1	2.66	0	SOM GT:/0:38 0/1:51,15:3 G	A
	##	0	0.0	0.707	0.993	1.00	4	2.25		SOM GT:/0:64 0/1:101,24 G	A
			0.0	0.833	0.997	1.00		2.53		SOM GT:/0:24 0/1:43,10:3 C	T
			0.0,	1.0,D	1.0,D	1,D	4.7	4.17		SOM GT:/0:14 0/1:224,47 T	A
2E-04	## ##	0							0	SOM GT:/0:11 0/1:226,39 C	T
										SOM GT:/0:58 0/1:96,17:3 T	C
2E-04	##	0	0.1	0.011	0.025	1,N				SOM GT:/0:11 0/1:167,25 G	A
										SOM GT:/0:20 0/1:32,6:37 C	T
			0.0	0.969	1.0,D	1,D	4.7	4.08		SOM GT:/0:13 0/1:272,45 C	T
										SOM GT:/0:70 0/1:107,13 C	A
2E-04	##	0								SOM GT:/0:62 0/1:110,24 G	A
	##	0								SOM GT:/0:11 0/1:195,35 G	A
	##	0	0.0	0.96,	0.994	1.00	4.9	4.09	0	SOM GT:/0:81 0/1:155,26 T	C
			0.6	0.001	0.001	1,D	5.6	3.09		SOM GT:/0:73 0/1:90,15:3 C	T
							2.2			SOM GT:/0:10 0/1:18,6:37 A	G
										SOM GT:/0:63 0/1:122,24 T	C
										SOM GT:/0:13 0/1:25,5:37 C	A
			0.2	0.03,	0.142	0.90	5.5			SOM GT:/0:82 0/1:128,7:3 G	T
	##	0	0.0	0.035	0.492	0.97	3.9	4.11		SOM GT:/0:40 0/1:41,6:37 C	T
										SOM GT:/0:80 0/1:122,14 A	G
							3.4	2.72		SOM GT:/0:62 0/1:97,16:3 T	C
							3.4			SOM GT:/0:11 0/1:13,4:37 A	C
4E-04	##	0					3.2			SOM GT:/0:32 0/1:57,7:37 C	T

	##	0	0	.	.	.	.	.	.	SOM GT:/0:58 0/1:71,15:3 C	T		
2E-04		0	0	.	.	.	.	.	.	SOM GT:/0:65 0/1:87,15:3 G	A		
		0	0	0.5	0.0,B	0.002	1,N	.	.	SOM GT:/0:15 0/1:265,64 C	T		
				.	.	.	.	.	.	SOM GT:/0:8,(0/1:15,4:37 C	T		
				0.1	0.01,	0.019	0.98	.	.	SOM GT:/0:26 0/1:29,12:3 T	C		
				.	.	.	.	.	0	SOM GT:/0:61 0/1:89,16:3 C	T		
				.	.	.	.	.	.	SOM GT:/0:15 0/1:27,13:3 A	G		
1E-03	0	0	0	0.3	0.31	10.92	10.99	5.4	3.35	SOM GT:/0:74 0/1:123,23 G	A		
	##	0	.	1.0,D	1.0,D	1,D	5.6	5.52	.	SOM GT:/0:68 0/1:96,16:3 G	A		
	0	0	0	.	.	.	.	.	.	SOM GT:/0:10 0/1:184,27 G	A		
				.	.	.	.	.	.	SOM GT:/0:89 0/1:126,20 C	T		
				.	.	.	.	1.68	.	SOM GT:/0:64 0/1:118,21 C	T		
	##	0	.	.	.	.	.	2.87	.	SOM GT:/0:14 0/1:8,3:37 A	G		
				.	.	.	1,A	4.1	19.1	SOM GT:/0:48 0/1:75,8:37 G	T		
				.	.	.	.	3.5	.	SOM GT:/0:90 0/1:117,21 C	T		
	##	0	.	.	.	.	.	.	.	SOM GT:/0:74 0/1:139,29 C	T		
	0	0	.	.	.	.	.	.	.	SOM GT:/0:19 0/1:150,41 G	A		
				.	.	.	.	3.2	.	SOM GT:/0:33 0/1:59,8:37 G	A		
				.	.	.	.	.	.	SOM GT:/0:32 0/1:34,9:37 T	C		
				.	.	.	.	.	.	SOM GT:/0:68 0/1:126,29 C	T		
0.002				.	.	.	.	.	.	SOM GT:/0:31 0/1:46,10:3 G	A		
				.	.	.	.	.	.	DB;S GT:/0:67 0/1:102,19 G	A		
				.	.	.	.	.	.	SOM GT:/0:84 0/1:148,36 A	G		
				.	.	.	.	.	.	SOM GT:/0:19 0/1:32,6:35 G	A		
				.	.	.	.	.	.	SOM GT:/0:16 0/1:244,43 C	A		
0.875	1	0	.	.	.	.	.	2.3	1.54	0.1	0.2	DB;S GT:/0:58 0/1:127,6:3 T	C
	##	0	.	.	.	.	.	.	.	.	.	SOM GT:/0:50 0/1:91,16:3 G	A
				.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:36,6:37 G	A
				.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:31,7:37 C	T
				.	.	.	.	.	.	0	.	SOM GT:/0:17 0/1:17,10:1A	T
				.	.	.	1,N	.	.	.	.	SOM GT:/0:66 0/1:82,14:3 G	T
				.	.	.	.	.	.	.	.	SOM GT:/0:86 0/1:124,18 C	T
				.	.	.	.	.	.	.	.	SOM GT:/0:26 0/1:33,7:37 C	T
				.	.	.	.	.	.	0	.	SOM GT:/0:59 0/1:90,18:3 C	T
				.	.	.	.	.	.	.	.	SOM GT:/0:69 0/1:118,21 A	G
				0.0	0.116	0.22,	0.94	2.9	2.39	.	.	SOM GT:/0:96 0/1:159,15 C	T
				0.0	0.917	0.99,	1.00	4.9	5.48	.	.	SOM GT:/0:48 0/1:87,16:3 C	T
				.	.	.	.	.	.	0	0	SOM GT:/0:12 0/1:15,8:35 A	G
2E-04	##	0	1.0	0.0,B	0.0,B	1,N	.	.	.	SOM GT:/0:67 0/1:91,12:3 C	T		
				.	.	.	.	.	.	.	.	SOM GT:/0:53 0/1:86,15:3 G	T
				.	.	.	.	2.5	2.71	.	.	SOM GT:/0:14 0/1:15,5:37 A	G
				.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:36,3:37 G	T
				.	.	.	.	.	.	.	.	SOM GT:/0:58 0/1:60,9:35 G	T
				0.5	0.503	0.627	1.00	4.1	2.37	.	.	SOM GT:/0:63 0/1:96,17:3 G	A
	##	0	0.5	0.013	0.248	1,N	.	.	.	SOM GT:/0:99 0/1:142,30 C	T		
				.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:25,7:37 G	T
				.	.	.	.	.	.	.	.	SOM GT:/0:19 0/1:29,6:37 C	A
				.	.	.	.	.	.	0.1	0.2	SOM GT:/0:42 0/1:86,6:37 T	G
				.	.	.	.	.	.	0	0	SOM GT:/0:12 0/1:27,3:37 T	C
				.	.	.	.	.	.	.	.	SOM GT:/0:36 0/1:55,4:37 A	G
	##	0	.	0.824	0.977	1.00	4.1	1.52	.	SOM GT:/0:44 0/1:70,15:3 C	T		
				.	.	.	.	.	.	.	.	SOM GT:/0:26 0/1:43,5:37 G	T
	##	0	0.0	0.999	1.0,D	1.00	2.6	4.46	.	SOM GT:/0:62 0/1:100,14 G	A		
				.	.	.	.	.	.	.	.	SOM GT:/0:37 0/1:65,9:37 C	T

.	.	.	.	.	.	.	.	SOM GT:/0:20 0/1:365,74 C	T	
.	.	.	0.0	0.926	0.999	1,D	5.1 3.24.	SOM GT:/0:13 0/1:208,37 G	A	
8E-04	##	##	0.	.	.	.	.	0 SOM GT:/0:59 0/1:96,25:3 C	T	
2E-04	0	0	0.	.	.	.	.	SOM GT:/0:15 0/1:293,46 C	T	
.	##	0.	.	.	.	.	.	SOM GT:/0:13 0/1:195,45 C	T	
.	##	0.	.	.	.	.	.	SOM GT:/0:57 0/1:70,18:3 G	A	
.	.	.	.	.	.	.	.	SOM GT:/0:64 0/1:114,22 A	G	
.	.	.	.	.	.	.	1.44.	SOM GT:/0:57 0/1:93,4:37 G	T	
.	.	.	.	.	.	.	.	SOM GT:/0:49 0/1:128,20 G	A	
6E-04	.	.	.	.	.	.	.	0 0 SOM GT:/0:14 0/1:37,7:35 G	A	
.	.	.	.	.	.	.	.	SOM GT:/0:39 0/1:41,13:3 G	T	
.	.	.	.	.	.	.	.	SOM GT:/0:10 0/1:17,3:37 C	T	
.	.	.	.	.	.	.	.	SOM GT:/0:22 0/1:25,9:34 C	T	
.	.	.	.	.	.	.	.	SOM GT:/0:41 0/1:78,18:3 A	G	
.	.	.	.	.	.	.	.	SOM GT:/0:87 0/1:150,21 G	A	
.	.	.	.	.	.	.	2.1.	SOM GT:/0:66 0/1:106,18 G	T	
.	.	.	.	.	.	.	.	SOM GT:/0:65 0/1:98,14:3 C	A	
.	##	0.	.	.	.	.	.	0 SOM GT:/0:62 0/1:98,24:3 G	A	
.	.	.	.	.	.	.	2.8.	SOM GT:/0:62 0/1:64,14:3 T	G	
.	.	.	.	.	.	.	.	SOM GT:/0:35 0/1:49,6:37 C	T	
.	.	.	.	.	.	.	.	SOM GT:/0:19 0/1:37,8:35 G	T	
.	##	0	0.1	0.925	0.997	1,D	4.5 4.18.	SOM GT:/0:11 0/1:177,31 C	T	
.	.	.	.	.	.	.	3.18.	SOM GT:/0:80 0/1:108,22 C	T	
.	.	.	.	.	.	.	.	SOM GT:/0:59 0/1:112,23 C	T	
.	.	.	.	.	.	.	.	SOM GT:/0:83 0/1:119,22 G	A	
.	.	.	.	.	.	.	.	SOM GT:/0:23 0/1:41,9:35 G	A	
0.402	.	.	.	.	.	.	.	0.2 0.3 SOM GT:/0:9,(0/1:7,13:37 A	G	
.	0	0.	.	.	.	.	3.4.	SOM GT:/0:46 0/1:89,10:3 C	T	
.	.	.	.	.	.	.	.	SOM GT:/0:20 0/1:34,5:37 A	G	
.	##	##	0	0.0	0.062	0.473	1,N	2.27.	SOM GT:/0:55 0/1:94,14:3 G	A
.	.	.	.	.	.	.	.	.	SOM GT:/0:14 0/1:217,33 G	A
.	.	.	.	.	.	.	3.7.	SOM GT:/0:21 0/1:29,7:35 G	T	
.	##	0	0.0	0.996	1.0,D	1.00	5.3 5.31.	SOM GT:/0:41 0/1:85,13:3 C	T	
.	.	.	.	.	.	.	1.41.	SOM GT:/0:50 0/1:69,16:3 C	A	
.	.	.	0.098	0.51,	l.	.	3.5 2.51.	SOM GT:/0:83 0/1:130,27 G	A	
.	.	.	.	.	.	.	.	SOM GT:/0:63 0/1:139,17 C	T	
.	.	.	.	.	.	.	.	SOM GT:/0:16 0/1:25,7:35 G	T	
.	.	.	.	.	.	.	.	0 DB;S GT:/0:31 0/1:39,5:25 A	T	
.	.	.	.	.	.	.	5.5 3.34.	SOM GT:/0:10 0/1:19,4:37 C	T	
.	.	.	.	.	.	.	.	SOM GT:/0:8,(0/1:9,4:37: G	A	
1E-03	.	.	.	.	.	.	.	SOM GT:/0:26 0/1:39,7:37 A	G	
.	.	.	.	.	.	.	.	SOM GT:/0:84 0/1:124,11 G	T	
.	##	0.	.	.	.	.	.	SOM GT:/0:10 0/1:224,35 C	T	
.	.	.	.	.	.	.	2.8.	SOM GT:/0:21 0/1:241,46 C	A	
.	.	.	.	.	.	.	.	SOM GT:/0:50 0/1:67,12:3 C	T	
.	.	.	0.0	0.997	1.0,D	0.97	4.8 2.38.	SOM GT:/0:38 0/1:41,11:3 T	C	
.	.	.	.	.	.	.	.	SOM GT:/0:29 0/1:27,9:37 C	T	
.	.	.	.	.	.	.	.	SOM GT:/0:41 0/1:68,6:37 C	T	
2E-04	##	0	0.0	1.0,D	1.0,D	1,D	3.9 5.02.	SOM GT:/0:11 0/1:170,26 C	T	
.	.	.	.	.	.	.	3.2 1.45.	SOM GT:/0:41 0/1:76,17:3 G	C	
.	##	0.	.	.	.	.	.	SOM GT:/0:41 0/1:66,18:3 G	A	
.	.	.	.	.	.	.	4.7.	SOM GT:/0:57 0/1:74,15:3 C	T	
.	.	.	.	.	.	.	.	SOM GT:/0:63 0/1:86,6:37 G	T	
.	.	.	.	.	.	.	.	SOM GT:/0:36 0/1:69,10:3 G	T	

									SOM GT:/0:55 0/1:97,10:3 G	C
	##	##	0 0.0	0.956 1.0,D 1.00	3.4 4.53				SOM GT:/0:13 0/1:215,37 C	T
									SOM GT:/0:34 0/1:62,9:37 A	G
					2.6 1.73				SOM GT:/0:31 0/1:54,5:34 C	A
	0	0							SOM GT:/0:43 0/1:58,16:3 G	A
									SOM GT:/0:8,(0/1:15,4:37 C	A
	0	0	0.393	0.981 0.98	5.5 2.78	0 0			SOM GT:/0:70 0/1:114,22 C	T
				0.998 1.0,D 1,D	4.6 2.18				SOM GT:/0:83 0/1:128,24 G	A
			0.0	0.996 1.0,D 1.00	4.1 3.94				SOM GT:/0:24 0/1:32,10:3 G	A
2E-04	##	0 0.0	0.966	1.0,D 1,N	1.46	0			SOM GT:/0:65 0/1:107,15 G	A
									SOM GT:/0:62 0/1:106,23 G	A
	##	##	0						SOM GT:/0:41 0/1:80,6:37 C	T
									SOM GT:/0:20 0/1:31,3:33 G	A
									SOM GT:/0:32 0/1:35,6:37 G	A
			0.0	0.997 1.0,D 1,D	5.3 5.05				SOM GT:/0:80 0/1:126,14 G	A
									SOM GT:/0:22 0/1:21,5:37 C	A
	##					0 0			SOM GT:/0:28 0/1:35,8:37 C	T
									SOM GT:/0:24 0/1:55,12:3 G	A
									SOM GT:/0:66 0/1:123,17 C	T
									SOM GT:/0:26 0/1:54,20:3 C	A
					1,D 3.8				SOM GT:/0:18 0/1:38,6:37 T	C
			0.1	0.824 0.994 0.96	4.5 2.47				SOM GT:/0:10 0/1:176,38 G	A
	##	0 0.0	0.923	1.0,D 1.00	3.3 3.15				SOM GT:/0:12 0/1:188,34 G	A
					1.54				SOM GT:/0:89 0/1:160,23 C	T
	0	0	0		2.5	0 0			SOM GT:/0:47 0/1:89,18:3 G	A
					2.6				SOM GT:/0:10 0/1:173,25 G	A
			0.3	0.085 0.716 0.99	3.1				SOM GT:/0:15 0/1:35,5:34 G	A
					2.2				SOM GT:/0:45 0/1:70,16:3 A	G
					2.3				SOM GT:/0:41 0/1:50,8:37 A	G
						0			SOM GT:/0:27 0/1:53,12:3 G	A
			0.3	0.038 0.131 0.64	4.1 2.86				SOM GT:/0:17 0/1:260,57 A	T
									SOM GT:/0:20 0/1:40,3:37 C	A
									SOM GT:/0:11 0/1:187,36 G	A
			0.0	0.837 0.983 1,D	5.9 3.34				SOM GT:/0:22 0/1:36,7:37 G	T
2E-04									SOM GT:/0:39 0/1:48,10:3 C	T
									SOM GT:/0:27 0/1:52,13:3 G	T
2E-04	##	0 0.0	0.042	0.313 0.99	4.8 1.42				SOM GT:/0:81 0/1:129,30 C	T
	##	0			4				SOM GT:/0:35 0/1:39,8:33 C	T
									SOM GT:/0:49 0/1:75,19:3 A	G
			0.0	0.999 1.0,D 1,D	5.9 3.90				SOM GT:/0:36 0/1:68,7:37 A	G
	##	0				0			SOM GT:/0:34 0/1:41,8:37 G	A
					3.1				SOM GT:/0:28 0/1:33,6:37 A	G
	##	0 0.0	0.77,	0.999 1.00	4.8 4.35				SOM GT:/0:85 0/1:143,25 G	A
									SOM GT:/0:18 0/1:50,10:3 C	T
									SOM GT:/0:14 0/1:22,3:37 G	A
			0.0	0.994 0.999 0.99	3.46				SOM GT:/0:28 0/1:29,5:37 G	T
4E-04	##	0 0		1,D					SOM GT:/0:41 0/1:59,17:3 C	T
			0.0	0.443 0.529 1,N	3.8 2.23				SOM GT:/0:60 0/1:66,8:37 T	C
					1.56				SOM GT:/0:25 0/1:40,6:37 A	G
			0.0	0.8,P 0.993 1,N					SOM GT:/0:50 0/1:68,15:3 C	A
									SOM GT:/0:42 0/1:49,13:3 G	T
					1.76				SOM GT:/0:56 0/1:78,17:3 C	T
					2.7 3.73				SOM GT:/0:17 0/1:39,7:33 C	T
	##	##	0						SOM GT:/0:30 0/1:59,11:3 C	T

		##	0	0.0,B	0.0,B	1,N				SOM	GT:/	0:90	0/1:123,22	G	A		
				0.3	0.22,	0.83	0.86	2.8			SOM	GT:/	0:16	0/1:284,54	G	A	
2E-04	##	##	0							0	SOM	GT:/	0:62	0/1:111,19	C	T	
				0.0	0.997	1.0,D	0.99	2.19			SOM	GT:/	0:78	0/1:157,33	G	T	
											SOM	GT:/	0:12	0/1:192,38	C	T	
											SOM	GT:/	0:13	0/1:10,3:37	C	T	
2E-04	0	0	0	0.0	0.24	0.54	1,D	3.5	2.62		DB;	GT:/	0:53	0/1:121,25	G	A	
4E-04	0	##	0								SOM	GT:/	0:46	0/1:61,19:3	C	T	
											SOM	GT:/	0:22	0/1:33,10:3	C	T	
		0	0							0	SOM	GT:/	0:14	0/1:23,4:37	G	A	
				0.0	0.12,	0.87	0.57				SOM	GT:/	0:45	0/1:87,17:3	G	A	
								1.24			SOM	GT:/	0:56	0/1:98,29:3	C	A	
		##	##	0	0.1	0.92	1.0,D	1,D	2.1	3.16		SOM	GT:/	0:11	0/1:173,40	C	T
								2.19				SOM	GT:/	0:11	0/1:11,4:37	G	A
												SOM	GT:/	0:18	0/1:37,8:37	G	A
										0		SOM	GT:/	0:16	0/1:252,47	C	T
4E-04	##	##	0					1.68				SOM	GT:/	0:19	0/1:281,80	G	A
		0	0									SOM	GT:/	0:11	0/1:211,34	G	A
				0.5	0.12	0.19	0.99	4.7	1.33			SOM	GT:/	0:11	0/1:176,28	G	T
												SOM	GT:/	0:33	0/1:72,11:3	C	A
		##	##	0				1.31				SOM	GT:/	0:14	0/1:256,45	C	T
												SOM	GT:/	0:9,	0/1:26,5:37	C	T
												SOM	GT:/	0:25	0/1:23,9:37	G	A
												SOM	GT:/	0:27	0/1:43,9:3	C	T
		##	0	0.0	0.387	0.81	1,N	2.00				SOM	GT:/	0:82	0/1:130,23	G	A
							1,D	3.7	6.30			SOM	GT:/	0:66	0/1:99,20:3	G	A
6E-04	0	0	0	0.0	0.802	0.99	1,N	4.56				SOM	GT:/	0:53	0/1:112,12	G	A
												SOM	GT:/	0:29	0/1:64,9:3	C	A
				0.0	0.33	0.41	1,D	4	4.18			SOM	GT:/	0:10	0/1:174,46	T	C
								1.51				SOM	GT:/	0:63	0/1:102,12	C	T
										0		SOM	GT:/	0:94	0/1:169,30	G	A
		##	0					1.52				SOM	GT:/	0:97	0/1:154,30	G	A
												SOM	GT:/	0:31	0/1:53,5:37	T	C
6E-04	##	##	0	0.0	0.14,	0.53	1.00	5.3	3.72			SOM	GT:/	0:92	0/1:161,32	C	T
		##	0	0						0		SOM	GT:/	0:10	0/1:168,29	C	T
		##	##	0	0.0	0.072	0.14	1,D	4.1	2.79		SOM	GT:/	0:19	0/1:314,56	G	A
		##	0									SOM	GT:/	0:76	0/1:107,24	C	T
2E-04	##	##	0	0.0	0.997	1.0,D	1.00	5.4	5.41	0		SOM	GT:/	0:39	0/1:90,15:3	G	A
								1.28				SOM	GT:/	0:10	0/1:22,5:37	G	T
												SOM	GT:/	0:10	0/1:143,22	C	A
		##	0									SOM	GT:/	0:85	0/1:137,25	C	T
0.015	0	0	0	0.5	0.013	0.08	1,N			0	0	DB;	GT:/	0:16	0/1:333,59	C	T
		##	0									SOM	GT:/	0:19	0/1:318,58	C	T
0.002								2.2				SOM	GT:/	0:16	0/1:15,3:37	T	G
				0.1	0.003	0.00	1,N			0		SOM	GT:/	0:78	0/1:118,19	C	T
												SOM	GT:/	0:8,	0/1:6,2:37	C	T
												SOM	GT:/	0:11	0/1:12,3:37	C	G
6E-04		0	0							0		SOM	GT:/	0:12	0/1:108,29	G	A
		##	0	0.3	0.0,B	0.0,B	1,N					SOM	GT:/	0:11	0/1:166,37	C	T
												SOM	GT:/	0:11	0/1:213,39	C	T
												SOM	GT:/	0:11	0/1:21,6:37	A	G
				0.1	0.59	0.95	1.00	4.3	2.96	0		SOM	GT:/	0:37	0/1:52,11:3	G	A
		##	0	0.0	0.95	1.0,D	1.00	4.8	2.99			SOM	GT:/	0:12	0/1:196,40	G	A
				0.0	0.72	0.99	0.67	2.8	3.44			SOM	GT:/	0:61	0/1:97,18:3	C	T



			1.0	0.1910.327	0.91	5.5			SOM GT:/0:75 0/1:111,21	G	A			
									SOM GT:/0:31 0/1:68,4:37	G	A			
			0.2	0.249	0.514	1.00		0	SOM GT:/0:47 0/1:81,16:3	G	T			
									SOM GT:/0:10 0/1:18,3:37	G	A			
2E-04	##	0					1.42		SOM GT:/0:13 0/1:232,40	G	A			
	##	0							SOM GT:/0:16 0/1:241,46	G	A			
									SOM GT:/0:9,(0/1:19,5:37	A	G			
			0.0	0.978	0.993	1,D	4.4	4.77	SOM GT:/0:70 0/1:115,16	C	T			
	##	0							SOM GT:/0:25 0/1:50,21:3	C	T			
	##	##	0						SOM GT:/0:52 0/1:70,18:3	G	A			
	##	##	0	0.0	0.998	1.0,D 1,D	4.8	5.30	SOM GT:/0:49 0/1:86,14:3	C	T			
									SOM GT:/0:11 0/1:38,7:37	A	G			
8E-04								0	0	SOM GT:/0:31 0/1:45,7:37	A	T		
									SOM GT:/0:39 0/1:59,6:35	G	T			
	0	##	0	0.2	0.007	0.012	1,N	1.25	0	SOM GT:/0:13 0/1:222,31	G	A		
				0.0	0.918	0.998	1.00	3	3.50	SOM GT:/0:55 0/1:87,21:3	G	A		
				0.0	0.889	0.99	1,D	4.5	4.51	SOM GT:/0:53 0/1:109,18	A	C		
				0.2	0.216	0.641	1,N	2.4		SOM GT:/0:11 0/1:162,25	C	G		
									SOM GT:/0:34 0/1:637,41	C	T			
				0.0	0.999	1.0,D	1.00	2.2	3.41	SOM GT:/0:94 0/1:173,35	G	A		
									SOM GT:/0:38 0/1:49,10:3	G	A			
									SOM GT:/0:71 0/1:115,20	C	T			
4E-04									DB;S	GT:/0:46 0/1:71,16:3	G	A		
									SOM GT:/0:32 0/1:27,6:37	T	C			
				0.0	0.908	1.0,D	1,N	1.71		SOM GT:/0:80 0/1:117,25	G	A		
	##	0							SOM GT:/0:59 0/1:106,16	G	A			
				0.3	0.113	0.804	0.98	4.7	2.67	SOM GT:/0:90 0/1:170,35	C	T		
									SOM GT:/0:28 0/1:46,7:37	T	C			
									SOM GT:/0:98 0/1:157,35	G	T			
				0.0	0.997	1.0,D	0.99	4.4	4.50	SOM GT:/0:50 0/1:83,13:3	C	T		
	##	##	0						0	SOM GT:/0:24 0/1:70,12:3	C	T		
2E-04										SOM GT:/0:56 0/1:72,12:3	C	T		
										SOM GT:/0:21 0/1:302,60	C	A		
									0	SOM GT:/0:17 0/1:271,23	T	C		
										SOM GT:/0:11 0/1:200,22	T	C		
										SOM GT:/0:34 0/1:50,4:37	C	T		
	##	0	0.4	0.959	0.997	1,D	5.8	2.48		SOM GT:/0:72 0/1:99,16:3	C	T		
	##	##	0	0.0	0.011	0.022	1.00	2.1	2.96	SOM GT:/0:23 0/1:49,14:3	C	T		
										SOM GT:/0:84 0/1:159,23	C	G		
										SOM GT:/0:8,(0/1:13,3:37	A	C		
	##	0	0.0	0.011	0.168	1,D	4.9	3.90		SOM GT:/0:58 0/1:87,16:3	G	A		
										SOM GT:/0:69 0/1:120,19	G	A		
							2.4			SOM GT:/0:20 0/1:32,8:37	T	C		
2E-04									0	SOM GT:/0:12 0/1:20,3:37	C	T		
										SOM GT:/0:9,(0/1:25,3:37	C	T		
									0	0	DB;S	GT:/0:19 0/1:43,4:37	C	A
									0	SOM GT:/0:42 0/1:87,4:37	C	G		
									0	SOM GT:/0:35 0/1:86,5:37	C	T		
										SOM GT:/0:14 0/1:32,3:37	G	A		
				0.2	0.031	0.021	0.93	3.2	1.73	SOM GT:/0:32 0/1:69,11:3	G	T		
6E-04	0	0	0	0.2	0.058	0.103	1,N	2.00		SOM GT:/0:62 0/1:94,22:3	C	T		
							2.2			SOM GT:/0:13 0/1:19,5:37	C	T		
2E-04	##	0							0	SOM GT:/0:10 0/1:187,29	G	A		
0.004									0	0	SOM GT:/0:45 0/1:55,5:34	A	G	

										SOM GT:/0:19 0/1:34,7:3G	A		
										SOM GT:/0:21 0/1:47,5:2C	A		
0.009										SOM GT:/0:38 0/1:76,11:3A	G		
						2.5	3.60			SOM GT:/0:72 0/1:139,21 G	A		
							1.35			SOM GT:/0:15 0/1:23,3:37T	C		
	##	0							0	SOM GT:/0:12 0/1:15,5:37G	A		
	##	0	0.1	0.24E	0.96E	0.99	4.2	3.28		SOM GT:/0:40 0/1:71,17:3G	A		
							2.4			SOM GT:/0:62 0/1:73,25:3G	A		
	##	0		0.794	0.98E	1.00	4.8	3.90		SOM GT:/0:13 0/1:251,41 G	A		
										SOM GT:/0:44 0/1:78,10:3C	T		
							2.4			SOM GT:/0:26 0/1:59,7:37G	A		
			0.0	0.07,	0.50E	1,N	3	2.64		SOM GT:/0:14 0/1:244,52 C	T		
			0.4	0.042	0.00E	0.55	3.6	2.75		SOM GT:/0:65 0/1:152,27 C	T		
							2.41			SOM GT:/0:9,(0/1:15,4:37C	A		
			0.0	0.237	0.74E	1.00	3.5	2.25		SOM GT:/0:42 0/1:87,19:3G	C		
							1,A	4.6	7.89	SOM GT:/0:31 0/1:80,19:3G	T		
			0.2	0.831	0.99	10.98	4.8	2.51		SOM GT:/0:69 0/1:139,5:3G	T		
			0.0	0.02,	0.14E	0.88	2.9	2.50		SOM GT:/0:41 0/1:77,13:3C	T		
			0.0	0.99E	1.0,D	1,D	4.2	3.92		SOM GT:/0:65 0/1:129,22 C	A		
							1,A	4.13		SOM GT:/0:91 0/1:123,29 C	A		
									0	0	SOM GT:/0:73 0/1:149,9:3T	C	
											SOM GT:/0:24 0/1:31,3:37C	T	
											SOM GT:/0:19 0/1:382,65 G	A	
											SOM GT:/0:41 0/1:61,9:37T	G	
				0.004	0.012	1,N	2.49			SOM GT:/0:59 0/1:89,13:3G	T		
	##	0		0.015	0.31E	1,N	1.91	0		SOM GT:/0:10 0/1:171,32 C	T		
											SOM GT:/0:14 0/1:18,4:37C	T	
											SOM GT:/0:59 0/1:73,12:3C	T	
2E-04										SOM GT:/0:27 0/1:41,10:3C	T		
							2.03			SOM GT:/0:10 0/1:198,47 C	T		
			0.0	0.99E	1.0,D	0.98	3.8	2.47		SOM GT:/0:10 0/1:189,36 C	A		
							1.42			SOM GT:/0:9,(0/1:24,5:37T	C		
			0.0	0.534	0.712	1,D	2.4	3.32		SOM GT:/0:12 0/1:196,25 G	T		
			0.0	0.84,	0.99E	0.99	5.3	2.86		SOM GT:/0:10 0/1:201,37 C	T		
	##	##	0	0.0	0.96E	0.997	1,D	4.7	3.93	0	0	SOM GT:/0:14 0/1:190,36 C	T
												SOM GT:/0:34 0/1:41,7:3E G	A
												SOM GT:/0:27 0/1:25,5:37G	A
												SOM GT:/0:66 0/1:104,25 C	T
												SOM GT:/0:9,(0/1:22,3:37C	G
			0.0	0.22E	0.957	1,D	4.1	3.36		SOM GT:/0:20 0/1:306,67 G	A		
												SOM GT:/0:51 0/1:109,23 G	A
												SOM GT:/0:46 0/1:70,5:37G	A
							4.4	2.17				SOM GT:/0:47 0/1:57,10:3A	G
4E-04												SOM GT:/0:17 0/1:29,12:3C	T
												SOM GT:/0:23 0/1:32,9:34C	T
							2.5	1.43				SOM GT:/0:64 0/1:129,21 G	T
												SOM GT:/0:63 0/1:103,15 C	T
	0	0	0	0.0	0.974	1.0,D	1.00	3.1	4.07			SOM GT:/0:17 0/1:50,6:37G	A
6E-04	0	0	0				4.4	1.63				SOM GT:/0:10 0/1:151,29 G	A
												SOM GT:/0:17 0/1:273,59 G	A
0.015										0	0	DB;GT:/0:20 0/1:35,6:37T	G
	##	##	0									SOM GT:/0:40 0/1:77,13:3C	T
												SOM GT:/0:21 0/1:20,6:37G	A
	0	0	0.1	0.004	0.001	0.97	1.31					SOM GT:/0:66 0/1:97,20:3G	A

					1,D	2.8	1.87			SOM GT:/0:96 0/1:161,28	G	A			
										SOM GT:/0:15 0/1:241,45	A	G			
					0.0:1.0,D	1.0,D	1,D		2.92	SOM GT:/0:13 0/1:197,38	T	C			
										SOM GT:/0:49 0/1:59,13	A	G			
	0	0	0						0	0	SOM GT:/0:66 0/1:107,5	T	G		
											SOM GT:/0:90 0/1:190,9	3	G		
					0.3:0.57,	1.0.782			4.8	3.58	SOM GT:/0:17 0/1:264,36	T	G		
											SOM GT:/0:11 0/1:25,7	3	T		
											SOM GT:/0:22 0/1:42,5	3	G		
	0	##	0								SOM GT:/0:96 0/1:141,7	3	G		
									2.9	1.43	SOM GT:/0:88 0/1:139,27	C	A		
		##							1,N	2.84	SOM GT:/0:99 0/1:143,30	G	A		
											SOM GT:/0:10 0/1:15,4	3	G		
		##	0	0.1	0.078	0.864	1,N		2.24	0	SOM GT:/0:11 0/1:146,44	C	T		
	##	0	0	0.0	0.37,	1.0.529	1,N			0	SOM GT:/0:47 0/1:83,13	3	G		
		##	0							0	SOM GT:/0:63 0/1:89,11	3	C		
									1.27		SOM GT:/0:20 0/1:26,7	3	G		
											SOM GT:/0:37 0/1:52,12	3	G		
	0	0	0								SOM GT:/0:32 0/1:64,4	3	C		
											SOM GT:/0:13 0/1:254,45	C	T		
	##	##	0								SOM GT:/0:89 0/1:162,25	C	T		
					0.2:0.122	0.555	1,N				SOM GT:/0:20 0/1:348,55	C	T		
		##	0						3.8	3.57	0	SOM GT:/0:17 0/1:31,4	3	T	
									1.56		SOM GT:/0:85 0/1:139,22	G	A		
										0	SOM GT:/0:24 0/1:35,6	3	C		
											SOM GT:/0:21 0/1:42,5	3	C		
		0	0						1,A	3.4	8.95	SOM GT:/0:37 0/1:50,8	3	G	
											SOM GT:/0:12 0/1:16,6	3	C		
											SOM GT:/0:42 0/1:56,17	3	G		
											SOM GT:/0:14 0/1:35,9	3	T		
					0.0	0.98,	1.0.99,	1,D	5.6	4.31	SOM GT:/0:55 0/1:89,18	3	A		
											SOM GT:/0:30 0/1:46,4	3	T		
2E-04	0	##	0	0.0	0.583	0.928	1,N		1.82	0	SOM GT:/0:48 0/1:108,16	G	A		
											SOM GT:/0:10 0/1:15,4	3	T		
										0	SOM GT:/0:9,0	1:27,4	3	C	
										0	SOM GT:/0:15 0/1:39,3	3	C		
										0	SOM GT:/0:16 0/1:41,3	3	G		
2E-04		##	0	0.3:0.023	0.142	1.00			5	2.85	0	SOM GT:/0:55 0/1:113,11	C	T	
											SOM GT:/0:84 0/1:128,14	C	A		
									2.6		SOM GT:/0:14 0/1:24,5	3	T		
										0	0	SOM GT:/0:10 0/1:6,2	3	T	
0.022	0	0	0							0	0	DB;GT:/0:40 0/1:86,6	3	A	
												SOM GT:/0:14 0/1:29,6	3	A	
		0	##	0	0.0	0.992	1.0,D	1,D	5	5.37	SOM GT:/0:52 0/1:100,16	C	T		
0.001										0	SOM GT:/0:20 0/1:40,12	3	T		
									1.86		SOM GT:/0:73 0/1:141,5	3	G		
											SOM GT:/0:44 0/1:60,8	3	G		
									2.54	0	0	SOM GT:/0:9,0	1:25,3	3	G
											SOM GT:/0:15 0/1:29,7	3	T		
											SOM GT:/0:31 0/1:27,6	3	C		
					0.0	0.987	0.996	1.00	4.4	5.38	SOM GT:/0:11 0/1:184,35	G	A		
2E-04	##	##	0						3.8	3.08	0	0	SOM GT:/0:53 0/1:73,10	3	G
					0.6	0.012	0.02,	1.0.75	3.1			SOM GT:/0:29 0/1:35,7	3	T	
					0.0	0.999	1.0,D	1,D	4.5	2.75	SOM GT:/0:79 0/1:162,15	C	T		

				1,A	4.3	8.44			SOM GT:/0:14 0/1:261,38 G	A
	0	##	0						SOM GT:/0:78 0/1:129,24 G	A
					2.5				SOM GT:/0:21 0/1:26,5:37T	C
									SOM GT:/0:81 0/1:108,15 G	T
				1,N					SOM GT:/0:27 0/1:48,12:3 C	A
									SOM GT:/0:29 0/1:43,8:37G	T
									SOM GT:/0:63 0/1:112,20 G	T
				0.0:0.999	1.0,D	1.00	5.6	4.89	SOM GT:/0:61 0/1:94,18:3 C	T
				0.0:0.994	1.0,D	1,D	5.2	4.06	SOM GT:/0:96 0/1:158,25 G	A
									SOM GT:/0:40 0/1:66,11:3 C	T
									SOM GT:/0:45 0/1:49,17:3 G	A
									SOM GT:/0:82 0/1:124,29 C	T
								0 0	SOM GT:/0:9,(0/1:10,4:37T	C
				0.0:0.008	0.213	1,N			SOM GT:/0:21 0/1:374,82 G	A
				0.0:0.032	0.437	1,N	2.41		SOM GT:/0:64 0/1:105,15 C	T
									SOM GT:/0:16 0/1:14,6:37G	A
		##	0	0.0:0.995	1.0,D	1.00	3.6	2.21	SOM GT:/0:57 0/1:89,13:3 C	T
		##	0						SOM GT:/0:72 0/1:118,16 C	T
4E-04								0	SOM GT:/0:31 0/1:75,11:3 G	A
0.002	0	0	0				3.33		SOM GT:/0:17 0/1:267,33 G	A
								0	SOM GT:/0:13 0/1:12,3:37C	T
									SOM GT:/0:12 0/1:20,3:37A	G
2E-04		##	0	0.0:0.997	1.0,D	1.00	4.6	3.93	SOM GT:/0:11 0/1:197,39 G	A
									SOM GT:/0:59 0/1:37,11:3 A	G
									SOM GT:/0:8,(0/1:15,3:28C	T
								0.1 0.1	SOM GT:/0:38 0/1:58,4:37G	A
								0 0	SOM GT:/0:58 0/1:108,7:3 C	A
								0 0.1	SOM GT:/0:9,(0/1:15,5:37G	A
								0 0.1	SOM GT:/0:8,(0/1:17,3:37C	A
								0.2 0.4	SOM GT:/0:14 0/1:19,8:37C	T
									SOM GT:/0:78 0/1:115,14 G	A
									SOM GT:/0:11 0/1:203,8:3 C	A
2E-04									SOM GT:/0:70 0/1:104,6:3 G	C
									SOM GT:/0:9,(0/1:1,5:34: C	T
								0.3 0.6	SOM GT:/0:9,(0/1:14,4:37T	C
								0.3 0.5	SOM GT:/0:9,(0/1:14,3:37C	T
								0.1 0.2	DB;:GT:/0:33 0/1:55,4:37G	C
									SOM GT:/0:30 0/1:63,5:37C	T
									SOM GT:/0:31 0/1:30,7:37T	C
									SOM GT:/0:33 0/1:50,9:37A	G
							2.5		SOM GT:/0:24 0/1:36,5:37C	G
									SOM GT:/0:75 0/1:100,20 A	G
									SOM GT:/0:18 0/1:26,10:3 C	T
				0.5:0.106	0.245	1,N			SOM GT:/0:11 0/1:181,31 C	T
									SOM GT:/0:14 0/1:23,8:37A	G
									SOM GT:/0:21 0/1:32,9:37G	T
									SOM GT:/0:37 0/1:52,5:37C	T
							3.8		SOM GT:/0:28 0/1:39,7:37C	T
		##	0				1.49		SOM GT:/0:22 0/1:33,11:3 A	G
								0	SOM GT:/0:47 0/1:67,11:3 C	T
									SOM GT:/0:12 0/1:8,3:37: T	G
									SOM GT:/0:10 0/1:24,4:37C	T
							1.71		SOM GT:/0:22 0/1:36,5:37C	T
		##	0						SOM GT:/0:51 0/1:96,22:3 G	A

	##	0	0.0	0.993	1.0,D	1.00	4.8	4.76		SOM	GT:	0:30	0/1:57,17:3	T	
										SOM	GT:	0:28	0/1:46,6:37	A	
										SOM	GT:	0:93	0/1:133,34	A	
										SOM	GT:	0:42	0/1:73,17:3	C	
			0.0	0.998	1.0,D	1.00	5	2.65		SOM	GT:	0:36	0/1:69,14:3	A	
			0.0	0.996	1.0,D	1.00	5.3	3.79		SOM	GT:	0:44	0/1:81,20:3	C	
										SOM	GT:	0:29	0/1:39,9:37	T	
										SOM	GT:	0:16	0/1:30,5:37	C	
										SOM	GT:	0:34	0/1:46,11:3	A	
			0.0	0.987	1.0,D	1.00	5.3	4.28		SOM	GT:	0:73	0/1:109,13	A	
										SOM	GT:	0:23	0/1:44,5:37	C	
										SOM	GT:	0:12	0/1:13,6:35	A	
										SOM	GT:	0:53	0/1:88,13:3	A	
2E-04	##		0.0	0.96	1.0,D	0.99		2.81		SOM	GT:	0:10	0/1:135,30	T	
										SOM	GT:	0:18	0/1:41,8:35	T	
	##	0	0.0	0.998	1.0,D	1,D	5	4.64		SOM	GT:	0:72	0/1:98,18:3	A	
	##	0								SOM	GT:	0:14	0/1:240,38	T	
	0									SOM	GT:	0:35	0/1:94,26:3	T	
										SOM	GT:	0:15	0/1:32,3:37	A	
										SOM	GT:	0:20	0/1:35,4:34	A	
	##	0	0.0	0.997	1.0,D	0.99	5.5	3.51		SOM	GT:	0:90	0/1:131,28	A	
			0.4	0.329	0.837	0.99	4.5	1.36		SOM	GT:	0:36	0/1:72,11:3	A	
									0.1	0.3	SOM	GT:	0:17	0/1:36,4:37	A
									0	0.1	SOM	GT:	0:10	0/1:11,6:35	C
											SOM	GT:	0:23	0/1:28,7:37	A
									0.2	0.3	DB;	GT:	0:19	0/1:36,5:37	C
											SOM	GT:	0:49	0/1:90,15:3	G
4E-04	##	0									SOM	GT:	0:16	0/1:284,46	G
							2.51	0			SOM	GT:	0:8	0/1:19,5:19	T
0.002	0	0									SOM	GT:	0:59	0/1:61,6:37	G
									0	0	SOM	GT:	0:61	0/1:90,5:37	C
											SOM	GT:	0:24	0/1:39,3:37	G
	##	0									SOM	GT:	0:14	0/1:213,40	G
	##	0									SOM	GT:	0:12	0/1:188,41	G
											SOM	GT:	0:11	0/1:166,24	G
	##	##	0								SOM	GT:	0:52	0/1:63,14:3	G
2E-04	##	##	0								SOM	GT:	0:59	0/1:120,25	C
			0.0	0.265	0.745	1,N		1.99			SOM	GT:	0:12	0/1:216,34	G
			0.0	0.002	0.009	0.76	3.3	2.16			SOM	GT:	0:11	0/1:175,39	C
							2.3				SOM	GT:	0:44	0/1:70,11:3	G
	##	0	0.2	0.019	0.127	0.99	3.7	1.77			SOM	GT:	0:10	0/1:14,5:37	G
											SOM	GT:	0:44	0/1:89,6:37	C
											SOM	GT:	0:22	0/1:33,9:37	C
4E-04											SOM	GT:	0:45	0/1:73,16:3	C
											SOM	GT:	0:50	0/1:85,13:3	T
											SOM	GT:	0:20	0/1:44,10:3	G
1E-03	0	0									SOM	GT:	0:15	0/1:33,4:37	G
							2.2				SOM	GT:	0:27	0/1:40,6:37	C
							4	2.97			SOM	GT:	0:81	0/1:137,28	G
											SOM	GT:	0:16	0/1:24,5:34	T
											SOM	GT:	0:18	0/1:45,8:37	T
											SOM	GT:	0:49	0/1:81,13:3	G
	##	##	0								SOM	GT:	0:72	0/1:109,16	C
											SOM	GT:	0:42	0/1:67,13:3	C

2E-04	##	0	0	0.2	0.205	0.863	1,N	2.01	0	0	SOM	GT:/0:66	0/1:153,27	G	A	
2E-04	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:47	0/1:64,6:37	C	T	
.	.	.	.	.	.	.	1,A	4.5	7.78	.	SOM	GT:/0:53	0/1:83,15:3	G	A	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:10	0/1:30,5:37	C	A	
.	##	0	.	.	.	.	.	.	.	.	SOM	GT:/0:75	0/1:137,28	A	G	
.	.	.	0.0	1.0,D	1.0,D	1,D		4.9	4.46	.	SOM	GT:/0:17	0/1:297,53	G	A	
.	.	.	0.0	0.781	0.99	0.99		4.4	3.54	.	SOM	GT:/0:14	0/1:285,62	G	A	
2E-04	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:82	0/1:164,27	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:26	0/1:429,80	C	T	
1E-03	.	.	.	.	.	.	.	.	.	0	SOM	GT:/0:49	0/1:90,18:3	C	T	
.	.	.	0.2	0.975	0.99	0.99		5.6	4.50	.	SOM	GT:/0:54	0/1:89,19:3	C	T	
.	##	0	0.4	0.002	0.035	1,N		.	.	.	SOM	GT:/0:12	0/1:154,35	G	A	
.	.	.	0.0	0.721	0.948	1,D		5.4	5.33	.	SOM	GT:/0:86	0/1:154,8:3	C	T	
2E-04	##	0	0.0	0.998	1.0,D	1,D		4.4	3.92	.	SOM	GT:/0:69	0/1:138,20	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:26	0/1:52,6:37	C	A	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:36	0/1:30,12:3	G	A	
2E-04	##	0	.	.	.	.	.	.	.	.	SOM	GT:/0:82	0/1:120,20	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:22	0/1:28,5:37	G	A	
2E-04	.	.	.	.	.	.	.	.	.	0	0	SOM	GT:/0:13	0/1:13,3:37	C	T
.	.	.	.	.	.	.	.	.	.	0	0	DB;	GT:/0:37	0/1:79,4:34	C	T
.	.	.	.	.	.	.	.	2.2	1.77	.	SOM	GT:/0:26	0/1:51,12:3	C	T	
.	.	.	.	.	.	.	.	5.5	2.28	.	SOM	GT:/0:30	0/1:54,10:3	A	G	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:16	0/1:32,5:37	T	C	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:65	0/1:127,33	G	A	
.	.	.	0.0	0.218	0.937	1,N		2.7	1.74	.	SOM	GT:/0:12	0/1:160,42	G	A	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:75	0/1:115,22	C	A	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:15	0/1:31,3:37	C	A	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:52	0/1:100,5:3	G	A	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:8,	0/1:7,3:37	G	A	
.	.	.	.	.	.	.	.	3.7	.	.	SOM	GT:/0:21	0/1:341,55	G	A	
2E-04	##	##	0	.	.	.	.	.	.	.	SOM	GT:/0:54	0/1:122,21	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:53	0/1:69,12:3	G	A	
.	.	.	0.0	0.99	1.0,D	1.00		4.8	4.78	.	SOM	GT:/0:96	0/1:212,25	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:20	0/1:37,11:3	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:19	0/1:27,11:3	A	G	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:22	0/1:35,10:3	T	G	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:50	0/1:87,12:3	A	C	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:70	0/1:130,19	T	C	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:51	0/1:90,17:3	T	C	
.	.	.	.	.	.	.	.	2.1	.	.	SOM	GT:/0:37	0/1:50,13:3	G	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:17	0/1:14,5:37	C	T	
.	.	.	0.0	1.0,D	1.0,D	1,D		5.6	4.37	.	SOM	GT:/0:11	0/1:183,32	C	T	
.	.	.	.	.	.	.	.	1.86	.	.	SOM	GT:/0:71	0/1:111,28	G	A	
.	##	0	0.0	0.456	0.916	1,N		2.58	.	.	SOM	GT:/0:61	0/1:96,13:3	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:71	0/1:99,18:3	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:94	0/1:125,34	T	C	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:15	0/1:31,8:37	C	T	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:58	0/1:52,17:3	T	A	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:64	0/1:132,10	C	A	
.	.	.	.	.	.	.	.	3	4.36	.	SOM	GT:/0:12	0/1:20,6:37	G	A	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:43	0/1:40,5:31	T	C	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:29	0/1:49,7:35	A	C	
.	.	.	.	.	.	.	.	.	.	.	SOM	GT:/0:45	0/1:73,9:35	A	C	
.	.	.	.	.	.	.	.	5.2	3.80	.	SOM	GT:/0:30	0/1:50,4:37	A	C	

.	.	.	.	.	.	.	.	1.99.	.	SOMGT:/0:12 0/1:176,35 G	A
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:42 0/1:60,6:37 G	A
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:99 0/1:134,15 C	T
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:86 0/1:170,13 G	T
.	.	0	0	.	.	.	.	.	.	SOMGT:/0:21 0/1:308,65 C	T
.	##	##	0	0.3:0.0340.507 1,D	3.3	3.27.	.	.	.	SOMGT:/0:14 0/1:234,47 G	A
.	.	##	0	0.1:0.8430.999 1,D	4	4.03.	.	.	.	SOMGT:/0:12 0/1:191,37 C	T
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:14 0/1:259,34 G	T
.	.	.	.	.	.	2.7	1.77.	.	.	SOMGT:/0:38 0/1:59,18:3 G	A
.	.	##	0	.	.	.	.	.	.	SOMGT:/0:89 0/1:156,34 C	T
.	.	.	.	.	.	4.2	1.57.	.	.	SOMGT:/0:65 0/1:100,12 C	T
.	.	.	0.0	0.1040.7030.96	2.4	1.63.	.	.	.	SOMGT:/0:63 0/1:138,25 G	A
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:14 0/1:13,4:37 G	A
.	.	##	0	0.3:0.0390.585 1,D	3.6	1.69.	.	.	.	SOMGT:/0:11 0/1:192,25 C	T
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:42 0/1:58,12:3 G	T
.	.	.	0.3	0.0790.357 1,D	4.6	3.14.	.	.	.	SOMGT:/0:74 0/1:102,19 A	C
.	.	.	0.0	0.1240.2060.98	5.8	1.66.	.	.	.	SOMGT:/0:10 0/1:171,22 G	T
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:14 0/1:22,8:37 T	C
.	.	.	.	.	1,D	5.1	3.90.	.	.	SOMGT:/0:11 0/1:228,8:3 C	T
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:94 0/1:147,23 G	A
.	.	.	.	.	.	2.4	.	.	.	SOMGT:/0:22 0/1:48,8:35 A	G
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:8,(0/1:33,3:37 T	G
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:11 0/1:221,8:3 G	C
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:29 0/1:327,12 A	G
.	.	.	.	.	.	.	.	.	.	DB;:GT:/0:30 0/1:344,10 C	A
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:8,(0/1:44,4:34 A	G
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:10 0/1:69,7:37 T	G
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:10 0/1:36,16:3 T	C
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:10 0/1:47,4:34 T	G
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:8,(0/1:157,8:3 A	C
.	.	.	.	.	.	.	.	0.	.	SOMGT:/0:17 0/1:143,6:3 G	A
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:9,(0/1:20,4:37 C	A
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:14 0/1:181,34 C	A
3E-04	.	.	.	.	.	.	.	.	.	SOMGT:/0:29 0/1:30,6:35 G	A
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:60 0/1:80,16:3 G	C
.	.	##	0	0.0:0.9770.998 1,D	4.6	3.56.	.	.	.	SOMGT:/0:96 0/1:199,41 C	T
.	.	.	0.0	0.08920.999 0.98	2.9	1.95.	.	.	.	SOMGT:/0:11 0/1:216,42 C	T
.	.	0	0	.	.	.	.	.	.	SOMGT:/0:16 0/1:18,4:37 G	A
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:99 0/1:132,26 C	A
.	.	.	0.0	0.0190.288 1.00	3.8	1.91.	.	.	.	SOMGT:/0:93 0/1:150,21 G	A
.	.	.	0.1	0.993 1.0,D 1,D	4.5	4.69.	.	.	.	SOMGT:/0:30 0/1:46,9:35 C	T
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:41 0/1:50,10:3 A	G
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:77 0/1:120,20 G	A
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:11 0/1:6,4:37: G	T
.	.	.	.	.	1,A	6.1	9.05.	.	.	SOMGT:/0:79 0/1:120,34 C	A
.	.	.	.	.	.	2.8	.	.	.	SOMGT:/0:8,(0/1:24,3:37 A	G
.	.	.	0.0	0.5810.9630.99	5	4.16.	.	.	.	SOMGT:/0:40 0/1:62,13:3 C	T
.	.	.	0.1	0.993 1.0,D 1.00	4.7	2.63.	.	.	.	SOMGT:/0:66 0/1:104,21 G	A
.	.	.	0.0	0.93, 0.996 0.99	5.2	3.37.	.	.	.	SOMGT:/0:23 0/1:344,68 C	A
.	.	.	.	.	.	1.55.	.	.	.	SOMGT:/0:24 0/1:25,9:37 C	T
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:12 0/1:23,4:37 T	C
.	.	.	.	.	.	.	.	.	.	SOMGT:/0:8,(0/1:14,5:37 G	A
.	.	.	0.0	0.999 1.0,D 1,D	3.9	4.36.	.	.	.	SOMGT:/0:85 0/1:134,21 G	A
.	.	.	0.0	0.025 0.032 1.00	.	.	.	.	.	SOMGT:/0:85 0/1:85,15:3 C	A

										SOM GT:/0:21 0/1:51,5:37 C	T
0.013	0	0	0							SOM GT:/0:82 0/1:147,17 C	T
						3.4				SOM GT:/0:99 0/1:176,46 G	A
										SOM GT:/0:50 0/1:77,16:3 C	A
										SOM GT:/0:15 0/1:5,2:37: T	C
						2.4	2.35			SOM GT:/0:12 0/1:209,36 C	T
										SOM GT:/0:41 0/1:82,11:3 C	T
										SOM GT:/0:10 0/1:36,9:34 G	A
	##	0	0	1.0,0.032	0.075	0.92	2.9		0	SOM GT:/0:64 0/1:102,19 C	T
										SOM GT:/0:9,(0/1:11,4:37 A	G
										SOM GT:/0:13 0/1:28,7:35 C	A
										SOM GT:/0:57 0/1:78,14:3 C	T
										SOM GT:/0:32 0/1:47,8:37 G	T
								1.46		SOM GT:/0:29 0/1:35,3:37 A	G
										SOM GT:/0:16 0/1:21,9:35 G	A
										SOM GT:/0:69 0/1:87,16:3 C	T
		0	0						0 0	SOM GT:/0:69 0/1:121,10 C	T
				0.0:0.698	0.955	1.00	5.3	2.25		SOM GT:/0:61 0/1:120,25 G	A
		##	0							SOM GT:/0:10 0/1:205,29 C	T
				0.0:0.897	0.992	1.00	4.8	4.69		SOM GT:/0:93 0/1:158,13 G	T
										SOM GT:/0:36 0/1:73,18:3 G	A
		##	0							SOM GT:/0:75 0/1:108,36 G	A
									0	SOM GT:/0:46 0/1:65,14:3 G	A
								1.53		SOM GT:/0:15 0/1:8,3:37: G	A
								4	1.79	SOM GT:/0:86 0/1:182,15 G	A
									0	SOM GT:/0:14 0/1:25,6:37 C	T
										SOM GT:/0:18 0/1:260,52 G	A
		##	0	0.1:0.128	0.6,P	1,D	4.7	3.31		SOM GT:/0:56 0/1:97,22:3 C	T
										SOM GT:/0:36 0/1:92,19:3 C	T
								1.48		SOM GT:/0:27 0/1:54,9:37 G	A
				0.0:0.982	1.0,D	1,D	4.2	2.12		SOM GT:/0:52 0/1:64,20:3 A	G
										SOM GT:/0:9,(0/1:6,3:37: C	T
										SOM GT:/0:34 0/1:411,49 C	T
										SOM GT:/0:27 0/1:325,56 A	T
										SOM GT:/0:19 0/1:148,50 T	C
2E-04										SOM GT:/0/1:0:41,0:..:41 C	T
									0 0.1	SOM GT:/0/1:0:9,0:..:6:0: C	T
									0 0	SOM GT:/0/1:0:17,0:..:16 A	C
									0 0	SOM GT:/0/1:0:9,0:..:10:0 T	C
						1,D	5.6	4.73		SOM GT:/0/1:0:18,0:..:18 C	A
									0 0	SOM GT:/0/1:0:13,0:..:16 G	C
									0 0.1	SOM GT:/0/1:0:8,0:..:8:0: G	T
									0	SOM GT:/0/1:0:11,0:..:11 T	C
										SOM GT:/0/1:0:82,0:..:82 G	T
										SOM GT:/0/1:0:28,0:..:28 G	T
									0 0	SOM GT:/0/1:0:13,0:..:13 G	C
4E-04	##	0	0					1.33	0 0	DB;GT:/0/1:0:49,0:..:49 G	A
		##	0							SOM GT:/0/1:0:25,0:..:25 C	T
				0.0:1.0,D	1.0,D	1,D	5.8	4.66		SOM GT:/0/1:0:21,0:..:21 C	A
										SOM GT:/0/1:0:180,0:..:1: C	T
									0 0	DB;GT:/0/1:0:35,0:..:35 A	G
									0 0	SOM GT:/0/1:0:13,0:..:10 G	T
								3.4		SOM GT:/0/1:0:58,0:..:58 T	C



										SOMGT:/0/1:/0:9,0:..9:0:A	G
										SOMGT:/0/1:/0:24,0:..24 T	C
										SOMGT:/0/1:/0:15,0:..15 C	T
										SOMGT:/0/1:/0:25,0:..25 C	T
4E-04	0	##	0.5	0.005	0.007	1,N				SOMGT:/0/1:/0:200,0:..2 G	A
		##	0				2.6	2.20		SOMGT:/0/1:/0:51,0:..51 G	A
								1.24		SOMGT:/0/1:/0:20,0:..20 C	T
									0 0	SOMGT:/0/1:/0:9,0:..8:0:G	T
										SOMGT:/0/1:/0:12,0:..12 G	T
		0	0							SOMGT:/0/1:/0:38,1:..26 T	C
			0.5	0.001	0.001	1,N	2.8			SOMGT:/0/1:/0:30,0:..30 A	C
		##	0	0.0	0.02	1.00	5.5	3.45		SOMGT:/0/1:/0:24,0:..24 G	A
								1.63		SOMGT:/0/1:/0:8,0:..8:0:A	T
		##	0						0	SOMGT:/0/1:/0:128,0:..1:G	A
		##	0	0.0	0.35	0.97	1,N	1.80	0 0	SOMGT:/0/1:/0:44,0:..44 C	T
										SOMGT:/0/1:/0:29,0:..29 G	A
									0.1 0.2	DB;SOMGT:/0/1:/0:35,0:..34 C	T
0.075		0	0	0.00	0.01	1,N		0.2	0.2	SOMGT:/0/1:/0:40,0:..30 T	G
		0	0					0.3	0.2	SOMGT:/0/1:/0:42,0:..31 A	G
										SOMGT:/0/1:/0:99,0:..99 C	A
									0.1 0.1	SOMGT:/0/1:/0:11,0:..6:CA	G
								1.81		SOMGT:/0/1:/0:9,0:..9:0:C	A
										SOMGT:/0/1:/0:51,0:..51 C	T
		0	0							SOMGT:/0/1:/0:9,0:..9:0:T	C
									0 0.4	SOMGT:/0/1:/0:13,0:..11 A	C
		0	0			1,A	4.7	8.33	0.1 0	DB;SOMGT:/0/1:/0:112,1:..1 G	A
							4.4	1.68		SOMGT:/0/1:/0:183,0:..1:C	T
							3.6			SOMGT:/0/1:/0:22,0:..22 C	G
										SOMGT:/0/1:/0:26,0:..26 A	T
									0	SOMGT:/0/1:/0:39,1:..40 A	G
		##	0						0	SOMGT:/0/1:/0:26,0:..26 G	A
0.144		0	0						0.1 0.1	SOMGT:/0/1:/0:12,0:..12 A	G
										SOMGT:/0/1:/0:12,0:..12 G	A
									0.3 0.4	DB;SOMGT:/0/1:/0:33,1:..34 C	T
							3.1	1.70		SOMGT:/0/1:/0:26,0:..26 G	T
							2.4	2.84		SOMGT:/0/1:/0:84,1:..86 G	C
		##	##	0						SOMGT:/0/1:/0:14,0:..14 C	T
							2.6	2.07		SOMGT:/0/1:/0:16,0:..16 G	A
									0 0.1	SOMGT:/0/1:/0:9,0:..9:0:G	C
									0 0.2	SOMGT:/0/1:/0:11,0:..11 G	C
										SOMGT:/0/1:/0:56,1:..57 T	G
						1,D		1.30		SOMGT:/0/1:/0:213,0:..2 G	A
			0.1	0.01	0.00	1.00	4.4	1.76		SOMGT:/0/1:/0:89,0:..90 G	C
										SOMGT:/0/1:/0:19,0:..20 C	G
							4			SOMGT:/0/1:/0:85,0:..85 G	C
			0.0	0.99	1.00	1,D	5.7	5.56		SOMGT:/0/1:/0:20,0:..20 C	T
										SOMGT:/0/1:/0:30,0:..30 G	C
			0.1	0.39	0.73	0.98	5	2.81		SOMGT:/0/1:/0:26,0:..26 C	T
										SOMGT:/0/1:/0:9,0:..9:0:G	A
		##	0	0.0	0.99	1.0	1,D	4.8	5.21	SOMGT:/0/1:/0:102,0:..1:G	A
							2.5	1.40		SOMGT:/0/1:/0:35,0:..36 C	G
										SOMGT:/0/1:/0:23,0:..23 G	A
							1.24			SOMGT:/0/1:/0:12,0:..12 C	T
							2.5			SOMGT:/0/1:/0:23,0:..23 C	T

	##	0.0	0.99	1.0,D	1,D	5.6	4.51			SOM	GT:/0/1:	0:17,0:	:18	G	A		
										SOM	GT:/0/1:	0:52,0:	:52	T	C		
		0.0	0.74	0.98	1.00	5.9	5.01			SOM	GT:/0/1:	0:31,0:	:31	C	T		
		0.0	0.99	1.0	1,D	4.9	3.98			SOM	GT:/0/1:	0:47,0:	:47	C	G		
6E-04										SOM	GT:/0/1:	0:12,0:	:12	C	T		
										SOM	GT:/0/1:	0:37,0:	:37	G	C		
						3	1.75			SOM	GT:/0/1:	0:22,0:	:22	G	T		
		0.0			0.99	2.2				SOM	GT:/0/1:	0:173,0:	:1	G	C		
	##	0	0.0	0.43	2.0	1,D	5.2	3.79		SOM	GT:/0/1:	0:23,0:	:23	G	A		
										SOM	GT:/0/1:	0:31,0:	:31	G	C		
										SOM	GT:/0/1:	0:36,0:	:36	A	G		
		0.0	0.92	4.0	0.99	1,D	3.2	3.19		SOM	GT:/0/1:	0:54,0:	:54	G	T		
		0.4	0.01	5.0	0.02	1,D	4.2			SOM	GT:/0/1:	0:54,0:	:55	G	A		
										SOM	GT:/0/1:	0:10,0:	:10	G	C		
	##	0				0.99	2.3	8.58		SOM	GT:/0/1:	0:61,0:	:61	G	A		
										SOM	GT:/0/1:	0:55,0:	:55	G	C		
	##	0	0.0	0.90	0.99	1,D	5.8	5.70		DB;	GT:/0/1:	0:25,0:	:25	G	A		
		0.0	0.00	2.0	0.00	2.0	0.81	3.23		SOM	GT:/0/1:	0:32,0:	:32	A	C		
										SOM	GT:/0/1:	0:33,0:	:33	C	T		
		0.0	0.39	4.0	0.81	7.0	1.00	5.6	2.56		SOM	GT:/0/1:	0:39,0:	:39	G	A	
										SOM	GT:/0/1:	0:19,0:	:19	C	T		
		0.0	0.72	1.0	0.94	1,D	5.3	5.17		SOM	GT:/0/1:	0:20,0:	:21	C	T		
		0.0	0.99	1.0	1,D	1,D	6.2	4.90		SOM	GT:/0/1:	0:17,0:	:17	C	G		
										SOM	GT:/0/1:	0:13,0:	:13	C	T		
									0	SOM	GT:/0/1:	0:14,0:	:14	G	C		
		0.0	0.99	1.0	1,D	1.00	5.6	4.57		SOM	GT:/0/1:	0:24,0:	:24	G	C		
		0.1	0.00	1.0	0,B	1,N				SOM	GT:/0/1:	0:36,0:	:37	C	T		
0.007	0	0	0.1	0.15	3.0	0.76	0.63	3.9	1.85	0	0	DB;	GT:/0/1:	0:37,0:	:37	C	T
		0.0	0.38	3.0	0.97	4.0	1.00	4.5	2.94			SOM	GT:/0/1:	0:77,0:	:77	C	G
										SOM	GT:/0/1:	0:30,0:	:31	G	A		
		0.6	0.00	6.0	0.05	1,D	4.2	2.60		SOM	GT:/0/1:	0:141,0:	:1	G	A		
										SOM	GT:/0/1:	0:8,0:	:8	0	A		
		0.3	0.0	0,B	0.00	1,N				SOM	GT:/0/1:	0:21,0:	:21	A	G		
										SOM	GT:/0/1:	0:146,0:	:1	G	A		
0.213									0.2	0.3	DB;	GT:/0/1:	0:39,1:	:40	C	T	
6E-04									0	0	SOM	GT:/0/1:	0:8,0:	:8	0	A	G
		0.0	0.99	1.0	1,D	0.99	5.2	2.21			SOM	GT:/0/1:	0:17,0:	:17	C	G	
		0.0	0.03	6.0	0.03	7.0	1.00	2.5			SOM	GT:/0/1:	0:30,0:	:30	C	T	
											SOM	GT:/0/1:	0:12,0:	:12	C	T	
											SOM	GT:/0/1:	0:72,0:	:73	C	G	
								3.7	2.89			SOM	GT:/0/1:	0:27,0:	:27	G	C
									0			SOM	GT:/0/1:	0:29,0:	:28	C	A
												SOM	GT:/0/1:	0:45,0:	:45	C	A
								4.8	1.97			SOM	GT:/0/1:	0:54,0:	:54	C	T
	##	0										SOM	GT:/0/1:	0:44,0:	:44	G	C
												SOM	GT:/0/1:	0:153,0:	:1	G	A
		0.0	0.13	8.0	0.20	2,D	6.2	3.33			SOM	GT:/0/1:	0:18,0:	:18	A	T	
								4	1.65			SOM	GT:/0/1:	0:30,0:	:30	G	A
		0.2	0.01	2.0	0.00	4,N		1.51				SOM	GT:/0/1:	0:39,0:	:39	C	T
	##	##	0	0.0	0.67	4.0	0.99	2.0	0.98	3.8	1.87	0			C	T	
		0	0							0.1	0	DB;	GT:/0/1:	0:43,1:	:38	C	T
												SOM	GT:/0/1:	0:22,0:	:22	G	A
								4.9	1.37			SOM	GT:/0/1:	0:122,0:	:1	G	A
												SOM	GT:/0/1:	0:130,0:	:1	C	T

										SOMGT:/0/1:/0:69,0:..70 T	A		
			0.0	0.978	0.999	1,D	6	2.81		SOMGT:/0/1:/0:126,0:..1 C	T		
										SOMGT:/0/1:/0:81,0:..81 G	A		
0.433		1	1						0.1	0.5	SOMGT:/0/1:/0:44,1:..26 C	G	
											SOMGT:/0/1:/0:87,0:..88 G	C	
											SOMGT:/0/1:/0:114,0:..1 C	T	
								1.76			SOMGT:/0/1:/0:33,0:..33 C	G	
											SOMGT:/0/1:/0:130,0:..1 C	T	
											SOMGT:/0/1:/0:163,0:..1 G	A	
								3.9	1.41		SOMGT:/0/1:/0:43,0:..43 G	A	
											SOMGT:/0/1:/0:51,0:..51 G	A	
											SOMGT:/0/1:/0:35,0:..35 G	A	
0.205										0.1	0	SOMGT:/0/1:/0:15,0:..13 T	C
				0.0	0.998	1.0,D	1,D	6.1	3.62			SOMGT:/0/1:/0:44,0:..45 A	G
				0.0	0.453	0.849	1.00	2.8				SOMGT:/0/1:/0:24,0:..24 C	G
										0	0	SOMGT:/0/1:/0:15,0:..15 T	A
												SOMGT:/0/1:/0:16,0:..17 C	T
								2.5				SOMGT:/0/1:/0:29,0:..29 G	A
				0.0	1.0,D	1.0,D	1,D	5	5.03			DB;SOMGT:/0/1:/0:52,0:..52 G	A
												SOMGT:/0/1:/0:14,0:..14 T	A
4E-04	##	##	0	0.947	0.997	1,D	6	5.36				SOMGT:/0/1:/0:42,0:..42 G	A
4E-04	0	0	0	0.0	0.676	0.997	1.00	5.1	3.59			DB;SOMGT:/0/1:/0:104,0:..1 C	T
				0.0	0.344	0.356	0.94	3.2	1.48			SOMGT:/0/1:/0:46,0:..46 C	G
				0.1	0.031	0.064	0.99	5.9	1.36			SOMGT:/0/1:/0:31,0:..31 C	T
												SOMGT:/0/1:/0:28,0:..28 C	G
				0.1	0.419	0.881	1.00	5.7	2.53			SOMGT:/0/1:/0:37,0:..37 C	G
				0.095	0.27	1,N		2.37				SOMGT:/0/1:/0:49,0:..49 G	A
	0	0	0									SOMGT:/0/1:/0:27,0:..27 C	T
												SOMGT:/0/1:/0:14,0:..14 C	T
												SOMGT:/0/1:/0:8,0:..9:0 C	T
								4.1				SOMGT:/0/1:/0:43,0:..43 G	A
		##	0	0.0	1.0,D	1.0,D	1,D	4.6	4.45			DB;SOMGT:/0/1:/0:81,0:..82 C	T
												SOMGT:/0/1:/0:35,0:..35 G	A
			0	0						0		DB;SOMGT:/0/1:/0:58,1:..57 G	A
										0	0	SOMGT:/0/1:/0:9,0:..8:0 C	G
			0	0						0.4	0.3	SOMGT:/0/1:/0:33,1:..30 T	C
0.073										0	0.1	SOMGT:/0/1:/0:17,0:..17 G	C
												SOMGT:/0/1:/0:58,1:..59 G	A
4E-04		0	0							0	0	SOMGT:/0/1:/0:49,0:..49 C	T
				0.0	0.803	0.992	1,N	1.98				SOMGT:/0/1:/0:81,0:..81 G	A
												SOMGT:/0/1:/0:60,0:..60 G	C
								4.6				SOMGT:/0/1:/0:14,0:..14 G	A
												SOMGT:/0/1:/0:47,0:..47 G	A
												SOMGT:/0/1:/0:76,0:..77 C	T
				0.0	0.963	1.0,D	1,D	5.4	3.69			SOMGT:/0/1:/0:105,0:..1 C	T
												SOMGT:/0/1:/0:18,0:..18 G	A
			##	0	0.0	0.594	0.987	1.00	5.8	5.62		SOMGT:/0/1:/0:50,0:..50 C	T
												SOMGT:/0/1:/0:44,0:..44 C	T
				0.0	0.568	0.899	1.00	2.6	2.10			SOMGT:/0/1:/0:90,0:..90 G	C
			##	0	0.002	0.001	1,N					SOMGT:/0/1:/0:247,0:..2 C	T
0.001	0	0	0									SOMGT:/0/1:/0:178,0:..1 G	A
								3				SOMGT:/0/1:/0:202,0:..2 G	A
4E-04		0	0									SOMGT:/0/1:/0:199,0:..1 C	T
										0		SOMGT:/0/1:/0:25,0:..25 C	T

2E-04	.	.	.	.	.	.	.	2.32	.	SOMGT:/0/1:0:32,0::32 G	A				
	0	0	.	.	.	.	.	0	0	SOMGT:/0/1:0:14,0::14 C	T				
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:22,0::23 G	C				
	.	.	.	.	.	.	.	2.8	.	SOMGT:/0/1:0:24,0::24 C	G				
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:13,0::13 G	A				
	.	.	.	0.0	0.998	0.999	1.00	3.1	3.49	SOMGT:/0/1:0:57,0::57 G	T				
	.	.	.	0.0	0.112	0.43	1,1,N	.	.	SOMGT:/0/1:0:65,0::65 C	T				
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:32,0::32 C	T				
	.	.	.	.	.	.	1,D	4	6.43	SOMGT:/0/1:0:37,0::37 C	G				
	.	.	.	.	.	.	.	1.59	0	SOMGT:/0/1:0:62,0::62 G	A				
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:76,0::76 G	C				
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:118,0::1 C	G				
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:48,0::48 G	C				
	.	.	.	.	.	.	.	5.9	.	SOMGT:/0/1:0:11,0::11 G	A				
	##	##	0	0.4	0.002	0.005	0.98	1.70	0	0	SOMGT:/0/1:0:44,0::44 G	A			
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:17,0::17 G	C				
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:8,0::8:0.T	C				
	.	.	.	.	.	.	.	.	0	0	DB;SOMGT:/0/1:0:28,0::27 T	C			
	.	.	.	.	.	.	1,A	5.5	10.7	SOMGT:/0/1:0:27,0::27 C	G				
	.	.	.	.	.	.	.	.	.	DB;SOMGT:/0/1:0:20,0::20 G	C				
	.	.	.	0.3	0.107	0.487	1,N	2.74	.	SOMGT:/0/1:0:157,0::1 C	T				
	.	.	.	.	.	.	.	4.4	.	SOMGT:/0/1:0:24,0::24 C	A				
	.	.	0	0	0.0	0.935	0.371	1.00	3.5	2.43	SOMGT:/0/1:0:42,0::42 G	A			
	.	.	.	.	.	.	.	0.0	0.795	0.995	0.97	2.7	2.50	SOMGT:/0/1:0:16,0::16 G	A
	.	.	.	.	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:9,0::9:0.T	A
	.	.	.	0.3	0.906	0.999	1,D	4.9	4.26	SOMGT:/0/1:0:34,0::34 G	A				
	.	.	.	0.0	0.058	0.07	1,1,N	.	.	SOMGT:/0/1:0:157,0::1 G	C				
	.	.	.	.	.	.	.	.	0	SOMGT:/0/1:0:10,0::10 T	A				
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:15,0::15 T	A				
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:16,0::16 G	C				
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:52,0::52 C	T				
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:45,0::45 T	C				
	.	0	0	.	.	.	.	.	0	0	DB;SOMGT:/0/1:0:37,1::35 T	C			
	.	.	.	1.0	0.059	0.048	1,D	4.9	.	SOMGT:/0/1:0:48,0::48 C	A				
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:93,0::93 C	T				
	.	.	.	0.4	0.016	0.007	0.98	4.1	1.44	SOMGT:/0/1:0:31,0::31 G	A				
	.	.	.	.	.	.	.	1.47	0	0.1	SOMGT:/0/1:0:9,0::9:0.T	C			
	.	.	.	.	.	.	.	.	0.2	0.2	SOMGT:/0/1:0:13,0::13 G	T			
	.	.	.	.	.	.	.	1.67	.	SOMGT:/0/1:0:49,0::49 T	A				
	.	.	.	0.5	0.003	0.001	1,N	.	.	SOMGT:/0/1:0:72,0::74 G	A				
	.	.	.	.	.	.	.	3.3	.	SOMGT:/0/1:0:185,1::1.C	G				
	##	##	0	.	.	.	.	.	.	SOMGT:/0/1:0:85,0::85 C	T				
0.007	.	0	0	.	.	.	.	.	0	0	SOMGT:/0/1:0:61,0::61 T	A			
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:27,0::27 C	T				
	.	0	##	0	.	.	.	.	.	SOMGT:/0/1:0:127,0::1.C	T				
	.	0	0	.	.	.	.	.	0	.	SOMGT:/0/1:0:105,0::1 G	A			
0.102	.	.	.	.	.	.	.	.	0	0.1	SOMGT:/0/1:0:9,0::9:0.C	T			
	.	.	.	.	.	.	.	.	.	SOMGT:/0/1:0:22,0::22 G	T				
	.	.	.	.	.	.	.	4.8	.	SOMGT:/0/1:0:40,0::40 C	T				
	##	##	0	0.4	0.001	0.002	1,N	2	1.66	SOMGT:/0/1:0:64,0::64 C	T				
0.014	.	.	.	.	.	.	.	.	0	0	DB;SOMGT:/0/1:0:72,0::72 C	T			
	.	.	.	.	.	.	.	.	0.4	0.5	DB;SOMGT:/0/1:0:52,1::48 C	G			
	.	.	.	.	.	.	.	.	0.4	0.4	DB;SOMGT:/0/1:0:40,1::37 G	T			
	.	##	0	.	.	.	.	.	.	SOMGT:/0/1:0:127,0::1.C	T				

	##	0 0.0 0.3910.84, 1,D	2.7 2.81 .		SOM GT:/0/1:/0:68,0:..68 G	A
					SOM GT:/0/1:/0:337,0:..3 C	T
					DB;GT:/0/1:/0:33,0:..33 C	T
					SOM GT:/0/1:/0:24,0:..24 G	T
					SOM GT:/0/1:/0:74,0:..74 T	A
	##	0 .			SOM GT:/0/1:/0:46,0:..46 C	T
		0.0,0.14, 0.557 .	1.91 .		SOM GT:/0/1:/0:44,0:..44 G	A
		1.0,0.0040.0,B 1.00	4 .		SOM GT:/0/1:/0:23,0:..23 C	A
					SOM GT:/0/1:/0:23,0:..20 T	C
	##	0 .			SOM GT:/0/1:/0:31,0:..31 C	T
					SOM GT:/0/1:/0:21,0:..21 G	T
	##	0 0.4 0.2940.866 0.99	4.5 2.15 .		SOM GT:/0/1:/0:81,0:..82 G	A
			3.9 2.86 .		SOM GT:/0/1:/0:24,0:..24 T	A
	##	0 .			SOM GT:/0/1:/0:27,0:..27 G	A
0.002 .				0 .	SOM GT:/0/1:/0:25,0:..25 C	T
0.327 .				0 .	DB;GT:/0/1:/0:19,0:..19 T	A
					SOM GT:/0/1:/0:32,0:..32 G	A
					SOM GT:/0/1:/0:63,0:..63 C	T
	##	0 .			SOM GT:/0/1:/0:68,1:..69 A	G
			1.46 .		SOM GT:/0/1:/0:113,0:..1 G	A
		0.0 0.6370.887 1,D	5.8 4.15 .		DB;GT:/0/1:/0:46,0:..46 A	G
		0.0 0.994 1.0,D 1,D	4 4.84 .		SOM GT:/0/1:/0:107,0:..1 G	A
2E-04 .	##	0 .		0 .	SOM GT:/0/1:/0:38,0:..38 G	A
			1.62 .		SOM GT:/0/1:/0:101,0:..1 A	G
			2.4 .		SOM GT:/0/1:/0:51,0:..51 T	C
		0.2 1.0,D 1.0,D 1,D	4.8 3.46 .		SOM GT:/0/1:/0:55,0:..56 T	C
					SOM GT:/0/1:/0:44,0:..44 G	A
					SOM GT:/0/1:/0:19,0:..19 C	T
				0 .	SOM GT:/0/1:/0:21,0:..21 A	G
			1.45 .		SOM GT:/0/1:/0:123,0:..1 G	T
			5.7 4.01 .		SOM GT:/0/1:/0:37,0:..37 C	A
2E-04 .	##	0 .			SOM GT:/0/1:/0:22,0:..22 G	A
					SOM GT:/0/1:/0:45,0:..45 G	A
		0.0,1.0,D 1.0,D 1,D	5 4.65 .		SOM GT:/0/1:/0:23,0:..23 G	A
		0.0,0.945 0.994 1.00	5.1 4.41 .		SOM GT:/0/1:/0:66,0:..66 C	A
				0 0	SOM GT:/0/1:/0:9,0:..9 G	T
				0 .	SOM GT:/0/1:/0:17,0:..15 G	A
		0.1 0.039 0.104 1.00	3.8 .		SOM GT:/0/1:/0:48,0:..48 T	C
		0.7 0.003 0.0,B 0.99	2.5 .		SOM GT:/0/1:/0:26,0:..26 C	A
					SOM GT:/0/1:/0:196,0:..1 C	T
			4.1 1.54 .		SOM GT:/0/1:/0:82,1:..83 A	T
				0 0	SOM GT:/0/1:/0:15,0:..12 G	C
	0 0 .				SOM GT:/0/1:/0:24,0:..24 G	A
					SOM GT:/0/1:/0:27,0:..27 C	A
	##	0 .			SOM GT:/0/1:/0:25,0:..26 G	A
					SOM GT:/0/1:/0:46,0:..46 C	A
					SOM GT:/0/1:/0:74,0:..74 T	C
		0.0 0.66, 0.955 0.75	4.4 3.62 .		SOM GT:/0/1:/0:13,0:..13 C	T
				0 .	SOM GT:/0/1:/0:8,0:..8 C	A
	## ##	0 .			SOM GT:/0/1:/0:9,0:..9 C	T
					SOM GT:/0/1:/0:120,0:..1 C	T
0.002 .	0 0 .				SOM GT:/0/1:/0:26,0:..26 T	A
				0.2 0.2	DB;GT:/0/1:/0:38,0:..37 C	A
					SOM GT:/0/1:/0:45,0:..45 G	C

				2.11		SOMGT:/0/1:0:36,0::36 G	A					
				0.1	0.2	SOMGT:/0/1:0:19,0::19 C	T					
				0.1	0.2	SOMGT:/0/1:0:16,0::16 G	A					
		0.2	0.008	0.014	1,N	SOMGT:/0/1:0:57,0::57 G	A					
				1,A	4.71	SOMGT:/0/1:0:98,0::98 G	T					
						SOMGT:/0/1:0:9,0::9:0: G	A					
						SOMGT:/0/1:0:8,0::8:0: G	A					
					0	0.1	SOMGT:/0/1:0:9,0::8:0: T	A				
				3.3		SOMGT:/0/1:0:24,0::24 C	A					
					0	0.1	SOMGT:/0/1:0:72,1::70 C	G				
						SOMGT:/0/1:0:13,0::13 T	C					
						SOMGT:/0/1:0:31,0::31 C	A					
					0	0	SOMGT:/0/1:0:14,0::9:0 G	C				
					0	0	SOMGT:/0/1:0:8,0::8:0: G	A				
				5.1	4.13	SOMGT:/0/1:0:15,0::15 A	T					
				1.24	0	0.1	SOMGT:/0/1:0:21,0::14 T	C				
					0		SOMGT:/0/1:0:12,0::13 T	A				
					0.1	0	SOMGT:/0/1:0:11,0::9:0 T	G				
							SOMGT:/0/1:0:9,0::9:0: T	C				
					0.1	0.3	DB;SOMGT:/0/1:0:35,1::34 G	A				
					0		SOMGT:/0/1:0:17,0::17 C	A				
		0	0		0		DB;SOMGT:/0/1:0:45,1::46 G	A				
							SOMGT:/0/1:0:20,0::20 A	C				
		0	0	0.851	0.997	1,N	DB;SOMGT:/0/1:0:35,0::38 G	A				
							SOMGT:/0/1:0:9,0::9:0: G	T				
						0	SOMGT:/0/1:0:9,0::9:0: G	A				
							SOMGT:/0:12 0/1:26,5:31A	C				
					0	0.1	SOMGT:/0:36 0/1:51,6:28 G	T				
0.398					0	0.2	SOMGT:/0:35 0/1:53,6:30 C	T				
					0	0	SOMGT:/0:14 0/1:14,4:37 G	A				
					3.1		SOMGT:/0:12 0/1:23,4:34 G	T				
					0	0	SOMGT:/0:15 0/1:11,6:37 T	C				
					0		SOMGT:/0:17 0/1:26,14:3 G	T				
		0	0	0.0	0.647	0.998	1,D	3.26	0	0.1	SOMGT:/0:22 0/1:44,4:37 G	C
								0.2	0.3	SOMGT:/0:12 0/1:12,4:30 A	C	
								0.1	0.2	DB;SOMGT:/0:32 0/1:74,9:35 C	A	
								0		SOMGT:/0:33 0/1:30,13:3 A	G	
								0		SOMGT:/0:8,(0/1:22,5:13 G	C	
		0	0	0.1	0.016	0.239	1,N	0.1	0.1	SOMGT:/0:10 0/1:27,4:37 C	T	
								0	0.1	SOMGT:/0:19 0/1:23,5:37 C	G	
								0		SOMGT:/0:8,(0/1:11,5:11A	T	
								0		DB;SOMGT:/0:23 0/1:36,8:30 C	A	
		0	0					1.95		SOMGT:/0:42 0/1:42,6:35 G	A	
								0.1	0	SOMGT:/0:37 0/1:74,11:3 G	A	
								0.2	0	SOMGT:/0:36 0/1:59,12:3 A	G	
		0	0					0.1	0.4	DB;SOMGT:/0:26 0/1:33,6:37 A	T	
0.042								0.1	0	SOMGT:/0:14 0/1:28,4:37 G	C	
										SOMGT:/0/1:0:48,0::41 G	A	
										SOMGT:/0/1:0:58,0::58 A	G	
								3.5		SOMGT:/0/1:0:9,0::9:0: C	A	
		0.0	0.993	1.0	D	0.99	4.8	3.80		SOMGT:/0/1:0:47,0::47 C	T	
								0		SOMGT:/0/1:0:25,0::25 C	T	
								0		SOMGT:/0/1:0:25,0::25 G	T	
								5.9	3.35	SOMGT:/0/1:0:8,0::8:0: T	G	

						0.1	0.2	DB;S	GT:/0/1:/0:20,0::20	T	C							
						0.1	0.3	SOM	GT:/0/1:/0:21,0::21	G	A							
						0.1	0.1	SOM	GT:/0/1:/0:18,0::16	G	A							
							0	SOM	GT:/0/1:/0:33,1::26	T	C							
						0	0	SOM	GT:/0/1:/0:38,1::29	G	C							
						1.23	0.1	0.2	SOM	GT:/0/1:/0:17,0::11	A	G						
							0	0.2	SOM	GT:/0/1:/0:12,0::6	C	A						
						1.0	0.023	0.004	1.00	3.2	1.46				SOM	GT:/0/1:/0:34,1::35	C	G
															SOM	GT:/0/1:/0:17,0::17	C	G
						0.1	0.998	0.998	1,D	5.8	4.66				SOM	GT:/0/1:/0:22,0::23	C	T
										5.4					SOM	GT:/0/1:/0:28,0::28	G	A
										0	0				SOM	GT:/0/1:/0:22,0::22	C	T
															SOM	GT:/0/1:/0:50,1::37	G	C
															SOM	GT:/0/1:/0:98,0::98	G	T
4E-04	##	0	0							0					SOM	GT:/0/1:/0:28,0::28	G	A
						0.2	0.001	0.001	0.99	4.8	1.44				SOM	GT:/0/1:/0:136,0::1	A	C
						##	0	0.0	0.07	0.298	0.92	4.9	2.12		SOM	GT:/0/1:/0:215,0::2	G	A
						##	0	0.2	0.001	0.001	1,N				SOM	GT:/0/1:/0:50,0::50	C	T
						0	0					2.7			DB;S	GT:/0/1:/0:29,0::29	A	G
															SOM	GT:/0/1:/0:12,0::12	C	G
										5.6	1.28				SOM	GT:/0/1:/0:100,1::1	G	A
						0.4	0.848	0.991	1.00	2.5	2.33				SOM	GT:/0/1:/0:58,1::59	G	A
										2.8					SOM	GT:/0/1:/0:12,0::12	T	G
															SOM	GT:/0/1:/0:11,0::11	C	G
2E-04															SOM	GT:/0/1:/0:20,0::20	T	C
4E-04	##	0				0.99	1	1.0,D	1,D	5.7	4.68				SOM	GT:/0/1:/0:43,1::45	G	A
										0	0				SOM	GT:/0/1:/0:8,0::8	O	A
0.477										0.1	0.4				SOM	GT:/0/1:/0:15,0::9	C	T
						1.0	0.002	0.001	1,N						SOM	GT:/0/1:/0:11,0::11	C	T
															SOM	GT:/0/1:/0:116,0::1	G	C
															SOM	GT:/0/1:/0:42,0::42	G	A
										2.48					SOM	GT:/0/1:/0:132,0::1	C	T
															SOM	GT:/0/1:/0:35,0::35	T	G
															SOM	GT:/0/1:/0:30,0::30	C	T
															SOM	GT:/0/1:/0:46,0::46	G	A
										2.4	1.48				SOM	GT:/0/1:/0:68,0::68	G	A
						0.0	0.986	0.996	1.00						SOM	GT:/0/1:/0:293,1::2	C	A
										3.9					SOM	GT:/0/1:/0:48,0::48	G	C
															SOM	GT:/0/1:/0:86,1::87	C	T
										2.7	1.88				SOM	GT:/0/1:/0:85,0::85	C	T
										5.3	4.40				SOM	GT:/0/1:/0:24,0::24	A	G
															SOM	GT:/0/1:/0:88,0::75	A	T
															SOM	GT:/0/1:/0:108,0::1	G	T
															SOM	GT:/0/1:/0:42,0::42	G	A
										0	0				SOM	GT:/0/1:/0:18,0::9	C	T
										1.59					SOM	GT:/0/1:/0:31,0::31	C	G
										0.1	0				SOM	GT:/0/1:/0:16,0::16	G	A
										0.1	0				SOM	GT:/0/1:/0:13,0::13	G	A
						0.0	0.477	0.988	1.00		3.03				SOM	GT:/0/1:/0:59,1::60	G	A
										3.7					SOM	GT:/0/1:/0:152,1::1	G	A
										1.91					SOM	GT:/0/1:/0:17,0::17	G	A
															SOM	GT:/0/1:/0:10,0::10	A	G
															SOM	GT:/0/1:/0:50,0::50	T	G
										2.9					SOM	GT:/0/1:/0:39,0::39	G	C

					2.2			SOMGT:/0/1:0:40,0::40 C	G	
								SOMGT:/0/1:0:13,0::13 T	C	
	##	0						SOMGT:/0/1:0:38,1::39 G	A	
2E-04							0	SOMGT:/0/1:0:150,0::1 C	T	
								SOMGT:/0/1:0:40,1::41 A	T	
					1,A	6 7.18		SOMGT:/0/1:0:21,0::21 G	T	
				0.5	0.0010.002	1,N	2.9	SOMGT:/0/1:0:83,0::83 C	T	
8E-04	0	0	0					SOMGT:/0/1:0:86,0::86 G	A	
								SOMGT:/0/1:0:23,0::23 G	C	
				0.0	0.972	1,0,D	0.96 5.7 3.84	SOMGT:/0/1:0:77,1::78 G	A	
								SOMGT:/0/1:0:17,0::17 G	A	
	##	0						SOMGT:/0/1:0:126,1::1 C	T	
	##	0				2.1		SOMGT:/0/1:0:161,0::1 G	A	
								SOMGT:/0/1:0:18,0::18 C	G	
								SOMGT:/0/1:0:119,1::1 C	T	
								SOMGT:/0/1:0:33,0::33 G	A	
				0.0		1,N		SOMGT:/0/1:0:150,1::1 G	A	
				0.9	0.019	0.053	1,N	1.98	SOMGT:/0/1:0:28,0::28 G	C
								SOMGT:/0/1:0:15,0::15 T	C	
							0	DB;SOMGT:/0/1:0:19,0::23 G	T	
								SOMGT:/0/1:0:102,1::1 G	T	
								SOMGT:/0/1:0:56,0::56 G	A	
								SOMGT:/0/1:0:30,0::30 G	A	
	##	0						SOMGT:/0/1:0:13,0::13 G	A	
				0.0	0.999	0.999	1,D	4.7 4.37	SOMGT:/0/1:0:42,0::42 G	A
								SOMGT:/0/1:0:57,1::58 A	T	
								SOMGT:/0/1:0:20,0::20 A	T	
2E-04	##	0				1,A	4.1 26.1	SOMGT:/0/1:0:15,0::15 G	A	
							0 0	SOMGT:/0/1:0:34,1::27 G	T	
				0.1	0.817	0.975	1,D	5.5 5.27	SOMGT:/0/1:0:24,0::24 C	T
							1.25	SOMGT:/0/1:0:65,0::65 C	T	
								SOMGT:/0/1:0:17,0::17 C	G	
	##	0	1.0	0.006	0.015	1,D	3.8	SOMGT:/0/1:0:39,0::39 C	T	
							1.47	SOMGT:/0/1:0:22,0::22 G	A	
							0.1 0	DB;SOMGT:/0/1:0:41,0::41 A	G	
								SOMGT:/0/1:0:10,0::10 C	G	
								SOMGT:/0/1:0:11,0::11 C	T	
								SOMGT:/0/1:0:8,0::9 C	T	
								SOMGT:/0/1:0:91,0::91 C	T	
				0.0	0.548	0.948	1,N	4.3 2.60	SOMGT:/0/1:0:14,0::14 C	A
							1,D	4.2 3.22	SOMGT:/0/1:0:119,0::1 G	A
								SOMGT:/0/1:0:31,0::31 G	A	
	##	0	0.0	0.083	0.507	1.00	3.78	SOMGT:/0/1:0:47,0::47 G	A	
								SOMGT:/0/1:0:63,0::63 G	C	
				0.1	0.0	0.0	B 0,B 1,N		SOMGT:/0/1:0:46,0::46 G	A
				0.7	0.002	0.0	B 0.71	4.8	SOMGT:/0/1:0:243,1::2 G	A
							3	SOMGT:/0/1:0:434,0::4 C	A	
							0	DB;SOMGT:/0/1:0:19,0::14 C	T	
							0 0	DB;SOMGT:/0/1:0:22,0::20 T	A	
							0.1 0	DB;SOMGT:/0/1:0:35,1::34 T	G	
							0	DB;SOMGT:/0/1:0:36,1::34 T	G	
								SOMGT:/0/1:0:20,0::20 C	A	
				0.4	0.002	0.001	1,N		SOMGT:/0/1:0:228,1::2 T	C
								SOMGT:/0/1:0:139,0::1 G	C	



		0.8	0.05		0.04	1,D	5.8	1.77		SOMGT:/0/1:0:25,0:..25 C	G			
										SOMGT:/0/1:0:40,0:..40 G	A			
	##	##	0.0		0.42	0.80	1,D	2.66		SOMGT:/0/1:0:201,1:..2 G	T			
							2.9			SOMGT:/0/1:0:15,0:..15 C	G			
										SOMGT:/0/1:0:9,0:..9:0:A	T			
			0.0		0.04	0.02	1,D	5.3	4.86	SOMGT:/0/1:0:171,1:..1 C	T			
	##	##	0				1.52	0		SOMGT:/0/1:0:158,0:..1 C	T			
							1.30			SOMGT:/0/1:0:11,0:..11 G	A			
			1.0		0.08		0.35	1,D	5.9	2.88	SOMGT:/0/1:0:29,0:..29 G	A		
										SOMGT:/0/1:0:66,1:..67 C	T			
										SOMGT:/0/1:0:24,0:..24 G	C			
	##	0	0.1		0.0		0.0	B	1,N	SOMGT:/0/1:0:30,0:..31 C	T			
			0.0		0.04	0.66	1,0.97	4.4	2.60	SOMGT:/0/1:0:184,0:..1 G	A			
			0.0		0.77	0.99	1,N	3.3	2.81	SOMGT:/0/1:0:49,0:..49 C	T			
										SOMGT:/0/1:0:8,0:..8:0 G	T			
										SOMGT:/0/1:0:9,0:..9:0 T	G			
							0.1	0.4		SOMGT:/0/1:0:26,0:..18 C	A			
							0	0.1		SOMGT:/0/1:0:24,0:..16 C	T			
										SOMGT:/0/1:0:86,1:..88 C	T			
										SOMGT:/0/1:0:22,0:..22 C	G			
	0	0								SOMGT:/0/1:0:55,0:..52 T	G			
										SOMGT:/0/1:0:83,0:..83 G	T			
							0.1	0.1		SOMGT:/0/1:0:33,1:..33 G	C			
	0	0	0.6		0.002	0.014	0.64	4.5		SOMGT:/0/1:0:41,0:..41 G	A			
										SOMGT:/0/1:0:178,1:..1 T	A			
0.144	0	0					0.1	0.1		SOMGT:/0/1:0:8,0:..8:0 A	G			
										SOMGT:/0/1:0:31,0:..31 C	T			
							0			SOMGT:/0/1:0:14,0:..14 A	G			
			0.0		0.73	0.98	1,D	5.7	4.01	SOMGT:/0/1:0:58,0:..58 G	A			
							0	0		SOMGT:/0/1:0:26,0:..26 T	C			
			0.0		0.91	0.99	1,D	4.6	1.92	SOMGT:/0/1:0:93,0:..93 C	A			
			0.0		0.93	0.99	1,D	5.4	4.16	SOMGT:/0/1:0:15,0:..15 A	G			
							0	0		SOMGT:/0/1:0:21,0:..21 T	C			
							0	0.1		SOMGT:/0/1:0:17,0:..17 C	G			
	0	0					0	0.1	DB;	SOMGT:/0/1:0:60,1:..60 T	G			
	0	0					1.48			SOMGT:/0/1:0:51,0:..38 C	G			
							0	0		SOMGT:/0/1:0:26,0:..21 T	A			
										SOMGT:/0/1:0:47,0:..47 C	T			
							0			SOMGT:/0/1:0:44,0:..44 C	T			
										SOMGT:/0/1:0:17,0:..17 C	G			
	##	##	0		0.4		0.005	0.002	1,N	SOMGT:/0/1:0:87,0:..88 T	C			
			0.0		0.99	0.99	0.98	5.5	4.27	SOMGT:/0/1:0:42,0:..42 C	A			
	##	0	0.0		0.98		1.0	D	0.98	5.6	5.56	SOMGT:/0/1:0:80,0:..80 C	T	
										SOMGT:/0/1:0:39,0:..39 G	T			
			0.0		0.03	1,0.034	1,D	5.3	3.35	SOMGT:/0/1:0:168,0:..1 T	C			
							0.1	0.1		SOMGT:/0/1:0:42,1:..38 A	G			
										SOMGT:/0/1:0:13,0:..13 C	G			
	0	0	0.1		0.02		0.10	0.88	4.6	3.30	0	0	SOMGT:/0/1:0:10,0:..10 C	T
										SOMGT:/0/1:0:22,0:..22 C	G			
										SOMGT:/0/1:0:10,0:..10 G	A			
			0.0		0.58		0.89	0.99	4.8	2.62			SOMGT:/0/1:0:191,0:..1 C	A
										SOMGT:/0/1:0:15,0:..15 G	T			
	0	##	0				3.4			SOMGT:/0/1:0:48,0:..48 G	A			
										SOMGT:/0/1:0:38,0:..39 T	C			

					0.2	0.2	DB;GT:/0/1:0:19,0::19	C	T								
					4.3	2.02	SOMGT:/0/1:0:47,0::47	T	C								
					0.6	0.0010.0241,N	SOMGT:/0/1:0:59,0::60	G	A								
					1,A	5.6	8.61	SOMGT:/0/1:0:59,0::59	C	T							
							SOMGT:/0/1:0:28,0::28	C	A								
							SOMGT:/0/1:0:45,0::45	C	T								
							0.1	0	SOMGT:/0/1:0:11,0::8	C	A						
							0		SOMGT:/0/1:0:8,0::3	C	A						
							3.9	4.59	SOMGT:/0/1:0:108,0::1	C	T						
							0.0	0.998	1.0,D	1.00	4.03	SOMGT:/0/1:0:31,0::31	C	A			
					##	0				0	SOMGT:/0/1:0:60,1::61	C	T				
											SOMGT:/0/1:0:24,0::24	A	T				
											SOMGT:/0/1:0:18,0::19	G	A				
											SOMGT:/0/1:0:105,0::1	C	G				
											SOMGT:/0/1:0:29,0::30	G	A				
											SOMGT:/0/1:0:68,1::69	G	A				
											SOMGT:/0/1:0:71,0::72	G	A				
											SOMGT:/0/1:0:18,0::18	C	G				
											SOMGT:/0/1:0:82,0::82	G	C				
											SOMGT:/0/1:0:92,0::92	G	T				
											SOMGT:/0/1:0:54,0::56	G	C				
											SOMGT:/0/1:0:35,0::35	G	A				
											SOMGT:/0/1:0:40,0::40	C	A				
											SOMGT:/0/1:0:43,0::43	T	C				
											SOMGT:/0/1:0:21,0::21	C	T				
											SOMGT:/0/1:0:89,0::90	C	T				
											SOMGT:/0/1:0:35,0::35	T	C				
					##	0					SOMGT:/0/1:0:40,0::40	C	T				
											SOMGT:/0/1:0:98,0::98	A	G				
											SOMGT:/0/1:0:16,0::16	G	A				
											SOMGT:/0/1:0:88,0::88	C	G				
											SOMGT:/0/1:0:165,0::1	C	T				
											SOMGT:/0/1:0:144,0::1	G	C				
											SOMGT:/0/1:0:122,0::1	C	A				
											SOMGT:/0/1:0:48,0::48	C	A				
											0.1	0.1	DB;GT:/0/1:0:24,0::24	A	G		
													SOMGT:/0/1:0:24,0::24	G	T		
													SOMGT:/0/1:0:120,0::1	T	G		
													0.2	0.3	SOMGT:/0/1:0:8,0::8	C	A
															SOMGT:/0/1:0:79,0::79	G	T
															SOMGT:/0/1:0:24,0::24	C	G
															SOMGT:/0/1:0:31,0::31	C	A
															SOMGT:/0/1:0:80,0::80	G	C
															SOMGT:/0/1:0:25,0::25	G	A
															SOMGT:/0/1:0:48,0::43	G	T
															SOMGT:/0/1:0:110,0::1	G	C
															SOMGT:/0/1:0:10,0::10	T	C
															SOMGT:/0/1:0:15,0::14	G	A
															SOMGT:/0/1:0:16,0::16	T	C
															SOMGT:/0/1:0:83,0::83	G	A
					##	0									SOMGT:/0/1:0:128,0::1	G	A
					##	0	0.0	0.998	1.0,D	1,D	5	4.32			SOMGT:/0/1:0:65,0::65	T	A
															SOMGT:/0/1:0:151,0::1	T	G
															SOMGT:/0/1:0:21,0::21	C	T

						0.	SOMGT:/0/1:0:29,0::29 T	G	
							SOMGT:/0/1:0:100,0::1 G	C	
							SOMGT:/0/1:0:52,0::52 C	G	
							SOMGT:/0/1:0:37,0::37 G	A	
							SOMGT:/0/1:0:27,0::27 A	G	
							SOMGT:/0/1:0:29,0::29 G	A	
							SOMGT:/0/1:0:11,0::11 G	C	
		0.0	0.422	0.938	1,D	2.9 1.62	SOMGT:/0/1:0:94,0::94 A	G	
						0 0	DB;SOMGT:/0/1:0:33,1::35 G	A	
		0.0	1.0	D	1.0	D	5.4 4.70	SOMGT:/0/1:0:27,0::27 C	A
		0.0	0.776	0.97	1,0.99	5.9 3.43	SOMGT:/0/1:0:52,0::52 C	T	
						0.2 0	SOMGT:/0/1:0:28,0::28 T	C	
						3.1 4.26	SOMGT:/0/1:0:65,0::65 G	A	
0.243						0 0	SOMGT:/0/1:0:23,0::24 T	G	
5E-04							SOMGT:/0/1:0:12,0::12 G	C	
		0.1	0.483	0.919	1.00	5.7 2.46	SOMGT:/0/1:0:47,0::47 T	A	
		0.0	0.992	1.0	D	1.00 2.3 1.66	SOMGT:/0/1:0:45,0::45 C	T	
		0.0	0.868	0.993	1.00	5.8 2.89	SOMGT:/0/1:0:48,0::48 C	A	
		0.0	0.991	1.0	D	1,D 4.5 4.02	SOMGT:/0/1:0:40,0::40 G	A	
							SOMGT:/0/1:0:60,0::60 G	A	
							SOMGT:/0/1:0:56,0::57 T	C	
						0.	SOMGT:/0/1:0:11,0::9 C	A	
						0 0	SOMGT:/0/1:0:10,0::10 G	A	
						0.1 0.4	SOMGT:/0/1:0:31,0::22 G	A	
						0.5 0.5	DB;SOMGT:/0/1:0:24,0::24 T	A	
						0	SOMGT:/0/1:0:16,0::14 T	A	
						0.	SOMGT:/0/1:0:37,1::25 C	A	
						1.25 0 0	SOMGT:/0/1:0:10,0::10 G	C	
						1.90 0.1 0	DB;SOMGT:/0/1:0:37,1::38 C	T	
						0.	SOMGT:/0/1:0:8,0::8 C	T	
							SOMGT:/0/1:0:8,0::8 C	A	
							SOMGT:/0/1:0:8,0::8 C	G	
						0 0.4	SOMGT:/0/1:0:9,0::8 C	A	
							SOMGT:/0/1:0:29,0::29 G	T	
							SOMGT:/0/1:0:8,0::8 C	A	
0.468						0.2 0.6	SOMGT:/0/1:0:9,0::9 C	T	
						0 0	SOMGT:/0/1:0:33,0::33 T	C	
						0 0	DB;SOMGT:/0/1:0:25,0::25 T	C	
						2.1 0.1	0 SOMGT:/0/1:0:44,1::45 T	C	
						0.	SOMGT:/0/1:0:10,0::10 G	C	
						0.	SOMGT:/0/1:0:12,0::12 T	A	
						0.	SOMGT:/0/1:0:10,0::10 G	A	
						0 0	DB;SOMGT:/0/1:0:25,0::26 A	G	
							SOMGT:/0/1:0:36,1::37 T	G	
							SOMGT:/0/1:0:10,0::11 T	A	
0.134						0.2 0.2	SOMGT:/0/1:0:8,0::8 C	G	
						0.1 0.3	SOMGT:/0/1:0:10,0::9 C	C	
						0 0	SOMGT:/0/1:0:22,0::20 C	T	
						0 0	SOMGT:/0/1:0:37,1::26 G	A	
						0.	SOMGT:/0/1:0:9,0::9 C	T	
						0 0.1	DB;SOMGT:/0/1:0:26,0::26 G	T	
						0.	DB;SOMGT:/0/1:0:40,0::40 A	T	
						0 0	DB;SOMGT:/0/1:0:19,0::17 G	A	
						0 0	SOMGT:/0/1:0:12,0::12 G	T	

								0	0	SOMGT:/0/1:0:22,0:..:21 C	A
0.268									0	SOMGT:/0/1:0:131,1:..:7 C	A
										SOMGT:/0:87 0/1:106,27 T	G
0.444								0.2	0.5	DB;SOMGT:/0:22 0/1:23,4:37 G	C
										SOMGT:/0:16 0/1:28,7:17 G	T
								0.1	0.4	SOMGT:/0:12 0/1:17,5:37 C	G
									0	0 SOMGT:/0:13 0/1:25,4:37 C	G
									0	SOMGT:/0:22 0/1:59,7:3E G	T
								0.2	0.5	SOMGT:/0:14 0/1:29,17:3 C	A
									0	0 SOMGT:/0:11 0/1:25,5:34 G	T
										SOMGT:/0:37 0/1:36,6:37 T	G
										SOMGT:/0:8,(0/1:34,6:37 G	T
									0	0.1 SOMGT:/0:18 0/1:40,8:21 C	T
										SOMGT:/0:13 0/1:20,8:14 G	T
0.011								0.1	0	SOMGT:/0:15 0/1:29,24:3 C	T
								0.1	0.4	SOMGT:/0:8,(0/1:11,8:3E A	G
										SOMGT:/0:9,(0/1:26,4:37 T	C
								0.1	0.3	SOMGT:/0:18 0/1:16,5:34 G	A
										SOMGT:/0:10 0/1:30,6:37 T	A
										SOMGT:/0:13 0/1:39,5:2E C	A
										SOMGT:/0:20 0/1:25,4:37 C	T
0.336								0.1	0.3	DB;SOMGT:/0:51 0/1:125,17 C	G
								0.1	0.1	SOMGT:/0:12 0/1:11,7:3E G	C
									0	SOMGT:/0:41 0/1:117,18 C	G
									0	SOMGT:/0:46 0/1:117,17 T	A
			0.0:0.173	0.763	1.00	5.2	2.74		0	SOMGT:/0:58 0/1:134,13 T	G
									0	SOMGT:/0:8,(0/1:9,5:37: G	T
									0	0 SOMGT:/0:8,(0/1:5,6:37: C	T
									0	0.1 SOMGT:/0:8,(0/1:9,5:37: C	A
						2.7				SOMGT:/0:15 0/1:57,7:2C A	C
							1.80			SOMGT:/0:12 0/1:44,6:37 T	C
									0	0 SOMGT:/0:35 0/1:72,9:37 T	G
									0	0.1 SOMGT:/0:17 0/1:35,4:34 C	T
										SOMGT:/0:11 0/1:34,4:3C A	T
									0	0.1 SOMGT:/0:10 0/1:20,7:3E G	A
									0	0.1 SOMGT:/0:14 0/1:43,4:37 C	T
									0	SOMGT:/0:16 0/1:34,6:37 G	A
									0	SOMGT:/0:12 0/1:19,36:3 T	C
									0	0 SOMGT:/0:13 0/1:7,4:37: C	T
0.49									0	0.2 DB;SOMGT:/0:37 0/1:72,8:37 G	A
									0	0 SOMGT:/0:18 0/1:17,8:3E G	A
									0	0.1 DB;SOMGT:/0:20 0/1:84,10:3 G	T
									0	0.1 DB;SOMGT:/0:34 0/1:55,9:3E T	C
						2.2			0	0.1 DB;SOMGT:/0:40 0/1:70,10:3 C	T
										SOMGT:/0:16 0/1:44,4:3C G	C
										SOMGT:/0:11 0/1:38,4:37 C	A
										SOMGT:/0:12 0/1:8,4:37: A	G
									0	0 SOMGT:/0:9,(0/1:13,6:3E G	T
										SOMGT:/0:44 0/1:143,17 A	T
0.458								0.1	0.3	DB;SOMGT:/0:40 0/1:118,13 C	T
										SOMGT:/0:9,(0/1:23,4:37 C	A
										SOMGT:/0/1:0:104,0:..:1 C	T
									2.3	SOMGT:/0/1:0:47,0:..:44 C	T
									2.9	SOMGT:/0/1:0:33,0:..:34 G	C

						2.6				SOMGT:/0/1:0:11,0::11	G	C	
						2.3				SOMGT:/0/1:0:108,0::1	C	T	
		0.0			0.99	3.2	2.83			SOMGT:/0/1:0:85,0::85	G	A	
						2.1	1.40			SOMGT:/0/1:0:139,0::1	G	T	
										SOMGT:/0/1:0:12,0::12	C	T	
					1,A	5.3	7.23			SOMGT:/0/1:0:30,0::30	C	T	
0.015								0	0	SOMGT:/0/1:0:8,0::8	T	C	
									0	SOMGT:/0/1:0:11,0::11	G	A	
								0.1	0.4	SOMGT:/0/1:0:13,0::12	C	T	
								0	0	SOMGT:/0/1:0:9,0::9	G	C	
								0		SOMGT:/0/1:0:20,0::19	A	T	
									0	SOMGT:/0/1:0:57,1::43	G	A	
										SOMGT:/0/1:0:17,0::17	A	C	
								0	0.1	SOMGT:/0/1:0:16,0::16	T	G	
		0.0	0.912	0.99	0.96	4.3	3.06	0		SOMGT:/0/1:0:384,0::3	C	T	
						5.4	1.82			SOMGT:/0/1:0:105,0::1	G	C	
										SOMGT:/0/1:0:108,0::1	G	A	
										SOMGT:/0/1:0:106,0::1	A	G	
										SOMGT:/0/1:0:102,0::1	C	T	
										SOMGT:/0/1:0:30,0::30	G	T	
						3				SOMGT:/0/1:0:47,0::47	G	C	
		##	0	0.4	0.17	0.79	1,D	5.4	3.42	SOMGT:/0/1:0:143,0::1	G	A	
						2.3				SOMGT:/0/1:0:17,0::17	C	T	
										SOMGT:/0/1:0:110,0::1	G	C	
			0.1	0.49	0.89	1,N	3.3	1.89		SOMGT:/0/1:0:145,0::1	C	T	
		##	0					1.59		SOMGT:/0/1:0:120,0::1	C	T	
		##	0							SOMGT:/0/1:0:17,0::17	G	A	
								0.1	0	SOMGT:/0/1:0:14,0::14	A	G	
		##	0	0.0	0.65	0.91	0.97	4.9	3.84	SOMGT:/0/1:0:23,0::23	C	G	
										SOMGT:/0/1:0:155,0::1	A	G	
0.001	0	0	0	0.2	0.18	0.79	1.94	3.4		DB;SOMGT:/0/1:0:109,0::1	G	A	
										SOMGT:/0/1:0:14,0::14	C	T	
						1,D	2.9	6.40		SOMGT:/0/1:0:67,0::67	G	A	
						1,D	5.1	4.27		SOMGT:/0/1:0:55,0::55	G	C	
			0.0	0.81	0.91	1.00	4.4	4.65		SOMGT:/0/1:0:148,0::1	C	T	
										SOMGT:/0/1:0:125,0::1	T	C	
										SOMGT:/0/1:0:23,0::23	C	T	
			0.0	0.17	0.69	1.00	5.1	2.94	0	SOMGT:/0/1:0:311,1::3	G	A	
			0.0	0.02	0.00	0.85	3.7	2.36		SOMGT:/0/1:0:106,1::1	G	A	
										SOMGT:/0/1:0:21,0::21	G	A	
			0.0	0.26	0.89	1.075	4.5	3.26		SOMGT:/0/1:0:141,1::1	C	G	
							2.6	2.09		SOMGT:/0/1:0:17,0::17	C	G	
		##	0							SOMGT:/0/1:0:26,0::26	T	C	
			0.0	0.61	0.91	1,D	5.1	3.61		SOMGT:/0/1:0:25,0::25	A	T	
										SOMGT:/0/1:0:61,0::61	G	A	
2E-04	0	0					4.6	2.69		SOMGT:/0/1:0:161,0::1	T	G	
	0	##	0	0.0	0.88	1.99	1,N	3.2	1.45	SOMGT:/0/1:0:310,1::3	C	T	
		##	0				2.4			SOMGT:/0/1:0:185,0::1	G	A	
		##	0						0	SOMGT:/0/1:0:59,0::59	G	A	
										SOMGT:/0/1:0:8,0::7	T	G	
										SOMGT:/0/1:0:17,0::17	C	T	
2E-04	##	0					2.9	2.55		SOMGT:/0/1:0:109,0::1	G	A	
2E-04	##	##	0	0.1	0.04	1.06	4.075	4.1	2.41	SOMGT:/0/1:0:28,0::28	G	A	
6E-04	0	0							0	0	SOMGT:/0/1:0:29,0::29	G	A

	##	0							SOMGT:/0/1:0:27,0::27 G	A
	##	0	0.1:0.557	0.853	0.98	2.8	3.03	0	SOMGT:/0/1:0:178,0::1 G	A
2E-04									SOMGT:/0/1:0:10,0::10 C	T
			0.0:0.999	1.0,D	1,D	5.2	5.53		SOMGT:/0/1:0:25,0::25 G	A
								0 0	SOMGT:/0/1:0:10,0::10 A	T
									SOMGT:/0/1:0:24,0::25 C	T
	0	0				3.4	1.86	0 0	SOMGT:/0/1:0:10,0::10 C	G
							2.44		SOMGT:/0/1:0:41,0::41 T	C
	##	0	0.0:0.002	0.012	0.99		3.22		SOMGT:/0/1:0:32,0::32 G	A
									SOMGT:/0/1:0:90,0::90 G	C
									SOMGT:/0/1:0:97,0::97 G	A
			0.6:0.999	1.0,D	1,D	4.7	4.05		SOMGT:/0/1:0:141,1::1 C	G
0.001	0	0	0.1:0.277	0.881	0.88	4.4	3.43		SOMGT:/0/1:0:109,0::1 G	A
						3.9	1.92		SOMGT:/0/1:0:21,0::21 T	C
							2.06		SOMGT:/0/1:0:29,0::29 G	T
								0.1 0.1	SOMGT:/0/1:0:8,0::8 C	G
									SOMGT:/0/1:0:120,0::1 C	A
									SOMGT:/0/1:0:88,0::88 A	C
						2.69			SOMGT:/0/1:0:21,0::21 C	T
						4.15			SOMGT:/0/1:0:30,0::30 C	T
	##	0	0.0:0.541	0.948	1,N	2.41			SOMGT:/0/1:0:55,1::56 C	T
2E-04	##	0							SOMGT:/0/1:0:15,0::15 C	T
									SOMGT:/0/1:0:41,0::41 C	T
									SOMGT:/0/1:0:9,0::9 C	C
								0 0	SOMGT:/0/1:0:53,1::53 A	G
								0 0	SOMGT:/0/1:0:50,1::50 G	A
									SOMGT:/0/1:0:23,0::24 T	C
2E-04	##	0				1.00			SOMGT:/0/1:0:84,0::84 C	T
	0	0				3.8			SOMGT:/0/1:0:66,0::66 C	T
	##	0							SOMGT:/0/1:0:149,0::1 G	A
									SOMGT:/0/1:0:13,0::13 T	G
								0 0	SOMGT:/0/1:0:14,0::14 T	G
			0.0,0.0,B	0.0,B	1,N				SOMGT:/0/1:0:56,0::56 G	C
1E-03	0	0	0					0 0	SOMGT:/0/1:0:162,0::1 G	A
									SOMGT:/0/1:0:27,0::27 G	T
0.348								0.1 0.2	DB;SOMGT:/0/1:0:19,0::19 C	G
								0	SOMGT:/0/1:0:9,0::9 C	C
	##					1.49		0	SOMGT:/0/1:0:126,0::1 G	A
	##	0							SOMGT:/0/1:0:165,1::1 G	A
						2.4			SOMGT:/0/1:0:164,0::1 G	A
						4	3.19		SOMGT:/0/1:0:38,0::38 C	T
	##	##	0	0.0:0.942	1.0,D	1.00	4.6	1.33	SOMGT:/0/1:0:38,0::38 G	A
									SOMGT:/0/1:0:95,1::96 C	A
0.086								0 0.1	SOMGT:/0/1:0:11,0::10 A	G
									SOMGT:/0/1:0:83,0::35 A	G
	0	0						0 0	SOMGT:/0/1:0:40,1::39 G	C
						2.3			SOMGT:/0/1:0:60,1::61 C	G
									SOMGT:/0/1:0:25,0::25 G	A
									SOMGT:/0/1:0:30,0::30 G	C
									SOMGT:/0/1:0:110,0::1 G	A
						1,A	4.6	8.20	SOMGT:/0/1:0:70,0::70 C	T
			0.1:0.007	0.02,1	1,N				SOMGT:/0/1:0:37,0::37 A	G
									SOMGT:/0/1:0:112,1::1 C	T
								0 0	SOMGT:/0/1:0:16,0::15 A	G

								0.	SOMGT:/0/1:0:36,0:..:37 G	A
								0.1 0.3	SOMGT:/0/1:0:8,0:..:7:0. G	T
								0 0.1	SOMGT:/0/1:0:9,0:..:9:0. T	A
								0.	SOMGT:/0/1:0:54,0:..:53 A	T
								0.2 0.2	SOMGT:/0/1:0:9,0:..:8:0. G	T
		0	0.					0.2 0.4	DB;SOMGT:/0/1:0:39,1:..:40 G	A
									SOMGT:/0/1:0:40,1:..:34 C	T
									SOMGT:/0/1:0:49,0:..:49 G	T
2E-04	##	0.							SOMGT:/0/1:0:50,0:..:51 G	A
								3.7 1.32.	SOMGT:/0/1:0:21,0:..:21 G	A
2E-04	##	0.						3.4 2.15 0 0	SOMGT:/0/1:0:110,1:..:1 C	T
	##	0	0.0,1.0,D	1.0,D	1.00	3.1	4.05	0.	SOMGT:/0/1:0:199,1:..:2 C	T
			0.0	0.99	0.99	0.99	4.6	3.60.	SOMGT:/0/1:0:274,0:..:2 G	C
								0 0	SOMGT:/0/1:0:15,0:..:13 T	C
								3.3.	SOMGT:/0/1:0:38,0:..:38 A	G
	##	##	0	0.0	0.12,0.08	0.58	2.62.		SOMGT:/0/1:0:58,0:..:58 G	A
		0	0	0.4	0.002	0.002	1,N	0.	SOMGT:/0/1:0:34,0:..:36 C	T
2E-04	0	0	0.					2.2.	SOMGT:/0/1:0:84,0:..:84 C	T
	0	0	0	0.6	0.003	0.003	1,N	2.04.	SOMGT:/0/1:0:80,0:..:80 G	A
							1,D	4.1 9.70.	SOMGT:/0/1:0:148,0:..:1 C	T
									SOMGT:/0/1:0:47,0:..:47 T	G
									SOMGT:/0/1:0:69,1:..:70 T	C
									SOMGT:/0/1:0:55,0:..:55 G	A
									SOMGT:/0/1:0:47,0:..:48 G	A
								0.2 0.2	DB;SOMGT:/0/1:0:26,0:..:23 A	T
								0 0	SOMGT:/0/1:0:9,0:..:9:0. T	C
									SOMGT:/0/1:0:25,0:..:25 G	A
	##	0.							SOMGT:/0/1:0:92,0:..:93 C	T
									SOMGT:/0/1:0:28,0:..:28 C	T
								2.2 1.64.	SOMGT:/0/1:0:16,0:..:16 C	A
			0.2	0.002	0.005	0.99	4.3	1.98.	SOMGT:/0/1:0:130,1:..:1 G	A
								2.7.	SOMGT:/0/1:0:59,0:..:59 G	A
2E-04	##	0.						0.	SOMGT:/0/1:0:55,0:..:55 G	A
2E-04								2.3.	0. SOMGT:/0/1:0:21,0:..:21 A	T
									SOMGT:/0/1:0:146,1:..:1 C	T
									SOMGT:/0/1:0:47,0:..:47 C	A
4E-04	0	0	0.						SOMGT:/0/1:0:58,1:..:60 G	A
								0 0.1	SOMGT:/0/1:0:8,0:..:7:0. G	A
4E-04	##	0.						3.53 0.	SOMGT:/0/1:0:43,0:..:43 G	A
0.003								0	SOMGT:/0/1:0:58,1:..:59 A	T
								5.4 1.35.	SOMGT:/0/1:0:153,0:..:1 G	T
	##	##	0.					0.	SOMGT:/0/1:0:25,0:..:25 G	A
									SOMGT:/0/1:0:251,1:..:2 C	T
									SOMGT:/0/1:0:8,0:..:8:0. G	A
			0.0	0.99	1.0,D	1,D	5.8	4.25.	SOMGT:/0/1:0:79,0:..:80 C	T
			0.0	0.99	1.0,D	1,D	5.9	4.98.	SOMGT:/0/1:0:100,1:..:1 G	A
								0.	SOMGT:/0/1:0:56,1:..:57 G	A
								0.1 0.3	DB;SOMGT:/0/1:0:22,0:..:22 T	C
									SOMGT:/0/1:0:11,0:..:11 G	A
									SOMGT:/0/1:0:9,0:..:9:0. C	A
			0.0	0.544	0.9,P	1.00	2.7	3.35.	SOMGT:/0/1:0:85,0:..:85 G	A
								4.9 4.07.	SOMGT:/0/1:0:25,0:..:25 C	T
			0.1	0.2,B	0.59	0.99	2.9	2.50.	SOMGT:/0/1:0:74,1:..:76 C	G
			0.1	0.55	0.831	1,N			SOMGT:/0/1:0:65,0:..:66 T	A

						0	0	SOM GT:/0/1:/0:8,0:..:8:0:G	A
								SOM GT:/0/1:/0:43,0:..:44 G	C
								SOM GT:/0/1:/0:28,0:..:28 G	C
		##	0					SOM GT:/0/1:/0:52,0:..:52 G	A
								SOM GT:/0/1:/0:93,0:..:93 T	A
								SOM GT:/0/1:/0:20,0:..:20 C	A
				0.0,1.0,D	1.0,D	1,D	4.09	SOM GT:/0/1:/0:81,1:..:82 T	G
								SOM GT:/0/1:/0:55,0:..:56 T	C
								SOM GT:/0/1:/0:14,0:..:14 T	C
				0.0(1.0,D	1.0,D	1,D	5 3.25	SOM GT:/0/1:/0:63,0:..:63 G	A
		##	0	0.0(0.361	0.517	1,D	5.7 4.40	0 DB;/GT:/0/1:/0:19,0:..:19 C	T
8E-04	0	0	0					DB;/GT:/0/1:/0:154,0:..:1 G	A
								SOM GT:/0/1:/0:86,1:..:88 T	A
2E-04								SOM GT:/0/1:/0:62,0:..:62 G	A
								SOM GT:/0/1:/0:33,0:..:33 G	A
							1.37	SOM GT:/0/1:/0:47,1:..:48 C	T
							1.50	0 SOM GT:/0/1:/0:36,0:..:36 G	A
								SOM GT:/0/1:/0:31,0:..:31 G	A
				0.1(0.687	0.623	0.88	2.43	SOM GT:/0/1:/0:146,1:..:1 A	G
				0.0(0.67,	0.978	1,D	4.4 3.66	SOM GT:/0/1:/0:110,0:..:1 C	T
0.146								0 0 SOM GT:/0/1:/0:10,0:..:9(C	C
								0 SOM GT:/0/1:/0:41,0:..:34 T	A
								SOM GT:/0/1:/0:13,0:..:13 G	A
							2.3 2.10	SOM GT:/0/1:/0:70,0:..:70 T	C
								SOM GT:/0/1:/0:98,1:..:99 C	A
								0 SOM GT:/0/1:/0:37,1:..:37 A	C
								SOM GT:/0/1:/0:30,0:..:30 C	A
							2.2 1.33	SOM GT:/0/1:/0:40,0:..:40 C	T
								0 SOM GT:/0/1:/0:53,0:..:53 C	T
							3 1.38	SOM GT:/0/1:/0:66,0:..:66 C	A
								SOM GT:/0/1:/0:86,0:..:86 C	G
								SOM GT:/0/1:/0:18,0:..:18 T	A
								SOM GT:/0/1:/0:13,0:..:13 T	C
								SOM GT:/0/1:/0:9,0:..:10(C	T
		##	0	0.7(0.001	0.0,B	0.98		SOM GT:/0/1:/0:103,0:..:1 C	T
				0.0(0.996	1.0,D	1.00	4.9 3.96	SOM GT:/0/1:/0:55,0:..:55 A	T
								SOM GT:/0/1:/0:19,0:..:19 G	A
							1.73	SOM GT:/0/1:/0:75,0:..:75 C	T
								SOM GT:/0/1:/0:72,0:..:72 G	A
								SOM GT:/0/1:/0:29,0:..:29 G	A
		##	0					SOM GT:/0/1:/0:125,1:..:1 G	A
				0.0(0.996	1.0,D	1.00	4 5.08	SOM GT:/0/1:/0:150,1:..:1 G	A
2E-04	0	##	0					SOM GT:/0/1:/0:52,0:..:52 G	A
				0.0(0.011	0.014	1.00	3.33	SOM GT:/0/1:/0:56,0:..:56 G	T
								SOM GT:/0/1:/0:26,0:..:26 C	T
				0.0(0.462	0.93,	1,1.00	3.58	SOM GT:/0/1:/0:19,0:..:19 T	G
								SOM GT:/0/1:/0:125,0:..:1 G	A
								SOM GT:/0/1:/0:72,0:..:72 C	G
								SOM GT:/0/1:/0:373,0:..:3 G	A
				0.937	0.996	1,N	2.4 1.61	SOM GT:/0/1:/0:110,1:..:1 C	T
3E-04	0	0					1.38	0 SOM GT:/0/1:/0:65,1:..:66 C	T
								SOM GT:/0/1:/0:104,0:..:1 C	T
		##	0					SOM GT:/0/1:/0:52,0:..:52 C	T
								SOM GT:/0/1:/0:23,0:..:23 C	A



5E-04	0	0	0.0	0.998	1.0,D	1,D	4.8	3.91		SOM	GT:/0/1:20:100,0:..1:G	A	
										SOM	GT:/0/1:20:15,0:..15:A	G	
										SOM	GT:/0:39 0/1:32,4:37:C	T	
							0.3	0.4	DB;S	GT:/0:34 0/1:83,16:3:T	C		
							0			SOM	GT:/0:86 0/1:81,11:3:C	T	
	##	##	0	0.0	0.999	1.0,D	1.00	2.9	3.92		SOM	GT:/0:35 0/1:85,32:3:G	A
						1,A	5.9	5.29			SOM	GT:/0:30 0/1:63,13:3:G	T
							0.1	0.1	DB;S	GT:/0:33 0/1:73,8:37:T	C		
							0	0.1		SOM	GT:/0:8,(0/1:9,6:37:A	G	
							0	0		SOM	GT:/0:8,(0/1:22,8:37:A	G	
	0	0					0	0		SOM	GT:/0:19 0/1:29,7:35:C	T	
0.245	0	0					0.1	0		SOM	GT:/0:35 0/1:38,11:3:C	T	
							0			SOM	GT:/0:42 0/1:107,38:A	G	
	##	##	0							SOM	GT:/0:12 0/1:122,18:C	T	
										SOM	GT:/0:95 0/1:99,12:3:G	C	
			0.0	0.915	0.992	1,D	3.6	3.92		SOM	GT:/0:12 0/1:138,18:C	G	
			0.0	1.0,D	1.0,D	1,D	4.4	4.19		SOM	GT:/0:78 0/1:282,65:G	A	
	0	0								SOM	GT:/0:13 0/1:93,15:3:G	A	
										SOM	GT:/0:41 0/1:28,7:37:G	A	
							2.12			SOM	GT:/0:37 0/1:68,13:3:C	A	
										SOM	GT:/0:11 0/1:26,4:37:G	T	
										SOM	GT:/0:34 0/1:57,20:3:G	A	
										SOM	GT:/0:37 0/1:31,4:37:A	G	
							0		DB;S	GT:/0:55 0/1:38,6:37:A	G		
										SOM	GT:/0:53 0/1:32,10:3:A	C	
	##	##	0				1.89			SOM	GT:/0:98 0/1:45,7:37:G	A	
							2.87			SOM	GT:/0:49 0/1:46,8:37:G	T	
			0.0	0.452	0.9,P	1,D	6.2	4.76		SOM	GT:/0:12 0/1:89,20:3:G	A	
							5.7			SOM	GT:/0:20 0/1:249,51:G	A	
			0.0	0.87,	0.998	1.00	5.7	1.95		SOM	GT:/0:20 0/1:250,51:G	T	
										SOM	GT:/0:91 0/1:193,29:C	T	
										SOM	GT:/0:10 0/1:150,42:T	C	
2E-04										SOM	GT:/0:52 0/1:85,17:3:T	C	
							0.2	0.2	DB;S	GT:/0:36 0/1:29,4:37:C	T		
2E-04							0	0		SOM	GT:/0:8,(0/1:13,13:3:C	T	
			0.5	0.0,B	0.0,B	0.99	2.9			SOM	GT:/0:55 0/1:86,13:3:G	A	
							2.2			SOM	GT:/0:33 0/1:70,7:35:A	G	
	##	##	0	0.2	0.97,	0.999	1.00	5.7	4.26		SOM	GT:/0:52 0/1:117,20:C	T
			0.0	1.0,D	1.0,D	1,D	5.8	4.93		SOM	GT:/0:33 0/1:59,11:3:C	T	
										SOM	GT:/0:39 0/1:23,5:37:A	G	
							2.5			SOM	GT:/0:34 0/1:37,5:37:G	C	
										SOM	GT:/0:25 0/1:15,4:37:C	A	
										SOM	GT:/0:31 0/1:17,12:3:C	G	
										SOM	GT:/0:8,(0/1:13,10:3:C	G	
							4.9	4.04		SOM	GT:/0:19 0/1:42,38:3:C	T	
										SOM	GT:/0:34 0/1:25,19:3:A	T	
							0.1	0		SOM	GT:/0:8,(0/1:11,10:3:G	C	
										SOM	GT:/0:12 0/1:21,5:31:G	C	
										SOM	GT:/0:17 0/1:39,8:32:C	G	
										SOM	GT:/0:11 0/1:64,15:3:C	A	
			0.1	0.431	0.876	1.00	5.7	2.17		SOM	GT:/0:21 0/1:174,27:T	C	
2E-04										SOM	GT:/0:54 0/1:78,22:3:G	A	
							2.3			SOM	GT:/0:23 0/1:50,8:37:T	G	
							4.6	1.39		SOM	GT:/0:10 0/1:81,15:3:G	A	

									SOM GT:/0:26 0/1:61,17:3T	A	
		0.0	0.992	1.0,D	1,D	4.7	4.84		SOM GT:/0:15 0/1:173,45 G	C	
2E-04								0	SOM GT:/0:16 0/1:38,8:37C	T	
						5			SOM GT:/0:27 0/1:85,24:3G	A	
									SOM GT:/0:43 0/1:65,18:3G	A	
		0.0	0.992	1.0,D	1,D	3.8	5.83		SOM GT:/0:11 0/1:223,24 G	C	
2E-04									SOM GT:/0:21 0/1:40,13:3T	C	
									SOM GT:/0:36 0/1:41,8:34G	C	
									SOM GT:/0:14 0/1:95,34:3C	T	
		0.052	0.509	0.93		5.8	2.26		SOM GT:/0:59 0/1:185,30 C	T	
		0.0	0.225	0.957	1,D	5.9	5.10		SOM GT:/0:21 0/1:453,10 C	T	
		0.0	1.0,D	1.0,D	1.00	5.7	5.01		SOM GT:/0:14 0/1:92,15:3C	T	
								0 0.1	SOM GT:/0:8,(0/1:33,5:37G	A	
	##	##	0			4.5	2.74		SOM GT:/0:82 0/1:81,17:3C	T	
									SOM GT:/0:10 0/1:219,40 G	A	
	##	##	0	0.0	0.951	1.0,D	1.00	5.6	4.24	SOM GT:/0:19 0/1:267,45 C	T
									SOM GT:/0:29 0/1:11,7:37C	T	
						4.6			SOM GT:/0:15 0/1:37,7:35A	T	
									SOM GT:/0:17 0/1:23,6:24A	G	
					1,A	5.5	6.00		SOM GT:/0:28 0/1:44,13:3T	A	
									SOM GT:/0:30 0/1:34,5:37T	G	
								0	SOM GT:/0:9,(0/1:20,5:22A	C	
								0	SOM GT:/0:25 0/1:25,6:20A	C	
									SOM GT:/0:19 0/1:25,10:3C	T	
									SOM GT:/0:31 0/1:24,8:33T	A	
									SOM GT:/0:9,(0/1:6,5:37: C	T	
	##	##	0						SOM GT:/0:58 0/1:49,7:37C	T	
									SOM GT:/0:21 0/1:18,7:35C	T	
					1,D	5.6	6.86		SOM GT:/0:38 0/1:80,21:3G	A	
									SOM GT:/0:59 0/1:36,10:3G	A	
									SOM GT:/0:76 0/1:40,8:37A	C	
		0.0	0.998	1.0,D	0.95	4.9	3.23		SOM GT:/0:40 0/1:88,27:3G	C	
									SOM GT:/0:42 0/1:29,7:35T	C	
						1.39			SOM GT:/0:17 0/1:23,4:37G	A	
2E-04	##	0	0.0	0.754	0.988	1,D	2.5	3.43	0	SOM GT:/0:59 0/1:166,43 C	T
	##	0								SOM GT:/0:29 0/1:57,12:3C	T
		0.3	0.079	0.059	0.99	4.9	1.32			SOM GT:/0:63 0/1:34,10:3T	C
	0	0				4	1.94	0.1	0	DB;S GT:/0:43 0/1:38,4:37A	G
2E-04								0		SOM GT:/0:57 0/1:47,6:37G	A
		0.1	0.444	0.392	0.86	3.2	2.29			SOM GT:/0:15 0/1:315,41 C	G
	##	0	0.0	0.978	0.999	1,D	5.8	4.07	0	SOM GT:/0:40 0/1:71,8:35C	T
	0	0				1.62				SOM GT:/0:16 0/1:30,4:37A	C
	0	0						0		SOM GT:/0:43 0/1:101,18 C	G
										SOM GT:/0:18 0/1:123,29 G	A
										SOM GT:/0:15 0/1:287,60 C	T
0.04								0		SOM GT:/0:39 0/1:66,7:37T	A
								0	0	SOM GT:/0:38 0/1:70,8:37A	G
		0.1	0.811	0.996	0.99	2.8	2.64			SOM GT:/0:75 0/1:179,31 C	T
								0		SOM GT:/0:37 0/1:39,4:37A	T
	##	0								SOM GT:/0:78 0/1:217,38 C	T
4E-04	##	##	0					0	0	SOM GT:/0:10 0/1:63,11:3G	A
						1.69				SOM GT:/0:39 0/1:42,10:3T	C
								0		SOM GT:/0:90 0/1:59,13:3C	T
						2	1.99			SOM GT:/0:19 0/1:24,4:37C	G

									SOM GT:/0:11 0/1:140,32 G	A		
		0	0						SOM GT:/0:14 0/1:33,4:37 T	C		
									SOM GT:/0:34 0/1:73,18:3 C	T		
4E-04	0	##	0						DB;GT:/0:21 0/1:442,88 C	T		
									SOM GT:/0:11 0/1:282,54 G	A		
		##	0						SOM GT:/0:19 0/1:314,13 G	A		
									SOM GT:/0:14 0/1:27,4:37 C	T		
2E-04	##	##	0	0.7	0.058	0.596	1,N		SOM GT:/0:25 0/1:102,12 C	T		
									SOM GT:/0:45 0/1:50,19:3 C	G		
									SOM GT:/0:44 0/1:37,12:3 C	G		
									SOM GT:/0:49 0/1:56,15:3 C	T		
									SOM GT:/0:47 0/1:49,11:3 C	T		
									SOM GT:/0:28 0/1:20,4:37 A	C		
2E-04						3.5	2.39	0	SOM GT:/0:65 0/1:109,29 C	T		
						3.8	2.10		SOM GT:/0:44 0/1:91,21:3 G	A		
									SOM GT:/0:66 0/1:93,18:3 G	A		
									SOM GT:/0:62 0/1:90,16:3 G	T		
									SOM GT:/0:8,(0/1:11,4:37 C	A		
				0.969	1.0,D	1,D	4.3	3.43	SOM GT:/0:36 0/1:60,24:2 C	T		
				0.1	0.018	0.018	1,N	1.37	SOM GT:/0:60 0/1:104,25 A	C		
									SOM GT:/0:20 0/1:26,4:34 C	A		
									SOM GT:/0:35 0/1:18,6:37 G	C		
						1,D	4.7	11.6	SOM GT:/0:83 0/1:143,24 G	A		
				0.0	0.723	0.977	1,N	5.1	3.83	SOM GT:/0:92 0/1:71,20:3 G	A	
						1,D				SOM GT:/0:11 0/1:256,35 C	T	
										SOM GT:/0:36 0/1:36,4:37 C	A	
										SOM GT:/0:52 0/1:29,6:35 C	A	
		0	0	0.0	0.931	0.999	1.00	3	2.89	0	SOM GT:/0:96 0/1:79,17:3 C	T
										0	SOM GT:/0:9,(0/1:62,14:3 G	A
								0.2	0	SOM GT:/0:37 0/1:70,9:37 A	G	
								0	0	SOM GT:/0:12 0/1:25,9:37 A	C	
0.004											DB;GT:/0:30 0/1:78,17:3 C	T
								0.4	0.4	DB;GT:/0:52 0/1:105,12 A	G	
						1,A	3.1	4.59			SOM GT:/0:17 0/1:245,63 C	T
				0.1	0.036	0.104	0.94	5.4	2.06		SOM GT:/0:83 0/1:85,21:3 C	T
				0.0	1.0,D	1.0,D	0.96	3.8	2.70		SOM GT:/0:44 0/1:72,18:3 G	T
											SOM GT:/0:16 0/1:29,9:37 T	A
0.437								0.5	0.5	DB;GT:/0:53 0/1:16,7:37 T	C	
											SOM GT:/0:39 0/1:11,38:3 T	G
						3			0		SOM GT:/0:11 0/1:237,77 G	A
0.004		0	0								SOM GT:/0:15 0/1:252,22 C	T
						4.6					SOM GT:/0:15 0/1:40,7:37 T	A
		##	0								SOM GT:/0:22 0/1:61,16:3 C	T
						5.6					SOM GT:/0:23 0/1:39,16:3 C	T
0.317								0	0	SOM GT:/0:51 0/1:86,10:3 A	T	
								0.1	0.1	SOM GT:/0:22 0/1:28,5:34 A	C	
											SOM GT:/0:94 0/1:123,96 C	A
											SOM GT:/0:11 0/1:25,4:37 C	T
											SOM GT:/0:50 0/1:35,21:3 C	T
											SOM GT:/0:67 0/1:84,60:3 T	G
											SOM GT:/0:11 0/1:12,8:35 G	T
											SOM GT:/0:26 0/1:25,22:3 A	T
				0.0	0.857	0.993	1.00	5.4	4.17		SOM GT:/0:36 0/1:28,21:3 G	A
											SOM GT:/0:54 0/1:68,38:3 G	A

.	.	.	0.0	0.988	1.0,D	1.00	5.1	3.49.	.	SOM	GT:/	0:22	0/1:341,19	C	T	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:22	0/1:341,19	C	T	
.	.	.	0.0	0.999	1.0,D	1.00	3.1	3.33.	.	SOM	GT:/	0:48	0/1:43,29:3	C	A	
.	.	.	0.1	0.003	0.002.	.	2.1	1.30.	.	SOM	GT:/	0:56	0/1:59,25:3	G	T	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:37	0/1:35,14:3	G	A	
.	.	.	.	.	.	.	.	.	0	0.1	SOM	GT:/	0:9,(0/1:17,9:37	T	C	
.	.	.	0.0	0.985	1.0,D	1,D	5.5	4.92.	.	SOM	GT:/	0:95	0/1:179,16:	A	T	
.	.	.	.	.	.	.	.	.	0	0.1	SOM	GT:/	0:21	0/1:34,6:37	G	T
0.057	.	.	.	.	.	.	.	.	0	0	DB;S	GT:/	0:45	0/1:16,17:2	G	T
.	.	.	.	.	.	.	1.59.	.	.	SOM	GT:/	0:12	0/1:8,5:29:	A	T	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:46	0/1:34,37:3	G	A	
.	.	.	.	.	.	.	3.5	2.23.	.	SOM	GT:/	0:28	0/1:35,28:3	C	A	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:68	0/1:56,28:3	C	T	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:43	0/1:25,13:3	C	G	
2E-04	.	.	.	.	.	.	.	.	0	0	SOM	GT:/	0:12	0/1:11,6:37	G	A
.	.	.	.	.	.	.	4.7	3.12.	.	SOM	GT:/	0:17	0/1:185,13	G	A	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:8,(0/1:11,6:35	C	G		
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:12	0/1:129,11:	C	G	
.	0	##	0.	.	.	.	.	.	.	SOM	GT:/	0:96	0/1:181,44	C	T	
.	.	.	.	.	.	.	2.91.	.	.	SOM	GT:/	0:80	0/1:93,69:3	T	C	
.	.	.	0.4	0.005	0.002	1,D	4.7	1.64.	.	SOM	GT:/	0:60	0/1:66,43:3	A	G	
.	.	.	.	.	.	.	1.87.	.	.	SOM	GT:/	0:31	0/1:42,9:35	T	G	
.	.	.	.	.	.	.	1.92.	.	.	SOM	GT:/	0:15	0/1:29,16:3	G	A	
0.004	0	0	0.	.	.	.	4.6.	.	0.	SOM	GT:/	0:24	0/1:415,20:	C	T	
.	.	##	0	0.0	0.909	0.991	1,D	5.8	5.70.	.	DB;S	GT:/	0:28	0/1:33,92:3	G	A
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:79	0/1:128,27	T	G	
.	.	.	.	.	.	.	.	.	0	DB;S	GT:/	0:55	0/1:94,60:3	C	T	
.	.	.	.	.	.	.	4.1.	.	.	SOM	GT:/	0:30	0/1:35,33:3	C	T	
.	.	.	.	.	.	.	.	.	0.	SOM	GT:/	0:63	0/1:77,40:3	G	A	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:19	0/1:16,11:3	G	T	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:15	0/1:193,56	G	C	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:12	0/1:22,5:37	C	G	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:76	0/1:53,31:3	C	T	
.	.	.	.	.	.	1,D	5.3	4.66.	.	SOM	GT:/	0:16	0/1:28,18:3	G	A	
.	.	.	.	.	.	.	1.74.	.	.	SOM	GT:/	0:91	0/1:77,44:3	G	A	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:17	0/1:23,4:37	A	T	
.	.	##	0	0.0	0.999	1.0,D	1,N	3.2	1.65.	.	SOM	GT:/	0:25	0/1:278,17	C	T
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:68	0/1:72,39:3	C	T	
.	.	.	.	.	.	1,A	5.99.	.	.	SOM	GT:/	0:79	0/1:65,72:3	G	A	
.	##	##	0	0.0	0.953	1.0,D	0.87	5	3.10.	.	SOM	GT:/	0:12	0/1:176,11:	C	T
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:20	0/1:18,18:3	C	T	
.	.	0	0	0.0	0.873	0.997	0.99	5.5	3.85.	.	SOM	GT:/	0:27	0/1:39,21:3	T	G
.	##	##	0.	.	.	.	.	.	.	SOM	GT:/	0:33	0/1:49,30:3	C	T	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:73	0/1:72,44:3	G	A	
.	.	.	.	.	.	.	6	4.00.	.	SOM	GT:/	0:62	0/1:68,48:3	G	A	
.	0	0	0	0.0	1.0,D	1.0,D	1.00	6	5.21.	.	SOM	GT:/	0:23	0/1:247,61	G	A
.	.	.	.	.	.	.	.	.	0.1	0.1	SOM	GT:/	0:12	0/1:5,7:37:	G	C
.	.	##	0.	.	.	.	.	.	.	SOM	GT:/	0:30	0/1:40,21:3	A	G	
.	.	.	0.3	0.035	0.006	0.99.	1.83.	.	.	SOM	GT:/	0:12	0/1:148,12:	T	C	
.	.	.	.	.	.	.	.	.	0.1	0	SOM	GT:/	0:13	0/1:20,6:37	G	A
.	.	.	.	.	.	.	.	.	0	0	SOM	GT:/	0:9,(0/1:29,6:35	C	T	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:20	0/1:15,16:3	C	G	
.	.	.	.	.	.	.	.	.	.	SOM	GT:/	0:86	0/1:95,49:3	C	T	
.	0	0	0.1:	.	1,N	.	.	.	0.	SOM	GT:/	0:25	0/1:488,15:	G	A	

									SOM GT:/0:10 0/1:23,13:3A	C	
	0	0	0			2.3	1.34	0	0	SOM GT:/0:89 0/1:153,17 A	T
										SOM GT:/0:16 0/1:222,14 G	A
										SOM GT:/0:23 0/1:30,19:3G	A
	0	0						0	0.2	SOM GT:/0:15 0/1:27,4:37C	A
								0		SOM GT:/0:13 0/1:22,14:1A	C
										SOM GT:/0:16 0/1:37,4:37T	C
			0.0	0.997	1.0,D	1,D	5.3	5.19		SOM GT:/0:15 0/1:26,21:3G	A
2E-04										SOM GT:/0:9,(0/1:7,6:35: G	A
0.002									0	SOM GT:/0:11 0/1:16,20:3A	T
	##	##	0	0.0	0.998	1.0,D	1.00	4.8	4.42	SOM GT:/0:61 0/1:67,7:37C	T
										SOM GT:/0:23 0/1:9,17:34G	A
					1.0,D	1.0,D	4.4	1.95		SOM GT:/0:58 0/1:25,67:3G	A
							5.6			SOM GT:/0:21 0/1:39,18:3G	T
							1.54			SOM GT:/0:8,(0/1:13,14:3T	C
									0	SOM GT:/0:10 0/1:5,6:37: G	T
	##	0								SOM GT:/0:37 0/1:38,11:3G	A
			0.4	0.836	0.826	1,D	6.1	3.43		SOM GT:/0:17 0/1:29,13:3A	G
2E-04										SOM GT:/0:27 0/1:32,32:3G	A
			0.0	0.017	0.002	1,D	6	4.31		SOM GT:/0:45 0/1:26,18:3G	T
									0.1	0.3 DB;:GT:/0:26 0/1:9,4:37: G	A
										SOM GT:/0:12 0/1:172,11:C	T
							1.27			SOM GT:/0:28 0/1:38,13:3G	C
										SOM GT:/0:11 0/1:11,9:37G	A
	##	0							0	SOM GT:/0:90 0/1:142,86 G	A
							2.4			SOM GT:/0:41 0/1:30,23:3C	T
										SOM GT:/0:68 0/1:47,48:3G	A
									0	SOM GT:/0:23 0/1:19,5:37T	A
										SOM GT:/0:8,(0/1:11,8:37C	T
									0	0 SOM GT:/0:19 0/1:8,5:37: G	T
									0	SOM GT:/0:8,(0/1:28,6:13A	T
			0.999	1.0,D			3.3	2.24		SOM GT:/0:11 0/1:25,29:3G	A
									0	SOM GT:/0:46 0/1:58,6:37C	A
							3.8	1.25		SOM GT:/0:30 0/1:59,6:37A	T
							2.3	1.46		SOM GT:/0:68 0/1:38,35:3G	C
	##						1.76		0	SOM GT:/0:31 0/1:23,20:3A	G
			0.0	0.597	0.594	0.99	4.3	3.78		SOM GT:/0:39 0/1:96,16:3G	A
										SOM GT:/0:31 0/1:18,19:3C	G
							2.7			SOM GT:/0:51 0/1:50,41:3G	A
										SOM GT:/0:20 0/1:19,10:3C	G
										SOM GT:/0:9,(0/1:9,8:37: C	A
										SOM GT:/0:44 0/1:53,98:3G	A
									0.1	0.2 SOM GT:/0:34 0/1:66,8:37C	A
									0	0 SOM GT:/0:48 0/1:39,7:37C	A
	##	0	0.0	0.002	0.003	1,N	4.5	1.47		SOM GT:/0:19 0/1:175,10:C	T
	##									DB;:GT:/0:93 0/1:95,73:3C	T
						1,D	6	3.52		SOM GT:/0:51 0/1:43,39:3C	A
			0.0	1.0,D	1.0,D	1,D	5.5	3.84		SOM GT:/0:89 0/1:186,46 T	G
									0	0.1 DB;:GT:/0:20 0/1:24,7:33T	C
			0.6	0.007	0.071	1.00	5.8	1.48		SOM GT:/0:34 0/1:31,28:3T	C
										SOM GT:/0:70 0/1:96,55:3G	A
			0.0	1.0,D	1.0,D	1,D	5.6	5.71		SOM GT:/0:44 0/1:36,26:3G	A
										SOM GT:/0:91 0/1:102,54 G	T
							1.33			SOM GT:/0:8,(0/1:13,4:37T	C

									SOM GT:/0:26 0/1:39,14:3 A	T		
			0.0	0.017	0.006	1,N	1.70		SOM GT:/0:30 0/1:295,22: C	T		
	0	##	0						SOM GT:/0:74 0/1:85,19:3 C	T		
			0.0	0.526	0.73,	1,D	5.8	5.49	SOM GT:/0:23 0/1:249,56 C	G		
							4.49	0	0 DB;S GT:/0:63 0/1:50,30:3 G	A		
		##	0	0.0	0.982	0.999	0.99	5.6	4.76	0	SOM GT:/0:21 0/1:248,17: G	A
		##	0			1,A	5.58				SOM GT:/0:56 0/1:59,32:3 C	T
											SOM GT:/0:13 0/1:103,78 G	A
4E-04		##	0					0			SOM GT:/0:51 0/1:55,34:3 G	A
							3.9	1.88			SOM GT:/0:46 0/1:57,33:3 A	G
											SOM GT:/0:45 0/1:50,47:3 G	T
0.011	0	0	0				2.5				DB;S GT:/0:12 0/1:211,14: C	T
		##	0					0.1	0.2		DB;S GT:/0:22 0/1:57,8:37 T	A
											SOM GT:/0:29 0/1:9,37:35 C	G
											SOM GT:/0:50 0/1:6,31:37 G	A
0.021								0	0		SOM GT:/0:13 0/1:11,4:37 G	A
2E-04											SOM GT:/0:10 0/1:5,6:37: C	T
							2.9				SOM GT:/0:46 0/1:56,30:3 C	T
											SOM GT:/0:54 0/1:60,45:3 G	A
											SOM GT:/0:21 0/1:30,6:37 A	G
											SOM GT:/0:35 0/1:38,31:3 G	A
											SOM GT:/0:66 0/1:56,37:3 C	G
											SOM GT:/0:21 0/1:20,20:3 G	A
											SOM GT:/0:36 0/1:52,13:3 A	C
											SOM GT:/0:38 0/1:50,24:3 C	T
								0			SOM GT:/0:23 0/1:27,4:37 C	G
0.002											SOM GT:/0:61 0/1:61,41:3 G	A
							1.50				SOM GT:/0:53 0/1:69,53:3 C	T
						1,A					SOM GT:/0:26 0/1:53,17:3 G	A
							1.84				DB;S GT:/0:21 0/1:29,22:3 T	A
											SOM GT:/0:43 0/1:91,38:3 G	A
								0	0.1		SOM GT:/0:14 0/1:23,4:37 C	G
0.071								0.1	0.1		SOM GT:/0:12 0/1:17,11:3 C	A
								0	0		SOM GT:/0:17 0/1:33,5:37 T	C
											SOM GT:/0:8,(0/1:9,4:37: G	T
		##	0				1.27				SOM GT:/0:34 0/1:22,24:3 C	T
2E-04							3.3	3.26			SOM GT:/0:90 0/1:116,73 C	T
			0.0	0.999	0.999	1,D	4.9	5.51			SOM GT:/0:89 0/1:116,50 G	A
			0.0	0.999	1.0,	D 1,D	4.2	3.76			SOM GT:/0:10 0/1:102,68 G	A
									0.1	0.2	SOM GT:/0:8,(0/1:24,6:37 G	A
									0	0.1	SOM GT:/0:34 0/1:41,5:37 A	G
											SOM GT:/0:50 0/1:33,19:3 C	A
											SOM GT:/0:80 0/1:95,74:3 T	C
		##	0	0.0	0.186	0.958	1,N	3.7	1.71		SOM GT:/0:63 0/1:75,46:3 C	T
											SOM GT:/0:42 0/1:41,25:3 C	T
											SOM GT:/0:16 0/1:30,19:3 C	T
									0	0	SOM GT:/0:20 0/1:35,4:37 T	C
			0.0	1.0,	D 1.0,	D 1,D	5.2	4.19			SOM GT:/0:48 0/1:44,36:3 C	T
											SOM GT:/0:45 0/1:26,15:3 G	A
											SOM GT:/0:26 0/1:28,35:3 C	T
											SOM GT:/0:46 0/1:55,33:3 C	T
									0		SOM GT:/0:10 0/1:10,7:37 G	A
			0.1	0.928	0.999	1,N	4	3.15			SOM GT:/0:15 0/1:248,55 C	T
	0	##	0						0		SOM GT:/0:14 0/1:298,62 G	A

					1,A	4.8	8.04			SOM GT:/0:32 0/1:83,25:3T	A	
		##	0				1.66			SOM GT:/0:18 0/1:47,8:37C	T	
		##	0							SOM GT:/0:29 0/1:304,33 G	A	
							1.72			SOM GT:/0:16 0/1:31,10:3G	A	
			0.6	0.005	0.001	0.98	3.8	1.70		SOM GT:/0:33 0/1:44,9:37G	T	
										SOM GT:/0:24 0/1:65,19:3G	C	
										SOM GT:/0:34 0/1:40,23:3G	T	
			0.0	0.982	0.999	1,D	4.2	5.24		SOM GT:/0:22 0/1:279,77 G	A	
								0	0	DB;S GT:/0:25 0/1:30,5:37T	G	
								0	0	SOM GT:/0:27 0/1:44,5:37C	T	
								0.1	0.3	SOM GT:/0:9,(0/1:32,4:37C	T	
								0	0	SOM GT:/0:10 0/1:30,5:37A	G	
										SOM GT:/0:35 0/1:47,8:3G	T	
							1.68	0		SOM GT:/0:22 0/1:70,11:1T	G	
		##	0							SOM GT:/0:31 0/1:518,47 C	T	
		##	0	0.0	1.0,D	1.0,D	1,D	2.7	3.85	SOM GT:/0:23 0/1:42,10:3C	T	
							4.5			SOM GT:/0:12 0/1:130,17 G	A	
							1.48			SOM GT:/0:78 0/1:99,17:3A	C	
		##	0							SOM GT:/0:23 0/1:26,11:3C	T	
0.01	0	0	0	0.0	0.17,	0.899	0.99	4	3.11	0	DB;S GT:/0:16 0/1:125,40 C	T
											SOM GT:/0:35 0/1:53,5:37A	G
											SOM GT:/0:41 0/1:72,20:3C	A
			0.0	0.996	1.0,D	1,D	5.7	5.49			SOM GT:/0:34 0/1:107,13 C	T
			0.2	0.005	0.001	1.00					SOM GT:/0:56 0/1:49,7:37T	A
			0.0	0.999	1.0,D	1,D	5.8	4.83			SOM GT:/0:17 0/1:120,57 C	T
0.016											DB;S GT:/0:25 0/1:25,7:37T	C
								0			SOM GT:/0:27 0/1:34,5:31A	G
							3.4				SOM GT:/0:26 0/1:30,6:37C	G
											SOM GT:/0:18 0/1:21,7:17T	G
								0	0.1		SOM GT:/0:9,(0/1:13,4:34G	A
											SOM GT:/0:25 0/1:82,16:3G	C
							2.50				SOM GT:/0:11 0/1:130,18 G	A
			0.0	0.936	0.997	1.00	5.9	4.12			SOM GT:/0:62 0/1:73,26:3G	A
							4.1				SOM GT:/0:45 0/1:56,14:3G	C
							2.7	2.12			SOM GT:/0:79 0/1:85,20:3C	A
							2.5				SOM GT:/0:12 0/1:223,76 T	A
			1.0	0.0,B	0.0,B	1,N					SOM GT:/0:31 0/1:55,20:3G	T
		##	0	0.0	0.004	0.313	0.99	2.5	2.21		SOM GT:/0:14 0/1:150,34 C	T
							2.3	1.83			SOM GT:/0:28 0/1:25,5:34T	A
			0.0	0.054	0.665	1.00	4.9	1.86			SOM GT:/0:14 0/1:112,15 G	A
								0	0		DB;S GT:/0:26 0/1:18,5:37T	C
											SOM GT:/0:40 0/1:36,10:3C	G
											SOM GT:/0:31 0/1:35,5:31G	C
							5				SOM GT:/0:16 0/1:107,56 C	T
			0.0			0.98		2.98			SOM GT:/0:14 0/1:163,70 A	T
			0.9	0.99,	0.999	1.00	5.8	1.57			SOM GT:/0:76 0/1:86,17:3T	C
											SOM GT:/0:70 0/1:154,57 T	C
						1,A	5.9	13.3			SOM GT:/0:43 0/1:94,22:3G	A
						1,D		2.38			SOM GT:/0:48 0/1:60,6:37C	T
											SOM GT:/0:53 0/1:100,10 C	T
							1.26	0			SOM GT:/0:10 0/1:21,7:11A	C
								0.3	0.2		SOM GT:/0:8,(0/1:20,8:3E G	A
							2.1				SOM GT:/0:20 0/1:77,7:37G	A
0.327								0			DB;S GT:/0:19 0/1:26,5:37T	A

.	.	.	.	.	.	.	.	SOMGT:/0:35 0/1:38,10:3 C	A
.	.	##	0 0.910.008 0.025 0.97 4.8 .	.	.	.	.	SOMGT:/0:48 0/1:70,25:3 A	G
.	.	.	.	.	.	.	.	SOMGT:/0:27 0/1:36,10:3 G	A
.	.	##	0 0.1 0.003 0.019 1,N .	.	.	.	.	SOMGT:/0:52 0/1:132,13 C	T
.	.	.	.	.	.	.	.	SOMGT:/0:53 0/1:54,11:3 C	A
.	.	.	.	.	3.00 .	.	.	SOMGT:/0:11 0/1:78,15:3 C	T
.	.	.	.	.	.	.	.	SOMGT:/0:81 0/1:91,33:3 C	T
.	.	.	.	.	.	.	.	SOMGT:/0:22 0/1:43,25:3 G	A
.	.	##	0 0.110.105 0.205 1.00 5.1 3.30 .	.	.	.	.	SOMGT:/0:57 0/1:90,13:3 G	A
.	.	.	.	.	3.7 .	.	.	SOMGT:/0:14 0/1:364,68 C	T
.	.	.	0.2 0.087 0.358 1,N .	.	.	.	.	SOMGT:/0:17 0/1:152,46 T	G
.	.	.	.	.	.	.	.	SOMGT:/0:19 0/1:25,7:3E A	G
.	.	.	0.0 0.872 0.983 0.88 4.2 3.66 .	.	.	.	.	SOMGT:/0:11 0/1:91,26:3 C	T
.	.	.	.	.	.	0.1 0.2	SOMGT:/0:37 0/1:30,7:37 C	A	
.	.	.	.	.	.	0 0.1	SOMGT:/0:15 0/1:8,5:37: G	T	
.	.	.	0.0 .	1,D 4.6 1.63 .	.	.	SOMGT:/0:58 0/1:96,19:3 G	A	
.	.	.	0.0 0.554 0.927 1.00 5.1 4.23 .	.	.	.	SOMGT:/0:32 0/1:52,6:37 C	G	
.	.	##	0 0.210.004 0.012 1,N .	.	.	.	SOMGT:/0:19 0/1:111,33 C	T	
.	.	.	.	.	.	.	SOMGT:/0:44 0/1:75,22:3 G	C	
0.318 .	.	.	.	.	.	0.1 0.2	SOMGT:/0:23 0/1:27,6:37 C	A	
0.291 .	.	.	.	.	.	0.3 0.6	SOMGT:/0:9,(0/1:14,4:37 A	C	
.	.	0 0 .	.	3.2 2.71 .	.	.	SOMGT:/0:28 0/1:106,13 C	T	
.	.	.	0.0 0.993 0.999 0.99 4.6 2.87 .	.	.	.	SOMGT:/0:11 0/1:176,34 C	A	
.	.	.	.	.	.	.	SOMGT:/0:9,(0/1:16,5:37 A	T	
.	.	.	.	3.11 .	.	.	SOMGT:/0:28 0/1:40,14:3 G	T	
.	.	.	.	.	.	.	SOMGT:/0:29 0/1:16,6:37 G	A	
.	.	.	.	3.37 .	.	.	SOMGT:/0:10 0/1:86,28:3 G	A	
.	.	.	0.0 0.499 0.883 1.00 4.7 4.04 .	.	.	.	SOMGT:/0:38 0/1:52,17:3 C	G	
.	.	##	0.3 0.002 0.002 0.97 .	1.77 .	.	.	SOMGT:/0:40 0/1:53,17:3 G	C	
.	.	##	0 0.1 0.014 0.087 0.98 4.1 1.73 .	.	.	.	SOMGT:/0:83 0/1:189,17 C	T	
.	.	.	0.0 0.996 0.999 1.00 4.1 4.31 .	.	.	.	SOMGT:/0:13 0/1:9,4:30: G	A	
.	.	.	0.0 0.999 1.0,D 1,D 4.8 5.03 .	.	.	.	SOMGT:/0:20 0/1:243,39 C	T	
.	.	.	.	.	.	.	SOMGT:/0:9,(0/1:23,8:37 G	A	
.	.	.	.	.	.	.	SOMGT:/0:22 0/1:48,17:3 G	T	
.	.	.	.	.	.	0 .	SOMGT:/0:12 0/1:147,35 C	T	
.	.	.	.	.	.	.	SOMGT:/0:13 0/1:16,7:37 C	A	
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.	.	.	.	2.5 2.83 .	.	.	SOMGT:/0:11 0/1:82,23:3 C	T	
.	.	.	.	.	.	.	SOMGT:/0:28 0/1:15,10:3 G	C	
.	.	.	.	2.9 .	.	.	SOMGT:/0:21 0/1:182,17 C	T	
.	.	.	.	.	.	.	SOMGT:/0:33 0/1:51,12:3 A	G	
.	.	.	.	1.29 0.5 0.5	SOMGT:/0:13 0/1:29,10:3 G	A	A		
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0	0.	NA	.	CELI	NUC.	.	PID.	.	.
0	0.	NA	.	RNA	ORGLIGA	KEC.	.	REACTOME_MITOCHONDRIAL_	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	INTRG_PF	KEC.	.	REACTOME_SIGNALING_BY_G	.
0	0	Spinal mus	NA	.	PRO.	UNFC.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
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0	0.	NA	.	CELI	PRO PRO	KEC	PID, BIO	REACTOME_SIGNALING_BY_W	.
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0	0.	NA .	SIGN .	GTPA .	.	.	.	.	REACTOME_SIGNALING_BY_G
0	0	Deafness, NA .	.	.	.	.	.	.	.
0	0	Immunode NA .	ORGSTR .	.	.	.	.	.	.
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0	0	Amelogen	NA	.	RNA	ENZYKEC	PID	BIO	REACTOME_SIGNALLING_BY_I
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0	0	NA	.	REG	MEM	KINA:	KEC	PID.	BIO	(REACTOME_SIGNALLING_BY_I	
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0	0	NA	GTP/KEC	PID	BIO	REACTOME_SIGNALLING_BY_I			
0	0	NA	CELI	MEN	CATI	KEC	REACTOME_TRANSMISSION_A		
0	0	Megaloblastosis	NA	EST	MEN	PRO	REACTOME_METABOLISM_OF		
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0	0	NA							
0	0	NA							
0	0	NA					REACTOME_MITOCHONDRIAL		
0	0	NA							
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0	0	NA	DIGE	PRO	STRU	KEC	REACTOME_O_LINKED_GLYCC		
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0	0	NA							
0	0	NA	SIG	OR	RAS				
0	0	Exostoses	NA	SYS	ORG	KEC	REACTOME_HS_GAG_BIOSYN		
0	0	NA							
0	0	NA	POS			KEC	PID	REACTOME_VEGF_LIGAND_RE	
0	0	NA	BIO	CYT	ACID	KEC		REACTOME_DIABETES_PATHV	
0	0	NA		ORG				REACTOME_MHC_CLASS_II_AI	
0	0	NA							
0	0	NA	REG	CYT	RAS	KEC	PID	REACTOME_SIGNALING_BY_RI	
0	0	NA	REG	CYT	RAS	KEC	PID	REACTOME_SIGNALING_BY_RI	
0	0	NA							
0	0	Deafness	NA	LYS	OR	G	CALM		
0	0	NA	RNA	NUC					
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0	0	NA	GLY	INT	REX	OF	KEC		
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0	0	Spermatogonia	NA	SYS	CELI	OXID	KEC	BIO	REACTOME_LATENT_INFECTIC
0	0	NA		NUC	TRAN	KEC	PID	BIO	REACTOME_DEVELOPMENTAL
0	0	NA	DNA	NON	TRAN	KEC	PID	BIO	REACTOME_TRIF_MEDIATED
0	0	NA							
0	0	NA							
0	0	NA	PRO	CYT	SERII				REACTOME_IMMUNE_SYSTEM
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0	0	Colorectal	NA	.	SIGNUC.	KEC	PID.	.	.
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0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	PRO	ORG	CHAF.	.	.	REACTOME_PROTEIN_FOLDIN
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Cerebral ci	NA	.	BIOS.	MET(KEC.	.	.	REACTOME_METABOLISM_OF_
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	MET(KEC.	.	.	.
0	0.	NA	.	.	.	MET(KEC.	.	.	.
0	0	Spastic pai	NA	.	.	.	.	.	.
0	0.	NA	.	EST/INTRACTI'	.	.	.	.	REACTOME_Glutamate_NEU
0	0.	NA	.	REG	NUC	SEQL.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
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0	0	Central cor	NA	.	EST/INTRCATI(KEC.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.

0	0.	NA	REG INTR PEPT	KEC	PID	BIO	REACTOME_SIGNALING_BY_G
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	BIO	RIBC	RECE	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	KEC	PID	REACTOME_BIOLOGICAL_OXII
0	0.	NA	.	.	KEC	PID	REACTOME_BIOLOGICAL_OXII
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
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0	0.	NA	EST	INTR	CATI	.	.
0	0.	NA	.	.	.	.	.
0	0	Conotrunc	NA	SYS	NUC	PROT	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	GAM	ORG	CHRC	.	.
0	0	Opitz GBB	NA	PAT	ORG	KEC	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	BIOF	.	.	.	.
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0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0	Lujan-Fryn	NA	RNA	NUC	RNA	PID
0	0.	NA	.	.	.	.	REACTOME_DEVELOPMENTAL
0	0.	NA	.	.	.	.	.
0	0	Lissenceph	NA	SYS	ORG	MICR	PID
0	0	Dent disea	NA	LIPI	ORG	PHOS	KEC
0	0	Hypothyroi	NA	SIGN	INTR	PROT	.
0	0.	NA	.	.	.	.	.
0	0.	NA	SYS	CYT	ENZY	KEC	.
0	0.	NA	.	.	.	.	.
0	0	Cardiac va	NA	NUC	CYT	ACTII	KEC
0	0.	NA	.	.	.	.	PID
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	REG	NUC	NUCL	PID	BIO









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0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	REACTOME_TRANSMISSION_A
0	0.	NA	.	EXTIPRO1.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
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0	0	Mainzer-S&	NA	.	.	.	.	.	.
0	0.	NA	.	DEFIEXTI.	.	.	.	.	.
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0	0.	NA	.	.	.	.	.	.	REACTOME_PYRUVATE_META
0	0.	NA	.	.	.	.	.	.	.
0	0	Fanconi ar	NA	.	DNA_CYT0.	.	PID.	.	REACTOME_FANCONI_ANEMIA
0	0.	NA	.	.	.	.	KEC.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	NEG.	TRAN.	.	.	.	.
0	0	Mitochondr	NA	.	.	.	.	.	.
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0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	KEC.	.	.	
0	0	Amyotroph	NA	.	PRO ORGHYDF.	.	.	
0	0.	NA	.	.	.	.	.	
0	0	{Diabetes r	NA	.	REG INTRG_PF	KEC.	REACTOME_GASTRIN_CREB_S	
0	0.	NA	.	.	KEC	PID, BIO(	REACTOME_VITAMIN_B5_PAN	
0	0.	NA	.	.	DNA CYT(PRO)	.	.	
0	0.	NA	.	.	KEC.	.	.	
0	0.	NA	.	.	RNA.	RNA.	REACTOME_DIABETES_PATHV	
0	0.	NA	.	.	DNA.	KEC.	REACTOME_TRANSCRIPTION_	
0	0.	NA	.	.	EST/ORG.	.	REACTOME_MITOCHONDRIAL_	
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	EST/NUC ACTII.	.	REACTOME_DEVELOPMENTAL	
0	0.	NA	.	.	KEC.	.	REACTOME_DIABETES_PATHV	
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	LIPII CYT(LIPAS.	.	REACTOME_ACYL_CHAIN_REM	
0	0.	NA	.	.	.	.	REACTOME_METABOLISM_OF_	
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	
0	0	Spinoceret	NA	.	DNA.	PHO(KEC	PID, BIO(	REACTOME_SIGNALLING_BY_I
0	0.	NA	.	.	.	.	REACTOME_GENERIC_TRANS(	
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	
0	0	Spinoceret	NA	.	.	.	.	
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0	0.	NA	.	.	ANA.	TRAN.	.	
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	DNA NUC.	KEC.	BIO(	REACTOME_ACTIVATION_OF_
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	ACTI ORGCATI.	.	.	
0	0.	NA	.	.	.	.	.	
0	0.	NA	.	.	CELI.	.	.	
0	0	Neutropeni	NA	.	REG NON GTP(KEC	PID.	REACTOME_TCR_SIGNALING;F	
0	0	Aland Islan	NA	.	DETI INTRCATI(KEC.	.	.	





0	0.	NA	NEG CYTO	KEC		
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA	NUC			REACTOME_RNA_POL_III_TRA
0	0	Carbamoyl NA	CYT(LIGA	KEC		REACTOME_METABOLISM_OF
0	0.	NA				
0	0.	NA	DEFINUC TRAN			
0	0.	NA	DEFINUC TRAN			
0	0	Brachydac	RNA NUC TRAN	PID, BIO		REACTOME_NOTCH1_INTRACI
0	0.	NA				
0	0.	NA		KEC		REACTOME_FACTORS_INVOL
0	0.	NA				
0	0.	NA				
0	0.	NA		KEC		
0	0	Gray platel	NA			
0	0.	NA				
0	0	Mitochondr	NA			
0	0.	NA				
0	0.	NA		KEC		
0	0.	NA	SYS INTR LIPOI			
0	0.	NA				
0	0	Robinow s	NA	SIG EXTI RECE	KEC PID	REACTOME_SIGNALING_BY_G
0	0.	NA			KEC PID	
0	0.	NA				
0	0.	NA				
0	0.	NA		KEC		
0	0.	NA		KEC		
0	0.	NA				
0	0.	NA				
0	0.	NA	NUC END	KEC		REACTOME_BASE_EXCISION_I
0	0.	NA	NUC END	KEC		REACTOME_BASE_EXCISION_I
0	0.	NA				
0	0	Hailey-Hail	NA	REG ORGCATI		REACTOME_TRANSMEMBRANI
0	0.	NA				
0	0	Blepharop	NA	DNA NUC ENZY		
0	0.	NA			KEC PID	
0	0	Cutaneous	NA	DNA	PROT	KEC PID, BIO
0	0	Bleeding di	NA			REACTOME_SIGNALING_BY_G
0	0	Leukemia,	NA	SYS CYT	PROT	
0	0.	NA				
0	0	Fanconi-Bi	NA	EST/INTR	SUG/KEC PID	REACTOME_DEVELOPMENTAL
0	0.	NA				
0	0.	NA				
0	0.	NA	ORG	SMAL	KEC	
0	0.	NA	DNA ORG		KEC PID	REACTOME_CELL_CYCLE;REA
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA				REACTOME_GENERIC_TRANSI
0	0.	NA	INTR			REACTOME_TRANSMEMBRANI
0	0.	NA	REG NUC RNA		KEC PID, BIO	REACTOME_DEVELOPMENTAL

0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	NUCL.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	.	KEC.	.	.	.		
0	0.	NA	.	.	.	KEC.	.	.	.		
0	0.	NA	.	SIGN	CYT(	.	.	.	.		
0	0	Wolfram sy	NA	.	MAC.	.	.	.	.		
0	0.	NA	.	.	EXTICARE.	.	.	REACTOME_EXTRACELLULAR	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0	Ceroid lipo	NA	.	.	KEC.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0	[Blood gro	NA	.	INTR.	.	.	.	.		
0	0.	NA	.	SIGN	CYT(	PHOS	KEC.	REACTOME_NITRIC_OXIDE_ST	.		
0	0	Short rib-p	NA	.	CYT(	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	CELICYT(	CATI(	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0	Increased i	NA	.	SYS	INTR	RECE	KEC	PID	BIO(	REACTOME_GROWTH_HORMC
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	REACTOME_RNA_POL_I_TRAN	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0	Sandhoff d	NA	.	.	PRO	KEC.	REACTOME_GLYCOSPHINGOL	.	.	
0	0	Sandhoff d	NA	.	.	PRO	KEC.	REACTOME_GLYCOSPHINGOL	.	.	
0	0	D-bifunctio	NA	.	.	CYT(	LIPID	KEC.	BIO(	REACTOME_BILE_ACID_AND_E	
0	0	Usher sync	NA	.	.	.	KEC.	REACTOME_CYTOSOLIC_TRN/	.	.	
0	0	Usher sync	NA	.	.	.	KEC.	REACTOME_CYTOSOLIC_TRN/	.	.	
0	0.	NA	.	SIGN	NUC	HYDF.	.	.	.	.	
0	0	Hyperekple	NA	.	REG	INTREXC	KEC.	REACTOME_TRANSMEMBRANI	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	REACTOME_DEVELOPMENTAL	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	KEC.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	CELI.	.	.	.	.	.	.	
0	0.	NA	.	RES	CYT(	.	.	.	.	.	
0	0.	NA	.	GAM.	.	.	.	.	.	.	
0	0.	NA	.	.	.	KEC.	.	REACTOME_MEIOSIS;REACTO	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	RNA	NUC	RNA_	KEC.	.	.	.	
0	0.	NA	.	RNA	NUC	RNA_	KEC.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0	{Asthma, s	NA	.	RNA	CELI	RECE	KEC	PID	BIO(	REACTOME_EXTRINSIC_PATH'
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	BIOF	NUC	PHOS.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0	Adrenal hy	NA	.	.	KEC.	.	REACTOME_METABOLISM_OF	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	RNA	NUC	SPEC	KEC.	.	.	.	



0	0 Mental ret	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	REG.	.	.	KEC PID.BIO	REACTOME_TRAF6_MEDIATED	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
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0	0.	NA	.	.	.	.	.	.	.
0	0	0 Choreoaca	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	PID.	REACTOME_NOTCH1_INTRACI	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	PID.	.	.	.
0	0	0 Nail-patella	NA	.	RNA NUC TRAN.	.	.	.	.
0	0.	NA	CELI.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	ENZ'	.	.	KEC PID.BIO	REACTOME_SIGNALLING_BY_I	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	BIOFCYT	IDEN'	.	.	REACTOME_METABOLISM_OF_	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	KEC PID.	REACTOME_DEVELOPMENTAL	.	.
0	0.	NA	.	.	.	KEC PID.	REACTOME_DEVELOPMENTAL	.	.
0	0	0 Deafness,	NA	.	REG NON.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	0 Microceph	NA	.	M_PI ORG MICR.	.	.	REACTOME_MHC_CLASS_II_AI	.
0	0.	NA	.	.	NUC TRAN.	.	.	.	.
0	0	0 {Age-relate	NA	.	.	LIPID.	PID.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	REACTOME_O_LINKED_GLYCC	.
0	0.	NA	.	.	.	.	.	.	.
0	0	0 Charcot-Mi	NA	.	MEM.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	0 Denys-Dra	NA	.	.	.	PID.BIO	.	.
0	0.	NA	.	.	NUC NUCL	KEC.	.	.	.
0	0.	NA	.	.	.	KEC.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	POS.	.	.	KEC PID.	REACTOME_VEGF_LIGAND_RE	.	.
0	0.	NA	.	.	CYT(DRUC.	.	.	.	.



0	0.	NA	.	CYT(DRUC.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0	Glaucoma	NA	.	.	.	.		
0	0.	NA	.	.	KEC.	.	.		
0	0.	NA	.	INTR.	KEC	PID.	REACTOME_DEVELOPMENTAL		
0	0.	NA	.	ORGPEPT.	.	.	.		
0	0.	NA	.	ORGPEPT.	.	.	.		
0	0	Megalence	NA	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	HYDF	KEC.	.	REACTOME_GLYCOLYSIS;REA		
0	0.	NA	.	HYDF	KEC.	.	REACTOME_GLYCOLYSIS;REA		
0	0.	NA	.	.	.	.	REACTOME_MEMBRANE_TRAF		
0	0	Warsaw br	NA	POS	ORG.	.	REACTOME_DIABETES_PATHV		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	RNA	NUC	RNA_.	.		
0	0	Vitamin D-	NA	BIOS.	.	KEC.	REACTOME_METABOLISM_OF_		
0	0	Vitamin D-	NA	BIOS.	.	KEC.	REACTOME_METABOLISM_OF_		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0	Deafness,	NA	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0	Mental retæ	NA	CELL.	.	PID	BIO(.		
0	0	Arthrogryp	NA	.	CYT(STRL.	.	REACTOME_STRIATED_MUSCI		
0	0.	NA	.	.	.	.	.		
0	0	Transpositi	NA	.	.	.	REACTOME_DEVELOPMENTAL		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	ACTI.	LIPA&	KEC	PID.		
0	0.	NA	.	.	.	.	REACTOME_ACYL_CHAIN_REM		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	EST/.	.	PID.	.		
0	0.	NA	.	ORG.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	PID.	REACTOME_FACTORS_INVOL\		
0	0	Spinoceret	NA	SYS.	RECE	KEC.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0	Dystonia, [	NA	REG.	HYDF	KEC.	REACTOME_TETRAHYDROBIO		
0	0.	NA	.	.	.	.	.		
0	0	{Pheochroi	NA	RNA.	TRAN	KEC	PID	BIO(	REACTOME_CELL_CYCLE;REA
0	0	{Pheochroi	NA	RNA.	TRAN	KEC	PID	BIO(	REACTOME_CELL_CYCLE;REA
0	0	Microphtha	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	CYST	KEC.	.	REACTOME_METABOLISM_OF_	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	SIGN.	.	PID	BIO(.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.

0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	[Skin/hair/ε	NA	.	.	.	KEC.	.	REACTOME_IMMUNE_SYSTEM
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
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0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	REACTOME_DEVELOPMENTAL
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	MAC EUK, TRAN.	.	.	.	.	REACTOME_TRANSLATION;RE
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	SYS MEN/ ENZY.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Cardiofacic	NA	.	SIGN.	PHOS	KEC	PID, BIO	(REACTOME_SIGNALLING_BY_I
0	0.	NA	.	.	SIGN.	.	KEC	PID, BIO	(REACTOME_SIGNALLING_BY_I
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	EST/INTRCATI	(KEC.	.	.	.	REACTOME_TRANSMISSION_A
0	0.	NA	.	.	.	.	.	.	.
0	0	Fanconi ar	NA	.	.	.	.	PID.	.
0	0	Arthrogryp	NA	.	EST/.	.	.	.	.
0	0.	NA	.	.	INTRLIPID.	.	.	.	.
0	0	{Coronary	NA	.	MUS NUC.	.	.	PID, BIO	(REACTOME_SIGNALLING_BY_I
0	0.	NA	.	.	.	.	KEC.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Osteopetr	NA	.	.	.	.	.	.
0	0.	NA	.	.	ORG PROT.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	SIGN INTR RECE	(KEC.	.	.	BIO	(.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	BIOF CYT	(PHOS.	.	.	.	REACTOME_METABOLISM_OF_
0	0.	NA	.	BIOF CYT	(TRAN.	.	PID, BIO	(	REACTOME_INSULIN_RECEPT
0	0.	NA	.	.	.	.	.	.	REACTOME_RNA_POL_III_TRA
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	EST/.	PROT.	.	.	.	.
0	0.	NA	.	EST/.	PROT.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	{Systemic	NA	.	INTR.	.	KEC	PID, BIO	(REACTOME_CELL_SURFACE_I
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	CYT	(.	.	.	REACTOME_ASSOCIATION_OF
0	0.	NA	.	.	.	.	KEC.	.	.
0	0.	NA	.	RNA NUC CATI	(.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.

0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	Bleeding di	NA	EST/INTR	CATI(KEC.	.	.	REACTOME_ELEVATION_OF_C	
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	SYS	INTR.	KEC.	BIO(.	.	.
0	0	NA	.	.	.	KEC.	.	.	.
0	0	NA	.	.	MOT(KEC.	.	.	.	.
0	0	NA	.	GAM	ORG.	.	.	.	.
0	0	Mitochondr	NA	.	.	.	.	.	.
0	0	NA	.	RNA	ORGRNA_KEC	PID.	.	REACTOME_DEVELOPMENTAL	
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
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0	0	NA	.	NUC	HIST(.	.	.	.	.
0	0	NA	.	NUC	HIST(.	.	.	.	.
0	0	NA	.	REG	ORG.	.	.	REACTOME_SIGNALING_BY_RI	
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	Acetyl-CoA	NA	.	LIGA(KEC.	BIO(	REACTOME_TRIGLYCERIDE_B		
0	0	NA	.	EST/ORG.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	RNA	NUC RNA_	PID	BIO(	REACTOME_DEVELOPMENTAL	
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	Ovalocytos	NA	REG	INTR	ANIO.	.	REACTOME_TRANSMEMBRANI	
0	0	NA	.	.	.	KEC.	.	.	.
0	0	NA	.	MEM	CATI(KEC	PID.	.	REACTOME_DEVELOPMENTAL	
0	0	NA	.	CYT(	RECE.	.	.	.	.
0	0	NA	.	.	.	KEC.	.	.	.
0	0	NA	.	.	.	KEC.	.	.	.
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0	0	Hemophag	NA	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	SYS	MEM	MOL(KEC	PID	BIO(.	
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	REG	INTR.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	CYT(	OXID.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	RNA	NUC S_AD.	.	.	REACTOME_RNA_POL_II_TRAN	
0	0	NA	.	.	.	.	.	.	.
0	0	Scalp-ear-i	NA	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	Pitt-Hopkin	NA	RNA	NUC	TRAN.	PID.	REACTOME_DEVELOPMENTAL	
0	0	NA	.	.	.	.	.	.	.
0	0	Osteolysis,	NA	POS.	RECE	KEC.	BIO(.		
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	REACTOME_TRANSMEMBRANI	

0	0.	NA	.	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	REACTOME_SIGNALING_BY_R	
0	0.	NA	.	.	.	.	.	.	.	REACTOME_SIGNALING_BY_R	
0	0	Leukemia,	NA	.	RNA.	PRO1.	PID.	.	.	REACTOME_DEVELOPMENTAL	
0	0	Leukemia,	NA	.	RNA.	PRO1.	PID.	.	.	REACTOME_DEVELOPMENTAL	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	MET/KEC.	.	.	.	.	
0	0.	NA	.	.	.	MET/KEC.	.	.	.	.	
0	0.	NA	.	RNA.	TRAN.	PID.	.	.	.	.	
0	0.	NA	.	CHR NUC	CHRC.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0	Hemophag	NA	.	.	.	.	.	.	.	
0	0	{Reduced	1NA	.	REG EXT	ENZYKEC.	.	.	.	REACTOME_DEVELOPMENTAL	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	MEM.	.	.	.	.	REACTOME_O_LINKED_GLYCC	
0	0.	NA	.	.	MEM.	.	.	.	.	REACTOME_O_LINKED_GLYCC	
0	0.	NA	.	.	MEM.	.	.	.	.	REACTOME_O_LINKED_GLYCC	
0	0.	NA	.	.	MEM.	.	.	.	.	REACTOME_O_LINKED_GLYCC	
0	0.	NA	.	.	TRAN.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	REACTOME_GENERIC_TRANSI	
0	0.	NA	.	EST/.	.	.	.	.	.	.	
0	0.	NA	.	RNA OR	RNA_.	PID.	BIO	(	.	REACTOME_SMAD2_SMAD3_S	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0	Thyroid dys	NA	.	INTRINOR.	.	.	.	.	REACTOME_METABOLISM_OF_	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
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0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	CELI MEM	RAS_KEC	PID.	BIO	(	.	REACTOME_SIGNALLING_BY_I	
0	0.	NA	.	.	GLUT	KEC.	.	.	.	REACTOME_TRANSMISSION_A	
0	0.	NA	.	.	GLUT	KEC.	.	.	.	REACTOME_TRANSMISSION_A	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	BEH.CELI	ENZYKEC	PID.	.	.	.	REACTOME_METABOLISM_OF_	
0	0.	NA	.	BEH.CELI	ENZYKEC	PID.	.	.	.	REACTOME_METABOLISM_OF_	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	SYS.	TRAN.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	REACTOME_GENERIC_TRANSI	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	REG NUC	RECE	KEC.	.	.	.	.	
0	0.	NA	.	.	SMAL.	.	.	.	.	.	
0	0.	NA	.	.	SMAL.	.	.	.	.	.	
0	0.	NA	.	SIGN INTR.	.	.	.	.	.	REACTOME_CELL_CELL_COMI	
0	0	Spinoceret	NA	.	.	.	.	.	.	.	











0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0	{Cerebral i	NA	.	BIOF.	PHO	KEC	PID	BIO(	REACTOME_GASTRIN_CREB_
0	0	Tyrosinemi	NA	.	CAR	CYT(	OXID	KEC.	.	REACTOME_METABOLISM_OF_
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
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0	0.	NA	.	.	.	.	.	.	.	
0	0	Cortical dy:	NA	.	MIC	ORG	STRL.	PID.	.	REACTOME_CELL_CYCLE;REA
0	0.	NA	.	.	.	.	.	.	.	.

0	0.	NA	.	.	.	.	.	.	.	.
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0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	IMMUNTR	.	KECPID	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	SEN:ORG	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	SIGNINTRRECEKEC	.	.	.	.	REACTOME_IMMUNOREGULAT	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	RNA NUC TRAN	.	PID	.	.	REACTOME_DEVELOPMENTAL	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
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0	0.	NA	.	CELLNONACTIIKECPID	.	.	.	.	.	.
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0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	BIOF	.	KEC	.	.	REACTOME_ANTIVIRAL_MECH	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
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0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	POS	.	.	.	.	REACTOME_ACTIVATED_NOTC	.
0	0.	NA	.	REG CYT(NUCL	.	PID.BIO	.	.	.	.
0	0.	NA	.	REG CYT(NUCL	.	PID.BIO	.	.	.	.
0	0.	NA	.	REG CYT(NUCL	.	PID.BIO	.	.	.	.
0	0.	NA	.	REG CYT(NUCL	.	PID.BIO	.	.	.	.
0	0 {Epilepsy, (	NA	.	SIGNINTRGAB/KEC	.	.	.	.	.	.



0	0	NA	ENZ' CELI PRO1.	PID.	
0	0	NA			
0	0	NA	SIGN.	PHOS	KEC PID BIO( REACTOME_SIGNALLING_BY_I
0	0	Mental retz	NA	RNA NUC TRAN.	
0	0	NA			
0	0	NA	REG INTRCATI(	KEC PID.	REACTOME_HYALURONAN_UF
0	0	NA	REG INTRCATI(	KEC PID.	REACTOME_HYALURONAN_UF
0	0	NA			
0	0	NA	ANA		
0	0	NA	IMMI.		
0	0	NA	NEG.	KEC.	
0	0	NA			
0	0	NA			
0	0	SCID due t	NA	REG ORG PRO1	KEC PID BIO( REACTOME_SIGNALING_BY_S
0	0	NA			
0	0	NA		NUC.	
0	0	NA	MUL.	DNA.	
0	0	Palmoplan	NA		PID.
0	0	NA			
0	0	NA			
0	0	NA		CYT(	
0	0	NA		CYT(	
0	0	NA		CYT(	
0	0	NA			
0	0	NA	REG CYT(MRN).		
0	0	Ceroid lipo	NA	REG AXO THIO	KEC.
0	0	NA		CATI(	
0	0	NA		CATI(	
0	0	Deafness,	NA	EST).	REACTOME_NEURONAL_SYST
0	0	Deafness,	NA	EST).	REACTOME_NEURONAL_SYST
0	0	NA			
0	0	NA	RNA.	SING.	PID.
0	0	NA		NUC.	REACTOME_DEVELOPMENTAL
0	0	NA			
0	0	NA	BIOF.	PHOS.	PID.
0	0	NA			
0	0	Adenocarc	NA	DNA NUC.	KEC.
0	0	Spastic pai	NA	CAR INSC HYDF.	
0	0	NA	BIOF.	NUC1	KEC PID BIO( REACTOME_SPRY_REGULATIC
0	0	NA			
0	0	NA			
0	0	NA			
0	0	{Myocardia	NA	EST).	RECE. PID.
0	0	NA		RNA NUC SPEC.	REACTOME_PLATELET_HOME
0	0	NA			
0	0	Hyperchole	NA	REG EXTISERII.	
0	0	NA	BIOF.		KEC PID BIO( REACTOME_ACTIVATED_AMPH
0	0	Ciliary dysl	NA		PID.
0	0	NA			KEC PID BIO( REACTOME_IL_7_SIGNALING;F
0	0	NA			
0	0	NA	CELI CYT(	KEC.	
0	0	NA	PRO ORGLIPID	KEC.	REACTOME_METABOLISM_OF_
0	0	NA		INTRG_PF.	

0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	INTRG_PF.	.	.	.	.	.
0	0.	NA	.	REG INTR LIPID KE C PID.	BIO(	REACTOME_GASTRIN_CREB_5			
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	ENZ' INTR CARE.	PID.	BIO(			
0	0	Cone-rod c	NA	EST/ CELI NUCI KE C.	.	REACTOME_ABC_FAMILY_PRC			
0	0	Cone-rod c	NA	EST/ CELI NUCI KE C.	.	REACTOME_ABC_FAMILY_PRC			
0	0.	NA	.	.	.	.	.	.	.
0	0	Fibrochonc	NA	SYS' PRO.	KE C PID.	REACTOME_EXTRACELLULAR			
0	0.	NA	.	.	KE C.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Megakaryc	NA	.	.	.	.	.	.
0	0.	NA	.	AMIN.	CARE KE C.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	REACTOME_PRE_NOTCH_TRA
0	0.	NA	.	POS.	HYDF.	PID.	REACTOME_SIGNALING_BY_RI		
0	0.	NA	.	.	KE C PID.	.	.	.	.
0	0	Myoadenyl	NA	.	HYDF KE C.	REACTOME_METABOLISM_OF_			
0	0	Myoadenyl	NA	.	HYDF KE C.	REACTOME_METABOLISM_OF_			
0	0	Bamforth-L	NA	RNA NUC	HYDF.	.	.	.	.
0	0.	NA	.	NUC.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Alagille syr	NA	REG INTR SPEC KE C PID.	REACTOME_PRE_NOTCH_TRA				
0	0	Alagille syr	NA	REG INTR SPEC KE C PID.	REACTOME_PRE_NOTCH_TRA				
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	EST/.	KE C.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	RNA NUC NUCI KE C.	REACTOME_RNA_POL_III_TRA				
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	KE C.	REACTOME_MITOCHONDRIAL			
0	0.	NA	.	PHO CYT( PHO5 KE C PID.	REACTOME_SYNTHESIS_OF_F				
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	MUL.	RECE.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	RNA NUC.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	KE C.	REACTOME_IMMUNE_SYSTEM			
0	0.	NA	.	INTR.	.	REACTOME_MITOCHONDRIAL			
0	0.	NA	.	RNA CELI RNA_ KE C.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	RNA NUC TRAN.	REACTOME_CELL_CYCLE;REA				
0	0.	NA	.	RNA.	RAS_ KE C PID.	BIO(	REACTOME_SIGNALING_BY_RI		
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	INTR.	KE C.	.	.	.	.

0	0	NA	DEFI	PID	REACTOME_INNATE_IMMUNE		
0	0	NA	SYS				
0	0	NA					
0	0	NA	REG	GTPA	REACTOME_SIGNALING_BY_G		
0	0	Leukemia, NA	RNA NUC	PID			
0	0	NA	NEG NUC TRAN	PID	REACTOME_RNA_POL_III_TRA		
0	0	NA					
0	0	Platelet alp NA	ORG	KEC PID BIO	REACTOME_CELL_SURFACE_I		
0	0	NA	CYT				
0	0	NA					
0	0	NA	PRO	MET	REACTOME_DIABETES_PATHV		
0	0	NA					
0	0	Leukemia, NA	BIOF	CAT	REACTOME_DEVELOPMENTAL		
0	0	Nephrotic s NA	EST	INTR	PID		
0	0	NA					
0	0	NA	CELI MEM	CAT	KEC		
0	0	NA					
0	0	NA					
0	0	NA		KEC			
0	0	NA	NUC ORG	KEC	REACTOME_METABOLISM_OF		
0	0	Leber conç NA	ANA				
0	0	NA					
0	0	NA					
0	0	Hypokalerr NA	SYS	MEM	CAT	KEC	REACTOME_DEVELOPMENTAL
0	0	NA					
0	0	NA	EST	ORG			REACTOME_MITOCHONDRIAL
0	0	NA			KEC		REACTOME_PHOSPHOLIPID_M
0	0	?Epilepsy, NA		INTR	KEC		REACTOME_DEVELOPMENTAL
0	0	NA			KEC PID		REACTOME_REGULATION_OF
0	0	NA					
0	0	NA			KEC		REACTOME_DEVELOPMENTAL
0	0	Cortisone r NA			KEC		REACTOME_METABOLISM_OF
0	0	NA					
0	0	NA					
0	0	Ataxia, pos NA	EST	INTR			REACTOME_TRANSMEMBRANI
0	0	NA	SIG	PHO			
0	0	Choanal at NA	BIOF	PRO			
0	0	Choanal at NA	BIOF	PRO			
0	0	Retinitis piç NA	REG	PRO	PRO		
0	0	Retinitis piç NA	REG	PRO	PRO		
0	0	Retinitis piç NA	REG	PRO	PRO		
0	0	NA	RNA	PRO			REACTOME_GENERIC_TRANS
0	0	Hypermanç NA					
0	0	NA			KEC		REACTOME_MITOCHONDRIAL
0	0	NA			KEC		REACTOME_MITOCHONDRIAL
0	0	NA					
0	0	NA					
0	0	NA		NUC	NUCL		
0	0	NA					
0	0	Left-right a NA	ENZ		KEC		REACTOME_DEVELOPMENTAL
0	0	NA					
0	0	Coenzyme NA					
0	0	NA			PID		REACTOME_SIGNALING_BY_R
0	0	NA					

0	0	NA	PRO	PRO1				
0	0	NA	EST/INTRCATI				REACTOME_NEURONAL_SYST	
0	0	Arrhythmoc	REG MEM/CATI	KEC		BIO		
0	0	NA						
0	0	Megalence	BIOF		KEC	PID	REACTOME_SIGNALLING_BY_I	
0	0	NA						
0	0	NA					REACTOME_GENERIC_TRANS	
0	0	NA						
0	0	Thrombocy		INTR	KEC		REACTOME_METABOLISM_OF	
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA			KEC		REACTOME_ACYL_CHAIN_REM	
0	0	Inflammatc	CELI INTR		KEC	PID	BIO( REACTOME_SIGNALLING_BY_I	
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA	EST/	CATI			REACTOME_NEURONAL_SYST	
0	0	NA						
0	0	NA		MOLE		PID		
0	0	NA		NUC PRO1		PID	BIO( REACTOME_DEVELOPMENTAL	
0	0	NA						
0	0	NA			LIGA	KEC	PID	REACTOME_METABOLISM_OF
0	0	NA			LIGA	KEC	PID	REACTOME_METABOLISM_OF
0	0	NA						
0	0	{Neuroblas	SYS	INTR	TRAN			
0	0	NA	CELI			KEC		
0	0	NA						
0	0	NA						
0	0	NA				PID		
0	0	NA	EST/INTRCATI			KEC		REACTOME_TRANSMEMBRANI
0	0	Leigh synd	EST/ORG	MICR				
0	0	NA						
0	0	NA						
0	0	NA		ORG	ACTII		PID	REACTOME_DEVELOPMENTAL
0	0	NA		ORG	ACTII		PID	REACTOME_DEVELOPMENTAL
0	0	NA	SYS	ORG			PID	REACTOME_SIGNALLING_BY_I
0	0	Doyme hon	SEN	PRO				
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA	GLU		NUCI	KEC		REACTOME_BIOLOGICAL_OXII
0	0	NA						REACTOME_SIGNALING_BY_IL
0	0	NA						REACTOME_SIGNALING_BY_RI
0	0	GAPO syn					PID	
0	0	NA			ACTII			
0	0	NA	AMIN			KEC		
0	0	Miyoshi mt	SYS	MEM				
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA	ISO	ORG	OXID	KEC		

0	0	Pseudoxar	NA	REG INTRLYAS.		REACTOME_PTM_GAMMA_CAF
0	0		NA	MUS MEM.	KEC.	
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA	PRO.		
0	0	Retinitis pi	NA	RNA ORGHYDF	KEC.	REACTOME_PROCESSING_OF
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA	MUL NUC.		
0	0		NA	SIGN MEM.	KEC PID BIO	
0	0		NA	ENZ MEM SMAI.	PID.	
0	0		NA			
0	0	Colorectal	NA	MITC ORG.	KEC PID.	REACTOME_CELL_CYCLE;REA
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA			
0	0		NA	CELI.		
0	0		NA	SIGN.	GTP_KEC PID.	REACTOME_SIGNALLING_BY_I
0	0	Thrombop	NA	REG.	SERII KEC PID BIO	REACTOME_PTM_GAMMA_CAF
0	0		NA			
0	0		NA	LIPII ORGLIPA	KEC.	REACTOME_GLYCOSPHINGOL
0	0		NA			
0	0		NA			
0	0		NA	SIGN INTR.		REACTOME_SIGNALING_BY_G
0	0		NA			
0	0		NA	EST/.		
0	0	Nemaline r	NA	SAR STRL.		REACTOME_STRIATED_MUSCI
0	0		NA		KEC PID.	REACTOME_MEMBRANE_TRAF
0	0		NA			
0	0		NA		KEC.	
0	0		NA			
0	0		NA			
0	0		NA	IMMI.	SERII.	REACTOME_INTEGRATION_OF
0	0		NA	IMMI.	SERII.	REACTOME_INTEGRATION_OF
0	0		NA			
0	0	Cholestasi	NA	EST/ INTRCATI	KEC.	BIO( REACTOME_BILE_ACID_AND_E
0	0	Bardet-Bie	NA			
0	0		NA			



0	0	NA					
0	0	NA			KEC		REACTOME_CELL_CYCLE;REA
0	0	NA	SIGN	CELI	GTP	KEC	REACTOME_INTEGRIN_CELL_
0	0	Wiskott-Alk	NA	MAC	NON	ACTII	PID
0	0	Multiple pt	NA	REG	INTR	CATI	KEC
0	0	NA					
0	0	Rhizomelic	NA	BIO	CYT	TRAN	KEC
0	0	Pigmented	NA	SIGN			KEC
0	0	Cardiomyo	NA	MUS	ORG	NUCL	KEC
0	0	NA					
0	0	NA					
0	0	NA					
0	0	NA				KEC	PID
0	0	Ehlers-Dar	NA	SYS	PRO		KEC
0	0	NA					
0	0	Candidiasi	NA	RNA	CYT	RECE	KEC
0	0	NA			CYT	LIPID	
0	0	NA			CELI	NUC	NUCL
0	0	NA					
0	0	3MC syndr	NA	CELI		PHO	
0	0	NA					
0	0	NA					
0	0	NA					
0	0	NA					REACTOME_TRANSLATION;RE
0	0	NA			SYS	INTR	INTE
0	0	Cataract 4,	NA	SEN			
0	0	NA					
0	0	NA					
0	0	NA					
0	0	NA					
0	0	Carbamoyl	NA		CYT	LIGA	KEC
0	0	NA					PID
0	0	NA					BIO
0	0	NA					
0	0	{Buruli ulc	NA	MUL	INTR		KEC
0	0	Cholestasi	NA	MAC			
0	0	NA					
0	0	NA					
0	0	Spinal mus	NA	PRO		UNFC	
0	0	?Muscular	NA	ORG	SAR	STRU	KEC
0	0	NA			MUS	NUC	
0	0	NA			SIGN	INTR	KEC
0	0	{Coronary	NA	ENZ	VESI	PRO	KEC
0	0	NA					PID
0	0	NA					BIO
0	0	NA					
0	0	NA			REG	INTR	NEUF
0	0	Perlman sy	NA				KEC
0	0	Perlman sy	NA				
0	0	NA					KEC
0	0	NA			SIGN		PHO
0	0	NA					KEC
0	0	NA					PID
0	0	NA					
0	0	NA					
0	0	Advanced	NA	RHY			KEC
0	0	NA					PID
0	0	NA					REACTOME_BMAL1_CLOCK_NI

0	0	NA	.	.	.	.	.	.	.
0	0	Mental retardation	NA	EST/ORG	.	.	.	.	.
0	0	Mental retardation	NA	EST/ORG	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0		NA	SIGNINTR	.	.	.	.	.
0	0		NA	SYS	.	.	PID	.	REACTOME_DEVELOPMENTAL
0	0		NA	.	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0	Atrioventricular conduction	NA	.	.	.	.	.	.
0	0	Fanconi anemia	NA	.	.	.	PID	BIO	REACTOME_REGULATION_OF_TRANSCRIPTION_FACTOR_ACTIVITY
0	0		NA	.	.	.	.	.	REACTOME_TRANSMISSION_OF_CELL_TO_CELL_SIGNAL
0	0		NA	EST/ORG	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0	Pontocerebellar hypoplasia	NA	.	.	.	.	.	.
0	0	LEOPARD syndrome	NA	CELL/ORG	.	KEC	PID	BIO	REACTOME_SIGNALLING_BY_TYROSINE_KINASE
0	0		NA	.	.	.	KEC	PID	.
0	0		NA	.	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0		NA	.	.	.	.	.	REACTOME_NEURONAL_SYSTEMS
0	0		NA	RNA NUC	.	.	.	.	REACTOME_GENERIC_TRANSCRIPTION
0	0		NA	NUC KINASE	.	.	BIO	.	.
0	0		NA	.	.	.	.	.	.
0	0		NA	.	.	.	.	.	REACTOME_TRANSMEMBRANE SIGNALING
0	0	Colorectal adenoma	NA	POS INTR TRAN	KEC	PID	BIO	REACTOME_TGF_BETA_RECEI	
0	0		NA	.	.	.	.	.	.
0	0		NA	GLY(ORG TRAN	KEC	.	.	.	.
0	0		NA	CELL	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0	Colorectal adenoma	NA	DNA	SING	KEC	PID	.	REACTOME_MEIOSIS;REACTO
0	0		NA	EST/ORG	.	.	.	.	.
0	0	Esophageal adenoma	NA	NEG CYT	.	.	.	.	.
0	0		NA	.	.	KEC	.	.	.
0	0		NA	EST/ORG	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0		NA	REG INTR	KEC	.	.	.	REACTOME_SIGNALING_BY_G
0	0		NA	.	.	.	.	.	.
0	0		NA	.	.	KEC	.	.	.
0	0		NA	.	.	.	.	.	.
0	0	EBD inversio	NA	SYS PRO	.	.	PID	.	REACTOME_EXTRACELLULAR
0	0		NA	NUC	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0		NA	CYT(CYST	.	.	.	.	.
0	0		NA	CELL NUC	.	.	.	.	.
0	0		NA	.	.	.	.	.	.
0	0		NA	.	.	KEC	.	.	.
0	0		NA	.	.	.	.	.	.
0	0		NA	MITC	RNA	.	PID	.	.
0	0		NA	MITC	RNA	.	PID	.	.
0	0		NA	COF	.	KEC	PID	BIO	REACTOME_PPARA_ACTIVATE

0	0.	NA	.	.	KEC.	.	.			
0	0.	NA	.	.	KEC.	.	.			
0	0.	NA	.	.	KEC.	.	.			
0	0.	NA	.	.	KEC.	.	.			
0	0.	NA	.	CHR.	.	.	.			
0	0.	NA	.	CHR.	.	.	.			
0	0	Sinoatrial r	NA	.	EST/MEM/CATI	KEC.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	KEC.	.	REACTOME_TRANSMISSION_A			
0	0.	NA	.	.	KEC.	.	REACTOME_TRANSMISSION_A			
0	0	Hypogonad	NA	.	.	PID.	REACTOME_SIGNALING_BY_F			
0	0.	NA	.	SIG	NUC.	KEC	PID.			
0	0.	NA	.	.	.	.	REACTOME_REGULATION_OF_			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	BIO	CYT	NUCL.	.			
0	0.	NA	.	GLY	PRO.	.	.			
0	0.	NA	.	.	.	.	.			
0	0	Tietz albini	NA	.	.	TRAN	KEC	PID.		
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	PID.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	GAM	NUC.	.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	KEC.	.			
0	0.	NA	.	.	.	.	.			
0	0	Urocanase	NA	.	.	KEC.	REACTOME_METABOLISM_OF_			
0	0.	NA	.	MUL.	RECE	KEC.	REACTOME_DEVELOPMENTAL			
0	0.	NA	.	LIPII	INTRG_P	F.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	KEC.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	RAS_	KEC	PID.			
0	0.	NA	.	.	TRAN	KEC	PID.			
0	0	Cutaneous	NA	.	DNA.	PRO	KEC	PID.	BIO	REACTOME_MEIOSIS;REACTO
0	0.	NA	.	.	.	.	.	REACTOME_EXTRACELLULAR_		
0	0.	NA	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.		
0	0.	NA	.	MAC	CYT	TRAN.	PID.	.		
0	0	Combined	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.		
0	0.	NA	.	RNA.	TRAN.	PID.	BIO	REACTOME_TRANSCRIPTIONA		
0	0.	NA	.	.	.	.	.	.		
0	0.	NA	.	REG	INTRC	CATI	KEC.	REACTOME_NEURONAL_SYST		
0	0.	NA	.	.	CYST.	.	.	.		

0	0	NA	.	.	.	.	.	.	.
0	0	3-Methylcro	NA	.	.	.	KEC.	.	REACTOME_METABOLISM_OF
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	SYS	ORGCATI	.	.	.	.
0	0	NA	.	CELIEXTIRECE	.	.	.	.	REACTOME_SIGNALING_BY_G
0	0	Leukemia,	NA	.	.	.	PID.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	VIRA	TRAN	KEC	PID	BIO	.
0	0	NA	.	.	.	.	.	.	.
0	0	{?Bladder c	NA	.	.	.	PID.	.	.
0	0	NA	.	SIGNINTRCATI	.	.	.	.	.
0	0	NA	.	ANA	.	KEC.	.	.	.
0	0	NA	.	RNA	TRAN	PID.	.	.	.
0	0	Fetal akine	NA	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	{Congestiv	NA	.	REG INTRAMIN	KEC.	.	.	.
0	0	Deafness,	NA	.	SYS INTR	.	.	.	REACTOME_DIABETES_PATHV
0	0	NA	.	.	.	KEC.	BIO	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	COACH sy	NA	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	BIOF	ACID	KEC.	.	.	REACTOME_NEGATIVE_REGUI
0	0	NA	.	BIOF	ACID	KEC.	.	.	REACTOME_NEGATIVE_REGUI
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	SIGNCYT	GTP	KEC.	.	.	REACTOME_SIGNALING_BY_RI
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	SIGNINTRGABA	KEC.	.	.	.	REACTOME_TRANSMISSION_A
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	PID.	.	REACTOME_DIABETES_PATHV
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	RES	INTRPEPT	.	.	.	.
0	0	NA	.	LIPIE	.	KEC.	.	.	REACTOME_BIOLOGICAL_OXII
0	0	NA	.	.	.	.	.	.	.
0	0	Renal tubu	NA	.	INTRCATI	KEC.	.	.	REACTOME_TRANSMEMBRANI





0	0	NA	CYT						
0	0	NA							
0	0	NA	BIOF	PHOS	KEC	PID	BIO	REACTOME_SIGNALING_BY_W	
0	0	Retinitis p	NA	SEN		KEC	PID	REACTOME_CGMP_EFFECTS;f	
0	0	NA	CELI	ACTII					
0	0	NA	SIGN	NUC	HYDF				
0	0	NA	CELI	CYT		KEC	PID		
0	0	NA							
0	0	NA							
0	0	NA							
0	0	[Memory, ε	NA					REACTOME_SIGNALING_BY_H	
0	0	NA	RNA	CYT		KEC		REACTOME_CYTOSOLIC_TRN/	
0	0	NA	SYS	EXTI		KEC		REACTOME_DEVELOPMENTAL	
0	0	Frank-ter	NA						
0	0	NA							
0	0	NA							
0	0	NA							
0	0	{Cancer pr	NA	ENZ	INTR	TRAN	KEC	PID	REACTOME_NEGATIVE_REGUI
0	0	{Cancer pr	NA	ENZ	INTR	TRAN	KEC	PID	REACTOME_NEGATIVE_REGUI
0	0	{Cancer pr	NA	ENZ	INTR	TRAN	KEC	PID	REACTOME_NEGATIVE_REGUI
0	0	NA							
0	0	NA							REACTOME_TRANSLATION;RE
0	0	Night blind	NA	GLU	INTR	GLUT	KEC		REACTOME_SIGNALING_BY_G
0	0	NA							
0	0	NA	GLY		TRAN	KEC			REACTOME_METABOLISM_OF
0	0	NA	ENE			KEC			REACTOME_METABOLISM_OF
0	0	NA		ORG	HYDF				
0	0	NA		ORG	HYDF				
0	0	NA							
0	0	NA							
0	0	NA							
0	0	Adult i phe	NA	BIO	CELI	TRAN	KEC		
0	0	NA		NUC	DNA				
0	0	Hermansky	NA	ORG	AXO	IDEN			REACTOME_MEMBRANE_TRAF
0	0	NA							
0	0	NA							
0	0	NA							
0	0	NA							
0	0	NA							
0	0	NA							REACTOME_GENERIC_TRANSI
0	0	NA							
0	0	Diabetes rr	NA						
0	0	Hemochroi	NA						
0	0	NA							
0	0	NA		NUC			PID		REACTOME_HOMOLOGOUS_R
0	0	NA							
0	0	NA							
0	0	NA							
0	0	NA		LIGA		KEC			REACTOME_CYTOSOLIC_TRN/
0	0	NA		CYT		KEC	PID	BIO	
0	0	Deafness,	NA				KEC	PID	REACTOME_EXTRACELLULAR
0	0	Deafness,	NA				KEC	PID	REACTOME_EXTRACELLULAR

0	0 {Diabetes,	NA .	SIG	BRU	CATI	(KEC . .	REACTOME_SIGNALLING_BY_I	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	REG .	LIGAI	KEC	PID	BIO( REACTOME_GENERIC_TRANSI	
0	0 .	NA .	REG .	LIGAI	KEC	PID	BIO( REACTOME_GENERIC_TRANSI	
0	0 .	NA .	REG .	LIGAI	KEC	PID	BIO( REACTOME_GENERIC_TRANSI	
0	0 .	NA .	ANA	.	.	KEC . .	REACTOME_TRANSLATION;RE	
0	0 Spermatog	NA .	.	.	.	.	.	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	.	.	.	KEC . .	.	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	RNA	CYT	(TRAN .	.	.	
0	0 .	NA .	ENZ	.	.	PID .	REACTOME_SIGNALING_BY_FC	
0	0 Retinitis piç	NA .	REG .	ENZY	KEC	PID .	.	
0	0 .	NA .	RNA	NUC	TRAN .	.	.	
0	0 Choriodal c	NA .	SEN	INTR .	KEC . .	.	.	
0	0 .	NA .	SIG	INTR	TRAN .	.	.	
0	0 .	NA .	SIG	INTR	TRAN .	.	.	
0	0 .	NA .	.	.	.	PID .	.	
0	0 .	NA .	.	MEM .	.	.	.	
0	0 .	NA .	.	.	.	.	REACTOME_MICRORNA_MIRN,	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	.	.	.	.	.	
0	0 Neuropath	NA .	ORG	PRO	INTE	( .	PID .	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	SYS	.	.	.	REACTOME_EXTRACELLULAR	
0	0 .	NA .	.	.	.	KEC . .	.	
0	0 Hydatidifor	NA .	.	.	.	.	.	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	.	.	.	.	.	
0	0 Maple syru	NA	CMO	CAR	ORGLYAS	KEC . .	REACTOME_METABOLISM_OF_	
0	0 .	NA .	SEN	CYT	(ELEC .	.	.	
0	0 Congenital	NA .	EST	INTR	SUBS .	.	REACTOME_TRANSMEMBRANI	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	POS .	IDEN	.	.	.	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	SYS	.	LIGAI .	.	REACTOME_GENERIC_TRANSI	
0	0 .	NA .	RES	NUC .	KEC	PID .	.	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	.	CYT	(PRO	1 .	.	
0	0 .	NA .	DNA .	NUCL .	.	.	REACTOME_DNA_REPAIR	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	.	.	.	KEC . .	.	
0	0 Muscular d	NA .	MUS	PRO	STRU	KEC	PID	BIO( REACTOME_INTEGRIN_CELL_ç
0	0 Muscular d	NA .	MUS	PRO	STRU	KEC	PID	BIO( REACTOME_INTEGRIN_CELL_ç
0	0 Cardiomyo	NA .	ANA	.	.	.	.	
0	0 .	NA .	ISOF .	OXID .	.	.	.	
0	0 .	NA .	.	.	.	KEC . .	.	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	.	.	.	.	.	
0	0 .	NA .	.	INTRG	_PF .	.	.	
0	0 Hemophag	NA .	MEM .	.	KEC . .	REACTOME_BOTULINUM_NEUI		
0	0 .	NA .	.	.	.	.	.	



0	0.	NA	BIOF INTR SULF KEC.	PID.	REACTOME_CHONDROITIN_SL
0	0.	NA	.	.	.
0	0.	NA	INTE ORG HYDF.	PID.	.
0	0.	NA	.	.	.
0	0.	NA	SIG CYT (KINA).	.	.
0	0	Emery-Dre	ORG SYN, ACTII.	.	REACTOME_MEIOSIS;REACTO
0	0	Emery-Dre	ORG SYN, ACTII.	.	REACTOME_MEIOSIS;REACTO
0	0	Emery-Dre	ORG SYN, ACTII.	.	REACTOME_MEIOSIS;REACTO
0	0.	NA	RES. OXID.	PID.	.
0	0.	NA	.	.	.
0	0	Mental ret	NUC DNA.	.	.
0	0.	NA	.	.	.
0	0	{Microvasc	RNA CYT (OXID KEC	PID, BIO).	.
0	0.	NA	.	.	.
0	0.	NA	.	.	.
0	0	[LPA defici	SYS. PROI.	PID.	REACTOME_METABOLISM_OF_
0	0.	NA	REG. PHO	KEC PID BIO).	.
0	0	Adenocarc	BIOF CYT (ACID, KEC	PID, BIO)	REACTOME_IMMUNE_SYSTEM
0	0.	NA	.	.	.
0	0.	NA	.	.	.
0	0.	NA	CYT.	.	.
0	0.	NA	.	.	.
0	0	Raine sync	.	.	.
0	0.	NA	.	.	.
0	0.	NA	.	.	.
0	0.	NA	RNA NUC.	.	.
0	0.	NA	RNA NUC.	.	.
0	0.	NA	RNA NUC.	.	.
0	0.	NA	.	.	.
0	0.	NA	RES. HYDF.	.	.
0	0.	NA	SULI. SULF KEC.	.	REACTOME_CHONDROITIN_SL
0	0	Immunode	REG MEM/PROI	KEC PID.	REACTOME_DOWNSTREAM_S
0	0.	NA	.	.	.
0	0.	NA	.	.	.
0	0	Spastic pai	.	.	.
0	0.	NA	.	.	.
0	0.	NA	EST/MEM/LIPID.	PID, BIO).	.
0	0.	NA	.	PID.	REACTOME_GASTRIN_CREB_
0	0.	NA	.	.	.
0	0.	NA	.	.	.
0	0.	NA	.	.	.
0	0.	NA	.	.	.
0	0.	NA	.	.	REACTOME_EXTRACELLULAR_
0	0.	NA	.	.	.
0	0.	NA	.	.	.
0	0.	NA	.	KEC.	REACTOME_ABC_FAMILY_PRC
0	0	Ciliary dys	.	.	.
0	0.	NA	.	.	.
0	0.	NA	.	.	.
0	0.	NA	.	KEC.	REACTOME_METABOLISM_OF_
0	0.	NA	PRO CYT (ENZY	KEC.	REACTOME_TRIF_MEDIATED_



0	0.	NA	PRO INTRPHOS.					
0	0.	NA	SIGN NUC TRAN.	PID.	BIO.			
0	0.	NA	SIGN NUC TRAN.	PID.	BIO.			
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	MUL.	.	.	REACTOME_EXTRACELLULAR		
0	0.	NA	NUC STRL.	.	.			
0	0.	NA	.	.	.	REACTOME_O_LINKED_GLYCC		
0	0.	NA	.	.	.			
0	0.	NA	RNA.	RNA.	.	REACTOME_SIGNALING_BY_FI		
0	0.	NA	.	.	.			
0	0.	NA	.	KEC.	.			
0	0.	NA	CYT.	KEC.	BIO	REACTOME_SIGNALING_BY_W		
0	0.	NA	DNA NUC NUCL	KEC.	BIO	REACTOME_ACTIVATION_OF_		
0	0.	NA	.	.	.			
0	0.	NA	MUS.	.	.			
0	0.	NA	CYT.	.	.			
0	0	Hyperlysine	PRO CYT.	KEC.	.	REACTOME_METABOLISM_OF_		
0	0.	NA	.	.	.			
0	0.	NA	SIGN INTR.	KEC.	BIO.			
0	0.	NA	.	.	.			
0	0	Myopathy,	.	KEC.	.	REACTOME_CELL_CELL_COMI		
0	0	Basal cell c	INTR RECE	KEC	PID.	BIO	REACTOME_SIGNALING_BY_G	
0	0.	NA	.	.	.			
0	0.	NA	.	.	.			
0	0.	NA	.	.	.			
0	0.	NA	CYT	PHOS	KEC.	REACTOME_GASTRIN_CREB_S		
0	0.	NA	CYT	PHOS	KEC.	REACTOME_GASTRIN_CREB_S		
0	0.	NA	.	KEC.	.			
0	0	Renal tubu	SYS` CELI.	KEC.	.	REACTOME_INSULIN_RECEPT		
0	0.	NA	.	.	.			
0	0.	NA	.	.	.			
0	0	Cataract 3	.	KEC.	.			
0	0.	NA	BIOF.	KEC.	.	REACTOME_METABOLISM_OF_		
0	0.	NA	.	.	.			
0	0.	NA	.	.	.			
0	0.	NA	.	.	.			
0	0.	NA	.	.	.			
0	0.	NA	.	.	.			
0	0.	NA	.	IDEN	KEC.			
0	0.	NA	.	.	.			
0	0	Cortical dy	.	KEC.	.			
0	0.	NA	.	.	.			
0	0.	NA	.	.	PID.			
0	0.	NA	.	.	.			
0	0	{Alzheimer	CYT	OXID	KEC	PID.	BIO	REACTOME_TETRAHYDROBIO
0	0.	NA	ORG.	.	.	.		
0	0.	NA	SYS` AXO PHOS	KEC	PID.	BIO	REACTOME_DEVELOPMENTAL	
0	0.	NA	.	.	.			
0	0	Cardiomyo	.	KEC.	BIO	REACTOME_ACTIVATED_AMPH		
0	0	Cardiomyo	.	KEC.	BIO	REACTOME_ACTIVATED_AMPH		
0	0.	NA	.	.	.			
0	0.	NA	.	.	.			
0	0	Ventricular	.	.	.			

0	0.	NA	PRO.	ACID	KEC.	REACTOME_IMMUNE_SYSTEM
0	0.	NA	BIOINTRPROT	KEC.		
0	0.	NA	BIOINTRPROT	KEC.		
0	0.	NA				
0	0.	NA				
0	0	Ceroid lipo	NA	SYS	CYT	
0	0.	NA				
0	0.	NA				REACTOME_DEFENSINS;REAC
0	0.	NA				
0	0.	NA				
0	0.	NA	CAL	CELI	IDEN	KEC.
0	0	Occult mac	NA			
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0	Colorectal	NA	REG.	GTPA.	PID.
0	0	Mental retæ	NA	GLY	ORG	TRAN
0	0.	NA				
0	0.	NA				
0	0	Alopecia ui	NA			
0	0.	NA	SIGN.	RECE	KEC	PID
0	0.	NA				
0	0	Persistent	NA	SYS	TRAN.	
0	0.	NA				REACTOME_FACTORS_INVOL
0	0.	NA				
0	0.	NA				
0	0	{Hyperchol	NA		KEC.	
0	0.	NA	EST	CYT	KINA	PID.
0	0.	NA				REACTOME_MEIOSIS;REACTO
0	0.	NA				
0	0.	NA				
0	0	Spastic pai	NA	ORG.		
0	0	Hypogonac	NA	SYS	INTR	TRAN
0	0	Hypogonac	NA	SYS	INTR	TRAN
0	0.	NA			PID.	
0	0.	NA	GAM	CELI.		
0	0.	NA				
0	0.	NA	NEG	NUC	TRAN.	
0	0.	NA	DNA	ORG	MICR	KEC.
0	0.	NA				REACTOME_BASE_EXCISION_
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA	PRO.			
0	0.	NA				
0	0.	NA				

0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	MEM/CYT(	RECE.	PID.	BIO(	.	.
0	0	Cerebellar	NA	.	.	HYDF	KEC.	.	.
0	0	CHARGE ε	NA	.	.	.	PID.	.	.
0	0.	NA	.	.	.	HYDF	KEC.	.	REACTOME_SIGNALING_BY_G
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	SIGN.	RAS_.	PID.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	CYT(LIPID	KEC	PID.	.	REACTOME_DEVELOPMENTAL
0	0	Achromato	NA	.	SEN:	.	PID.	.	.
0	0	Achromato	NA	.	SEN:	.	PID.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	?DECR de	NA	.	.	CYT(OXID.	.	.	REACTOME_MITOCHONDRIAL_
0	0	?DECR de	NA	.	.	CYT(OXID.	.	.	REACTOME_MITOCHONDRIAL_
0	0.	NA	.	GEN.	TRAN	KEC.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	EST).	AUXII.	.	.	.	REACTOME_NEURONAL_SYST
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Ciliary dysl	NA	.	.	.	.	.	.
0	0	Thyroid dys	NA	.	.	.	KEC.	.	.
0	0	Birk-Barel l	NA	.	.	.	.	.	REACTOME_NEURONAL_SYST
0	0	Mental retε	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	SYS	INTRG_PF	KEC.	.	.	.
0	0.	NA	.	SYS	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Amelogenε	NA	.	.	.	.	.	.
0	0	Amelogenε	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Epidermoly	NA	.	.	STRU.	.	.	REACTOME_APOPTOTIC_CLEA
0	0.	NA	.	.	.	TRAN.	PID.	.	.
0	0.	NA	.	.	.	TRAN.	PID.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	{?Schizopht	NA	.	EST/INTRACTI	.	.	.	REACTOME_GLUTAMATE_NEU
0	0	Hydroceph	NA	.	.	.	KEC.	.	.
0	0.	NA	.	.	NUC	TRAN.	PID.	.	REACTOME_RNA_POL_III_TRA
0	0	Bifid nose	NA	.	.	.	.	.	.
0	0	Bifid nose	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.

0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	PID.	REACTOME_TRANSMEMBRANI	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	ORG.	KEC.	.	.	REACTOME_TCA_CYCLE_AND	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	GAM.	PHOS.	.	.	REACTOME_CELL_CELL_COMI	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	INTR.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	CELI.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Obesity, hy	NA	ENZ' INTRGRO	KEC	PID.	.	REACTOME_SIGNALLING_BY_I	.
0	0.		NA	.	.	.	.	.	.
0	0.		NA	.	.	.	.	.	.
0	0.		NA	SYS'	.	KEC	PID.	REACTOME_SIGNALLING_BY_I	.
0	0.		NA	.	CYT(.	KEC.	.	REACTOME_CYTOSOLIC_TRN/	.
0	0.		NA	.	.	.	.	.	.
0	0.		NA	BIOF.	NUCL.	.	.	.	.
0	0.		NA	.	NUC.	.	.	.	.
0	0.		NA	.	NUC.	.	.	.	.
0	0.		NA	RNA NUC TRAN.	.	.	.	.	.
0	0.		NA	.	NUC PROT	KEC	PID.	.	.
0	0.		NA	.	.	.	.	.	.
0	0.		NA	.	.	.	.	.	.
0	0.		NA	.	.	.	.	.	.
0	0.		NA	.	.	.	.	.	.
0	0.		NA	.	.	.	.	.	.
0	0.		NA	.	.	.	.	.	.
0	0	Porphyrin,	NA	COF.	HYDF	KEC.	BIO	REACTOME_METABOLISM_OF	.
0	0.		NA	.	.	.	.	REACTOME_EXTRACELLULAR	.
0	0.		NA	.	.	.	.	REACTOME_EXTRACELLULAR	.
0	0.		NA	.	.	.	.	REACTOME_EXTRACELLULAR	.
0	0.		NA	.	.	.	.	.	.
0	0.		NA	.	EXTIMET/.	.	.	REACTOME_DIABETES_PATHV	.

0	0	Microceph	NA	ORGKINA	REACTOME_CELL_CYCLE;REA
0	0		NA		
0	0		NA		
0	0		NA	PID	
0	0		NA	PID	
0	0		NA	NUC	
0	0		NA	POS CYT(NUCL	
0	0		NA	PID	REACTOME_SIGNALLING_BY_I
0	0		NA		
0	0	Charcot-Mi	NA		REACTOME_IMMUNE_SYSTEM
0	0	Epileptic er	NA		REACTOME_Glutamate_NEU
0	0		NA		
0	0		NA	NUC CYT(ACID_KEC	REACTOME_METABOLISM_OF_
0	0	Telangiect	NA	REG INTR	PID
0	0		NA	STRU	PID
0	0	Epileptic er	NA	ORGACTII KEC PID BIO	REACTOME_APOPTOTIC_CLEA
0	0	Epileptic er	NA	ORGACTII KEC PID BIO	REACTOME_APOPTOTIC_CLEA
0	0	Epileptic er	NA	ORGACTII KEC PID BIO	REACTOME_APOPTOTIC_CLEA
0	0	Epileptic er	NA	ORGACTII KEC PID BIO	REACTOME_APOPTOTIC_CLEA
0	0		NA	REG UBIC ACID	
0	0		NA	AMIN CYT	REACTOME_METABOLISM_OF_
0	0		NA	AMIN CYT	REACTOME_METABOLISM_OF_
0	0		NA	GLY(ORG HYDF_KEC	REACTOME_METABOLISM_OF_
0	0	?Carnitine	NA	GEN	KEC
0	0	?Carnitine	NA	GEN	KEC
0	0		NA	ENZ	KEC PID BIO
0	0		NA	SYS INTR	
0	0	Amyotroph	NA	DNA NUC DNA	
0	0		NA		
0	0		NA	NUC	REACTOME_RNA_POL_III_TRA
0	0		NA	GTPA_KEC PID BIO	REACTOME_SIGNALLING_BY_I
0	0		NA	GLY	KEC
0	0		NA	CYT	
0	0		NA		
0	0		NA		
0	0	Dopamine	NA	CELI CYT	KEC BIO
0	0	Ehlers-Dar	NA	PRO	KEC PID
0	0	Ehlers-Dar	NA	PRO	KEC PID
0	0	Ehlers-Dar	NA	PRO	KEC PID
0	0		NA		
0	0		NA		
0	0	Aortic valv	NA	MUS NUC	KEC PID BIO
0	0	Aortic valv	NA	MUS NUC	KEC PID BIO
0	0	Aortic valv	NA	MUS NUC	KEC PID BIO
0	0		NA		
0	0		NA		
0	0		NA	POS	KEC PID BIO
0	0	Mental ret	NA	OLIG INTR CATI	KEC
0	0	Hypophosph	NA	REG MEM CATI	
0	0		NA		
0	0		NA		
0	0		NA		
0	0	Kleefstra s	NA	ONE	HIST(KEC
0	0		NA		

0	0.	NA	REG CYT(HYDF.		
0	0.	NA	HYDF.		
0	0.	NA	PRO ORGMET/.		
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA	MAIN NUC.		
0	0.	NA	MAIN NUC.		
0	0.	NA			
0	0.	NA			
0	0	Megaloblast	EST/MEM/PRO1.		REACTOME_METABOLISM_OF_
0	0	Megaloblast	EST/MEM/PRO1.		REACTOME_METABOLISM_OF_
0	0.	NA			
0	0.	NA	NEG CYT(ENZY.		
0	0.	NA	SYS CYT(.		
0	0.	NA			
0	0.	NA			
0	0	Deafness,	PRO ORGHYDF.		
0	0.	NA			REACTOME_INTEGRIN_CELL_
0	0	Thrombocy			
0	0	Thrombocy			
0	0.	NA			
0	0.	NA	MUS CYT(ACTII.	PID.	
0	0.	NA			
0	0.	NA	NUC.		
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0	Myasthenic	CYT(.	KEC.	REACTOME_PHOSPHOLIPID_M
0	0.	NA			
0	0	Deafness,	REG NON.		
0	0.	NA			
0	0.	NA			
0	0	Thyroid pa	STRU KEC.		
0	0.	NA			
0	0.	NA	DNA ORGDNA_.		
0	0.	NA	SYS PRO CARE.	PID.	REACTOME_EXTRACELLULAR_
0	0.	NA	CELI ORG NUCL.	PID.	
0	0	Hemophag	MUL.	KEC PID BIO(.	
0	0	Deafness,	REG NON.		
0	0.	NA	CYT(OXID KEC.		
0	0.	NA			
0	0.	NA	PRO CATI(KEC PID BIO(		REACTOME_SIGNALING_BY_G
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA	REG MEM CARE.	PID.	



0	0	NA	.	.	.	.	.	.	.
0	0	Cone-rod c	NA	.	.	.	.	.	.
0	0	NA	.	ORG.	.	.	.	.	.
0	0	NA	.	.	.	KEC.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	SYS` MEM.	.	PID.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	Rhabdomy	NA	.	.	KEC.	.	REACTOME_BIOLOGICAL_OXID	.
0	0	NA	.	.	.	.	.	.	.
0	0	Agammagl	NA	.	SYS`	MOLIE	KEC	PID	BIO(
0	0	NA	.	.	.	.	.	.	REACTOME_ANTIGEN_ACTIVAT
0	0	Spastic pai	NA	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	Urofacial s	NA	.	.	HYDF	KEC.	.	REACTOME_HS_GAG_DEGRAI
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	KEC.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	Epidermoly	NA	.	SYS` INTR.	.	PID.	.	REACTOME_CELL_CELL_COMI
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	REACTOME_SIGNALLING_BY_I
0	0	NA	.	.	RECE.	PID.	.	.	REACTOME_DEVELOPMENTAL
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	RNA	CYT(	RNA_	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	CELICYT(GTPA	KEC	PID	BIO(	.	REACTOME_DEVELOPMENTAL
0	0	NA	.	CELICYT(GTPA	KEC	PID	BIO(	.	REACTOME_DEVELOPMENTAL
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	KEC.	BIO(	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	KEC	PID.	.	REACTOME_METABOLISM_OF_
0	0	NA	.	.	.	KEC	PID.	.	REACTOME_METABOLISM_OF_
0	0	NA	.	.	.	KEC	PID.	.	REACTOME_METABOLISM_OF_
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	PRO.	KEC.	.	.	.	REACTOME_SIGNALING_BY_W
0	0	NA	.	SYS` EXT	TIENZY.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	0 Epileptic er	NA	.	EST/ORG	ACTI'	.	.	.
0	0	NA	.	.	.	KEC.	.	.	REACTOME_SIGNALLING_BY_I
0	0	NA	.	.	.	.	.	.	.
0	0	{Pulmonar}	NA	.	.	.	.	.	REACTOME_O_LINKED_GLYCC
0	0	{Pulmonar}	NA	.	.	.	.	.	REACTOME_O_LINKED_GLYCC
0	0	{Pulmonar}	NA	.	.	.	.	.	REACTOME_O_LINKED_GLYCC
0	0	{Pulmonar}	NA	.	.	.	.	.	REACTOME_O_LINKED_GLYCC

0	0 {Pulmonary	NA	.	.	.	.	.	REACTOME_O_LINKED_GLYCC		
0	0 Segawa sy	NA	.	ANA	.	OXID	KEC	PID	BIO	REACTOME_METABOLISM_OF
0	0	NA	.	.	.	.	.	.	.	.
0	0 Immunode	NA	.	PHO	INTR	.	KEC	PID	.	REACTOME_IMMUNOREGULAT
0	0	NA	.	.	INTR	SUB	KEC	.	.	.
0	0	NA	.	.	INTR	SUB	KEC	.	.	.
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	KEC	.	.	REACTOME_SIGNALING_BY_G
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	REG	NUC	TRAN	KEC	PID	.	.
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	RNA	NUC	.	KEC	PID	.	REACTOME_BMAL1_CLOCK_NI
0	0	NA	.	.	.	.	.	.	.	.
0	0 Ovarian ca	NA	.	.	.	HYDF	KEC	.	.	.
0	0	NA	.	.	.	HYDF	KEC	.	BIO	REACTOME_INSULIN_RECEPT
0	0 Rickets du	NA	.	.	.	.	.	.	.	REACTOME_METABOLISM_OF
0	0	NA	.	.	.	.	.	PID	.	.
0	0	NA	.	.	.	.	.	PID	.	.
0	0 Deafness,	NA	.	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	KEC	.	BIO	REACTOME_METABOLISM_OF
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	REG	.	G_PF	.	PID	.	REACTOME_TRIF_MEDIATED_
0	0 Glycogen s	NA	.	.	CYT	OXID	KEC	PID	BIO	REACTOME_PYRUVATE_META
0	0 Hyperekple	NA	.	CELI	.	CATI	.	.	.	REACTOME_TRANSMEMBRANI
0	0	NA	.	SYS	.	.	.	.	.	.
0	0	NA	.	CELI	ORG	.	.	PID	BIO	REACTOME_APOPTOTIC_CLEA
0	0	NA	.	.	.	.	.	.	.	.
0	0 Hemolytic ;	NA	.	REG	CELI	.	KEC	.	.	.
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	KEC	.	.	REACTOME_TRIGLYCERIDE_B
0	0	NA	.	.	IDEN	.	.	.	.	.
0	0	NA	.	EST	ORG	.	.	PID	.	REACTOME_CELL_CYCLE;REA
0	0	NA	.	.	.	.	KEC	.	.	.
0	0	NA	.	.	.	.	KEC	.	.	REACTOME_SIGNALING_BY_G
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	KEC	.	.	REACTOME_SIGNALING_BY_G
0	0	NA	.	.	.	.	KEC	.	.	REACTOME_SIGNALING_BY_G
0	0	NA	.	.	.	.	KEC	.	.	REACTOME_MRNA_DECAY_BY
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	PHO	.	OXID	KEC	.	.	REACTOME_PPARA_ACTIVATE
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	ORG	.	.	.	PID	.	.
0	0	NA	.	RNA	NUC	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.	REACTOME_PROCESSING_OF
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.	.
0	0	NA	.	CELI	.	.	KEC	PID	BIO	REACTOME_SIGNALLING_BY_I
0	0 McArdle di	NA	.	GLU	.	TRAN	KEC	.	BIO	REACTOME_GLYCOGEN_BREA

0	0	NA	BIOFCYT(ACID)KEC.	REACTOME_DIABETES_PATHW
0	0	NA	NUC KINA(KEC.	
0	0	NA	KEC.	REACTOME_ACTIVATION_OF_
0	0	NA	EST/ CATI(.	REACTOME_NEURONAL_SYST
0	0	NA	PRO ORGPHOS(KEC PID) BIO(.	
0	0	NA		
0	0	Metastasis NA	CELI. GTP(KEC PID).	REACTOME_RAP1_SIGNALLIN
0	0	Metastasis NA	CELI. GTP(KEC PID).	REACTOME_RAP1_SIGNALLIN
0	0	Aicardi-Go NA	KEC.	
0	0	NA		
0	0	NA	ORG.	REACTOME_MHC_CLASS_II_AI
0	0	NA	PRO.	
0	0	NA		
0	0	NA	BIOF. PHOS(KEC PID) BIO(	REACTOME_DOWNREGULATIC
0	0	Mitochondr NA	ORG. KEC.	REACTOME_TCA_CYCLE_AND
0	0	Osteopetr NA	POS INTR. KEC.	REACTOME_INSULIN_RECEPT(
0	0	[Skin/hair/ε NA		
0	0	[Skin/hair/ε NA		
0	0	NA	SIG( CYT(.	
0	0	Smith-Lem NA	BIO(ORG OXID)KEC.	REACTOME_METABOLISM_OF_
0	0	Deafness, NA		
0	0	NA	EST/ CELI VITAI.	
0	0	NA		
0	0	NA		
0	0	NA	REG CYT(RAS_KEC PID).	REACTOME_SIGNALING_BY_RI
0	0	NA		
0	0	NA	BIOF. PRO(.	
0	0	NA	LIPII INTR. KEC.	REACTOME_GLYCOSPHINGOL
0	0	NA		REACTOME_TRANSMEMBRANI
0	0	NA		
0	0	NA	DNA CYT(.	
0	0	NA		
0	0	NA		
0	0	NA	MEM PHOS.	
0	0	NA	G_PI INTR GLUT KEC.	
0	0	NA		
0	0	NA		
0	0	Asphyxiatir NA	ORG CYT( KEC.	REACTOME_MHC_CLASS_II_AI
0	0	NA	PHOS(KEC.	REACTOME_NITRIC_OXIDE_ST
0	0	NA		
0	0	NA	CELI. CATI(KEC.	REACTOME_SIGNALING_BY_EI
0	0	Alpha-metf NA	CYT(TRAN KEC.	REACTOME_METABOLISM_OF_
0	0	Ataxia-tela NA	DNA. PHOS(KEC PID) BIO(	REACTOME_MEIOSIS;REACTO
0	0	NA		
0	0	NA		
0	0	NA	ENZ' CYT(NUCL. PID).	
0	0	NA	MITCORG SEQL.	REACTOME_CELL_CYCLE;REA
0	0	NA	POS CELI PRO(KEC.	REACTOME_CELL_CELL_COMI
0	0	NA	BIOF. NUCL. PID.	
0	0	NA		
0	0	Atrial fibrill NA	EST/ INTR CATI(.	REACTOME_DEVELOPMENTAL
0	0	NA		
0	0	NA	EST/ ORG.	REACTOME_COPI_MEDIATED_
0	0	NA	RIBC RNA_KEC.	REACTOME_MRNA_DECAY_BY

0	0	Leukemia, NA	.	.	.	KEC	PID	BIO	(	REACTOME_SIGNALING_BY_R			
0	0	Leukemia, NA	.	.	.	KEC	PID	BIO	(	REACTOME_SIGNALING_BY_R			
0	0	Deafness, NA	.	SEN	:	.	.	.	.	.			
0	0	.	NA	.	.	KEC	.	.	REACTOME_SIGNALING_BY_G				
0	0	.	NA	.	.	KEC	.	.	.				
0	0	.	NA	.	SYS	INTR	RECE	.	.				
0	0	.	NA	.	.	.	.	.	.				
0	0	Leigh synd	NA	.	CYT	(	.	.	.				
0	0	.	NA	.	CELI	CYT	(	KEC	PID	.			
0	0	.	NA	.	.	.	.	.	.				
0	0	.	NA	.	.	.	.	.	.				
0	0	{Ovarian c	NA	.	CELI	INTR	PEPT	.	.				
0	0	.	NA	.	.	.	.	.	.				
0	0	.	NA	.	.	.	.	.	.				
0	0	.	NA	.	.	.	.	.	.				
0	0	.	NA	.	.	.	.	.	.				
0	0	.	NA	.	.	.	.	.	.				
0	0	Neuropath	NA	.	EST	/	CYT	(	NUCL	.			
0	0	Brugada s	NA	.	REG	ORGC	ATI	(	KEC	.			
0	0	Brugada s	NA	.	REG	ORGC	ATI	(	KEC	.			
0	0	Brugada s	NA	.	REG	ORGC	ATI	(	KEC	.			
0	0	.	NA	.	.	.	.	.	.				
0	0	.	NA	.	POS	MAC	.	KEC	PID	BIO	(	REACTOME_CELL_CYCLE;REA	
0	0	.	NA	.	.	SING	.	.	.	.			
0	0	.	NA	.	EST	/	INTR	CATI	(	.	REACTOME_NEURONAL_SYST		
0	0	Periodic fe	NA	.	RNA	INTR	RECE	KEC	PID	BIO	(	REACTOME_EXTRINSIC_PATH'	
0	0	.	NA	.	SYS	.	.	.	.	.			
0	0	OKT4 epitc	NA	.	SYS	MEM	KINA	:	KEC	PID	BIO	(	REACTOME_NEF_MEDIATES_L
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	INTR	.	.	.	.	.			
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	.	STRL	.	PID	.	.			
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	.	.	.	.	.	.			
0	0	Leukemia, NA	.	.	TRAN	KEC	.	.	.	.			
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	.	.	KEC	.	BIO	(	REACTOME_SYNTHESIS_OF_F		
0	0	.	NA	.	.	.	KEC	.	BIO	(	REACTOME_SYNTHESIS_OF_F		
0	0	.	NA	.	.	.	.	.	.	.			
0	0	Hyperbiliru	NA	.	EST	/	INTR	ACTI	(	.	REACTOME_BILE_ACID_AND_E		
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	EST	/	CYT	(	.	.			
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	.	.	.	.	.	REACTOME_O_LINKED_GLYCC			
0	0	.	NA	.	.	.	.	.	.	REACTOME_O_LINKED_GLYCC			
0	0	.	NA	.	.	.	.	.	.	.			
0	0	.	NA	.	.	.	.	.	.	.			

0	0.	NA	.	.	KEC	PID.	REACTOME_SIGNALLING_BY_I
0	0.	NA	.	CYT	.	.	.
0	0.	NA	.	.	KEC	.	.
0	0.	NA	.	.	KEC	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	RNA	TRAN	PID.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0	Ichthyosis	NA	.	SYS	ORG	STRL.
0	0	White spor	NA	.	ANA	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	INTRIDEN	KEC	PID.
0	0.	NA	.	.	PRO	CYT	(KINA;KEC
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0	Deafness,	NA	.	SEN	ORG	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	LIPI	INTRC	ATI(KEC
0	0.	NA	.	.	LIPI	INTRC	ATI(KEC
0	0.	NA	.	.	LIPI	INTRC	ATI(KEC
0	0.	NA	.	.	LIPI	INTRC	ATI(KEC
0	0.	NA	.	.	CYT	KEC	.
0	0	Spermatog	NA	.	.	.	.
0	0.	NA	.	.	RNA	.	.
0	0.	NA	.	.	RNA	.	.
0	0.	NA	.	.	NUC	TRAN	PID.
0	0.	NA	.	.	.	.	REACTOME_ASSOCIATION_OF
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	PID	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0	Deafness,	NA	.	.	.	.
0	0	Deafness,	NA	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	NUC	.	.
0	0.	NA	.	.	BIOF	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	SIGN	PROT	PID
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	CYT	(HYDF	.
0	0	Arthrogryp	NA	.	CYT	(STRL	REACTOME_STRIATED_MUSCI
0	0.	NA	.	.	MUL	INTRC	CARE.
0	0.	NA	.	.	DNA	NUC	DAM/KEC
0	0.	NA	.	.	.	.	.
0	0	Porokeratc	NA	.	.	.	.
0	0.	NA	.	.	DAM/	.	REACTOME_DNA_REPAIR
0	0.	NA	.	.	.	.	.

0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	SIGN	CYT(	ACID.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0	Transpositi	NA	.	.	.	.	.	REACTOME_DEVELOPMENTAL	.
0	0	Spermatog	NA	.	SYS	CELIOXID	KEC.	BIO(	REACTOME_LATENT_INFECTIC	.
0	0.	NA	.	PRO.	PHO	KEC	PID.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	REACTOME_METABOLISM_OF_	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	ORGRNA_.	.	.	.	REACTOME_INTERFERON_GAI	.
0	0.	NA	.	SIGN	INTRCATI(	KEC.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	M_PI	ORGP	RO1.	PID.	.	REACTOME_CELL_CYCLE;REA	.
0	0.	NA	.	MIT	ORG.	.	.	.	REACTOME_CELL_CYCLE;REA	.
0	0.	NA	.	.	.	.	.	.	REACTOME_MEMBRANE_TRAF	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	KEC	PID.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	KEC.	.	REACTOME_O_LINKED_GLYCC	.
0	0.	NA	.	MITC.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	REACTOME_SIGNALING_BY_FC	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0	Muscular d	NA	.	MUS	PRO.	KEC.	.	.	.
0	0.	NA	.	MAC.	.	.	KEC.	BIO(	.	.
0	0	Keratosis li	NA	.	.	.	KEC.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	DNA	ORG	HYDF	KEC	PID.	REACTOME_CELL_CYCLE;REA	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0	Pulmonary	NA	.	.	.	KEC	PID.	.	.
0	0.	NA	.	BIO	CYT(	TRAN.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	PID.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	CYT(	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	EST/	INTR.	.	.	.	.	.
0	0	Propionica	NA	.	.	LIGA	KEC.	.	REACTOME_MITOCHONDRIAL_	.
0	0.	NA	.	.	.	.	.	.	.	.

0	0	NA	SYS <sup>+</sup> NUC ACTII.		
0	0	Angiopathy	NA	KEC	PID, BIO( REACTOME_DEVELOPMENTAL
0	0	NA		KEC.	REACTOME_MITOCHONDRIAL_
0	0	NA			
0	0	NA			
0	0	NA			
0	0	NA			PID.
0	0	NA	SIGN.	RECE.	
0	0	NA			
0	0	NA			
0	0	NA			
0	0	NA			
0	0	NA	DNA, ORG	NUCL.	BIO(.
0	0	NA			
0	0	NA	RNA.	TRAN.	REACTOME_RNA_POL_II_TRAN
0	0	NA			
0	0	Lysinuric p	NA	EST/INTR.	REACTOME_CELL_SURFACE_I
0	0	NA			
0	0	NA			
0	0	NA			
0	0	NA			
0	0	NA			
0	0	NA			
0	0	NA			
0	0	NA			
0	0	NA			
0	0	NA			
0	0	Fanconi ar	NA		PID. REACTOME_FANCONI_ANEMIA/
0	0	NA			
0	0	NA			
0	0	{Asthma, a	NA	SIGN INTR	RHOI KE C. REACTOME_SIGNALING_BY_G
0	0	NA			
0	0	NA			KEC
0	0	NA			KEC
0	0	NA			KEC
0	0	NA			KEC
0	0	NA			KEC
0	0	NA			KEC
0	0	NA	CYT(	LIGA(	KEC. REACTOME_METABOLISM_OF_
0	0	NA			
0	0	Molybdenu	NA		BIO( REACTOME_METABOLISM_OF_
0	0	Bleeding di	NA	FOC ADH INTE(	KEC
0	0	NA			PID, BIO( REACTOME_CELL_CELL_COMI
0	0	NA			
0	0	NA			
0	0	NA			
0	0	Glaucoma	NA	EST/PRO.	
0	0	NA			
0	0	NA			
0	0	NA			
0	0	Spinoceret	NA		REACTOME_DOUBLE_STRAND
0	0	NA			
0	0	NA			
0	0	NA	SIGN INTR.		REACTOME_GASTRIN_CREB_5
0	0	Hydroceph	NA	REG INSC	PRO1.
0	0	NA			

0	0.	NA	.	.	.	.	REACTOME_INTERFERON_ALF			
0	0	Goiter, mul	NA	MAC.	HYDF.	PID.	REACTOME_MICRORNA_MIRN			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	MUL	EXTI.	PID.	REACTOME_ACTIVATED_NOTC			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	BIO	CELI	NUCL.	.			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	.	.	.	REACTOME_MHC_CLASS_II_AI			
0	0.	NA	.	.	.	.	.			
0	0.	NA	.	CELI.	RECE.	.	.			
0	0	Breast can	NA	REG	MEM	PHO	KEC	PID	BIO	REACTOME_SIGNALLING_BY_I
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	SYS	INTR	RECE	KEC	PID.	.	REACTOME_ACTIVATED_NOTC
0	0.	NA	.	RNA.	.	.	.	.	.	REACTOME_RNA_POL_III_TRA
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	SYS	CYT	RAS_	KEC.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0	[Skin/hair/ε	NA	.	.	.	KEC.	.	.	REACTOME_TRANSMEMBRANI
0	0	[Skin/hair/ε	NA	.	.	.	KEC.	.	.	REACTOME_IMMUNE_SYSTEM
0	0.	NA	.	.	.	.	.	.	.	REACTOME_IMMUNE_SYSTEM
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	REACTOME_TRANSMISSION_A
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	EST/.	CATI	KEC.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	KEC.	BIO	.	REACTOME_DEVELOPMENTAL
0	0	Platelet PL	NA	REG.	LIPA	KEC	PID.	.	.	REACTOME_GASTRIN_CREB_
0	0.	NA	.	.	.	.	.	.	.	REACTOME_DEVELOPMENTAL
0	0.	NA	.	.	.	.	.	.	.	REACTOME_DEVELOPMENTAL
0	0	Spinoceret	NA	.	.	.	.	.	.	.
0	0.	NA	.	ORG.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	KEC.	.	.	REACTOME_METABOLISM_OF_



0	0 Deafness,	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0 ?Cataract,	NA	.	SEN	.	.	KEC	.	.	.
0	0.	NA	.	SIG	.	.	.	.	.	.
0	0.	NA	.	.	.	.	KEC	.	REACTOME_DEVELOPMENTAL	
0	0 Acromicric	NA	.	SYS	PRO	CATI	.	PID	REACTOME_INTEGRIN_CELL_	
0	0 Acromicric	NA	CMO	SYS	PRO	CATI	.	PID	REACTOME_INTEGRIN_CELL_	
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	REACTOME_TRANSMEMBRANI	
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0	Griscelli sy	NA	.	.	CYT	.	.	REACTOME_DIABETES_PATHV	
0	0.	NA	.	EST	INTRACTI	.	.	.	REACTOME_TRANSMEMBRANI	
0	0.	NA	.	MAC	.	.	KEC	.	.	.
0	0	Combined	NA	.	.	.	KEC	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0	Ceroid lipo	NA	.	REG	ORG	PRO	.	.	.
0	0.	NA	.	MUS	INTRCOLL	KEC	PID	.	REACTOME_INTEGRIN_CELL_	
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0	Bardet-Bie	NA	.	CEN	ORG	MICR	.	.	.
0	0	Adrenal ins	NA	.	BIO	.	OXY	KEC	REACTOME_METABOLISM_OF	
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0	Tyrosinemi	NA	.	CAR	.	.	KEC	REACTOME_METABOLISM_OF	
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	CEL	.	.	PID	BIO	REACTOME_SIGNALING_BY_R	
0	0.	NA	.	CYT	.	.	.	.	.	.
0	0	Mitochondr	NA	.	DNA	CYT	NUCL	.	.	.
0	0.	NA	.	REG	INTRCATI	.	.	.	REACTOME_TRANSMEMBRANI	
0	0	Acrocallos	NA	.	.	.	.	.	.	.
0	0	Acrocallos	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0	Weill-Marc	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	CEL	.	SER	II	.	REACTOME_SIGNALLING_BY_I	
0	0.	NA	.	.	.	.	KEC	.	.	.

0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	SIGN.	GTPA.	.	.	.	REACTOME_SIGNALING_BY_G	.	
0	0.	NA	.	.	.	KEC	PID.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	REG	ORG.	.	.	.	REACTOME_SIGNALING_BY_RI	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	REG.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0	Lipase defi	NA	.	.	.	.	.	.	.	
0	0	Somatosta	NA	.	SIGN	INTRNEUF	KEC.	.	REACTOME_SIGNALING_BY_G	.	
0	0.	NA	.	BIO	NUC.	KEC	PID.	.	REACTOME_MEIOSIS;REACTO	.	
0	0.	NA	.	REG.	PRO1.	.	.	.	.	.	
0	0.	NA	.	REG.	PRO1.	.	.	.	.	.	
0	0.	NA	.	REG.	PRO1.	.	.	.	.	.	
0	0.	NA	.	REG.	PRO1.	.	.	.	.	.	
0	0.	NA	.	REG.	PRO1.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0	Osteopetrc	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	EST	CYT	KINA	KEC	PID.	.	.	
0	0.	NA	.	BIO	RIBC	STRU	KEC.	.	REACTOME_TRANSLATION;RE	.	
0	0	Myopathy,	NA	.	.	.	.	.	REACTOME_MITOCHONDRIAL_	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	POS	UBI	ACID.	.	.	.	.	
0	0.	NA	.	.	.	KEC.	.	.	REACTOME_DEVELOPMENTAL	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	REACTOME_GENERIC_TRANSI	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0	Fanconi ar	NA	.	.	.	.	.	.	.	
0	0	Rubinstein	NA	.	RNA	CYT	TRAN	KEC	PID	BIO	REACTOME_DEVELOPMENTAL
0	0	Rubinstein	NA	.	RNA	CYT	TRAN	KEC	PID	BIO	REACTOME_DEVELOPMENTAL
0	0	Rubinstein	NA	.	RNA	CYT	TRAN	KEC	PID	BIO	REACTOME_DEVELOPMENTAL
0	0.	NA	.	.	INTR	PHO	KEC	PID.	REACTOME_SIGNALLING_BY_I	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	NON	STRU.	.	.	.	.	
0	0.	NA	.	IMMI.	RNA_	KEC.	.	.	REACTOME_INTERFERON_GAI	.	
0	0.	NA	.	IMMI.	RNA_	KEC.	.	.	REACTOME_INTERFERON_GAI	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	CELI	INTR	STRU.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0	Lissencept	NA	.	CEN	ORG	MICR.	.	.	.	
0	0.	NA	.	EST	INTR	HYDF	KEC	PID.	REACTOME_ABC_FAMILY_PRC	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	BIO	CYT	PHO	.	.	REACTOME_METABOLISM_OF_	.	



0	0.	NA	.	.	.	.	.	REACTOME_METABOLISM_OF_
0	0.	NA	.	.	.	.	.	REACTOME_METABOLISM_OF_
0	0	Hyperalph	NA	REG	EXTI	LIPID.	.	REACTOME_HDL_MEDIATED_L
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	MAC.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	INTRCATI	.	.	.	REACTOME_TRANSMEMBRANI
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	RNA	NUC	CATI	.	.
0	0.	NA	.	PRO	EXTI	.	.	.
0	0.	NA	.	REG	INTRCATI	.	.	REACTOME_TRANSMEMBRANI
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	DNA	ORGS	SING.	PID.	REACTOME_MEIOSIS;REACTO
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	REG	ADH	KINA	KEC	PID
0	0.	NA	.	.	.	.	.	REACTOME_INTEGRIN_CELL_
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0	Autoinflam	NA	.	.	KEC	PID.	REACTOME_ANTIGEN_ACTIVAT
0	0	Malonyl-Co	NA	COF	CYT	LYAS	KEC.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	RNA	.	RNA	.	REACTOME_RNA_POL_I_TRAN
0	0.	NA	.	.	.	.	.	.
0	0	Lympheder	NA	SYS	NUC	TRAN	.	.
0	0.	NA	.	.	.	.	.	.
0	0	Huntington	NA	.	.	.	.	.
0	0	Brittle corn	NA	.	.	.	.	.
0	0.	NA	.	.	LYAS	KEC.	.	REACTOME_METABOLISM_OF_
0	0.	NA	.	CELI	.	PID.	.	.
0	0.	NA	.	INTE	.	PHOS	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0	Glomerulo	NA	.	ORG	.	.	.
0	0	Retinitis pi	NA	RNA	ORGR	RNA_KEC	.	REACTOME_PROCESSING_OF_
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	RNA	.	TRAN	PID	BIO
0	0.	NA	.	DNA	ORGT	TELC	PID.	REACTOME_METABOLISM_OF_
0	0.	NA	.	DNA	ORGT	TELC	PID.	REACTOME_METABOLISM_OF_
0	0.	NA	.	RNA	.	TRAN	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	KEC.	BIO	REACTOME_TRANSMISSION_A
0	0.	NA	.	ORG	.	.	.	.
0	0.	NA	.	BIOF	.	KEC.	BIO	REACTOME_IMMUNE_SYSTEM

0	0.	NA	.	.	.	PID, BIO(
0	0.	NA	.	EST, CYT(	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	REACTOME_TRANSMEMBRANI
0	0.	NA	.	MEM/ CARE.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	NUC.	KEC.	BIO( REACTOME_MICRORNA_MIRN,
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	PID.
0	0.	NA	.	NEG.	TRAN.	REACTOME_PHOSPHOLIPID_M
0	0.	NA	.	GAMORG.	.	.
0	0.	NA	.	GAMORG.	.	.
0	0.	NA	.	SULIINTRSULF	KEC.	REACTOME_HS_GAG_BIOSYN
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	RNA.	TRAN.	PID, BIO( REACTOME_DEVELOPMENTAL
0	0.	NA	.	RNA.	TRAN.	PID, BIO( REACTOME_DEVELOPMENTAL
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0	Deafness,	NA	SEN:	.	.
0	0	Deafness,	NA	SEN:	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	RNA.	PHO( KEC	PID, BIO( REACTOME_TRIF_MEDIATED_
0	0	{Hypertens	NA	MUL CYT( OXID	KEC	PID, BIO( REACTOME_LATENT_INFECTIC
0	0.	NA	.	INTRCATI(	.	REACTOME_TRANSMEMBRANI
0	0.	NA	.	INTRCATI(	.	REACTOME_TRANSMEMBRANI
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	CELI.	.	REACTOME_SIGNALING_BY_F(
0	0	{Anxiety-re	NA	REG INTRACTI(	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	KEC.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	NUC.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	KEC.	REACTOME_SIGNALLING_BY_I
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	.	TRAN.	.
0	0.	NA	.	.	.	.
0	0.	NA	.	MEM/ CATI(	KEC.	REACTOME_DEVELOPMENTAL
0	0.	NA	.	BIO(	STRU	KEC.
0	0.	NA	.	.	.	REACTOME_TRANSLATION;RE

0	0	NA	.	.	.	.	.	.	.	
0	0	Adenocarc	NA	SYS	EXTIPHO	KEC	PID	.	REACTOME_DEVELOPMENTAL	
0	0	NA	.	REG	INTR	.	KEC	BIO	REACTOME_SIGNALING_BY_G	
0	0	NA	.	SYS	.	.	.	.	.	
0	0	NA	.	MEI	ORG	.	.	.	.	
0	0	NA	.	.	CYT	.	.	.	.	
0	0	NA	.	.	CYT	.	.	.	.	
0	0	Hyper-IgE	NA	RNA	CYT	RECE	KEC	PID	BIO	REACTOME_SIGNALLING_BY_I
0	0	Hyper-IgE	NA	RNA	CYT	RECE	KEC	PID	BIO	REACTOME_SIGNALLING_BY_I
0	0	Hyper-IgE	NA	RNA	CYT	RECE	KEC	PID	BIO	REACTOME_SIGNALLING_BY_I
0	0	NA	.	COF	.	PHO	KEC	.	REACTOME_VITAMIN_B5_PAN	
0	0	Pseudohyp	NA	EST	CEL	NUCL	.	.	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	SIG	INTR	PHO	.	.	.	
0	0	NA	.	SIG	INTR	PHO	.	.	.	
0	0	NA	.	SIG	INTR	PHO	.	.	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	Osteopetr	NA	.	.	.	.	.	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	.	.	.	KEC	.	REACTOME_TRANSMISSION_A	
0	0	NA	.	.	CYT	EXOF	.	.	REACTOME_IMMUNE_SYSTEM	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	BIO	LAMI	.	.	.	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	REG	NUC	.	.	.	.	
0	0	NA	.	REG	NUC	.	.	.	.	
0	0	Caffey dise	NA	SYS	.	.	KEC	PID	REACTOME_DEVELOPMENTAL	
0	0	{Pseudoxa	NA	.	.	.	KEC	.	.	
0	0	NA	.	GAM	CYT	.	.	.	.	
0	0	NA	.	RNA	NUC	DOU	.	.	.	
0	0	Fanconi ar	NA	DNA	NUC	DNA	KEC	.	REACTOME_MEIOSIS;REACTO	
0	0	Breast can	NA	BIO	NUC	PHO	KEC	PID	.	
0	0	Growth hor	NA	EST	.	HEM	KEC	BIO	REACTOME_GROWTH_HORMC	
0	0	Hyperkaler	NA	EST	.	CATI	.	.	REACTOME_DEVELOPMENTAL	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	.	.	.	KEC	.	REACTOME_ABCA_TRANSPOR	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	BIO	CYT	ELEC	.	PID	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	.	CYT	.	.	.	.	
0	0	NA	.	.	CYT	.	.	.	.	
0	0	NA	.	.	.	.	.	.	.	
0	0	NA	.	DNA	.	.	.	.	.	

0	0.	NA	DNA	.	.	.	.	.	.		
0	0.	NA	RES	.	OXID	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	KEC	.	.	.	.		
0	0.	NA	.	CYT	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	CELINUC	TRAN	.	PID	.	.	.		
0	0	Ciliary dysl	NA	.	.	.	.	.	.		
0	0	Pityriasis r	NA	.	POS CYT	(PRO	.	.	.		
0	0	Pityriasis r	NA	.	POS CYT	(PRO	.	.	.		
0	0	{Moyamoy	NA	.	.	.	.	.	.		
0	0.	NA	.	.	KEC	PID	.	REACTOME_INSULIN_RECEPT			
0	0.	NA	SYS	MEM	MOL	KEC	PID	BIO	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0	Alveolar sc	NA	.	.	.	.	.	.		
0	0.	NA	.	.	KEC	PID	BIO	REACTOME_VITAMIN_B5_PAN			
0	0.	NA	.	.	KEC	PID	BIO	REACTOME_VITAMIN_B5_PAN			
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0	Seborrhea	NA	.	.	.	.	.	.		
0	0.	NA	MUL	CEL	NEUF	.	.	REACTOME_SIGNALLING_BY_I			
0	0.	NA	M_P	ORG	.	PID	.	REACTOME_CELL_CYCLE;REA			
0	0	Ataxia, spa	NA	.	CYT	(UNFC	.	.	.		
0	0.	NA	.	.	.	.	.	REACTOME_CELL_CYCLE;REA			
0	0	Glucocortic	NA	.	SIGN	INTR	NEUF	KEC	REACTOME_SIGNALING_BY_G		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0.	NA	.	.	.	.	.	.	.		
0	0	Cardiomyo	NA	.	SYS	PRO	.	KEC	PID	BIO	REACTOME_CELL_CELL_COMI
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	RNA	NUC	DNA	.	.	.	.	.	
0	0	Vici syndro	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0	Microvillus	NA	.	.	.	.	.	REACTOME_TRANSMEMBRANI		
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	CYT	.	.	.	.	.	.	
0	0.	NA	.	PRO	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0	Polymicrog	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	REACTOME_TRANSMEMBRANI			
0	0.	NA	.	.	.	.	.	.	.	.	
0	0	[Blood gro	NA	.	SIGN	.	.	PID	.	REACTOME_PYRUVATE_META	
0	0.	NA	RNA	CYT	(NUCL	.	.	.	REACTOME_TRANSCRIPTION;I		

0	0.	NA	RNA	CYT(NUCL.			REACTOME_TRANSCRIPTION;
0	0.	NA		INTR.			
0	0.	NA	RNA	NUC RNA_			REACTOME_PROCESSING_OF
0	0.	NA					
0	0.	NA					REACTOME_SIGNALING_BY_R
0	0.	NA	RNA	NUC NUCL	KEC.		REACTOME_RNA_POL_III_TRA
0	0.	NA	MEM	CYT(OXID	KEC.		
0	0.	NA					
0	0.	NA					
0	0.	NA					
0	0.	NA					
0	0.	NA	RES	RNA_			
0	0.	NA	GAM.	RNA_			
0	0.	NA	GAM.	RNA_			
0	0.	NA					
0	0.	NA			KEC.		
0	0.	NA					
0	0.	NA		CYT(			
0	0.	NA		CYT(			
0	0.	NA	REG	INTRLIPID	KEC	PID.	REACTOME_SIGNALING_BY_G
0	0.	NA	RNA.	TRAN.		PID.	
0	0.	NA					
0	0.	NA					
0	0	Leukemia,	NA	SYS		KEC	PID.
0	0.	NA					
0	0.	NA				KEC.	
0	0.	NA					
0	0.	NA	ORG	NUC	DOU		PID.
0	0.	NA					
0	0.	NA					
0	0.	NA			TRAN	KEC	PID
0	0.	NA				BIO(	REACTOME_SIGNALING_BY_R
0	0.	NA				PID	BIO(
0	0	Spastic pai	NA				
0	0.	NA	DNA.			KEC.	REACTOME_TRANSCRIPTION_
0	0.	NA	DNA.			KEC.	REACTOME_TRANSCRIPTION_
0	0	Hemophag	NA				
0	0	{Dengue fe	NA	MUL.		CARE.	
0	0	{Dengue fe	NA	MUL.		CARE.	
0	0.	NA					
0	0.	NA					
0	0	Methylmalc	NA			CYT(	
0	0.	NA					
0	0.	NA					
0	0.	NA					
0	0.	NA					
0	0.	NA		MEM.			REACTOME_O_LINKED_GLYCC
0	0.	NA		MEM.			REACTOME_O_LINKED_GLYCC
0	0.	NA		MEM.			REACTOME_O_LINKED_GLYCC
0	0.	NA					
0	0.	NA	M_P	NUC.		KEC	PID
0	0.	NA				BIO(	REACTOME_ANTIVIRAL_MECH
0	0.	NA					
0	0.	NA					



0	0	NA	RNA NUC.					
0	0	NA	G_PIINTRRECE	KEC.		REACTOME_GASTRIN_CREB_S		
0	0 {Malaria, c	NA	INTRRECE	KEC	PID	BIO( REACTOME_IMMUNOREGULAT		
0	0	NA	INTR.					
0	0 Tyrosine ki	NA	BIOF.	PHO $\epsilon$	KEC	PID	BIO( REACTOME_SIGNALING_BY_IL	
0	0	NA	SIGNINSCHYDF	KEC.				
0	0	NA	EST/ORG	MICR	KEC.			
0	0	NA						
0	0 Hyperchole	NA	GLY(INTR	LIPID	KEC.		REACTOME_METABOLISM_OF	
0	0 Hyperchole	NA	GLY(INTR	LIPID	KEC.		REACTOME_METABOLISM_OF	
0	0 Adams-Oli	NA				PID.	REACTOME_FACTORS_INVOL	
0	0	NA						
0	0	NA	REG.					
0	0 Mannosido	NA	GLY(.	HYDF	KEC.			
0	0	NA						
0	0	NA	IMMI.	RNA_.				
0	0	NA				KEC	PID	BIO( REACTOME_SIGNALLING_BY_I
0	0	NA						
0	0	NA				KEC.		REACTOME_SIGNALING_BY_G
0	0	NA						
0	0	NA						REACTOME_SIGNALING_BY_EI
0	0	NA						
0	0 {Celiac dis	NA	EST/ORG	HYDF.		PID.		REACTOME_SIGNALING_BY_RI
0	0	NA						
0	0	NA				PRO1.		
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA				HYDF	KEC.	REACTOME_SIGNALING_BY_G
0	0	NA	DNA	ORG	HYDF.			
0	0	NA						
0	0	NA						
0	0	NA						REACTOME_GENERIC_TRANSI
0	0	NA						
0	0	NA						
0	0	NA						
0	0 Hemolytic	NA	REG.			KEC.	BIO(	REACTOME_GLYCOLYSIS;REA
0	0	NA	IMMI	INTR.		KEC	PID.	
0	0	NA						
0	0 Microceph	NA						
0	0	NA	RNA NUC	CARE.				
0	0	NA						REACTOME_GENERIC_TRANSI
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA						
0	0	NA	REG	MEM	LIPID	KEC	PID.	
0	0 Central cor	NA	EST/INTR	CATI(	KEC.			
0	0 Central cor	NA	EST/INTR	CATI(	KEC.			

0	0 .	NA .	SYS .	NUC	KEC	PID	BIO	.
0	0 .	NA .	.	NUC	RNA	.	.	REACTOME_PROCESSING_OF
0	0 .	NA .	MUS	ORGC	ATI	.	PID	.
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 Cold-induc	NA .	MUL	.	.	.	.	.
0	0 .	NA .	RNA	NUC	TRAN	.	.	BIO
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 Cutis laxa,	NA .	REG	PRO	CATI	.	.	.
0	0 Cutis laxa,	NA .	REG	PRO	CATI	.	.	.
0	0 .	NA .	SYS	.	.	KEC	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	RNA	ORGR	NA	.	.	REACTOME_PROCESSING_OF
0	0 Camurati-E	NA .	REG	PRO	TRAN	KEC	PID	BIO
0	0 .	NA .	CELI	MEN	RAS	_KEC	PID	BIO
0	0 Carpenter :	NA .	.	.	.	.	.	.
0	0 .	NA .	IMMI	INTR	.	.	.	.
0	0 .	NA .	MUL	.	.	.	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 Deafness,	NA .	.	.	.	.	.	.
0	0 Leukemia/I	NA .	POS	CYT	(PRO)	.	PID	.
0	0 [Blood gro	NA .	SIG	INTR	RECE	.	.	.
0	0 .	NA .	.	.	.	KEC	.	REACTOME_MITOCHONDRIAL
0	0 .	NA .	SIG	INTR	.	.	.	REACTOME_GASTRIN_CREB_S
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	SIG	CYT	(STR)	.	.	.
0	0 .	NA .	.	.	.	KEC	.	REACTOME_TRANSMEMBRANI
0	0 Cone-rod r	NA .	SYS	.	.	.	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	.	.	.	KEC	PID	.
0	0 .	NA .	.	.	.	KEC	.	REACTOME_DEVELOPMENTAL
0	0 Deafness,	NA .	.	.	.	KEC	.	REACTOME_DEVELOPMENTAL
0	0 .	NA .	NEG	CYT	.	.	PID	.
0	0 Mandibular	NA .	DNA	NUC	NUC	KEC	.	REACTOME_BASE_EXCISION_I
0	0 Mandibular	NA .	DNA	NUC	NUC	KEC	.	REACTOME_BASE_EXCISION_I
0	0 Mandibular	NA .	DNA	NUC	NUC	KEC	.	REACTOME_BASE_EXCISION_I
0	0 .	NA .	.	.	.	.	.	.
0	0 .	NA .	.	.	.	STR	.	REACTOME_STRIATED_MUSCI

0	0.	NA	.	.	STRL.	.	REACTOME_STRIATED_MUSCI		
0	0.	NA	.	SIGN	INTR.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	KEC.	REACTOME_TRANSMISSION_A		
0	0	Retinitis piç	NA	.	RNA NUC RIBO	KEC.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	SIGN	INTR	RECE	KEC.	REACTOME_IMMUNOREGULAT	
0	0.	NA	.	.	INTR.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	CELL.	.	.	REACTOME_INTEGRATION_OF		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	REACTOME_GENERIC_TRANSI		
0	0.	NA	.	.	.	.	REACTOME_GENERIC_TRANSI		
0	0.	NA	.	.	.	.	REACTOME_GENERIC_TRANSI		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	EXTI.	.	.		
0	0.	NA	.	.	MEM.	.	REACTOME_CELL_CELL_COMI		
0	0	Spinoceret	NA	.	.	.	.		
0	0	Spinoceret	NA	.	RNA ORGRNA_.	.	REACTOME_ASSOCIATION_OF		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	REACTOME_DEVELOPMENTAL		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	NUC.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0	Polyneuroç	NA	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	CYT(.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	PHO ORGLIPID	KEC.	.	REACTOME_METABOLISM_OF_		
0	0.	NA	.	EST/ORG	PRO1.	.	.		
0	0.	NA	.	CEN ORG	KINA:	.	REACTOME_CELL_CYCLE;REA		
0	0.	NA	.	BIO ORG	PRO1.	.	REACTOME_METABOLISM_OF_		
0	0.	NA	.	.	NUC.	.	.		
0	0	Mental retâ	NA	.	.	KEC	PID.	REACTOME_TRANSMISSION_A	
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	CYT(.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0.	NA	.	.	.	.	.		
0	0	DNA topoiç	NA	.	RES	NUC	CHRC.	PID.	
0	0.	NA	.	.	CYT(.	KEC	PID.	BIO(	REACTOME_SIGNALLING_BY_I

0	0.	NA	ENZ' INTRPRO1.	.	.	.	
0	0.	NA	ENZ' INTRPRO1.	.	.	.	
0	0.	NA	SIGN' CELI.	.	.	.	
0	0.	NA	MUL' EXTI.	.	.	.	
0	0.	NA	.	.	.	REACTOME_TRANSMEMBRANI	
0	0.	NA	.	.	PID.	.	
0	0.	NA	.	.	.	REACTOME_TRANSMEMBRANI	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	REACTOME_NEURONAL_SYST	
0	0.	NA	.	.	.	REACTOME_TRANSMEMBRANI	
0	0.	NA	.	.	.	.	
0	0.	NA	TRAN.	.	.	.	
0	0.	NA	.	.	.	.	
0	0	ACTH-inde	REG EXTIHYDFKEC.	BIO	REACTOME_SIGNALING_BY_G		
0	0	ACTH-inde	REG EXTIHYDFKEC.	BIO	REACTOME_SIGNALING_BY_G		
0	0.	NA	.	.	.	REACTOME_MEIOSIS;REACTO	
0	0.	NA	.	.	.	.	
0	0	Epiphyseal	PRO.	PID.	REACTOME_DEVELOPMENTAL		
0	0	Epiphyseal	PRO.	PID.	REACTOME_DEVELOPMENTAL		
0	0.	NA	.	KEC	PID.BIO	REACTOME_COPI_MEDIATED_	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	BIOF INTRPRO1.	.	.	.	
0	0.	NA	BIOF INTRPRO1.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	CELI INTR.	KEC.	.	.	
0	0.	NA	.	KEC	PID.	REACTOME_CELL_SURFACE_I	
0	0	Alzheimer	REG INTRPRO1	KEC	PID.BIO	REACTOME_TRIF_MEDIATED_	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	SIGN.	PHOS.	.	.	
0	0.	NA	SIGN.	PHOS.	.	.	
0	0.	NA	EST).	PHOS	KEC	PID.BIO	REACTOME_PHOSPHOLIPID_M
0	0.	NA	.	.	.	.	
0	0.	NA	RES INTRRECE	KEC	PID.BIO	REACTOME_INTERFERON_ALF	
0	0.	NA	EST).	.	PID.	REACTOME_SIGNALING_BY_R	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	INTR.	.	.	.	

0	0.	NA	NUC.			
0	0.	NA		KEC.		
0	0.	NA	SYS INTR.	PID.		REACTOME_CELL_CELL_COMI
0	0.	NA	SYS INTR.	PID.		REACTOME_CELL_CELL_COMI
0	0.	NA	SYS INTR.	PID.		REACTOME_CELL_CELL_COMI
0	0.	NA	SYS INTR.	PID.		REACTOME_CELL_CELL_COMI
0	0.	NA	EST/			
0	0.	NA		PID.		
0	0.	NA	CYT/			
0	0.	NA				
0	0.	NA				
0	0.	NA	RNA NUC.	KEC.		REACTOME_PROCESSING_OF
0	0.	NA	ORG.			
0	0.	NA	SIGN.			
0	0.	NA	EST/INTRCATI/			
0	0	Leukocyte NA	BIOF.	KINA:KEC	PID.	BIO( REACTOME_IMMUNOREGULAT
0	0.	NA	EST/INTRCOF/			REACTOME_METABOLISM_OF
0	0	Bethlem m NA		KEC	PID.	REACTOME_DEVELOPMENTAL
0	0	Glutamate NA	COF.CYT/	KEC.		REACTOME_METABOLISM_OF
0	0.	NA				
0	0	Microcephr NA	ANA			BIO( REACTOME_CELL_CYCLE;REA
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0	DiGeorge s NA	SYS			
0	0	DiGeorge s NA	SYS			
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA	PHO ORGPHO	KEC	PID.	REACTOME_SYNTHESIS_OF_F
0	0.	NA	NUC PRO1.			
0	0.	NA				
0	0.	NA				
0	0	Mental rets NA	DNA NUC.		PID.	
0	0.	NA				
0	0.	NA	REG INTR.	KEC	PID.	REACTOME_SIGNALLING_BY_I
0	0	Beta-ureidc NA		HYDF	KEC.	REACTOME_PYRIMIDINE_CAT/
0	0	Glutathioni NA	CAR.		KEC.	REACTOME_BIOLOGICAL_OXII
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0.	NA	MUSNONACTII.			
0	0.	NA				
0	0.	NA				
0	0.	NA				
0	0	Muscular d NA	REG ORGTRAN.			
0	0.	NA	DNA NUC.	KEC.		BIO( REACTOME_ACTIVATION_OF_
0	0	Deafness, NA	REG ORGHYDF	KEC.		REACTOME_DEVELOPMENTAL

0	0	Surfactant	NA	.	RES INTRINTEI	KEC	PID	BIO	(	REACTOME_SIGNALING_BY_IL	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	Infantile ne	NA	CM1	MEM.	LIPAS	KEC.	.	.	REACTOME_ACYL_CHAIN_REM	
0	0	.	NA	.	RNA	.	.	.	BIO	(	REACTOME_FACTORS_INVOL
0	0	.	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	EST INTRCATI	(	.	.	.	REACTOME_TRANSMISSION_A	
0	0	.	NA	.	EST INTRCATI	(	.	.	.	REACTOME_TRANSMISSION_A	
0	0	.	NA	.	SIGN.	GTP_	.	.	.	.	
0	0	.	NA	.	RNA	ORGCATI	(	.	.	.	
0	0	.	NA	.	SIGN.	.	KEC.	.	.	REACTOME_DEVELOPMENTAL	
0	0	.	NA	.	.	.	.	.	.	REACTOME_PRE_NOTCH_TRA	
0	0	.	NA	.	REG	INTRNEUF	KEC.	.	.	REACTOME_GASTRIN_CREB_	
0	0	.	NA	.	RNA	NUC	NUCL	KEC.	.	REACTOME_RNA_POL_III_TRA	
0	0	.	NA	.	RNA	NUC	NUCL	KEC.	.	REACTOME_RNA_POL_III_TRA	
0	0	.	NA	.	.	.	.	.	.	REACTOME_CELL_CYCLE;REA	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	LIPI	INTRTRAN	KEC.	.	.	REACTOME_PHOSPHOLIPID_M	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	.	.	KEC.	.	.	REACTOME_MEIOSIS;REACTO	
0	0	Synpolydac	NA	.	PRO	STRU	.	.	.	.	
0	0	Spinoceret	NA	.	SYS	CYT	(	.	.	.	
0	0	.	NA	.	EST MEM	.	.	.	.	.	
0	0	.	NA	.	SYS	INTR	.	.	.	.	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	CELI	NUCL	.	.	.	.	
0	0	.	NA	.	CELI	NUCL	.	.	.	.	
0	0	.	NA	.	.	.	.	.	.	REACTOME_NEURONAL_SYST	
0	0	.	NA	.	.	.	.	.	.	REACTOME_NEURONAL_SYST	
0	0	.	NA	.	.	.	KEC.	.	.	.	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	ENZ	CYT	(KINA	KEC.	.	.	
0	0	.	NA	.	BIO	.	KEC.	.	.	.	
0	0	.	NA	.	.	INTR	KEC.	.	.	.	
0	0	Chondrody	NA	.	SYS	ARYL	.	.	.	REACTOME_PTM_GAMMA_CAF	
0	0	.	NA	.	.	.	KEC.	.	.	.	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	CELI	EXTI	INTE	(	.	.	
0	0	Cataract 4	(	NA	.	.	.	.	.	.	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	Epileptic er	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	Mental ret	NA	.	BEH	.	.	.	.	.	
0	0	.	NA	.	.	.	.	.	.	.	
0	0	Glycerol ki	NA	.	.	.	KEC.	.	.	REACTOME_TRIGLYCERIDE_B	
0	0	Glycerol ki	NA	.	.	.	KEC.	.	.	REACTOME_TRIGLYCERIDE_B	
0	0	Becker mu	NA	.	BIO	PRO	ACTII	KEC.	BIO	(	REACTOME_STRIATED_MUSCI
0	0	.	NA	.	.	.	.	.	.	.	
0	0	.	NA	.	CELI	.	.	.	.	.	

0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Renpennin	NA	.	RNA NUC TRAN	KEC.	.	.	.
0	0.	NA	.	.	.	KEC.	.	REACTOME_NEGATIVE_REGUI	.
0	0	Neurodege	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Aland Islar	NA	.	DET INTRCATI	(KEC.	.	.	.
0	0.	NA	.	.	SIG NONKINA	.	.	.	.
0	0.	NA	.	.	CELI MAC.	KEC PID.	.	REACTOME_SIGNALLING_BY_I	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Mental retæ	NA	.	.	.	.	.	.
0	0	Mental retæ	NA	.	.	KEC.	.	.	.
0	0.	NA	.	.	DNA ORG PRO	KEC PID.	.	REACTOME_MEIOSIS;REACTO	.
0	0	Mental retæ	NA	.	PRO NUC ACID	KEC PID.	.	REACTOME_IMMUNE_SYSTEM	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Aarskog-Si	NA	.	REG CYT(GTP	KEC PID.	.	REACTOME_SIGNALING_BY_RI	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	REACTOME_SIGNALING_BY_RI	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	SIG CYT(	PID.	.	.	.
0	0	Lujan-Fryn	NA	.	RNA NUC RNA_	PID.	.	REACTOME_DEVELOPMENTAL	.
0	0	Charcot-Mi	NA	.	CM9 SYS` CELI.	.	.	REACTOME_MEMBRANE_TRAF	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Cornelia de	NA	.	RNA NUC HYDF.	PID BIO(	REACTOME_NOTCH1_INTRACI	.	.
0	0	Muscle gly	NA	.	GEN. PHO	KEC.	.	REACTOME_GLYCOGEN_BREA	.
0	0.	NA	.	.	.	PID.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	?Mental re	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Mental retæ	NA	.	.	.	.	.	.
0	0.	NA	.	.	INTR.	.	.	.	.
0	0.	NA	.	.	INTR.	.	.	.	.
0	0.	NA	.	.	INTR.	.	.	.	.
0	0.	NA	.	.	INTR.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	EST).	VOLT KEC PID BIO(	.	.	.
0	0.	NA	.	.	EST CYT(RNA_	.	.	.	.





0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	EST/COA.	KEC	PID	BIO	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	TRAN.	PID.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	EST/ORG.	.	.	.	.	.
0	0.	NA	.	.	.	KEC.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Urofacial s	NA	.	HYDF	KEC.	.	REACTOME_HS_GAG_DEGRAI	
0	0.	NA	.	EST/ORG.	.	PID.	.	REACTOME_CELL_CYCLE;REA	
0	0.	NA	.	EXTICARE	KEC.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	DNA CYT	.	.	.	.	.
0	0.	NA	.	SYS INTR RECE	KEC	PID.	.	REACTOME_ACTIVATED_NOTC	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	MICF ORG MICR.	PID.	.	REACTOME_CELL_CYCLE;REA		
0	0	Immunode	NA	.	.	KEC.	.	.	.
0	0.	NA	.	DNA NUC PROT.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	SIGN INTR	TRAN.	PID.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Becker mu	NA	.	BIO	PRO ACTII	KEC.	BIO	REACTOME_STRIATED_MUSCI
0	0.	NA	.	.	.	.	.	.	.
0	0	Megakaryc	NA	.	.	.	PID	BIO	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	MUL PRO INTE	.	PID.	.	REACTOME_EXTRACELLULAR	
0	0	{Bardet-Bie	NA	.	.	.	.	.	.
0	0.	NA	.	CEN	ORG.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Elliptocytos	NA	.	ACTI	ORGACTII.	.	REACTOME_DEVELOPMENTAL	
0	0	[Blood gro	NA	.	MEM.	.	.	REACTOME_SIGNALING_BY_G	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Nephropatl	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	KEC	PID.	REACTOME_SIGNALING_BY_G	
0	0.	NA	.	PRO.	PRO	.	.	.	.
0	0	Homocystii	NA	.	.	.	KEC.	REACTOME_SULFUR_AMINO_	
0	0.	NA	.	.	.	.	KEC.	.	.
0	0.	NA	.	.	.	.	KEC.	.	.

0	0	Sitosterole	NA . . . . .	PRO1KEC . . . . .	REACTOME_ABCA_TRANSPOR
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	.	REACTOME_TRANSMEMBRANI
0	0	Leukodystr	NA . . . . .	CELIORGCHAFKECPID . . . . .	REACTOME_MITOCHONDRIAL_
0	0	.	NA . . . . .	RNA . . . . .	CATIC . . . . .
0	0	.	NA . . . . .	.	CYTLIPID . . . . .
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	SIGN . . . . .	IDEN . . . . .
0	0	.	NA . . . . .	RNA NUC SPEC . . . . .	.
0	0	.	NA . . . . .	.	.
0	0	Seckel syn	NA . . . . .	ORG . . . . .	REACTOME_CELL_CYCLE;REA
0	0	Seckel syn	NA . . . . .	ORG . . . . .	REACTOME_CELL_CYCLE;REA
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	ORG . . . . .	.
0	0	.	NA . . . . .	POS INTR . . . . .	KECPID BIO( REACTOME_EXTRINSIC_PATH'
0	0	Breast can	NA CM1 . . . . .	PHO\$KECPID BIO(	REACTOME_SIGNALLING_BY_I'
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	.	.
0	0	Adermatog	NA . . . . .	DNA . . . . .	.
0	0	Spastic pai	NA . . . . .	.	KEC . . . . .
0	0	.	NA . . . . .	RNA NUC TRAN . . . . .	.
0	0	.	NA . . . . .	SIGN . . . . .	PHO\$KEC . . . . .
0	0	.	NA . . . . .	.	.
0	0	Albinism, c	NA . . . . .	.	.
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	REG INTR PEPT KECPID BIO(	REACTOME_GASTRIN_CREB_5
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	.	.
0	0	{Breast car	NA . . . . .	.	KEC . . . . .
0	0	.	NA . . . . .	SIGN . . . . .	.
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	INTR RECE . . . . .	.
0	0	{Hypersens	NA . . . . .	.	KECPID BIO(
0	0	.	NA . . . . .	.	REACTOME_NEF_MEDIATED_I
0	0	.	NA . . . . .	.	.
0	0	Retinitis pi	NA . . . . .	.	.
0	0	Retinitis pi	NA . . . . .	.	.
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	M_PI ORG . . . . .	.
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	.	KEC . . . . .
0	0	.	NA . . . . .	EST/ CYT( KINA: . . . . .	PID . . . . .
0	0	.	NA . . . . .	SIGN . . . . .	RAS_ . . . . .
0	0	.	NA . . . . .	SYS' PRO . . . . .	PID . . . . .
0	0	.	NA . . . . .	.	.
0	0	Epidermoly	NA . . . . .	STRU . . . . .	REACTOME_APOPTOTIC_CLEA'
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	.	.
0	0	.	NA . . . . .	NUC . . . . .	.
0	0	.	NA . . . . .	.	.

0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	PHOS	KEC.	BIO	(REACTOME_GLYCOLYSIS;REA		
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	REG.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	BIOF.	NUCL.	PID.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	DNA	NUC.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	RNA_.	.	.	.	.	
0	0	Deafness,	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0	Spermatog	NA	.	SYS	CELIOXID	KEC.	BIO	(REACTOME_LATENT_INFECTIC	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0	Fraser syn	NA	.	.	.	.	.	.	
0	0	Fraser syn	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
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0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0	Breast can	NA	.	REG	MEM/PHOS	KEC	PID	BIO	(REACTOME_SIGNALLING_BY_I
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
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0	0.	NA	.	.	INTR.	.	.	.	.	
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0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	RNA	ORG.	KEC.	.	REACTOME_MRNA_DECAY_BY	
0	0.	NA	.	.	.	.	.	REACTOME_PROCESSING_OF	
0	0.	NA	.	.	ORG.	.	.	REACTOME_GENERIC_TRANSI	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0	Spinocereb	NA	.	.	.	.	.	
0	0.	NA	.	.	.	KEC.	.	REACTOME_PHOSPHOLIPID_M	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	REG.	TRAN	KEC	PID.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	BIOF.	.	.	.	.	
0	0.	NA	.	MUL.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	ARYL.	.	REACTOME_PTM_GAMMA_CAF	
0	0	Epileptic er	NA	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	EST/ORG	MICR.	.	.	REACTOME_DEVELOPMENTAL	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	SIGN	INTR	NEUF	KEC.	BIO	REACTOME_TRANSMISSION_A
0	0.	NA	.	PRO.	KINA	KEC	PID	BIO	REACTOME_SIGNALLING_BY_I
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	PID.	REACTOME_EXTRACELLULAR	
0	0.	NA	.	.	.	.	.	REACTOME_CROSS_PRESENT	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	ORG	ACTII.	PID.	REACTOME_DEVELOPMENTAL	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0	Holoproser	NA	.	DNA.	CATI	KEC	PID	BIO
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	PID.	.	
0	0.	NA	.	.	.	.	.	REACTOME_DIABETES_PATHV	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0	{Essential t	NA	.	SIGN	INTR	AMIN	KEC.	REACTOME_SIGNALING_BY_G
0	0	Cone-rod c	NA	.	.	.	HYDF.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	
0	0.	NA	.	.	EXTI.	.	.	.	

0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	SYS	INTR.	.	.	.	.
0	0.	NA	.	.	.	KEC	PID.	REACTOME_RNA_POL_I_TRAN	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	REACTOME_DEVELOPMENTAL	
0	0.	NA	.	.	.	.	.	.	.
0	0 {Colchicine	NA	.	EST/CELI	NUCL	KEC	PID.	BIO(	REACTOME_ABACAVIR_TRANS
0	0.	NA	.	.	.	.	.	.	.
0	0 Thyroid ca	NA	.	ORG.	.	.	.	REACTOME_CELL_CYCLE;REA	
0	0.	NA	.	SIGNON	PROT	KEC	PID.	BIO(	REACTOME_APOPTOTIC_CLEA
0	0.	NA	.	POS.	.	KEC	PID.	BIO(	REACTOME_EXTRINSIC_PATH'
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	INTR.	.	KEC	PID.	REACTOME_INTEGRIN_CELL_	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	ORG	STRL.	.	.	.	.
0	0 Antley-Bixl	NA	.	CELI.	.	KEC	PID.	REACTOME_NEGATIVE_REGUI	
0	0.	NA	.	RNA	NUC.	.	.	.	.
0	0 Deafness,	NA	.	REG	CYT(.	.	.	BIO(.	
0	0 Deafness,	NA	.	REG	CYT(.	.	.	BIO(.	
0	0 Leukemia,	NA	.	.	.	KEC	PID.	BIO(	REACTOME_SIGNALING_BY_RI
0	0 {Diabetes r	NA	.	NUC	CYT(.	.	.	REACTOME_INTERFERON_GAI	
0	0 Bladder ca	NA	.	REG	NUC	KINA:	KEC	PID.	BIO(
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	PRO	VESI.	KEC.	.	REACTOME_DIABETES_PATHV	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
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0	0.	NA	.	.	.	.	.	.	.
0	0 Spinoceret	NA	.	.	.	.	.	.	.
0	0.	NA	.	INTR	CATI(.	.	.	REACTOME_TRANSMEMBRANI	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	CELI.	.	KEC.	.	.	.
0	0 Episodic at	NA	.	REG	INTR	CATI(	KEC.	.	REACTOME_TRANSMISSION_A
0	0.	NA	.	.	.	.	KEC.	.	REACTOME_SIGNALING_BY_G
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	SYS	PRO.	.	.	.	.
0	0.	NA	.	EST/INTR	CATI(.	.	.	REACTOME_NEURONAL_SYST	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	CEN	ORG	KINA:	.	.	REACTOME_CELL_CYCLE;REA

0	0.	NA	.	.	.	.	REACTOME_TRANSMEMBRANI
0	0.	NA	.	BIOINTRPRO1.	.	.	
0	0.	NA	.	BIOINTRPRO1.	.	.	
0	0.	NA	.	EST/MEM.	.	.	
0	0.	NA	.	PRO.	KINA:KECPID,BIO(	REACTOME_SIGNALLING_BY_I	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	NEG NUC TRAN.	PID.	REACTOME_RNA_POL_III_TRA	
0	0.	NA	.	.	PID.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	IDEN'KECPID,BIO(	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	RNA.	TRAN.	PID.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	EST/.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	KECPID.	REACTOME_SIGNALING_BY_RI	
0	0	Leukoence	NA	.	REG CYT(TRAN.	BIO(	REACTOME_TRANSLATION;RE
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	ORGRNA_.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	KEC.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	PID.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0	{Diabetes r	NA	.	EST/CYT(KINA:KECPID.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0	Nephronoç	NA	.	.	.	REACTOME_SIGNALING_BY_HI
0	0	Nephronoç	NA	.	.	.	REACTOME_SIGNALING_BY_HI
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
0	0.	NA	.	.	.	.	
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0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Noonan sy	NA	CM1	SIGN	MEM/GTP_	PID.		REACTOME_SIGNALLING_BY_I
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	CELIMEM/CATI	KEC.			.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	INTRCATI	KEC.			REACTOME_TRANSMEMBRANI
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	ORGRNA_	KEC.			.
0	0.	NA	.	.	CYT(	RECE	KEC.		REACTOME_TRANSLATION;RE
0	0.	NA	.	.	EST/	HYDF.			REACTOME_TRANSMEMBRANI
0	0.	NA	.	.	EST/INTRNUCL	KEC.			REACTOME_HYALURONAN_ME
0	0.	NA	.	.	.	.	.	.	REACTOME_TRANSMEMBRANI
0	0.	NA	.	.	.	.	.	.	.
0	0	Sebaceous	NA	.	.	SEQL	KEC	PID	BIO(
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	SIGN		KEC	PID.	REACTOME_VEGF_LIGAND_RE
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Myelodysp	NA	.	.	.	KEC.		REACTOME_TRIGLYCERIDE_B
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	KEC.		.
0	0.	NA	.	.	.	.	KEC	PID.	REACTOME_DEVELOPMENTAL
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	SYS		.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	{Asthma, s	NA	.	DEFI.	RECE	KEC.		REACTOME_ANTIGEN_PROCE
0	0.	NA	.	.	.	.	.	.	.
0	0	Deafness,	NA	.	.	.	KEC	PID.	REACTOME_EXTRACELLULAR
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	KEC.	BIO(	REACTOME_PHOSPHOLIPID_M
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	SYS		.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	RNA	NUC.			.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.

0	0	Brachydac	NA .	SIGN INTR	TRAN .	PID .	.
0	0	.	NA .	.	.	.	.
0	0	Mental ret	NA .	OLIG INTR	CATI	KEC .	REACTOME_METABOLISM_OF_
0	0	{AIDS, resi	NA .	REG .	G_PF	KEC PID	BIO( REACTOME_SIGNALING_BY_EI
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	.	.	.
0	0	{Migraine,	NA .	.	.	.	REACTOME_NEURONAL_SYST
0	0	.	NA .	SIGN .	RECE	KEC PID	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	REG EXT	ICOF	/ .	.
0	0	.	NA .	.	.	.	.
0	0	Diabetes nr	NA .	EST/INTR	.	KEC PID	REACTOME_NEURONAL_SYST
0	0	.	NA .	NEG .	.	.	.
0	0	.	NA .	.	.	KEC .	REACTOME_ACTIVATED_NOTC
0	0	.	NA .	.	.	.	.
0	0	.	NA .	RNA .	TRAN .	.	.
0	0	.	NA .	CELI RIB	CHYDF .	.	.
0	0	.	NA .	BIO	CYT( .	PID .	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	.	.	.
0	0	Hawkinsint	NA .	CAR .	.	KEC .	REACTOME_METABOLISM_OF_
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	CYT( .	KEC .	REACTOME_PHOSPHOLIPID_M
0	0	.	NA .	.	.	.	.
0	0	Fraser syn	NA .	.	.	.	.
0	0	.	NA .	.	.	PID .	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	BIO	INTR	PHOS .	PID .
0	0	0	NA .	.	.	KEC PID	REACTOME_SPHINGOLIPID_DE
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	CYT(	PRO	KEC .
0	0	.	NA .	.	.	BIO(	REACTOME_SIGNALING_BY_W
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	REG .	PRO	1 .	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	EST/INTR	HYDF	KEC .	.
0	0	.	NA .	.	.	KEC .	.
0	0	.	NA .	EST/ .	PRO	1 .	.
0	0	0	NA .	GLU	1 .	LYAS	KEC PID
0	0	.	NA .	.	.	BIO(	REACTOME_RESPONSE_TO_E
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	.	.	.
0	0	.	NA .	.	.	.	.
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0	0	.	NA .	.	.	PID .	.



0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	CELI.	HYDF.	.	.	.	.	.
0	0	Weaver sy	NA	ANA.	CHRC.	.	.	.	.	.
0	0	Mandibulof	NA	RNA ORG	HYDF	KEC.	.	.	REACTOME_PROCESSING_OF	.
0	0.	NA	.	REG ORG	NUCL	KEC.	.	.	REACTOME_DIABETES_PATHV	.
0	0.	NA	.	INTRCATI	KEC.	.	.	.	REACTOME_TRANSMISSION_A	.
0	0.	NA	.	RNA.	RNA_.	.	.	.	.	.
0	0.	NA	.	EST/CYT	.	.	.	.	.	.
0	0.	NA	.	DNA	CYT(	PRO1.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	STEI	CYT(SULF	KEC.	.	.	REACTOME_BIOLOGICAL_OXII	.
0	0.	NA	.	INTR.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	EST/INTRCATI	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	DNA	SYN	HYDF.	.	.	REACTOME_TRANSMISSION_A	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	EST/ORG.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0	Auriculocoi	NA	REG.	HYDF	KEC	PID.	.	REACTOME_TRANSMISSION_A	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	CELI	CELI	LIPID.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0	Prostate cα	NA	.	.	RNA_.	.	.	REACTOME_INTERFERON_ALF	.
0	0	{Macular d	NA	.	.	.	.	.	.	.
0	0.	NA	.	MUS	ORG	PRO1.	PID.	.	.	.
0	0.	NA	.	PRO.	PRO1.	.	.	.	.	.
0	0.	NA	.	.	.	CATI(	KEC.	.	REACTOME_TCA_CYCLE_AND	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	KEC.	.	REACTOME_INHIBITION_OF_TI	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	INTRG_P	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.	.
0	0	Membrano	NA	CELI	INTR	MET/	KEC.	.	.	.

0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	KEC	PID	BIO	REACTOME_SIGNALING_BY_G
0	0	Myelodysp	NA	.	.	.	.	.	.
0	0	Cornelia de	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	REACTOME_TRANSMEMBRANI
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Cardiomyo	NA	.	SYS	NUC	.	.	.
0	0	{H. pylori ir	NA	.	SYS	INTR	PRO	KEC	.
0	0.	NA	.	.	.	.	PID	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	RNA	NUC	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Erythrocytc	NA	.	SYS	.	PRO	KEC	PID
0	0.	NA	.	.	GEN	CYT	NUCL	.	.
0	0.	NA	.	.	INTR	.	KEC	.	REACTOME_HS_GAG_BIOSYN
0	0.	NA	.	.	.	.	KEC	.	.
0	0.	NA	.	.	RNA	ORG	.	.	.
0	0.	NA	.	.	NUC	TRAN	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	PRO	ACID	KEC	PID	BIO
0	0.	NA	.	.	RNA	NUC	RNA	KEC	.
0	0.	NA	.	.	SYS	CELI	PRO	.	REACTOME_CELL_CELL_COMI
0	0.	NA	.	.	INTR	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Hypertrigly	NA	.	.	OXID	KEC	.	REACTOME_TRIGLYCERIDE_B
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	SIG	INTR	.	.	REACTOME_SIGNALING_BY_G
0	0.	NA	.	.	INTR	.	.	.	REACTOME_HS_GAG_DEGRAI
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Prader-Wil	NA	.	NEG	.	.	PID	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	PID	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	INTR	MET	KEC	PID	BIO
0	0.	NA	.	.	ORG	PRO	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	MOT	KEC	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Mannosido	NA	.	GLY	HYD	KEC	.	.
0	0	Cold-induc	NA	.	EXT	RECE	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	SYS	NUCL	KEC	PID	BIO

0	0.	NA	.	NUC.	KEC.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	SEN.	.	.	.
0	0.	NA	.	SEN.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0	Duane-rad	NA	.	.	PID.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	PRO PRO INTE.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	KEC	PID.	REACTOME_CELL_CELL_COMI
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0	Dent disea	NA	.	LIPII ORG PHOS	KEC.	REACTOME_SIGNALING_BY_RI
0	0.	NA	.	INTRG_PF.	.	.	.
0	0.	NA	.	.	.	.	.
0	0	Hemophilic	NA	CM0 REG.	.	KEC.	BIO( REACTOME_RESPONSE_TO_E
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	TRAN	KEC	PID.
0	0.	NA	.	SIG	EXTI	RECE.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0	Deafness,	NA	.	REG	NON.	.
0	0	Albinism, c	NA	.	.	.	.
0	0	Pulmonary	NA	.	.	PID.	.
0	0.	NA	.	MUL	ORG	RECE.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	GAM	CYT.	.	.
0	0.	NA	.	.	.	.	.
0	0.	NA	.	.	.	.	.



0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	PRO	ORG.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	DNA.	DNA.	.	.	REACTOME_MEIOSIS;	REACTO
0	0	Alagille syr	NA	.	REG INTR	SPEC	KEC	PID.	REACTOME_PRE_NOTCH_TRA
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	CATI.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	SIG	RAS.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	REG.	.	KEC	PID.	REACTOME_REGULATION_OF_	
0	0	Cardiomyo	NA	.	MUS	ORGN	NUCL	KEC.	.
0	0.	NA	.	.	.	.	.	PID	BIO.
0	0	Spinocere	NA	.	.	INTR	CATI	KEC.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	PRO	CATI.	.	.	.
0	0.	NA	.	SYS	INTR	LIPOI.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	KEC	PID.	REACTOME_INTEGRIN_CELL_
0	0.	NA	.	.	.	.	.	.	.
0	0	Megaloblas	NA	.	.	.	KEC	PID	BIO
0	0.	NA	.	.	.	.	.	.	REACTOME_TETRAHYDROBIO
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	SIG	INTR	GABA	KEC.	REACTOME_TRANSMISSION_A	
0	0.	NA	.	DNA	NUC	HYDF.	.	.	.
0	0.	NA	.	.	.	.	.	.	REACTOME_PHOSPHOLIPID_M
0	0.	NA	.	.	.	KEC.	REACTOME_PPARA_ACTIVATE		
0	0	Muscular d	NA	.	MUS	PRO	STRL	KEC	PID
0	0	Mental ret	NA	.	.	NUC	DNA.	.	BIO
0	0.	NA	.	SIG	CELL	PRO	KEC	PID.	REACTOME_INTEGRIN_CELL_
0	0	Spinocere	NA	.	RNA	NUC	RNA_	KEC	PID
0	0.	NA	.	.	.	.	.	.	BIO
0	0	Colorectal	NA	.	DNA.	SING	KEC	PID.	REACTOME_RNA_POL_III_TRA
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Maturity-or	NA	.	SIG	.	.	PID.	REACTOME_ANTIGEN_ACTIVAT
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	CYT	ELEC	KEC.	REACTOME_TCA_CYCLE_AND	
0	0.	NA	.	SIG	EXTI	HYDF	KEC	PID.	REACTOME_GASTRIN_CREB_
0	0.	NA	.	.	.	.	KEC.	.	.

0	0.	NA	REG UBICACID.		
0	0.	NA	CYT(	KEC.	
0	0.	NA	CELI MEM/CATI(KEC.		REACTOME_TRANSMISSION_A
0	0	Cardiomyo	NA		
0	0.	NA			
0	0.	NA			
0	0.	NA	NUC NUCL	KEC.	
0	0.	NA			
0	0.	NA	POS.		KEC PID, BIO(
0	0.	NA			
0	0.	NA		RAS_.	PID.
0	0.	NA			
0	0.	NA	GLYC(	TRAN	KEC.
0	0.	NA			REACTOME_METABOLISM_OF_
0	0.	NA			
0	0.	NA	PRO COLL.		
0	0	Spastic pai	NA		
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0	Congenital	NA	REG ORG.	
0	0.	NA			
0	0.	NA			
0	0.	NA	INTR.		
0	0.	NA	RES EXTIG_PF	KEC PID, BIO(	REACTOME_SIGNALING_BY_G
0	0.	NA			
0	0.	NA			
0	0.	NA			KEC PID.
0	0.	NA			REACTOME_GAP_JUNCTION_I
0	0	Amyotroph	NA	PRO ORG HYDF.	
0	0	46XY sex r	NA		
0	0.	NA	PRO ORG CHAF.		REACTOME_PROTEIN_FOLDIN
0	0.	NA			
0	0.	NA			
0	0.	NA		GLUT	KEC.
0	0.	NA	LIPIE.	SUBS.	
0	0.	NA	SIGN INTR.		REACTOME_CELL_CELL_COMI
0	0	Exocrine p	NA		CATI(KEC.
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0	Chondrody	NA	BIOF NUC HYDF.	PID, BIO(
0	0.	NA			REACTOME_NOTCH1_INTRACI
0	0	Dent disea	NA	CM0 EST/INTR.	
0	0.	NA			
0	0.	NA			
0	0.	NA			

0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	POS INTR	LIPID	KEC.	.	.	.
0	0.	NA	.	.	.	.	.	.	REACTOME_TRANSMEMBRANI
0	0.	NA	.	.	.	.	.	.	.
0	0	Miyoshi mt	NA	.	SYS	MEM.	.	.	.
0	0	Miyoshi mt	NA	.	SYS	MEM.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	INTR.	.	PID.	.	REACTOME_DEVELOPMENTAL
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	EXTI.	.	KEC.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Adams-Oli	NA	.	.	.	.	.	REACTOME_SIGNALING_BY_RI
0	0	Myopia 23,	NA	.	PRO INTR	CARE.	PID.	.	.
0	0.	NA	.	.	RIBC	RNA_.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	KEC.	.	.
0	0	Cockayne	NA	.	DNA	ORG	HYDF	KEC.	REACTOME_TRANSCRIPTION_
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	REACTOME_TRANSMEMBRANI
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	KEC.	.	REACTOME_DEVELOPMENTAL
0	0.	NA	.	.	.	.	.	.	.
0	0	{Asthma, s	NA	.	DEFI.	RECE	KEC.	.	REACTOME_ANTIGEN_PROCE
0	0	Ehlers-Dar	NA	.	ORG	PRO	INTE	(KEC.	.
0	0.	NA	.	.	RNA	NUC.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	{Colchicine	NA	.	EST/CELI	NUCL	KEC	PID	BIO(
0	0.	NA	.	.	SYS	INTR.	KEC	PID.	.
0	0.	NA	.	.	CYT	(PHO	KEC.	.	REACTOME_GASTRIN_CREB_
0	0.	NA	.	.	CYT	(PHO	KEC.	.	REACTOME_GASTRIN_CREB_
0	0.	NA	.	.	.	.	KEC.	.	REACTOME_SIGNALING_BY_G
0	0.	NA	.	.	PRO.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Diabetes rr	NA	.	RNA	NUC	SPEC.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	CELI	MEM	CATI	(KEC.	REACTOME_TRANSMISSION_A
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	REACTOME_GENERIC_TRANSI

0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	PHO INTR	PHOS.	PID.		REACTOME_SYNTHESIS_OF_F		
0	0.	NA	.	.	.	KEC	PID.	REACTOME_CELL_CELL_COMI		
0	0	Ataxia-tela	NA	.	DNA.	PHOS	KEC	PID.	BIO	REACTOME_MEIOSIS;REACTO
0	0.	NA	.	.	CYT(.	.	.	REACTOME_DIABETES_PATHV		
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0	Leukemia,	NA	.	.	TRAN	KEC.	.	.	
0	0	Bladder ca	NA	CM0.	.	.	KEC	PID.	BIO	REACTOME_SIGNALLING_BY_I
0	0	Spastic pai	NA	.	EST/ORG.	.	.	REACTOME_MHC_CLASS_II_AI		
0	0.	NA	.	.	.	.	.	REACTOME_NEURONAL_SYST		
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0	Prader-Wil	NA	.	NEG.	.	PID.	.	.	
0	0.	NA	.	SIGN	INTR.	KEC.	BIO	REACTOME_TRANSMISSION_A		
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	SYS	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0	Autoinflam	NA	.	.	.	KEC	PID.	REACTOME_ANTIGEN_ACTIV	
0	0.	NA	.	.	.	.	PID.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	PROT.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0	Adams-Oli	NA	.	.	.	PID.	REACTOME_FACTORS_INVOL		
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	REACTOME_GENERIC_TRANSI		
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	REG	CYT(	PROT.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	CELI	INTR.	KEC.	.	.	.	
0	0.	NA	.	REG	COA.	.	.	REACTOME_TRANSMISSION_A		
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	PID.	.	.	
0	0	Lymphoprc	NA	.	CELI	CYT(.	KEC	PID.	.	
0	0.	NA	.	.	.	.	.	.	.	
0	0.	NA	.	.	.	.	.	.	.	



0	0	Favism;He NA	CM9 GLU CYT(	KEC.	.	REACTOME_METABOLISM_OF_		
0	0.	NA	.	.	.	.		
0	0.	NA	NUC.	KEC.	.	REACTOME_METABOLISM_OF_		
0	0.	NA	.	.	.	.		
0	0.	NA	DETI.	TAST	KEC.	REACTOME_SIGNALING_BY_G		
0	0.	NA	SIG CYT GTPA.	.	.	REACTOME_RAP1_SIGNALLINK		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0.	NA	.	.	.	.		
0	0	Chronic gr NA	DEFI.	ELEC	KEC	PID	BIO	REACTOME_ANTIGEN_PROCE:
0	0.	NA	MUS	INTR	CATI	.	.	REACTOME_NEURONAL_SYST
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0	Leukodystr NA	CELI	ORG	CHAF	KEC	PID.	REACTOME_MITOCHONDRIAL_
0	0.	NA	EST/	NUC.	.	.	.	.
0	0	Multiple su NA	.	.	.	KEC.	.	REACTOME_PTM_GAMMA_CAF
0	0.	NA	.	.	.	KEC	PID.	REACTOME_BMAL1_CLOCK_NI
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	PID.	REACTOME_CELL_CYCLE;REA
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	CELI	NUC.	.	.	.	.
0	0.	NA	CELI	NUC.	.	.	.	.
0	0.	NA	.	.	.	KEC.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	POS	CYT(	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.
0	0	{Prostate c NA	REG	CYT(	STRU	KEC	PID.	.

0	0 {Coronary	NA	.	.	.	HYDF.	.	.	.
0	0.	NA	.	SIGN	NUC	TRAN.	PID	BIO	.
0	0.	NA	.	.	CYT	.	.	.	.
0	0.	NA	.	NUC	.	.	.	REACTOME	METABOLISM_OF_
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	KEC	.	REACTOME	INSULIN_RECEPT
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	SYS	COA	.	.	.	.
0	0.	NA	.	BIO	EXTI	.	.	REACTOME	SIGNALLING_BY_I
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0 Candidiasis	NA	.	POS	CYT	PRO	KEC	.	REACTOME_INNATE_IMMUNE_
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	SYS	CELL	.	KEC	.	REACTOME_CELL_CELL_COMI
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	REP	EXT	MET	KEC	.	.
0	0.	NA	.	CELL	CYT	GTP	KEC	PID	BIO
0	0.	NA	.	.	.	.	.	REACTOME	DEVELOPMENTAL
0	0.	NA	.	.	.	.	KEC	BIO	REACTOME_METABOLISM_OF_
0	0 Hermansky	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0 Achondrog	NA	.	SYS	.	.	KEC	PID	REACTOME_DEVELOPMENTAL
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0 Transpositi	NA	.	.	.	.	.	REACTOME	DEVELOPMENTAL
0	0 Diabetes nr	NA	.	CM0	REG	MAC	TRAN	KEC	PID
0	0.	NA	.	.	.	.	.	PID	REACTOME_FACTORS_INVOLA
0	0.	NA	.	ONE	.	MET	.	PID	REACTOME_METABOLISM_OF_
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0 Prader-Wil	NA	.	NEG	.	.	.	PID	.
0	0.	NA	.	MAC	CELL	.	KEC	PID	REACTOME_APOPTOTIC_CLEA
0	0.	NA	.	.	.	.	.	.	REACTOME_TRANSMISSION_A
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	KEC	PID	.
0	0.	NA	.	SIGN	.	RECE	.	.	.
0	0.	NA	.	REG	CYT	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	AMIN	ORG	SULF	KEC	.	.
0	0.	NA	.	.	.	.	.	.	.

0	0	NA	INTR	KEC	PID	REACTOME_INTEGRIN_CELL_
0	0	NA	DNA NUC	PRO1		
0	0	NA				
0	0	NA	BIOCYT	ELEC	PID	
0	0	Epidermol	INTR	KEC	PID	REACTOME_CELL_CELL_COMI
0	0	NA		KEC	PID	REACTOME_INSULIN_RECEPT
0	0	NA	BIOF	CELIOXID		BIO( REACTOME_EXTRACELLULAR
0	0	NA	CELI	INTR	RECE	KEC. BIO(
0	0	NA				REACTOME_O_LINKED_GLYCC
0	0	NA				REACTOME_O_LINKED_GLYCC
0	0	NA				
0	0	NA				
0	0	NA	NEG	TRAN		
0	0	NA	RNA	TRAN	PID	
0	0	NA	RNA	TRAN	PID	
0	0	NA	RNA	TRAN	PID	
0	0	NA				REACTOME_GENERIC_TRANSI
0	0	NA				
0	0	NA				
0	0	NA				
0	0	NA	REP	INTR		
0	0	[Bombay p	GLY	(INTR	TRAN	KEC. . .
0	0	[Bombay p	GLY	(INTR	TRAN	KEC. . .
0	0	NA	POS	EXTI	RECE	
0	0	NA				REACTOME_GENERIC_TRANSI
0	0	NA			KEC	
0	0	NA				REACTOME_TRIGLYCERIDE_B
0	0	NA				
0	0	NA	BIOF	INTR	PRO1	
0	0	NA	INTR			
0	0	NA	SYS	PRO		
0	0	NA	MUS	NON	ACTII	
0	0	NA				
0	0	NA		CYT		PID. REACTOME_SIGNALING_BY_RI
0	0	NA				
0	0	NA				
0	0	{Epilepsy, (	SIG	INTR	GAB/	KEC. . .
0	0	Palmoplan				PID. . .
0	0	NA				
0	0	NA	NUC		KEC	PID. BIO( REACTOME_DOWNREGULATIC
0	0	Ciliary dys				PID. . .
0	0	Glycogen ε	MAC		KEC	. REACTOME_GLYCOGEN_BREA
0	0	NA				
0	0	NA				
0	0	NA				
0	0	NA				
0	0	NA		HYDF		
0	0	Epidermol	SYS		KEC	PID. REACTOME_CELL_CELL_COMI
0	0	NA				
0	0	NA				
0	0	NA	RNA	NUC	TRAN	
0	0	Senior-Lok	BIOF		KEC	PID. REACTOME_CELL_CYCLE;REA

0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	Short statu	NA	.	.	.	.	.	.
0	0	NA	.	REG	.	NUCL	KEC	PID	.
0	0	GAPO syn	NA	.	.	.	.	PID	.
0	0	NA	.	.	.	.	.	.	.
0	0	Selective T	NA	.	POS MEM	.	KEC	PID	BIO
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	Cardiomyo	NA	.	MUS ORG	NUCL	KEC	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	BIO	CYT	(PRO	KEC	PID	BIO
0	0	NA	.	BIO	CYT	(PRO	KEC	PID	BIO
0	0	NA	.	.	.	.	.	.	.
0	0	Microphtha	NA	.	.	.	.	.	.
0	0	NA	.	M_PI	ORG	DNA	.	.	BIO
0	0	NA	.	SYS	INTR	PF	KEC	.	REACTOME_SIGNALING_BY_G
0	0	NA	.	SYS	INTR	LIPID	.	.	.
0	0	NA	.	REG	INTR	.	.	.	.
0	0	NA	.	REG	INTR	.	.	.	.
0	0	NA	.	BIO	STR	KEC	.	.	REACTOME_TRANSLATION;RE
0	0	Deafness,	NA	.	.	.	.	.	.
0	0	NA	.	.	.	.	KEC	.	.
0	0	Breast can	NA	CM1	.	PHO	KEC	PID	BIO
0	0	Myopia 23,	NA	.	PRO	INTR	CARE	PID	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	REACTOME_TRANSMEMBRANI
0	0	NA	.	.	.	.	.	.	REACTOME_TRANSMEMBRANI
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	KEC	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	MEM	RAS	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	POS	ORG	RECE	KEC	PID	.
0	0	NA	.	.	.	.	.	.	REACTOME_NEGATIVE_REGUI
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	RNA	NUC	RNA	KEC	.	.
0	0	Cardiomyo	NA	.	PRO	STR	KEC	PID	BIO
0	0	NA	.	.	.	.	KEC	.	.
0	0	NA	.	SIGN	INTR	PEPT	KEC	PID	.
0	0	NA	.	.	.	GTP	KEC	PID	.
0	0	NA	.	.	.	.	.	.	REACTOME_SIGNALING_BY_G
0	0	NA	.	.	.	.	.	.	REACTOME_SIGNALING_BY_RI
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	ORG	HYDF	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	Shwachma	NA	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	.
0	0	NA	.	.	.	.	.	.	REACTOME_O_LINKED_GLYCC

0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	BIOFORGTRAN.		PID.BIO(	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	EST/ORG.	.	.	.	.	.
0	0.	NA	.	ACTIADH STRL.	.	.	.	REACTOME_MUSCLE_CONTR/	
0	0.	NA	.	INTRCATI(	.	.	.	REACTOME_DEGRADATION_O	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	5-oxoprolir	NA	.	.	KEC.	.	REACTOME_BIOLOGICAL_OXII	
0	0.	NA	.	.	.	.	.	REACTOME_HIV_INFECTION;R	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	HOMCYT(	IDEN' KEC	PID.BIO(	REACTOME_DEVELOPMENTAL		
0	0.	NA	.	.	.	.	.	.	.
0	0	Pulmonary	NA	.	.	PID.	.	.	.
0	0	Cowden sy	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	REACTOME_O_LINKED_GLYCC	
0	0.	NA	.	.	.	.	.	.	.
0	0	Diabetes rr	NA	.	EST/	CATI(KEC	PID.	REACTOME_NEURONAL_SYST	
0	0	Glycogen ε	NA	.	CYT(OXID	KEC	PID.BIO(	REACTOME_PYRUVATE_META	
0	0	Dystonia 2	NA	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Asphyxiatir	NA	.	ORGCYT(	KEC.	.	REACTOME_MHC_CLASS_II_AI	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	REACTOME_TRANSMEMBRANI	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Methylmalc	NA	.	.	KEC.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	PRO INTRCATI(	KEC	PID.	REACTOME_DEGRADATION_O		
0	0	Atrial septa	NA	.	REG ORG	HYDF	KEC.	REACTOME_STRIATED_MUSCI	
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	BIOF	CELI	NUCL.	.	.	.
0	0.	NA	.	.	.	.	.	.	.
0	0	Angelman	NA	.	BIOF.	KEC	PID.BIO(	REACTOME_IMMUNE_SYSTEM	
0	0.	NA	.	SYS'	.	.	.	.	.
0	0	Colorectal	NA	.	MIT	ORG.	KEC	PID.	REACTOME_INHIBITION_OF_TI
0	0.	NA	.	.	.	.	.	.	.
0	0.	NA	.	.	.	.	.	.	.

0	0 {Pseudoxa	NA .	BIOS .	UDP_KEC .	.	.
0	0 .	NA .	POS INTRRECE	KEC .	.	REACTOME_CELL_SURFACE_I
0	0 .	NA .	SYS INTRRECE	KEC PID.BIO	.	REACTOME_CELL_SURFACE_I
0	0 .	NA .	REG INTRCATI	( .	.	REACTOME_TRANSMEMBRANI
0	0 .	NA .	MUL UBIGACID	KEC .	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	POS INTRG_PF	KEC .	.	REACTOME_SIGNALING_BY_G
0	0 .	NA .	.	MOT(KEC .	.	.
0	0 .	NA .	.	.	.	.
0	0 Alexander	NA .	.	ORG STRL .	.	REACTOME_SIGNALING_BY_EI
0	0 .	NA .	.	.	KEC .	REACTOME_ABCA_TRANSPOR
0	0 .	NA .	PRO ORGCHAF	.	.	REACTOME_PROTEIN_FOLDIN
0	0 .	NA .	.	.	.	.
0	0 [Blood gro	NA .	EST/INTRSUBS	.	.	REACTOME_TRANSMEMBRANI
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	INTRNUCL	KEC .	REACTOME_ABCA_TRANSPOR
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	INTRG_PF .	.	REACTOME_SIGNALING_BY_G
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	REACTOME_GENERIC_TRANSI
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	INTRCARE .	.	.
0	0 .	NA .	SIGN .	.	.	REACTOME_GASTRIN_CREB_5
0	0 .	NA .	.	.	.	REACTOME_DEVELOPMENTAL
0	0 Epileptic er	NA .	.	CYT( .	KEC PID.BIO	REACTOME_GASTRIN_CREB_5
0	0 .	NA .	.	.	.	REACTOME_FACTORS_INVOL\
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	CELL INTR .	KEC .	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	EST/INTRCATI	( .	.	.
0	0 .	NA .	.	CYT( .	.	.
0	0 Bethlem m	NA .	.	.	KEC PID .	REACTOME_DEVELOPMENTAL
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	INOF .	VOLT .	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	SIGN NONKINA	' .	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	GLY(CYT(TRAN	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	.	.	.	.
0	0 .	NA .	PRO .	KINA'KEC PID.BIO	.	REACTOME_SIGNALLING_BY_I
0	0 .	NA .	.	.	.	.



0	0.	NA	SIGN NUC DNA_		REACTOME_PPARA_ACTIVATE
0	0 Neurofibro:	NA	NUC NUC TRAN.		
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA	TRAN	KEC.	REACTOME_O_LINKED_GLYCC
0	0.	NA			
0	0.	NA			
0	0.	NA	SIGN CYT(CATI(	KEC.	REACTOME_SIGNALLING_BY_I
0	0.	NA			
0	0.	NA	PHOS	KEC.	
0	0.	NA	RNA.	TRAN.	REACTOME_INTEGRATION_OF
0	0.	NA			
0	0.	NA	MRN).	PID.	REACTOME_METABOLISM_OF_
0	0.	NA			
0	0 {Epilepsy, (	NA	MUS MEM/ CATI(	KEC.	REACTOME_DEVELOPMENTAL
0	0.	NA	BIOF.	NUCL.	
0	0.	NA			
0	0.	NA			
0	0.	NA	INTRG_PF.		
0	0.	NA	MUS PRO.	KEC.	REACTOME_EXTRACELLULAR_
0	0.	NA			
0	0.	NA			
0	0.	NA		PID.	REACTOME_REGULATION_OF_
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA			
0	0.	NA	CELI PRO1.		
0	0.	NA	MAC.		BIO( REACTOME_TRANSLATION;RE
0	0.	NA			
0	0.	NA	BIOF.	KEC.	BIO(
0	0 Mental retc	NA			
0	0.	NA		PID.	
0	0.	NA	RNA.	TRAN.	
0	0.	NA			
0	0 Congenital	NA	CI97 PAT.		
0	0 Hemophilic	NA	REG.	KEC.	BIO( REACTOME_RESPONSE_TO_E
0	0.	NA			
0	0.	NA			



\_VITAMINS\_AND\_COFACTORS

DESCRIPTION;REACTOME\_RNA\_POL\_II\_TRANSCRIPTION\_PRE\_INITIATION\_AND\_PROMOTER\_  
\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_MRNA\_PROCESSING;REACTOME\_  
ATIONS;REACTOME\_CYTOCHROME\_P450\_ARRANGED\_BY\_SUBSTRATE\_TYPE;REACTOME\_  
METABOLISM;REACTOME\_SYNTHESIS\_OF\_PE;REACTOME\_SYNTHESIS\_OF\_PC;REACTOME\_C

TORY\_INTERACTIONS\_BETWEEN\_A\_LYMPHOID\_AND\_A\_NON\_LYMPHOID\_CELL;REACTOME\_  
NSCRIPTION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITC  
\_LIPIDS\_AND\_LIPOPOTEINS;REACTOME\_CHOLESTEROL\_BIOSYNTHESIS

S;REACTOME\_IL1\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNA

\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;REACTOME\_ASP

\_TRNA\_AMINOACYLATION;REACTOME\_TRNA\_AMINOACYLATION

PCR;REACTOME\_CLASS\_B\_2\_SECRETIN\_FAMILY\_RECEPTORS;REACTOME\_GPCR\_DOWNST

.NSCRIPTION\_AND\_TRANSLATION;REACTOME\_YAP1\_AND\_WWTR1\_TAZ\_STIMULATED\_GENI

\_NON\_CODING\_RNA;REACTOME\_ANTIVIRAL\_MECHANISM\_BY\_IFN\_STIMULATED\_GENES;RE

NGF;REACTOME\_DAG\_AND\_IP3\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME  
/NT;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_CTNNB1\_PHOSPHORYLATION\_CASCADE

JATIONS;REACTOME\_GLUTATHIONE\_CONJUGATION;REACTOME\_PHASE\_II\_CONJUGATION

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

ACTOME\_FORMATION\_OF\_THE\_TERNARY\_COMPLEX\_AND\_SUBSEQUENTLY\_THE\_43S\_COM

ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAP

\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_AMINE\_DERIVED\_HORMONES

ING\_AND\_TARGETTING\_OF\_GAG\_PROTEINS;REACTOME\_HIV\_INFECTION;REACTOME\_HIV\_I

MUNICATION;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGE

NGF;REACTOME\_TRIF\_MEDIATED\_TLR3\_SIGNALING;REACTOME\_TCR\_SIGNALING;REACTOM

PCR;REACTOME\_OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_S

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_AMINO\_ACID

JLFATE\_BIOSYNTHESIS;REACTOME\_CHONDROITIN\_SULFATE\_DERMATAN\_SULFATE\_METAE

ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAP

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_TRANSPORT\_BY\_P\_TYPE\_ATPAS

PCR;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_E

\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_MRNA\_PROCESSING;REACTOME\_

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PI

NGF;REACTOME\_DAG\_AND\_IP3\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME

JATIONS;REACTOME\_XENOBIOTICS;REACTOME\_CYTOCHROME\_P450\_ARRANGED\_BY\_SUB:

JATIONS;REACTOME\_GLUTATHIONE\_CONJUGATION;REACTOME\_PHASE\_II\_CONJUGATION

VAYS;REACTOME\_ACTIVATION\_OF\_CHAPERONE\_GENES\_BY\_XBP1S;REACTOME\_UNFOLDE  
CRIPTION\_PATHWAY;REACTOME\_NUCLEAR\_RECEPTOR\_TRANSCRIPTION\_PATHWAY

\_INTRONLESS\_PRE\_MRNAS;REACTOME\_PROCESSING\_OF\_CAPPED\_INTRON\_CONTAINING\_  
THESIS;REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_GAG\_METABOLISM;REACTOME\_GLY  
HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THF

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_S  
NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_S

THE\_PRE\_REPLICATIVE\_COMPLEX;REACTOME\_CELL\_CYCLE;REACTOME\_ORC1\_REMOVAL\_  
EM;REACTOME\_VOLTAGE\_GATED\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM\_CHAN

PCR;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_E  
\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REAC

MUNICATION;REACTOME\_CELL\_EXTRACELLULAR\_MATRIX\_INTERACTIONS;REACTOME\_CEL

\_NUCLEOTIDES;REACTOME\_PURINE\_RIBONUCLEOSIDE\_MONOPHOSPHATE\_BIOSYNTHESIS  
\_BIOLOGY;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_  
HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THF

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_CELL\_CELL\_COMMUNICATION;REAC  
/ED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEM

DATIONS;REACTOME\_PHASE1\_FUNCTIONALIZATION\_OF\_COMPOUNDS;REACTOME\_ETHANC



/ED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEM  
.NSCRIPTION\_AND\_TRANSLATION;REACTOME\_PRE\_NOTCH\_EXPRESSION\_AND\_PROCESSI

EM;REACTOME\_TANDEM\_PORE\_DOMAIN\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM  
JLFATE\_DERMATAN\_SULFATE\_METABOLISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOI

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

·FICKING;REACTOME\_MEMBRANE\_BINDING\_AND\_TARGETTING\_OF\_GAG\_PROTEINS;REACT

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

NGF;REACTOME\_SIGNALLING\_TO\_RAS;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_TH  
CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM  
\_STEROID\_HORMONES\_AND\_VITAMINS\_A\_AND\_D;REACTOME\_HDL\_MEDIATED\_LIPID\_TRAN

\_PROTEIN\_IMPORT;REACTOME\_METABOLISM\_OF\_PROTEINS

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_AQUAPORIN\_MEDIATED\_TRANSPORT;

OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO  
OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO

THESIS;REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_GAG\_METABOLISM;REACTOME\_GLY

CEPTOR\_INTERACTIONS;REACTOME\_RESPONSE\_TO\_ELEVATED\_PLATELET\_CYTOSOLIC\_C  
WAYS;REACTOME\_ACTIVATION\_OF\_CHAPERONE\_GENES\_BY\_XBP1S;REACTOME\_UNFOLDE  
NTIGEN\_PRESENTATION;REACTOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOP

HO\_GTPASES

HO\_GTPASES

PCR;REACTOME\_OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_S

ON\_OF\_HOMO\_SAPIENS\_WITH\_MYCOBACTERIUM\_TUBERCULOSIS;REACTOME\_NITRIC\_OXII  
\_BIOLOGY;REACTOME\_NOTCH1\_INTRACELLULAR\_DOMAIN\_REGULATES\_TRANSCRIPTION;I  
TLR3\_SIGNALING;REACTOME\_RIP\_MEDIATED\_NFKB\_ACTIVATION\_VIA\_DAI;REACTOME\_APO

;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

PCR;REACTOME\_OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_S

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

.BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_MYOGENESIS;REACTOME\_NETRIN1\_

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

PHA\_BETA\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM  
COMMUNICATION;REACTOME\_CELL\_CELL\_JUNCTION\_ORGANIZATION;REACTOME\_TIGHT\_JUNC

G;REACTOME\_POST\_CHAPERONIN\_TUBULIN\_FOLDING\_PATHWAY;REACTOME\_METABOLIS

\_AMINO\_ACIDS\_AND\_DERIVATIVES

NEUROTRANSMITTER\_RELEASE\_CYCLE;REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYN

PCR;REACTOME\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOP

CTIONS;REACTOME\_PHASE1\_FUNCTIONALIZATION\_OF\_COMPOUNDS;REACTOME\_ETHANOL  
Oxidation;REACTOME\_PHASE1\_FUNCTIONALIZATION\_OF\_COMPOUNDS;REACTOME\_ETHANOL

.\_BIOLOGY;REACTOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_GENERIC\_TRAFFICKING

.\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_L1CAM\_INTERACTIONS  
HO\_GTPASES;REACTOME\_MEMBRANE\_TRAFFICKING;REACTOME\_TRANS\_GOLGI\_NETWORK

;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

.\_BIOLOGY;REACTOME\_SIGNALING\_BY\_NODAL  
PCR;REACTOME\_OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_S

\_NUCLEOTIDES;REACTOME\_PURINE\_RIBONUCLEOSIDE\_MONOPHOSPHATE\_BIOSYNTHESIS

/ED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_KINI  
/ED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_KINI  
{CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM

.\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_SIGNALING\_BY\_ROBO\_RECEPTOR  
IETABOLISM;REACTOME\_GASTRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;RE

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_CELL\_CELL\_COMMUNICATION;REAC  
NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_CELL\_CELL\_COMMUNICATION;REAC

SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME

SSING\_CROSS\_PRESENTATION;REACTOME\_ENDOSOMAL\_VACUOLAR\_PATHWAY;REACTOME  
TRANSCRIPTION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONDRION  
TRANSCRIPTION\_PATHWAY;REACTOME\_NUCLEAR\_RECEPTOR\_TRANSCRIPTION\_PATHWAY  
REGULATION\_OF\_GENE\_EXPRESSION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME  
OXIDATION;REACTOME\_GLUTATHIONE\_CONJUGATION;REACTOME\_PHASE\_II\_CONJUGATION  
EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

CELL\_BIOLOGY;REACTOME\_REGULATION\_OF\_BETA\_CELL\_DEVELOPMENT;REACTOME\_REGULATION

OF\_CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_SIGNALING\_EFFECTORS  
METABOLISM\_AND\_CITRIC\_ACID\_TCA\_CYCLE;REACTOME\_TCA\_CYCLE\_AND\_RESPIRATORY\_ELECTRON

TRANSPORTER\_INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_TIE2\_SIGNALING;REACTOME\_HEMOGLOBIN

TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORTER  
CELL\_BIOLOGY;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_AXON\_GUIDANCE;REACTOME\_LIPID

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

\_BIOLOGY;REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEUR

LEVATED\_PLATELET\_CYTOSOLIC\_CA2\_;REACTOME\_MUSCLE\_CONTRACTION;REACTOME\_

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_AQUAPORIN\_MEDIATED\_TRANSPORT;

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTC  
NGF;REACTOME\_DAG\_AND\_IP3\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME  
VAYS;REACTOME\_ACTIVATION\_OF\_CHAPERONE\_GENES\_BY\_XBP1S;REACTOME\_UNFOLDE

FICKING;REACTOME\_TRANS\_GOLGI\_NETWORK\_VESICLE\_BUDDING;REACTOME\_GOLGI\_AS



CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

BOLISM\_AND\_CITRIC\_ACID\_TCA\_CYCLE;REACTOME\_TCA\_CYCLE\_AND\_RESPIRATORY\_ELE

\_PATHWAY;REACTOME\_DNA\_REPAIR

SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME  
TOTHENATE\_METABOLISM;REACTOME\_METABOLISM\_OF\_VITAMINS\_AND\_COFACTORS;REA

VAYS;REACTOME\_PERK\_REGULATED\_GENE\_EXPRESSION;REACTOME\_ACTIVATION\_OF\_GE  
.COUPLED\_NER\_TC\_NER;REACTOME\_NUCLEOTIDE\_EXCISION\_REPAIR;REACTOME\_FORMA  
\_PROTEIN\_IMPORT;REACTOME\_METABOLISM\_OF\_PROTEINS

.\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OI  
VAYS;REACTOME\_PERK\_REGULATED\_GENE\_EXPRESSION;REACTOME\_ACTIVATION\_OF\_GE

MODELLING\_OF\_PI;REACTOME\_ACYL\_CHAIN\_REMODELLING\_OF\_PC;REACTOME\_PHOSPHO  
\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_GLYCOPROTEIN\_HORMONES;REACTOME\_F

NGF;REACTOME\_DAG\_AND\_IP3\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME  
CRIPTION\_PATHWAY

THE\_PRE\_REPLICATIVE\_COMPLEX;REACTOME\_CELL\_CYCLE;REACTOME\_ORC1\_REMOVAL\_

REACTOME\_GENERATION\_OF\_SECOND\_MESSENGER\_MOLECULES;REACTOME\_IMMUNE\_S'

IPPO

OSYLATION\_OF\_MUCINS;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRAN

HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THF  
\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_CHOLESTEROL\_BIOSYNTHESIS

;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

MUNICATION;REACTOME\_CELL\_CELL\_JUNCTION\_ORGANIZATION;REACTOME\_TIGHT\_JUNC

TEINS\_MEDIATED\_TRANSPORT;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_M

ATION\_OF\_SOLUBLE\_EXOGENOUS\_ANTIGENS\_ENDOSOMES;REACTOME\_ANTIGEN\_PROCE

HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THF

HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THF  
SCRIPTION\_TERMINATION;REACTOME\_RNA\_POL\_I\_TRANSCRIPTION;REACTOME\_TRANSCF  
\_NUCLEOTIDES;REACTOME\_PYRIMIDINE\_METABOLISM

NSPORT\_ACROSS\_THE\_PLASMA\_MEMBRANE;REACTOME\_TRANSMEMBRANE\_TRANSPORT  
NSPORT\_ACROSS\_THE\_PLASMA\_MEMBRANE;REACTOME\_TRANSMEMBRANE\_TRANSPORT  
HO\_GTPASES

HO\_GTPASES

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI  
SCRIPTION\_TERMINATION;REACTOME\_RNA\_POL\_I\_TRANSCRIPTION;REACTOME\_TRANSCF

NSCRIPTION\_INITIATION\_FROM\_TYPE\_2\_PROMOTER;REACTOME\_RNA\_POL\_III\_TRANSCRIP  
\_AMINO\_ACIDS\_AND\_DERIVATIVES

ELLULAR\_DOMAIN\_REGULATES\_TRANSCRIPTION;REACTOME\_SIGNALING\_BY\_NOTCH1;REA  
/ED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEM

PCR;REACTOME\_CLASS\_B\_2\_SECRETIN\_FAMILY\_RECEPTORS;REACTOME\_GPCR\_LIGAND\_

REPAIR;REACTOME\_RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_MULTIPLE\_NUCLEOTIDE\_PATCH  
REPAIR;REACTOME\_RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_MULTIPLE\_NUCLEOTIDE\_PATCH  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_TRANSPORT\_BY\_P\_TYPE\_ATPAS

ME\_CELL\_CYCLE;REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_REGULATION\_OF\_T  
PCR;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTORS;REACTOME\_P2Y\_RECEPTORS

\_BIOLOGY;REACTOME\_REGULATION\_OF\_BETA\_CELL\_DEVELOPMENT;REACTOME\_REGULA

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_TRAN

CRPTION\_PATHWAY

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T  
\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REAC

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

^STIMULATES\_GUANYLATE\_CYCLASE;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_HEM

ONE\_RECEPTOR\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_PROLACTIN\_R

SCRIPTION\_TERMINATION;REACTOME\_RNA\_POL\_I\_TRANSCRIPTION;REACTOME\_RNA\_POL

IPID\_METABOLISM;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_CS\_DS\_DEGRAD.  
IPID\_METABOLISM;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_CS\_DS\_DEGRAD.  
BILE\_SALT\_METABOLISM;REACTOME\_SYNTHESIS\_OF\_BILE\_ACIDS\_AND\_BILE\_SALTS\_VIA\_7,  
^\_AMINOACYLATION;REACTOME\_TRNA\_AMINOACYLATION  
^\_AMINOACYLATION;REACTOME\_TRNA\_AMINOACYLATION

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_CHANNEL\_TRANSPORT;REACTOM  
\_BIOLOGY;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYTE\_DIFFERE

ME\_CELL\_CYCLE;REACTOME\_RNA\_POL\_I\_TRANSCRIPTION;REACTOME\_TRANSCRIPTION;R

WAY\_FOR\_APOPTOSIS;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_TRANSCRIPTI

\_STEROID\_HORMONES\_AND\_VITAMINS\_A\_AND\_D;REACTOME\_BIOLOGICAL\_OXIDATIONS;RI

\_TRNA\_AMINOACYLATION;REACTOME\_TRNA\_AMINOACYLATION

;TOME\_BETA\_DEFENSINS;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_IMMUNE\_SYS

OSYLATION\_OF\_MUCINS;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRAN

TES\_B\_CELL\_RECEPTOR\_LEADING\_TO\_GENERATION\_OF\_SECOND\_MESSENGERS;REACTC

EFICKING;REACTOME\_ENDOSOMAL\_SORTING\_COMPLEX\_REQUIRED\_FOR\_TRANSPORT\_ES  
RBB4;REACTOME\_DOWNREGULATION\_OF\_ERBB2\_ERBB3\_SIGNALING;REACTOME\_SIGNALII

OR\_RECYCLING;REACTOME\_NEF\_MEDIATES\_DOWN\_MODULATION\_OF\_CELL\_SURFACE\_RE  
ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAP  
CELLULAR\_DOMAIN\_REGULATES\_TRANSCRIPTION;REACTOME\_SIGNALING\_BY\_NOTCH1;REA

)\_IRF7\_ACTIVATION;REACTOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOPME

ELLULAR\_DOMAIN\_REGULATES\_TRANSCRIPTION;REACTOME\_SIGNALING\_BY\_NOTCH1;REA

NGF;REACTOME\_ARMS\_MEDIATED\_ACTIVATION;REACTOME\_PROLONGED\_ERK\_ACTIVATIO

\_MRNA;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_NONSENSE\_MEDIATED\_DECAY\_ENI

\_BIOLOGY;REACTOME\_REGULATION\_OF\_APOPTOSIS;REACTOME\_AXON\_GUIDANCE;REAC  
\_BIOLOGY;REACTOME\_REGULATION\_OF\_APOPTOSIS;REACTOME\_AXON\_GUIDANCE;REAC

NTIGEN\_PRESENTATION;REACTOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOP

)SYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO

:CEPTOR\_INTERACTIONS;REACTOME\_RESPONSE\_TO\_ELEVATED\_PLATELET\_CYTOSOLIC\_C



.\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOME\_

CTOME\_GLUCCONEOGENESIS;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME  
CTOME\_GLUCCONEOGENESIS;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME  
\_TRAFFICKING;REACTOME\_TRANS\_GOLGI\_NETWORK\_VESICLE\_BUDDING;REACTOME\_GOLGI\_AS  
WAYS;REACTOME\_ACTIVATION\_OF\_CHAPERONE\_GENES\_BY\_XBP1S;REACTOME\_UNFOLDE

\_STEROID\_HORMONES\_AND\_VITAMINS\_A\_AND\_D;REACTOME\_BIOLOGICAL\_OXIDATIONS;RI  
\_STEROID\_HORMONES\_AND\_VITAMINS\_A\_AND\_D;REACTOME\_BIOLOGICAL\_OXIDATIONS;RI

\_E\_CONTRACTION;REACTOME\_MUSCLE\_CONTRACTION

.\_BIOLOGY;REACTOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_METABOLISM  
/MODELLING\_OF\_PI;REACTOME\_ACYL\_CHAIN\_REMODELLING\_OF\_PC;REACTOME\_PHOSPHO

/ED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEM

PTERIN\_BH4\_SYNTHESIS\_RECYCLING\_SALVAGE\_AND\_REGULATION;REACTOME\_ENOS\_AC

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_CYCLIN\_E\_ASSOCIATED\_EVENTS\_DURING\_G1\_  
CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_CYCLIN\_E\_ASSOCIATED\_EVENTS\_DURING\_G1\_

\_STEROID\_HORMONES\_AND\_VITAMINS\_A\_AND\_D;REACTOME\_TRAFFICKING\_AND\_PROCES

;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OI

ACTOME\_FORMATION\_OF\_THE\_TERNARY\_COMPLEX\_AND\_SUBSEQUENTLY\_THE\_43S\_COM

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTC  
NGF;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE

ICROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_TRIF\_MEDIATED\_TLR3\_SIGNALIN

\_MRNA;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_NONSENSE\_MEDIATED\_DECAY\_ENI  
OR\_SIGNALLING\_CASCADE;REACTOME\_PKB\_MEDIATED\_EVENTS;REACTOME\_SIGNALING\_E  
NSCRIPTION\_INITIATION\_FROM\_TYPE\_2\_PROMOTER;REACTOME\_RNA\_POL\_III\_TRANSCRIP

INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_INTEGRIN\_CELL\_SURFACE\_INTERA

\_TRIC\_CCT\_WITH\_TARGET\_PROTEINS\_DURING\_BIOSYNTHESIS;REACTOME\_PROTEIN\_FOL

;CYTOSOLIC\_CA2\_LEVELS;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_PLATELET\_CA

\_BIOLOGY;REACTOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_RORA\_ACTIVATES

HO\_GTPASES

LIPOSYNTHESIS;REACTOME\_FATTY\_ACYL\_COA\_BIOSYNTHESIS;REACTOME\_INTEGRATION\_O

\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REACTOME

GLUCOSE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOME

TRANSCRIPTION;REACTOME\_MRNA\_CAPPING;REACTOME\_MRNA\_PROCESSING;REACTOME\_TR

\_BIOLOGY;REACTOME\_MYOGENESIS

GLUCOSE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_TRANSPORT\_BY\_P\_TYPE\_ATPASES

HO\_GTPASES  
HO\_GTPASES  
\_BIOLOGY;REACTOME\_MYOGENESIS  
\_BIOLOGY;REACTOME\_MYOGENESIS

\_BIOLOGY;REACTOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_METABOLISM\_

OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO  
OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO  
OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO  
OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO

SCRIPTION\_PATHWAY

MAD4\_HETEROTRIMER\_REGULATES\_TRANSCRIPTION;REACTOME\_TRANSCRIPTIONAL\_ACTI

\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_AMINE\_DERIVED\_HORMONES;REACTOME\_

NGF;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY  
CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN  
CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_MODIFICATION\_SYNTHESIS\_OF\_GPI\_ANCH  
\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_MODIFICATION\_SYNTHESIS\_OF\_GPI\_ANCH

SCRIPTION\_PATHWAY

MUNICATION;REACTOME\_SIGNAL\_REGULATORY\_PROTEIN\_SIRP\_FAMILY\_INTERACTIONS

SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_TRANSMISSION\_ACROSS\_CHEMIK

S;REACTOME\_REGULATION\_OF\_SIGNALING\_BY\_CBL;REACTOME\_IL\_3\_5\_AND\_GM-CSF\_SIC  
\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REAC  
\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REAC

ACID\_METABOLISM;REACTOME\_METABOLISM\_OF\_AMINO\_ACIDS\_AND\_DERIVATIVES

\_AMINO\_ACIDS\_AND\_DERIVATIVES

RESSION\_AND\_PROCESSING;REACTOME\_PRE\_NOTCH\_PROCESSING\_IN\_GOLGI;REACTOM

\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REAC  
:S\_GENE\_EXPRESSION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTC  
ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAP.

D\_PROCESSING\_OF\_ENDOSOMAL\_TLR;REACTOME\_TRAF6\_MEDIATED\_INDUCION\_OF\_NF  
D\_PROCESSING\_OF\_ENDOSOMAL\_TLR;REACTOME\_TRAF6\_MEDIATED\_INDUCION\_OF\_NF  
\_E\_CONTRACTION;REACTOME\_MUSCLE\_CONTRACTION  
ATIONS;REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEUROI

\_RESPIRATORY\_ELECTRON\_TRANSPORT;REACTOME\_RESPIRATORY\_ELECTRON\_TRANSP  
\_BIOLOGY;REACTOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_GENERIC\_TRA

HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_CELL\_CELL\_COMMUNICATION

AVAGE\_OF\_CELLULAR\_PROTEINS;REACTOME\_APOPTOSIS;REACTOME\_APOPTOTIC\_EXECU

PHA\_BETA\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM

.\_BIOLOGY;REACTOME\_TCR\_SIGNALING;REACTOME\_GENERATION\_OF\_SECOND\_MESSENG

HE\_PROTEOLYTIC\_ACTIVITY\_OF\_APC\_C\_REQUIRED\_FOR\_THE\_ONSET\_OF\_ANAPHASE\_BY\_

\_PROTEIN\_IMPORT;REACTOME\_GLYCOGENOGENESIS;REACTOME\_METABOLISM\_OF\_PROTE  
;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

CRPTION\_PATHWAY

.\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_ACTIVATION\_OF\_RAC;REACTOME\_SI

NSPORT\_ACROSS\_THE\_PLASMA\_MEMBRANE;REACTOME\_TRANSMEMBRANE\_TRANSPORT

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAP:

NOTCH1\_TRANSMITS\_SIGNAL\_TO\_THE\_NUCLEUS;REACTOME\_SIGNALING\_BY\_NOTCH1;REACTO

MODIFICATIONS;REACTOME\_GLUTATHIONE\_CONJUGATION;REACTOME\_PHASE\_II\_CONJUGATION

VEGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_S

ERBB4;REACTOME\_DOWNREGULATION\_OF\_ERBB2\_ERBB3\_SIGNALING;REACTOME\_SIGNALING  
DNA\_REPAIR;REACTOME\_RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_MULTIPLE\_NUCLEOTIDE\_PATCH



SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME  
\_AMINO\_ACIDS\_AND\_DERIVATIVES

BILE\_SALT\_METABOLISM;REACTOME\_SYNTHESIS\_OF\_BILE\_ACIDS\_AND\_BILE\_SALTS\_VIA\_7,

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PI

TORY\_INTERACTIONS\_BETWEEN\_A\_LYMPHOID\_AND\_A\_NON\_LYMPHOID\_CELL;REACTOME\_  
\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REAC

ANISM\_BY\_IFN\_STIMULATED\_GENES;REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING;F  
;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

CH1\_TRANSMITS\_SIGNAL\_TO\_THE\_NUCLEUS;REACTOME\_SIGNALING\_BY\_NOTCH1;REACTO

PTOR\_SIGNALING\_IN\_EMT\_EPITHELIAL\_TO\_MESENCHYMAL\_TRANSITION;REACTOME\_GPVI

ICED\_DNA\_FRAGMENTATION;REACTOME\_APOPTOSIS;REACTOME\_APOPTOTIC\_EXECUTION  
IPPO  
IPPO

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_S

PCR;REACTOME\_CLASS\_C\_3\_METABOTROPIC\_Glutamate\_PHEROMONE\_RECEPTORS;RE  
;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN  
;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

3;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM  
ATION;REACTOME\_CHONDROITIN\_SULFATE\_DERMATAN\_SULFATE\_METABOLISM;REACTO  
ATION;REACTOME\_CHONDROITIN\_SULFATE\_DERMATAN\_SULFATE\_METABOLISM;REACTO

\_CARBOHYDRATES  
\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_

\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;REACTOME\_ASP

NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_TRIF\_MEDIATED\_TLR3\_SIGNALIN

YTAKE\_AND\_DEGRADATION;REACTOME\_HYALURONAN\_METABOLISM;REACTOME\_GLYCOS/  
YTAKE\_AND\_DEGRADATION;REACTOME\_HYALURONAN\_METABOLISM;REACTOME\_GLYCOS/

CF\_KIT;REACTOME\_REGULATION\_OF\_KIT\_SIGNALING;REACTOME\_NEF\_MEDIATES\_DOWN\_

EM;REACTOME\_VOLTAGE\_GATED\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM\_CHAN  
EM;REACTOME\_VOLTAGE\_GATED\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM\_CHAN

\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_MRNA\_PROCESSING;REACTOME\_  
\_BIOLOGY;REACTOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_GENERIC\_TR/

ON\_OF\_FGF\_SIGNALING;REACTOME\_NEGATIVE\_REGULATION\_OF\_FGFR\_SIGNALING;REACT

OSTASIS;REACTOME\_PLATELET\_SENSITIZATION\_BY\_LDL;REACTOME\_HEMOSTASIS

◁\_STIMULATES\_FATTY\_ACID\_OXIDATION\_IN\_MUSCLE;REACTOME\_INSULIN\_RECEPTOR\_SIG

REACTOME\_ANTIVIRAL\_MECHANISM\_BY\_IFN\_STIMULATED\_GENES;REACTOME\_SIGNALING\_

\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_MODIFICATION\_SYNTHESIS\_OF\_GPI\_ANCH

SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME

PROTEINS\_MEDIATED\_TRANSPORT;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_M  
PROTEINS\_MEDIATED\_TRANSPORT;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_M

EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

TRANSCRIPTION\_AND\_TRANSLATION;REACTOME\_PRE\_NOTCH\_EXPRESSION\_AND\_PROCESSING  
OF\_GTPASES;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_SIGNALING\_BY\_GPCR;F

DEPURINATION\_OF\_NUCLEOTIDES;REACTOME\_PURINE\_SALVAGE;REACTOME\_PURINE\_METABOLISM  
DEPURINATION\_OF\_NUCLEOTIDES;REACTOME\_PURINE\_SALVAGE;REACTOME\_PURINE\_METABOLISM

TRANSCRIPTION\_AND\_TRANSLATION;REACTOME\_SIGNALING\_BY\_NOTCH2;REACTOME\_PRE\_N  
TRANSCRIPTION\_AND\_TRANSLATION;REACTOME\_SIGNALING\_BY\_NOTCH2;REACTOME\_PRE\_N

TRANSCRIPTION\_INITIATION\_FROM\_TYPE\_2\_PROMOTER;REACTOME\_RNA\_POL\_III\_TRANSCRIP

CHARGING\_OF\_TRNA\_AMINOACYLATION;REACTOME\_TRNA\_AMINOACYLATION

PHOSPHOLIPID\_METABOLISM;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_PI

ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN  
PRESENTATION;REACTOME\_PROTEIN\_IMPORT;REACTOME\_METABOLISM\_OF\_PROTEINS

CELL\_CYCLE\_MITOTIC;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_DNA\_R  
OF\_GTPASES;REACTOME\_SIGNALING\_BY\_NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;R

\_SYSTEM;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_COMPLEMENT\_CASCADE;REACTOME\_PCR;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_ENSCRIPTION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITCINTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_RESPONSE\_TO\_ELEVATED\_PLATELVAYS;REACTOME\_REGULATION\_OF\_INSULIN\_LIKE\_GROWTH\_FACTOR\_IGF\_ACTIVITY\_BY\_INF\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_SIGNALING\_BY\_ROBO\_RECEPTOR

\_NON\_CODING\_RNA;REACTOME\_ANTIVIRAL\_MECHANISM\_BY\_IFN\_STIMULATED\_GENES;RE

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOME\_PROTEIN\_IMPORT;REACTOME\_METABOLISM\_OF\_PROTEINSMETABOLISM;REACTOME\_SYNTHESIS\_OF\_PE;REACTOME\_GLYCEROPHOSPHOLIPID\_BIOSYN\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOME\_COMPLEMENT\_CASCADE;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_IMMUNE\_SY

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_CRMP5\_IN\_SEMA3A\_SIGNALING;REA\_STEROID\_HORMONES\_AND\_VITAMINS\_A\_AND\_D;REACTOME\_STEROID\_HORMONES;REAC

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_IRON\_UPTAKE\_AND\_TRANSPORT

SCRIPTION\_PATHWAY;REACTOME\_NUCLEAR\_RECEPTOR\_TRANSCRIPTION\_PATHWAY

\_TRNA\_AMINOACYLATION;REACTOME\_TRNA\_AMINOACYLATIONTRNA\_AMINOACYLATION;REACTOME\_TRNA\_AMINOACYLATION

\_BIOLOGY;REACTOME\_SIGNALING\_BY\_NODAL;REACTOME\_RESPONSE\_TO\_ELEVATED\_PLAHO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THF

EM;REACTOME\_TANDEM\_PORE\_DOMAIN\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME  
DESCRIPTION\_PATHWAY

\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_AMINE\_DERIVED\_HORMONES

MODELLING\_OF\_PC;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_ACYL\_CHAIN\_RE  
NGF;REACTOME\_GROWTH\_HORMONE\_RECEPTOR\_SIGNALING;REACTOME\_SIGNALING\_BY

EM;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_REGULATION\_OF\_IN

\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REACTOME

\_NUCLEOTIDES;REACTOME\_PYRIMIDINE\_METABOLISM  
\_NUCLEOTIDES;REACTOME\_PYRIMIDINE\_METABOLISM

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT

\_BIOLOGY;REACTOME\_CELL\_CELL\_COMMUNICATION;REACTOME\_AXON\_GUIDANCE;REACTOME  
\_BIOLOGY;REACTOME\_CELL\_CELL\_COMMUNICATION;REACTOME\_AXON\_GUIDANCE;REACTOME  
NGF;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALING

ATIONS;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME\_GLUCURONIDATION  
S;REACTOME\_IL1\_SIGNALING;REACTOME\_IRAK1\_RECRUITS\_IKK\_COMPLEX;REACTOME\_THO\_GTPASES

RBOXYLATION\_HYPUSINE\_FORMATION\_AND\_ARYLSULFATASE\_ACTIVATION;REACTOME\_G/

\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_MRNA\_PROCESSING;REACTOME\_

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_DNA\_R

NGF;REACTOME\_SIGNALLING\_TO\_RAS;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_TH  
RBOXYLATION\_HYPUSINE\_FORMATION\_AND\_ARYLSULFATASE\_ACTIVATION;REACTOME\_G/

IPID\_METABOLISM;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_SPHINGOLIPID\_M

PCR;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTORS;REACTOME\_GPCR\_LIGAND\_BI

\_E\_CONTRACTION;REACTOME\_MUSCLE\_CONTRACTION  
FICKING;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_EGFR\_DOWNREGULA

\_ENERGY\_METABOLISM;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME\_S  
\_ENERGY\_METABOLISM;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME\_S

BILE\_SALT\_METABOLISM;REACTOME\_SYNTHESIS\_OF\_BILE\_ACIDS\_AND\_BILE\_SALTS\_VIA\_7,



CTOME\_MHC\_CLASS\_II\_ANTIGEN\_PRESENTATION;REACTOME\_CELL\_CYCLE\_MITOTIC;REA  
SURFACE\_INTERACTIONS;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOM

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

PID\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS  
PCR;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_

\_BIOLOGY;REACTOME\_ANTIGEN\_PROCESSING\_CROSS\_PRESENTATION;REACTOME\_CELL  
\_BIOLOGY;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_

CF\_KIT;REACTOME\_GROWTH\_HORMONE\_RECEPTOR\_SIGNALING;REACTOME\_ANTIVIRAL\_M

ACTOME\_METABOLISM\_OF\_PROTEINS

\_AMINO\_ACIDS\_AND\_DERIVATIVES

DN\_OF\_HOMO\_SAPIENS\_WITH\_MYCOBACTERIUM\_TUBERCULOSIS;REACTOME\_TRANSMEM

\_E\_CONTRACTION;REACTOME\_MUSCLE\_CONTRACTION

NGF;REACTOME\_GROWTH\_HORMONE\_RECEPTOR\_SIGNALING;REACTOME\_INSULIN\_RECEI

SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME

PAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REACTOME\_CIRCADIAN\_CLOCK

.\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_L1CAM\_INTERACTIONS

.\_THE\_FANCONI\_ANEMIA\_PATHWAY;REACTOME\_FANCONI\_ANEMIA\_PATHWAY;REACTOME\_I  
CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTC

EM;REACTOME\_VOLTAGE\_GATED\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM\_CHAN  
CRIPTION\_PATHWAY;REACTOME\_NUCLEAR\_RECEPTOR\_TRANSCRIPTION\_PATHWAY

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI  
PTOR\_SIGNALING\_IN\_EMT\_EPITHELIAL\_TO\_MESENCHYMAL\_TRANSITION;REACTOME\_DOW

ME\_MEIOTIC\_RECOMBINATION

PCR;REACTOME\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOF

.\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

:S\_GENE\_EXPRESSION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTC

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM  
CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM  
GFR\_IN\_DISEASE;REACTOME\_SIGNALING\_BY\_FGFR  
APOPTOSIS;REACTOME\_ROLE\_OF\_DCC\_IN\_REGULATING\_APOPTOSIS;REACTOME\_APOPT

AMINO\_ACIDS\_AND\_DERIVATIVES  
BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_CRMP5\_IN\_SEMA3A\_SIGNALING;REA

ME\_CELL\_CYCLE;REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_REGULATION\_OF\_T  
MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

L\_ACTIVITY\_OF\_SMAD2\_SMAD3\_SMAD4\_HETEROTRIMER;REACTOME\_DOWNREGULATION\_  
EM;REACTOME\_CGMP\_EFFECTS;REACTOME\_NITRIC\_OXIDE\_STIMULATES\_GUANYLATE\_CY

\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_BRANCHED\_CHAIN\_AMINO\_ACID\_CATABOL

PCR;REACTOME\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOF

OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO

VAYS;REACTOME\_ACTIVATION\_OF\_CHAPERONE\_GENES\_BY\_XBP1S;REACTOME\_UNFOLDE

LATORS\_OF\_RIG\_I\_MDA5\_SIGNALING;REACTOME\_RIG\_I\_MDA5\_MEDIATED\_INDUCTION\_OF\_  
LATORS\_OF\_RIG\_I\_MDA5\_SIGNALING;REACTOME\_RIG\_I\_MDA5\_MEDIATED\_INDUCTION\_OF\_

HO\_GTPASES

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

VAYS;REACTOME\_INSULIN\_SYNTHESIS\_AND\_PROCESSING

DATIONS;REACTOME\_GLUCURONIDATION;REACTOME\_PHASE\_II\_CONJUGATION

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

31;REACTOME\_CELL\_CYCLE;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_MITOTIC\_G1\_C  
HO\_GTPASES

THESIS;REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_GAG\_METABOLISM;REACTOME\_GLY

OSYLATION\_OF\_MUCINS;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRAN

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T  
CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PI

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;R  
HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;R

<\_STIMULATES\_FATTY\_ACID\_OXIDATION\_IN\_MUSCLE;REACTOME\_INSULIN\_RECEPTOR\_SIG  
\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_  
:S\_GENE\_EXPRESSION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTC

PCR;REACTOME\_OPIOID\_SIGNALLING;REACTOME\_DARPP\_32\_EVENTS;REACTOME\_GPCR\_|  
CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_CHROM

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_CELL\_CELL\_COMMUNICATION;REAC`  
CTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_ACTIVATION\_OF\_ATR\_IN\_RESPONSE\_TO

TION;REACTOME\_CHONDROITIN\_SULFATE\_BIOSYNTHESIS;REACTOME\_CHONDROITIN\_SUI

RBOXYLATION\_HYPUSINE\_FORMATION\_AND\_ARYLSULFATASE\_ACTIVATION;REACTOME\_GL

.\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_OTHER\_SEMAPHORIN\_INTERACTION

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_CYCL  
CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_CYCL  
PHA\_BETA\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM  
PHA\_BETA\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM

ACTOME\_CTNNB1\_PHOSPHORYLATION\_CASCADE;  
ACTOME\_NITRIC\_OXIDE\_STIMULATES\_GUANYLATE\_CYCLASE;  
ACTOME\_PLATELET\_HC

IPPO

ACTOME\_AMINOACYLATION;  
ACTOME\_TRNA\_AMINOACYLATION;  
ACTOME\_BIOLOGY;  
ACTOME\_AXON\_GUIDANCE;  
ACTOME\_NETRIN1\_SIGNALING

ACTOME\_FGFR\_SIGNALING;  
ACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;  
ACTOME\_FGFR\_SIGNALING;  
ACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;  
ACTOME\_FGFR\_SIGNALING;  
ACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;  
ACTOME

ACTOME\_SRP\_DEPENDENT\_COTRANSLATIONAL\_PROTEIN\_TARGETING\_TO\_MEMBRANE;  
ACTOME\_PCR;  
ACTOME\_CLASS\_C\_3\_METABOTROPIC\_Glutamate\_PHEROMONE\_RECEPTORS;  
ACTOME

ACTOME\_PROTEINS;  
ACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;  
ACTOME\_ASP\_PROTEINS;  
ACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;  
ACTOME\_SYN

ACTOME\_FICKING;  
ACTOME\_TRANS\_GOLGI\_NETWORK\_VESICLE\_BUDDING;  
ACTOME\_GOLGI\_AS

ACTOME\_CRIPTION\_PATHWAY

ACTOME\_COMBINATION\_REPAIR\_OF\_REPLICATION\_INDEPENDENT\_DOUBLE\_STRAND\_BREAKS;  
ACTOME\_REA

ACTOME\_AMINOACYLATION;  
ACTOME\_TRNA\_AMINOACYLATION

ACTOME\_MATRIX\_ORGANIZATION;  
ACTOME\_COLLAGEN\_FORMATION;  
ACTOME\_MATRIX\_ORGANIZATION;  
ACTOME\_COLLAGEN\_FORMATION

NGF;REACTOME\_DAG\_AND\_IP3\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME  
SCRIPTION\_PATHWAY;REACTOME\_NUCLEAR\_RECEPTOR\_TRANSCRIPTION\_PATHWAY  
SCRIPTION\_PATHWAY;REACTOME\_NUCLEAR\_RECEPTOR\_TRANSCRIPTION\_PATHWAY  
SCRIPTION\_PATHWAY;REACTOME\_NUCLEAR\_RECEPTOR\_TRANSCRIPTION\_PATHWAY  
ACTOME\_SRP\_DEPENDENT\_COTRANSLATIONAL\_PROTEIN\_TARGETING\_TO\_MEMBRANE;RE

3FR\_IN\_DISEASE;REACTOME\_FRS2\_MEDIATED\_CASCADE;REACTOME\_DOWNSTREAM\_SIGI

A\_BIOGENESIS;REACTOME\_REGULATORY\_RNA\_PATHWAYS

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_BRANCHED\_CHAIN\_AMINO\_ACID\_CATABOL  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

SCRIPTION\_PATHWAY;REACTOME\_NUCLEAR\_RECEPTOR\_TRANSCRIPTION\_PATHWAY

SURFACE\_INTERACTIONS  
SURFACE\_INTERACTIONS

ROTOXICITY;REACTOME\_PROTEOLYTIC\_CLEAVAGE\_OF\_SNARE\_COMPLEX\_PROTEINS;REA



JLFATE\_DERMATAN\_SULFATE\_METABOLISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM

ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAPOSMAL  
ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAPOSMAL  
ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAPOSMAL

\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSPORT  
;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

JLFATE\_BIOSYNTHESIS;REACTOME\_CHONDROITIN\_SULFATE\_DERMATAN\_SULFATE\_METABOLISM  
IGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_ACTIVATION\_OF\_NF\_KAPPAE

SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

PROTEINS\_MEDIATED\_TRANSPORT;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES

\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_BRANCHED\_CHAIN\_AMINO\_ACID\_CATABOLISM  
TLR3\_SIGNALING;REACTOME\_TAK1\_ACTIVATES\_NFKB\_BY\_PHOSPHORYLATION\_AND\_ACTIVATION

:\_TRIC\_CCT\_WITH\_TARGET\_PROTEINS\_DURING\_BIOSYNTHESIS;REACTOME\_PROTEIN\_FOL

.BOLISM\_AND\_CITRIC\_ACID\_TCA\_CYCLE;REACTOME\_TCA\_CYCLE\_AND\_RESPIRATORY\_ELE  
VGF;REACTOME\_DAG\_AND\_IP3\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME  
VAYS;REACTOME\_REGULATION\_OF\_INSULIN\_LIKE\_GROWTH\_FACTOR\_IGF\_ACTIVITY\_BY\_IN

OSYLATION\_OF\_MUCINS;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRAN

ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAP  
PCR;REACTOME\_CLASS\_B\_2\_SECRETIN\_FAMILY\_RECEPTORS;REACTOME\_GPCR\_LIGAND\_

CH1\_TRANSMITS\_SIGNAL\_TO\_THE\_NUCLEUS;REACTOME\_SIGNALING\_BY\_NOTCH1;REACTO

.\_BIOLOGY;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_CELL\_SURF  
;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO  
GFR\_IN\_DISEASE;REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;REACTOME\_SIGNALING\_BY

'NT;REACTOME\_CROSS\_PRESENTATION\_OF\_SOLUBLE\_EXOGENOUS\_ANTIGENS\_ENDOSOM  
THE\_PRE\_REPLICATIVE\_COMPLEX;REACTOME\_CELL\_CYCLE;REACTOME\_ORC1\_REMOVAL

\_AMINO\_ACIDS\_AND\_DERIVATIVES

MUNICATION;REACTOME\_CELL\_EXTRACELLULAR\_MATRIX\_INTERACTIONS;REACTOME\_CEL  
PCR;REACTOME\_CLASS\_B\_2\_SECRETIN\_FAMILY\_RECEPTORS;REACTOME\_GPCR\_LIGAND

SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME  
SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME  
OR\_RECYCLING;REACTOME\_LATENT\_INFECTION\_OF\_HOMO\_SAPIENS\_WITH\_MYCOBACTERI

\_CARBOHYDRATES;REACTOME\_DIGESTION\_OF\_DIETARY\_CARBOHYDRATE

PTERIN\_BH4\_SYNTHESIS\_RECYCLING\_SALVAGE\_AND\_REGULATION;REACTOME\_LATENT\_I

\_BIOLOGY;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_OPIOID\_SIGNALLING;REACTOME

<\_STIMULATES\_FATTY\_ACID\_OXIDATION\_IN\_MUSCLE;REACTOME\_INSULIN\_RECEPTOR\_SIG  
<\_STIMULATES\_FATTY\_ACID\_OXIDATION\_IN\_MUSCLE;REACTOME\_INSULIN\_RECEPTOR\_SIG

;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

;TOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_IMMUNE\_SYSTEM

HO\_GTPASES  
\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;REACTOME\_ASP

/ED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEM

ME\_MEIOTIC\_RECOMBINATION

.\_BIOLOGY;REACTOME\_NEGATIVE\_REGULATION\_OF\_FGFR\_SIGNALING;REACTOME\_INSULII  
.\_BIOLOGY;REACTOME\_NEGATIVE\_REGULATION\_OF\_FGFR\_SIGNALING;REACTOME\_INSULII

REPAIR;REACTOME\_RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_MULTIPLE\_NUCLEOTIDE\_PATCH

PCR;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_

\_BIOLOGY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPOTEINS;REACTOME\_TRANSC

\_FATTY\_ACID\_BETA\_OXIDATION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPOTEINS  
\_FATTY\_ACID\_BETA\_OXIDATION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPOTEINS

EM;REACTOME\_VOLTAGE\_GATED\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM\_CHAN

EM;REACTOME\_TANDEM\_PORE\_DOMAIN\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM

AVAGE\_OF\_CELLULAR\_PROTEINS;REACTOME\_CELL\_CELL\_COMMUNICATION;REACTOME\_C

ROTRANSMITTER\_RELEASE\_CYCLE;REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYN  
NSCRIPTION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITC

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

\_RESPIRATORY\_ELECTRON\_TRANSPORT;REACTOME\_RESPIRATORY\_ELECTRON\_TRANSP  
MUNICATION;REACTOME\_CELL\_EXTRACELLULAR\_MATRIX\_INTERACTIONS;REACTOME\_CEL

NGF;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE

NGF;REACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;REACTOME\_SIGNALLING\_TO  
A\_AMINOACYLATION;REACTOME\_TRNA\_AMINOACYLATION

\_PORPHYRINS  
\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION  
\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION  
\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

VAYS;REACTOME\_REGULATION\_OF\_INSULIN\_LIKE\_GROWTH\_FACTOR\_IGF\_ACTIVITY\_BY\_IN

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PI

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_S  
;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN  
ROTRANSMITTER\_RELEASE\_CYCLE;REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYN  
\_VITAMINS\_AND\_COFACTORS

AVAGE\_OF\_CELLULAR\_PROTEINS;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_CEL  
AVAGE\_OF\_CELLULAR\_PROTEINS;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_CEL  
AVAGE\_OF\_CELLULAR\_PROTEINS;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_CEL  
AVAGE\_OF\_CELLULAR\_PROTEINS;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_CEL  
\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_AMINO\_ACID\_SYNTHESIS\_AND\_INTERCONV  
\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_AMINO\_ACID\_SYNTHESIS\_AND\_INTERCONV  
\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;REACTOME\_SYN  
PID\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS  
PID\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS  
NGF;REACTOME\_ARMS\_MEDIATED\_ACTIVATION;REACTOME\_PROLONGED\_ERK\_ACTIVATIO

NSCRIPTION\_INITIATION\_FROM\_TYPE\_2\_PROMOTER;REACTOME\_RNA\_POL\_III\_TRANSCRIP  
NGF;REACTOME\_SIGNALLING\_TO\_RAS;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_TH

\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_AMINE\_DERIVED\_HORMONES  
\_BIOLOGY;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_  
\_BIOLOGY;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_  
\_BIOLOGY;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_

WAY\_FOR\_APOPTOSIS;REACTOME\_TRAF6\_MEDIATED\_IRF7\_ACTIVATION;REACTOME\_TRAF  
\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;REACTOME\_ASP  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

\_STEROID\_HORMONES\_AND\_VITAMINS\_A\_AND\_D;REACTOME\_HDL\_MEDIATED\_LIPID\_TRAN  
\_STEROID\_HORMONES\_AND\_VITAMINS\_A\_AND\_D;REACTOME\_HDL\_MEDIATED\_LIPID\_TRAN

SURFACE\_INTERACTIONS;REACTOME\_P130CAS\_LINKAGE\_TO\_MAPK\_SIGNALING\_FOR\_INTE

METABOLISM;REACTOME\_SYNTHESIS\_OF\_PC;REACTOME\_GLYCEROPHOSPHOLIPID\_BIOSYN

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

PCR;REACTOME\_OPIOID\_SIGNALLING;REACTOME\_DARPP\_32\_EVENTS



DATIONS;REACTOME\_XENOBIOTICS;REACTOME\_CYTOCHROME\_P450\_ARRANGED\_BY\_SUB:  
TES\_B\_CELL\_RECEPTOR\_LEADING\_TO\_GENERATION\_OF\_SECOND\_MESSENGERS;REACTC

JATION;REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_GAG\_METABOLISM;REACTOME\_GLY

MUNICATION;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGE

NGF;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING  
\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOME\_

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NETRIN1\_SIGNALING;REACTOME\_DC  
\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NETRIN1\_SIGNALING;REACTOME\_DC

\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_BIOLOGICAL\_OXIDATIONS;REACTOME\_PHA  
\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_BIOLOGICAL\_OXIDATIONS;REACTOME\_PHA  
\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_BIOLOGICAL\_OXIDATIONS;REACTOME\_PHA

'NT;REACTOME\_CROSS\_PRESENTATION\_OF\_SOLUBLE\_EXOGENOUS\_ANTIGENS\_ENDOSOI

NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_NEF\_MEDIATES\_DOWN\_MODULA

)SYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTC  
)SYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTC  
)SYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTC  
)SYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTC

OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTOME\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_AMINE\_DERIVED\_HORMONES

TORY\_INTERACTIONS\_BETWEEN\_A\_LYMPHOID\_AND\_A\_NON\_LYMPHOID\_CELL;REACTOME\_

PCR;REACTOME\_OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_S

PAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REACTOME\_PPARA\_ACTIVATES\_GENE\_EXPRES

OR\_SIGNALLING\_CASCADE;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_GPCR\_DOWNST  
\_STEROID\_HORMONES\_AND\_VITAMINS\_A\_AND\_D;REACTOME\_BIOLOGICAL\_OXIDATIONS;RI

\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_AMINE\_DERIVED\_HORMONES

TLR3\_SIGNALING;REACTOME\_RIP\_MEDIATED\_NFKB\_ACTIVATION\_VIA\_DAI;REACTOME\_GAS  
BOLISM\_AND\_CITRIC\_ACID\_TCA\_CYCLE;REACTOME\_TCA\_CYCLE\_AND\_RESPIRATORY\_ELE  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

AVAGE\_OF\_CELLULAR\_PROTEINS;REACTOME\_CASPASE\_MEDIATED\_CLEAVAGE\_OF\_CYTOS

IOSYNTHESIS;REACTOME\_FATTY\_ACYL\_COA\_BIOSYNTHESIS;REACTOME\_METABOLISM\_OF

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PI

PCR;REACTOME\_OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_S

PCR;REACTOME\_OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_S  
PCR;REACTOME\_OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_S  
'\_5\_TO\_3\_EXORIBONUCLEASE;REACTOME\_METABOLISM\_OF\_MRNA;REACTOME\_DEADENYL

:S\_GENE\_EXPRESSION;REACTOME\_ALPHA\_LINOLENIC\_ACID\_ALA\_METABOLISM;REACTOME

\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_TRANSPORT\_OF\_MATURE\_TRAN

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_S  
KDOWN\_GLYCOGENOLYSIS;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME\_

VAYS;REACTOME\_ACTIVATION\_OF\_CHAPERONE\_GENES\_BY\_XBP1S;REACTOME\_UNFOLDED  
THE\_PRE\_REPLICATIVE\_COMPLEX;REACTOME\_CELL\_CYCLE;REACTOME\_PROCESSIVE\_SY  
EM;REACTOME\_TANDEM\_PORE\_DOMAIN\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM

3;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM  
3;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

ANTIGEN\_PRESENTATION;REACTOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOP

MENT\_OF\_TGF\_BETA\_RECEPTOR\_SIGNALING;REACTOME\_TGF\_BETA\_RECEPTOR\_SIGNALING\_  
RESPIRATORY\_ELECTRON\_TRANSPORT;REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPOR  
OR\_RECYCLING;REACTOME\_LATENT\_INFECTION\_OF\_HOMO\_SAPIENS\_WITH\_MYCOBACTERI

\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_CHOLESTEROL\_BIOSYNTHESIS

HO\_GTPASES

LIPID\_METABOLISM;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_SPHINGOLIPID\_M  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

ANTIGEN\_PRESENTATION;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SY  
STIMULATES\_GUANYLATE\_CYCLASE;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_HEM

ORRIBB2;REACTOME\_HIV\_INFECTION;REACTOME\_HOST\_INTERACTIONS\_OF\_HIV\_FACTORS;RE  
\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_BRANCHED\_CHAIN\_AMINO\_ACID\_CATABOL  
ME\_CELL\_CYCLE;REACTOME\_P53\_INDEPENDENT\_G1\_S\_DNA\_DAMAGE\_CHECKPOINT;REAC

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_DNA\_R  
MUNICATION;REACTOME\_ADHERENS\_JUNCTIONS\_INTERACTIONS;REACTOME\_CELL\_CELL

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_I

\_TRANSPORT;REACTOME\_MEMBRANE\_TRAFFICKING  
'\_5\_TO\_3\_EXORIBONUCLEASE;REACTOME\_METABOLISM\_OF\_MRNA;REACTOME\_DEADENYL

HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;R  
HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;R  
PCR;REACTOME\_OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_S

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_G1\_PHASE;REACTOME\_MITOTIC\_G1\_G1\_S\_PHA  
EM;REACTOME\_VOLTAGE\_GATED\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM\_CHAN  
WAY\_FOR\_APOPTOSIS;REACTOME\_APOPTOSIS  
DOWN\_MODULATION\_OF\_CELL\_SURFACE\_RECEPTORS\_BY\_RECRUITING\_THEM\_TO\_CLATH

'IPS\_AT\_THE\_GOLGI\_MEMBRANE;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_SY  
'IPS\_AT\_THE\_GOLGI\_MEMBRANE;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_SY  
BILE\_SALT\_METABOLISM;REACTOME\_RECYCLING\_OF\_BILE\_ACIDS\_AND\_SALTS;REACTOME

OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO  
OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO

NGF;REACTOME\_DAG\_AND\_IP3\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME

TORY\_INTERACTIONS\_BETWEEN\_A\_LYMPHOID\_AND\_A\_NON\_LYMPHOID\_CELL;REACTOME

TRIC\_CCT\_WITH\_TARGET\_PROTEINS\_DURING\_BIOSYNTHESIS;REACTOME\_PREFOLDIN\_M

E\_CONTRACTION;REACTOME\_MUSCLE\_CONTRACTION  
TAKE\_AND\_DEGRADATION;REACTOME\_HYALURONAN\_METABOLISM;REACTOME\_GLYCOS/  
REPAIR;REACTOME\_RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_MULTIPLE\_NUCLEOTIDE\_PATCH

.\_BIOLOGY;REACTOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_METABOLISM\_OF\_HOMO\_SAPIENS\_WITH\_MYCOBACTERIUM\_TUBERCULOSIS;REACTOME\_NITRIC\_OXII

\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;REACTOME\_ASP  
MMA\_SIGNALING;REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING;REACTOME\_INTERFE

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_DNA\_R  
CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_DNA\_R  
FICKING;REACTOME\_TRANS\_GOLGI\_NETWORK\_VESICLE\_BUDDING;REACTOME\_GOLGI\_AS

OSYLATION\_OF\_MUCINS;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRAN

GFR\_IN\_DISEASE;REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;REACTOME\_SIGNALING\_BY

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_TRAN

\_FATTY\_ACID\_BETA\_OXIDATION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

.\_BIOLOGY;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_  
\_TRNA\_AMINOACYLATION;REACTOME\_TRNA\_AMINOACYLATION

DESCRIPTION;REACTOME\_TRANSCRIPTION;REACTOME\_FORMATION\_OF\_RNA\_POL\_II\_ELONG  
INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_BASIGIN\_INTERACTIONS;REACTOME

.\_PATHWAY;REACTOME\_DNA\_REPAIR

PCR;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTORS;REACTOME\_EICOSANOID\_LIG/

.\_VITAMINS\_AND\_COFACTORS

.\_VITAMINS\_AND\_COFACTORS  
MUNICATION;REACTOME\_RESPONSE\_TO\_ELEVATED\_PLATELET\_CYTOSOLIC\_CA2\_;REACTO

.\_BREAK\_REPAIR;REACTOME\_DNA\_REPAIR

SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME

PHA\_BETA\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM  
A\_BIOGENESIS;REACTOME\_REGULATORY\_RNA\_PATHWAYS

JH1\_TRANSMITS\_SIGNAL\_TO\_THE\_NUCLEUS;REACTOME\_SIGNALING\_BY\_NOTCH1;REACTO

NTIGEN\_PRESENTATION;REACTOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOP

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTO

JH1\_TRANSMITS\_SIGNAL\_TO\_THE\_NUCLEUS;REACTOME\_SIGNALING\_BY\_NOTCH4;REACTO  
NSCRIPTION\_INITIATION\_FROM\_TYPE\_2\_PROMOTER;REACTOME\_RNA\_POL\_III\_TRANSCRIP

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_TRANSPORT\_BY\_P\_TYPE\_ATPAS  
;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN  
;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_ACTIVATION\_OF\_RAC;REACTOME\_SI  
GNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_TRANSMISSION\_ACROSS\_CHEMICK  
\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OI  
\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OI

\_AMINO\_ACIDS\_AND\_DERIVATIVES



.\_BIOLOGY;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_AXON\_GUIDANCE;REACTO  
SURFACE\_INTERACTIONS  
SURFACE\_INTERACTIONS

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_TRANSPORT\_BY\_P\_TYPE\_ATPAS

VAYS;REACTOME\_INSULIN\_SYNTHESIS\_AND\_PROCESSING  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_PASSIVE\_TRANSPORT\_BY\_AQUAPORI

SURFACE\_INTERACTIONS

\_STEROID\_HORMONES\_AND\_VITAMINS\_A\_AND\_D;REACTOME\_BIOLOGICAL\_OXIDATIONS;RI

\_AMINO\_ACIDS\_AND\_DERIVATIVES

HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THF

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_SIGNALING\_BY\_NODAL

PCR;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_E

HO\_GTPASES

PCR;REACTOME\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOP  
ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAP

ACTOME\_SRP\_DEPENDENT\_COTRANSLATIONAL\_PROTEIN\_TARGETING\_TO\_MEMBRANE;RI  
\_PROTEIN\_IMPORT;REACTOME\_METABOLISM\_OF\_PROTEINS

.\_BIOLOGY;REACTOME\_MYOGENESIS

CRPTION\_PATHWAY

.\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REAC  
.\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REAC  
.\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REAC  
NGF;REACTOME\_DAG\_AND\_IP3\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME

MMA\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REA  
MMA\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REA

Y)TEINS\_MEDIATED\_TRANSPORT;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_M  
\_MRNA;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_NONSENSE\_MEDIATED\_DECAY\_ENI

OR\_SIGNALLING\_CASCADE;REACTOME\_PKB\_MEDIATED\_EVENTS;REACTOME\_SIGNALING\_E

PRESSION\_AND\_PROCESSING;REACTOME\_PRE\_NOTCH\_PROCESSING\_IN\_GOLGI;REACTOM

INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_INTEGRIN\_CELL\_SURFACE\_INTERA  
Cription\_Pathway

WDOWN\_GLYCOGENOLYSIS;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME\_

\_NON\_CODING\_RNA;REACTOME\_ANTIVIRAL\_MECHANISM\_BY\_IFN\_STIMULATED\_GENES;RE  
\_NON\_CODING\_RNA;REACTOME\_ANTIVIRAL\_MECHANISM\_BY\_IFN\_STIMULATED\_GENES;RE  
LIPID\_TRANSPORT;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_I

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI  
ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAP

SURFACE\_INTERACTIONS;REACTOME\_P130CAS\_LINKAGE\_TO\_MAPK\_SIGNALING\_FOR\_INTE  
TES\_B\_CELL\_RECEPTOR\_LEADING\_TO\_GENERATION\_OF\_SECOND\_MESSENGERS;REACTC  
SCRIPTION\_TERMINATION;REACTOME\_RNA\_POL\_I\_TRANSCRIPTION;REACTOME\_TRANSCF

\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_CHOLESTEROL\_BIOSYNTHESIS

\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_MRNA\_PROCESSING;REACTOME\_

\_MRNA;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_NONSENSE\_MEDIATED\_DECAY\_ENI  
\_MRNA;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_NONSENSE\_MEDIATED\_DECAY\_ENI

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN  
;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

A\_BIOGENESIS;REACTOME\_REGULATORY\_RNA\_PATHWAYS;REACTOME\_PROCESSING\_OF

METABOLISM;REACTOME\_SYNTHESIS\_OF\_PIPS\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_I

THESIS;REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_GAG\_METABOLISM;REACTOME\_GLY

\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REAC

\_BIOLOGY;REACTOME\_BMAL1\_CLOCK\_NPAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REAC

TLR3\_SIGNALING;REACTOME\_MAP\_KINASE\_ACTIVATION\_IN\_TLR\_CASCADE;REACTOME\_AC

TION\_OF\_HOMO\_SAPIENS\_WITH\_MYCOBACTERIUM\_TUBERCULOSIS;REACTOME\_NITRIC\_OXID

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

EGFR\_IN\_DISEASE;REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;REACTOME\_SIGNALING\_BY

VEGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_NEF\_MEDIATES\_DOWN\_MODULA

\_BIOLOGY;REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEUR

ACTOME\_SRP\_DEPENDENT\_COTRANSLATIONAL\_PROTEIN\_TARGETING\_TO\_MEMBRANE;RE

.\_BIOLOGY;REACTOME\_DOWNREGULATION\_OF\_ERBB2\_ERBB3\_SIGNALING;REACTOME\_SIC  
PCR;REACTOME\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOF

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_GROWTH\_HORMONE\_RECEPTOR\_SI  
NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_GROWTH\_HORMONE\_RECEPTOR\_SI  
NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_GROWTH\_HORMONE\_RECEPTOR\_SI  
TOTHENATE\_METABOLISM;REACTOME\_METABOLISM\_OF\_VITAMINS\_AND\_COFACTORS

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN  
;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

.\_BIOLOGY;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_CELL\_SURF

ME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUC

ONE\_RECEPTOR\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_PROLACTIN\_R  
.\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_I

TERS\_IN\_LIPID\_HOMEOSTASIS;REACTOME\_ABC\_FAMILY\_PROTEINS\_MEDIATED\_TRANSPO

OR\_SIGNALLING\_CASCADE;REACTOME\_REGULATION\_OF\_AMPK\_ACTIVITY\_VIA\_LKB1;REAC

TOTHENATE\_METABOLISM;REACTOME\_METABOLISM\_OF\_VITAMINS\_AND\_COFACTORS;REA  
TOTHENATE\_METABOLISM;REACTOME\_METABOLISM\_OF\_VITAMINS\_AND\_COFACTORS;REA

NGF;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOMI  
CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_DNA\_R

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PI  
PCR;REACTOME\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOF

MUNICATION;REACTOME\_CELL\_JUNCTION\_ORGANIZATION

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_AQUAPORIN\_MEDIATED\_TRANSPORT;

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_TRANSPORT\_BY\_P\_TYPE\_ATPAS

BOLISM\_AND\_CITRIC\_ACID\_TCA\_CYCLE;REACTOME\_TCA\_CYCLE\_AND\_RESPIRATORY\_ELE  
REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONDRIAL\_TRANSCRIPTION

REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONDRIAL\_TRANSCRIPTION

\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_MRNA\_PROCESSING;REACTOME\_

HO\_GTPASES

NSCRIPTION\_INITIATION\_FROM\_TYPE\_2\_PROMOTER;REACTOME\_MICRORNA\_MIRNA\_BIOG

PCR;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTORS;REACTOME\_GPCR\_DOWNSTR

HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REAC  
HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_TGF\_BETA\_RECEPTOR\_SIGNA

.COUPLED\_NER\_TC\_NER;REACTOME\_NUCLEOTIDE\_EXCISION\_REPAIR;REACTOME\_FORMA  
.COUPLED\_NER\_TC\_NER;REACTOME\_NUCLEOTIDE\_EXCISION\_REPAIR;REACTOME\_FORMA

)SYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO  
)SYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO  
)SYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO

ANISM\_BY\_IFN\_STIMULATED\_GENES;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_NE



SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME  
ORY\_INTERACTIONS\_BETWEEN\_A\_LYMPHOID\_AND\_A\_NON\_LYMPHOID\_CELL;REACTOME\_  
S;REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING;REACTOME\_REGULATION\_OF\_IFNA\_

\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSP  
\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSP  
/ED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEM

NGF;REACTOME\_DAG\_AND\_IP3\_SIGNALING;REACTOME\_CELL\_CYCLE;REACTOME\_SIGNALIN  
PCR;REACTOME\_OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_S  
GFR\_IN\_CANCER;REACTOME\_EGFR\_DOWNREGULATION  
HO\_GTPASES

PCR;REACTOME\_OPIOID\_SIGNALLING;REACTOME\_DARPP\_32\_EVENTS;REACTOME\_GPCR\_I

CRIPION\_PATHWAY

CTOME\_GLUCONEOGENESIS;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME

CRIPION\_PATHWAY

\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_MRNA\_PROCESSING;REACTOME\_

\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_MRNA\_PROCESSING;REACTOME\_  
\_BIOLOGY;REACTOME\_TGF\_BETA\_RECEPTOR\_SIGNALING\_IN\_EMT\_EPITHELIAL\_TO\_MESEI  
NGF;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY

CRIPION\_PATHWAY  
CRIPION\_PATHWAY

\_PROTEIN\_IMPORT;REACTOME\_METABOLISM\_OF\_PROTEINS  
SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

NOVO\_BIOSYNTHESIS;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_SPHINGOLI

\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_MRNA\_PROCESSING;REACTOME\_  
\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_MRNA\_PROCESSING;REACTOME\_

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_SEMA4D\_IN\_SEMAPHORIN\_SIGNALIN  
CRIPION\_PATHWAY;REACTOME\_NUCLEAR\_RECEPTOR\_TRANSCRIPTION\_PATHWAY  
REPAIR;REACTOME\_RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_MULTIPLE\_NUCLEOTIDE\_PATCH  
REPAIR;REACTOME\_RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_MULTIPLE\_NUCLEOTIDE\_PATCH  
REPAIR;REACTOME\_RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_MULTIPLE\_NUCLEOTIDE\_PATCH

\_E\_CONTRACTION;REACTOME\_MUSCLE\_CONTRACTION

\_E\_CONTRACTION;REACTOME\_MUSCLE\_CONTRACTION

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

ORY\_INTERACTIONS\_BETWEEN\_A\_LYMPHOID\_AND\_A\_NON\_LYMPHOID\_CELL;REACTOME\_

\_ENERGY\_METABOLISM;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION

CRPTION\_PATHWAY

CRPTION\_PATHWAY

CRPTION\_PATHWAY

MUNICATION;REACTOME\_CELL\_SURFACE\_INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REAC

\_TRIC\_CCT\_WITH\_TARGET\_PROTEINS\_DURING\_BIOSYNTHESIS;REACTOME\_PROTEIN\_FOL

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOME\_

\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_MODIFICATION\_SYNTHESIS\_OF\_GPI\_ANCH

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PI  
\_VITAMINS\_AND\_COFACTORS

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_DAG\_AND\_IP3\_SIGNALING;REACT

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T  
EM;REACTOME\_VOLTAGE\_GATED\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM\_CHAN  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_TRANSPORT\_BY\_P\_TYPE\_ATPAS

PCR;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_TRANSMEMBRANE  
PCR;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_TRANSMEMBRANE  
ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAP  
\_BIOLOGY;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_  
\_BIOLOGY;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_  
TRANSPORT;REACTOME\_MEMBRANE\_TRAFFICKING;REACTOME\_DIABETES\_PATHWAYS;RE

INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_INTEGRIN\_CELL\_SURFACE\_INTERA  
TLR3\_SIGNALING;REACTOME\_RIP\_MEDIATED\_NFKB\_ACTIVATION\_VIA\_DAI;REACTOME\_GAS

METABOLISM;REACTOME\_SYNTHESIS\_OF\_PIP3\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_I  
PHA\_BETA\_SIGNALING;REACTOME\_REGULATION\_OF\_IFNA\_SIGNALING;REACTOME\_INTERFI  
HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THF

MUNICATION;REACTOME\_DSCAM\_INTERACTIONS  
MUNICATION;REACTOME\_DSCAM\_INTERACTIONS  
MUNICATION;REACTOME\_DSCAM\_INTERACTIONS  
MUNICATION;REACTOME\_DSCAM\_INTERACTIONS

\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_TRANSPORT\_OF\_MATURE\_TRAN

ORY\_INTERACTIONS\_BETWEEN\_A\_LYMPHOID\_AND\_A\_NON\_LYMPHOID\_CELL;REACTOME\_  
\_VITAMINS\_AND\_COFACTORS  
\_BIOLOGY;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_  
\_AMINO\_ACIDS\_AND\_DERIVATIVES

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PI

'IPS\_AT\_THE\_GOLGI\_MEMBRANE;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_PI

NGF;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME  
\_METABOLISM;REACTOME\_METABOLISM\_OF\_NUCLEOTIDES;REACTOME\_PYRIMIDINE\_METABOLI  
\_ATIONS;REACTOME\_GLUTATHIONE\_CONJUGATION;REACTOME\_PHASE\_II\_CONJUGATION

THE\_PRE\_REPLICATIVE\_COMPLEX;REACTOME\_CELL\_CYCLE;REACTOME\_ORC1\_REMOVAL\_  
\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_SEMA4D\_IN\_SEMAPHORIN\_SIGNALIN

S;REACTOME\_IL\_3\_5\_AND\_GM-CSF\_SIGNALING;REACTOME\_IL\_RECEPTOR\_SHC\_SIGNALIN

MODELLING\_OF\_PC;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_ACYL\_CHAIN\_RE  
/ED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEN

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN  
CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOME\_  
.NSCRIPTION\_AND\_TRANSLATION;REACTOME\_PRE\_NOTCH\_EXPRESSION\_AND\_PROCESSIN  
SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME  
NSCRIPTION\_INITIATION\_FROM\_TYPE\_2\_PROMOTER;REACTOME\_RNA\_POL\_III\_TRANSCRIP  
NSCRIPTION\_INITIATION\_FROM\_TYPE\_2\_PROMOTER;REACTOME\_RNA\_POL\_III\_TRANSCRIP  
CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_DNA\_R

METABOLISM;REACTOME\_GLYCEROPHOSPHOLIPID\_BIOSYNTHESIS;REACTOME\_METABOLIS

ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNAP

EM  
EM

RBOXYLATION\_HYPUSINE\_FORMATION\_AND\_ARYLSULFATASE\_ACTIVATION;REACTOME\_GL

IOSYNTHESIS;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATT  
IOSYNTHESIS;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATT  
\_E\_CONTRACTION;REACTOME\_MUSCLE\_CONTRACTION

LATORS\_OF\_RIG\_I\_MDA5\_SIGNALING;REACTOME\_RIG\_I\_MDA5\_MEDIATED\_INDUCTION\_OF\_

NGF;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME\_REGULATION\_OF\_A

ME\_CELL\_CYCLE;REACTOME\_PROCESSING\_OF\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRN.  
;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THF

HO\_GTPASES

.\_BIOLOGY;REACTOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_GENERIC\_TRA/  
FFICKING;REACTOME\_GAP\_JUNCTION\_TRAFFICKING;REACTOME\_GAP\_JUNCTION\_ASSEMBI

CELLULAR\_DOMAIN\_REGULATES\_TRANSCRIPTION;REACTOME\_SIGNALING\_BY\_NOTCH1;REA  
KDOWN\_GLYCOGENOLYSIS;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME\_

IOSYNTHESIS;REACTOME\_FATTY\_ACYL\_COA\_BIOSYNTHESIS;REACTOME\_METABOLISM\_OF

JATION;REACTOME\_CHONDROITIN\_SULFATE\_DERMATAN\_SULFATE\_METABOLISM;REACTO  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_TRANSPORT\_BY\_P\_TYPE\_ATPAS

CTION;REACTOME\_CHONDROITIN\_SULFATE\_BIOSYNTHESIS;REACTOME\_CHONDROITIN\_SUI  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME  
ACTOME\_SRP\_DEPENDENT\_COTRANSLATIONAL\_PROTEIN\_TARGETING\_TO\_MEMBRANE;RI  
\_BIOLOGY;REACTOME\_CELL\_SURFACE\_INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACT  
\_BIOLOGY;REACTOME\_CELL\_SURFACE\_INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACT

\_CARBOHYDRATES

CTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_TELOMERE\_MAINTENANCE;REACTOMI

\_AMINO\_ACIDS\_AND\_DERIVATIVES

ANISM\_BY\_IFN\_STIMULATED\_GENES;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IMI



ATION;REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_GAG\_METABOLISM;REACTOME\_GLY  
CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PI

SH1\_TRANSMITS\_SIGNAL\_TO\_THE\_NUCLEUS;REACTOME\_SIGNALING\_BY\_NOTCH4;REACTO

CTOME\_MHC\_CLASS\_II\_ANTIGEN\_PRESENTATION;REACTOME\_CELL\_CYCLE\_MITOTIC;REA

.E\_CONTRACTION;REACTOME\_MUSCLE\_CONTRACTION

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OI  
PCR;REACTOME\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOF

PCR;REACTOME\_CLASS\_B\_2\_SECRETIN\_FAMILY\_RECEPTORS;REACTOME\_GPCR\_LIGAND\_

ACID\_METABOLISM;REACTOME\_METABOLISM\_OF\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACT

TERS\_IN\_LIPID\_HOMEOSTASIS;REACTOME\_ABC\_FAMILY\_PROTEINS\_MEDIATED\_TRANSPOR

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT;  
\_PROTEIN\_IMPORT;REACTOME\_METABOLISM\_OF\_PROTEINS

REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_P1  
CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_P1

WAY\_FOR\_APOPTOSIS;REACTOME\_APOPTOSIS  
NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_CELL\_CELL\_COMMUNICATION;REACTOME

ATIONS;REACTOME\_CYTOCHROME\_P450\_ARRANGED\_BY\_SUBSTRATE\_TYPE;REACTOME\_C  
PHOSPHOLIPID\_AT\_THE\_EARLY\_ENDOSOME\_MEMBRANE;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME

SIGNALING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME

PHAGOCYTOSIS;REACTOME\_HYALURONAN\_METABOLISM;REACTOME\_GLYCOSYLATION

DOWNREGULATION\_OF\_MHC\_CLASS\_I\_COMPLEX\_CELL\_SURFACE\_EXPRESSION;REACTOME

PHAGOCYTOSIS;REACTOME\_CELL\_CELL\_COMMUNICATION;REACTOME\_CELL\_CELL\_COMMUNICATION

CTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME\_GLUCOSE\_METABOLISM

JN\_OF\_HOMO\_SAPIENS\_WITH\_MYCOBACTERIUM\_TUBERCULOSIS;REACTOME\_NITRIC\_OXII

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTC

'\_5\_TO\_3\_EXORIBONUCLEASE;REACTOME\_METABOLISM\_OF\_MRNA;REACTOME\_DEADENYL  
\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_MRNA\_PROCESSING;REACTOME\_  
CRIPTION\_PATHWAY

METABOLISM;REACTOME\_GLYCEROPHOSPHOLIPID\_BIOSYNTHESIS;REACTOME\_METABOLIS

RBOXYLATION\_HYPUSINE\_FORMATION\_AND\_ARYLSULFATASE\_ACTIVATION;REACTOME\_GL

\_BIOLOGY;REACTOME\_MHC\_CLASS\_II\_ANTIGEN\_PRESENTATION;REACTOME\_AXON\_GUIDA

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN  
NGF;REACTOME\_TRIF\_MEDIATED\_TLR3\_SIGNALING;REACTOME\_P75NTR\_RECRUITS\_SIGNA

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION  
ATION\_OF\_SOLUBLE\_EXOGENOUS\_ANTIGENS\_ENDOSOMES;REACTOME\_ANTIGEN\_PROCE

\_BIOLOGY;REACTOME\_CELL\_CELL\_COMMUNICATION;REACTOME\_AXON\_GUIDANCE;REAC

VAYS;REACTOME\_REGULATION\_OF\_INSULIN\_LIKE\_GROWTH\_FACTOR\_IGF\_ACTIVITY\_BY\_IN

PCR;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTORS;REACTOME\_AMINE\_LIGAND\_B

DESCRIPTION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONDRIAL

TRANSCRIPTION;REACTOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_METABOLISM

AND\_TRANSPORT;REACTOME\_ABC\_FAMILY\_PROTEINS\_MEDIATED\_TRANSPORT;REACTOME

CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PIVOTAL

REGULATION\_OF\_CELLULAR\_PROTEINS;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_CELL

CYCLE\_FOR\_APOPTOSIS;REACTOME\_TRAF6\_MEDIATED\_IRF7\_ACTIVATION;REACTOME\_TRAF6

SURFACE\_INTERACTIONS

REGULATION\_OF\_FGFR\_SIGNALING;REACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;REACTOME

CELL\_CYCLE\_MITOTIC;REACTOME\_SIGNALING\_BY\_NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME

CELL\_CYCLE\_MITOTIC;REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING;REACTOME\_INTERFERON\_ALPHA\_BETA

SIGNALING;REACTOME\_ORC1\_REMOVAL\_FROM\_CHROMATIN;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME

INSULIN\_SYNTHESIS\_AND\_PROCESSING

TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT

NEURONAL\_SYSTEM;REACTOME\_CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_INTEGRATION

OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

POTASSIUM\_CHANNELS

CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PIVOTAL

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

NGF;REACTOME\_TRIF\_MEDIATED\_TLR3\_SIGNALING;REACTOME\_P75NTR\_RECRUITS\_SIGNA

NSCRIPTION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITC

HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;R  
ACTOME\_METABOLISM\_OF\_PROTEINS

MUNICATION;REACTOME\_ADHERENS\_JUNCTIONS\_INTERACTIONS;REACTOME\_CELL\_CELL\_

IPPO  
IPPO

NGF;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

ACTOME\_FORMATION\_OF\_THE\_TERNARY\_COMPLEX\_AND\_SUBSEQUENTLY\_THE\_43S\_COM  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_TRANSPORT\_BY\_P\_TYPE\_ATPAS  
METABOLISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_ABC\_FAMILY\_PF  
E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_CHANNEL\_TRANSPORT;REACTOM

CEPTOR\_INTERACTIONS;REACTOME\_RESPONSE\_TO\_ELEVATED\_PLATELET\_CYTOSOLIC\_C

IOSYNTHESIS;REACTOME\_FATTY\_ACYL\_COA\_BIOSYNTHESIS;REACTOME\_METABOLISM\_OF

\_BIOLOGY;REACTOME\_REGULATION\_OF\_APOPTOSIS;REACTOME\_AXON\_GUIDANCE;REAC

SSING\_CROSS\_PRESENTATION;REACTOME\_ENDOSOMAL\_VACUOLAR\_PATHWAY;REACTOM

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION

METABOLISM;REACTOME\_SYNTHESIS\_OF\_PIP2\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_I

\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;REACTOME\_ASP  
RBB4;REACTOME\_NUCLEAR\_SIGNALING\_BY\_ERBB4;REACTOME\_SIGNALING\_BY\_GPCR;REA

EM;REACTOME\_TANDEM\_PORE\_DOMAIN\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM

EM;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_REGULATION\_OF\_IN

CH1\_TRANSMITS\_SIGNAL\_TO\_THE\_NUCLEUS;REACTOME\_SIGNALING\_BY\_NOTCH1;REACTO

\_AMINO\_ACIDS\_AND\_DERIVATIVES

METABOLISM;REACTOME\_SYNTHESIS\_OF\_PIPS\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_I

E\_NOVO\_BIOSYNTHESIS;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_SPHINGOLI

INT;REACTOME\_CTNNB1\_PHOSPHORYLATION\_CASCADE;REACTOME\_CELL\_CYCLE;REACTO

LEVATED\_PLATELET\_CYTOSOLIC\_CA2\_;REACTOME\_GLYCOLYSIS;REACTOME\_GLUCONEOC



\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_MRNA\_PROCESSING;REACTOME\_VAYS;REACTOME\_UNFOLDED\_PROTEIN\_RESPONSE  
CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

DATIONS;REACTOME\_CYTOSOLIC\_SULFONATION\_OF\_SMALL\_MOLECULES;REACTOME\_PHA

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_SIGNALING\_E

PHA\_BETA\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM

\_RESPIRATORY\_ELECTRON\_TRANSPORT;REACTOME\_RESPIRATORY\_ELECTRON\_TRANSP

HE\_PROTEOLYTIC\_ACTIVITY\_OF\_APC\_C\_REQUIRED\_FOR\_THE\_ONSET\_OF\_ANAPHASE\_BY\_

PCR;REACTOME\_OPIOID\_SIGNALLING;REACTOME\_DARPP\_32\_EVENTS

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

CF\_KIT;REACTOME\_GROWTH\_HORMONE\_RECEPTOR\_SIGNALING;REACTOME\_SIGNALING\_  
THESIS;REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_GAG\_METABOLISM;REACTOME\_GLY

NGF;REACTOME\_TRIF\_MEDIATED\_TLR3\_SIGNALING;REACTOME\_TCR\_SIGNALING;REACTOM  
MUNICATION;REACTOME\_DSCAM\_INTERACTIONS

IOSYNTHESIS;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_SYNTHESIS\_OF\_PA;RI

PCR;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTORS;REACTOME\_GPCR\_DOWNSTR  
JATION;REACTOME\_CHONDROITIN\_SULFATE\_DERMATAN\_SULFATE\_METABOLISM;REACTO

MUNICATION;REACTOME\_CELL\_EXTRACELLULAR\_MATRIX\_INTERACTIONS;REACTOME\_CEL

HO\_GTPASES;REACTOME\_MEMBRANE\_TRAFFICKING;REACTOME\_TRANS\_GOLGI\_NETWORK

LEVATED\_PLATELET\_CYTOSOLIC\_CA2\_;REACTOME\_FORMATION\_OF\_FIBRIN\_CLOT\_CLOTT

LIPID\_METABOLISM;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_SPHINGOLIPID\_M  
NGF;REACTOME\_CELL\_CELL\_COMMUNICATION;REACTOME\_P75NTR\_RECRUITS\_SIGNALLIN

\_LIPIDS\_AND\_LIPOPOTEINS;REACTOME\_LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSPOR

\_NSPORT\_ACROSS\_THE\_PLASMA\_MEMBRANE;REACTOME\_TRANSMEMBRANE\_TRANSPORT

\_OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO

ME\_CELL\_CYCLE;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_MEIOTIC\_SYNA  
NSCRIPTION\_AND\_TRANSLATION;REACTOME\_SIGNALING\_BY\_NOTCH2;REACTOME\_PRE\_N

\_COMPLEMENT\_CASCADE;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_IMMUNE\_SY

SURFACE\_INTERACTIONS;REACTOME\_SIGNALING\_BY\_PDGF

PTERIN\_BH4\_SYNTHESIS\_RECYCLING\_SALVAGE\_AND\_REGULATION;REACTOME\_METABOL

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

METABOLISM;REACTOME\_SYNTHESIS\_OF\_PC;REACTOME\_GLYCEROPHOSPHOLIPID\_BIOSYN  
S\_GENE\_EXPRESSION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTC  
SURFACE\_INTERACTIONS

NSCRIPTION\_INITIATION\_FROM\_TYPE\_2\_PROMOTER;REACTOME\_RNA\_POL\_II\_TRANSCRIP

TES\_B\_CELL\_RECEPTOR\_LEADING\_TO\_GENERATION\_OF\_SECOND\_MESSENGERS;REACTC

\_RESPIRATORY\_ELECTRON\_TRANSPORT;REACTOME\_MITOCHONDRIAL\_PROTEIN\_IMPORT;  
SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME

LCROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM

PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;REACTOME\_SYN

PCR;REACTOME\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOP

DEGRADATION;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_DEVELOPMENTAL\_BIOLOGY;F

G;REACTOME\_POST\_CHAPERONIN\_TUBULIN\_FOLDING\_PATHWAY;REACTOME\_METABOLIS

LCROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

MUNICATION;REACTOME\_SIGNAL\_REGULATORY\_PROTEIN\_SIRP\_FAMILY\_INTERACTIONS

CELLULAR\_DOMAIN\_REGULATES\_TRANSCRIPTION;REACTOME\_SIGNALING\_BY\_NOTCH1;REA

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

.BIOLOGY;REACTOME\_HS\_GAG\_DEGRADATION;REACTOME\_CHONDROITIN\_SULFATE\_DER

HO\_GTPASES

.COUPLED\_NER\_TC\_NER;REACTOME\_NUCLEOTIDE\_EXCISION\_REPAIR;REACTOME\_FORMA

E\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_T

.BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NETRIN1\_SIGNALING;REACTOME\_DC

SSING\_CROSS\_PRESENTATION;REACTOME\_ENDOSOMAL\_VACUOLAR\_PATHWAY;REACTOM

SPORT\_AND\_METABOLISM;REACTOME\_ABC\_FAMILY\_PROTEINS\_MEDIATED\_TRANSPORT;RI

SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME

SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME

PCR;REACTOME\_OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_S

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM

CRIPION\_PATHWAY

PIPS\_AT\_THE\_EARLY\_ENDOSOME\_MEMBRANE;REACTOME\_SYNTHESIS\_OF\_PIPS\_AT\_THE\_C  
MUNICATION;REACTOME\_CELL\_EXTRACELLULAR\_MATRIX\_INTERACTIONS;REACTOME\_CEL  
ME\_CELL\_CYCLE;REACTOME\_P53\_INDEPENDENT\_G1\_S\_DNA\_DAMAGE\_CHECKPOINT;REAC  
WAYS;REACTOME\_ACTIVATION\_OF\_CHAPERONE\_GENES\_BY\_XBP1S;REACTOME\_UNFOLDE

NGF;REACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTC  
NTIGEN\_PRESENTATION;REACTOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOF  
EM;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_REGULATION\_OF\_IN

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

TES\_B\_CELL\_RECEPTOR\_LEADING\_TO\_GENERATION\_OF\_SECOND\_MESSENGERS;REACTC

/ED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEM

CRPTION\_PATHWAY

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN



\_CARBOHYDRATES

\_CARBOHYDRATES

PCR;REACTOME\_CLASS\_C\_3\_METABOTROPIC\_Glutamate\_Pheromone\_Receptors;RE  
3;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

ORATION\_OF\_CARBOXYLIC\_ACID\_DERIVED\_AMINO\_ACIDS

SSING\_CROSS\_PRESENTATION;REACTOME\_LATENT\_INFECTION\_OF\_HOMO\_SAPIENS\_WITI  
EM;REACTOME\_VOLTAGE\_GATED\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM\_CHAN

OSYLATION\_OF\_MUCINS;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRAN

\_PROTEIN\_IMPORT;REACTOME\_METABOLISM\_OF\_PROTEINS

RBOXYLATION\_HYPUSINE\_FORMATION\_AND\_ARYLSULFATASE\_ACTIVATION;REACTOME\_GL  
PAS2\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REACTOME\_CIRCADIAN\_CLOCK

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_DNA\_R

OSYLATION\_OF\_MUCINS;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRAN

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NETRIN1\_SIGNALING;REACTOME\_DC

\_NON\_CODING\_RNA;REACTOME\_ANTIVIRAL\_MECHANISM\_BY\_IFN\_STIMULATED\_GENES;RE

OR\_RECYCLING;REACTOME\_LATENT\_INFECTION\_OF\_HOMO\_SAPIENS\_WITH\_MYCOBACTERI

NGF

\_SYSTEM;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_NOD1\_2\_SIGNALING\_PATHWAY;REACT

MUNICATION;REACTOME\_TGF\_BETA\_RECEPTOR\_SIGNALING\_IN\_EMT\_EPITHELIAL\_TO\_MES

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NETRIN1\_SIGNALING;REACTOME\_DC

\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_AMINE\_DERIVED\_HORMONES

\_BIOLOGY;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_

\_BIOLOGY;REACTOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_METABOLISM\_

\_BIOLOGY;REACTOME\_REGULATION\_OF\_BETA\_CELL\_DEVELOPMENT;REACTOME\_REGULA  
/ED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEM  
\_NON\_CODING\_RNA;REACTOME\_METABOLISM\_OF\_RNA

WAGE\_OF\_CELLULAR\_PROTEINS;REACTOME\_MEMBRANE\_TRAFFICKING;REACTOME\_SIGN

CROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRAN

SURFACE\_INTERACTIONS

MUNICATION;REACTOME\_INTEGRIN\_CELL\_SURFACE\_INTERACTIONS;REACTOME\_CELL\_JUN  
OR\_SIGNALLING\_CASCADE;REACTOME\_REGULATION\_OF\_AMPK\_ACTIVITY\_VIA\_LKB1;REAC  
\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION;REACTOME\_METABOLISM\_C  
SYLATION\_OF\_MUCINS;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRAN  
SYLATION\_OF\_MUCINS;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRAN

CRPTION\_PATHWAY

CRPTION\_PATHWAY

IOSYNTHESIS;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_SYNTHESIS\_OF\_PE;RI

HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THF

ON\_OF\_TGF\_BETA\_RECEPTOR\_SIGNALING;REACTOME\_TGF\_BETA\_RECEPTOR\_SIGNALING\_  
\KDOWN\_GLYCOGENOLYSIS;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME\_

MUNICATION;REACTOME\_CELL\_JUNCTION\_ORGANIZATION

CTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PI

\_SYSTEM;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_INFLAMMASOMES;REACTOME\_NUCLEO

REACTOME\_TRANSLOCATION\_OF\_ZAP\_70\_TO\_IMMUNOLOGICAL\_SYNAPSE;REACTOME\_GE

ANTIGEN\_PRESENTATION;REACTOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOP  
MENT;REACTOME\_CLASS\_B\_2\_SECRETIN\_FAMILY\_RECEPTORS;REACTOME\_GPCR\_DOWNST

REACTOME\_SRP\_DEPENDENT\_COTRANSLATIONAL\_PROTEIN\_TARGETING\_TO\_MEMBRANE;RE

ACTOME\_SIGNALING\_BY\_SCF\_KIT;REACTOME\_CELL\_CELL\_COMMUNICATION;REACT

OME\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_TRANSPORT\_BY\_P\_TYPE\_ATPASE  
TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_ION\_TRANSPORT\_BY\_P\_TYPE\_ATPASE

LATION\_OF\_FGFR\_SIGNALING;REACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;RE

ACTOME\_CLASS\_A1\_RHODOPHOSPHATASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_PPARG\_ACTIVATES\_GENE\_EXPRESSION

REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS

ACTION;REACTOME\_SMOOTH\_MUSCLE\_CONTRACTION  
OF\_THE\_EXTRACELLULAR\_MATRIX;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION

ATIONS;REACTOME\_GLUTATHIONE\_CONJUGATION;REACTOME\_PHASE\_II\_CONJUGATION  
REACTOME\_HIV\_LIFE\_CYCLE;REACTOME\_EARLY\_PHASE\_OF\_HIV\_LIFE\_CYCLE;REACTOME\_I

CELL\_BIOLOGY;REACTOME\_CELL\_CELL\_COMMUNICATION;REACTOME\_IMMUNOREGULATORY\_I

OSYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO  
M;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_ABC\_FAMILY\_PROTEI  
BOLISM\_AND\_CITRIC\_ACID\_TCA\_CYCLE;REACTOME\_TCA\_CYCLE\_AND\_RESPIRATORY\_ELE

ANTIGEN\_PRESENTATION;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SY  
STEM;REACTOME\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TI

OF\_THE\_EXTRACELLULAR\_MATRIX;REACTOME\_EXTRACELLULAR\_MATRIX\_ORGANIZATION  
OF\_MUSCLE\_CONTRACTION;REACTOME\_MUSCLE\_CONTRACTION

;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN

THE\_PROTEOLYTIC\_ACTIVITY\_OF\_APC\_C\_REQUIRED\_FOR\_THE\_ONSET\_OF\_ANAPHASE\_BY\_I



FICKING;REACTOME\_GAP\_JUNCTION\_TRAFFICKING;REACTOME\_GAP\_JUNCTION\_ASSEMBLY  
SYLATION\_OF\_MUCINS;REACTOME\_TERMINATION\_OF\_O\_GLYCAN\_BIOSYNTHESIS;REACTO

REACTOME\_ANTIVIRAL\_MECHANISM\_BY\_IFN\_STIMULATED\_GENES;REACTOME\_SIGNALING\_  
NUCLEOTIDES;REACTOME\_PURINE\_SALVAGE;REACTOME\_PURINE\_METABOLISM

HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THF  
\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_AMINE\_DERIVED\_HORMONES  
\_STEROID\_HORMONES\_AND\_VITAMINS\_A\_AND\_D;REACTOME\_STEROID\_HORMONES;REAC

\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION  
ETABOLISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_ABC\_FAMILY\_PF  
REACTOME\_NITRIC\_OXIDE\_STIMULATES\_GUANYLATE\_CYCLASE;REACTOME\_PLATELET\_HC  
FICKING;REACTOME\_TRANS\_GOLGI\_NETWORK\_VESICLE\_BUDDING;REACTOME\_GOLGI\_AS

PCR;REACTOME\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOF

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_OTHER\_SEMAPHORIN\_INTERACTION  
HO\_GTPASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_TRANSMISSION\_ACROSS\_CHE  
AVAGE\_OF\_CELLULAR\_PROTEINS;REACTOME\_SIGNALING\_BY\_WNT;REACTOME\_CTNNB1\_P

\_BIOLOGY;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYTE\_DIFFERE  
IPPO

THE\_PRE\_REPLICATIVE\_COMPLEX;REACTOME\_CELL\_CYCLE;REACTOME\_PROCESSIVE\_SYI

\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_CRMP5\_IN\_SEMA3A\_SIGNALING;REA

NSCRIPTION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITC

PCR;REACTOME\_OLFACTORY\_SIGNALING\_PATHWAY;REACTOME\_GPCR\_DOWNSTREAM\_S

:S\_GENE\_EXPRESSION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTC  
  
DASYLATION\_OF\_MUCINS;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRAN  
  
NGF;REACTOME\_DAG\_AND\_IP3\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME  
  
:\_ENERGY\_METABOLISM;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME\_II  
  
\_MRNA;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_DESTABILIZATION\_OF\_MRNA\_BY\_B  
\_BIOLOGY;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOME\_  
  
\_MATRIX\_ORGANIZATION;REACTOME\_COLLAGEN\_FORMATION  
  
\_HYPOXIA\_INDUCIBLE\_FACTOR\_HIF\_BY\_OXYGEN;REACTOME\_OXYGEN\_DEPENDENT\_PROL  
  
ACTOME\_FORMATION\_OF\_THE\_TERNARY\_COMPLEX\_AND\_SUBSEQUENTLY\_THE\_43S\_COM  
  
LEVATED\_PLATELET\_CYTOSOLIC\_CA2\_;REACTOME\_FORMATION\_OF\_FIBRIN\_CLOT\_CLOTT



OPENING;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_II\_PRE\_TRANSCRIPTION\_EV  
\_MRNA\_SPLICING

\_PHASE1\_FUNCTIONALIZATION\_OF\_COMPOUNDS  
3LYCEROPHOSPHOLIPID\_BIOSYNTHESIS;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPI

.IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM  
)CHONDRIAL\_TRANSCRIPTION;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_INITIATION\_FROI

DLING\_IN\_IMMUNE\_SYSTEM

ARGININE\_N\_LINKED\_GLYCOSYLATION;REACTOME\_TRANSPORT\_TO\_THE\_GOLGI\_AND\_SUE

REAM\_SIGNALING;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGA

E\_EXPRESSION;REACTOME\_PRE\_NOTCH\_EXPRESSION\_AND\_PROCESSING;REACTOME\_NC

ACTOME\_PROCESSING\_OF\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_TRAN

\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_I  
;REACTOME\_SPRY\_REGULATION\_OF\_FGF\_SIGNALING;REACTOME\_TRIF\_MEDIATED\_TLR3\_

RANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AI

MPLEX;REACTOME\_ACTIVATION\_OF\_THE\_MRNA\_UPON\_BINDING\_OF\_THE\_CAP\_BINDING\_C

SIS;REACTOME\_PACKAGING\_OF\_TELOMERE\_ENDS;REACTOME\_TELOMERE\_MAINTENANCE

LIFE\_CYCLE;REACTOME\_LATE\_PHASE\_OF\_HIV\_LIFE\_CYCLE

N\_FORMATION;REACTOME\_CELL\_JUNCTION\_ORGANIZATION

ME\_DOWNSTREAM\_TCR\_SIGNALING;REACTOME\_P75NTR\_RECRUITS\_SIGNALLING\_COMPLE

IGNALING

\_TRANSPORT\_ACROSS\_THE\_PLASMA\_MEMBRANE;REACTOME\_TRANSMEMBRANE\_TRANSF

3OLISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_METABOLISM\_OF\_C

SIS

ES;REACTOME\_ION\_CHANNEL\_TRANSPORT

:EVENTS

\_MRNA\_SPLICING;REACTOME\_MRNA\_SPLICING\_MINOR\_PATHWAY

ROTEINS\_AND\_COMPLEXES;REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;R

\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_I

STRATE\_TYPE;REACTOME\_PHASE1\_FUNCTIONALIZATION\_OF\_COMPOUNDS

D\_PROTEIN\_RESPONSE

\_PRE\_MRNA;REACTOME\_RNA\_POL\_II\_TRANSCRIPTION;REACTOME\_MRNA\_PROCESSING;RE

'COSAMINOGLYCAN\_METABOLISM;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES  
ROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTO

SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_PI3K\_EVI  
SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_PI3K\_EVI

\_FROM\_CHROMATIN;REACTOME\_ASSOCIATION\_OF\_LICENSING\_FACTORS\_WITH\_THE\_PRE\_

INELS





HOMEOSTASIS;REACTOME\_HIV\_INFECTION;REACTOME\_HOST\_INTERACTIONS\_OF\_HIV\_FACTOR  
VIRUS;REACTOME\_NOTCH1\_INTRACELLULAR\_DOMAIN\_REGULATES\_TRANSCRIPTION;REACTO

ION\_CHANNEL

GLYCOGEN;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES

TRANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

REACTOME\_ENDOSOMAL\_SORTING\_COMPLEX\_REQUIRED\_FOR\_TRANSPORT\_ESCRT;REACTOME

TRANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

E\_PLASMA\_MEMBRANE;REACTOME\_SIGNALLING\_TO\_ERKS;REACTOME\_P38MAPK\_EVENTS  
SPORT;REACTOME\_STEROID\_HORMONES;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPC

REACTOME\_REGULATION\_OF\_WATER\_BALANCE\_BY\_RENAL\_AQUAPORINS

OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/  
OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/

'COSAMINOGLYCAN\_METABOLISM;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES

CA2\_;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGG  
D\_PROTEIN\_RESPONSE  
PMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_KINESINS;REACTOME\_HEMOSTASIS;RE/

IGNALING

DE\_STIMULATES\_GUANYLATE\_CYCLASE;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME  
REACTOME\_SIGNALING\_BY\_NOTCH1;REACTOME\_TRANSCRIPTIONAL\_ACTIVITY\_OF\_SMAD2  
IPTOSIS\_INDUCED\_DNA\_FRAGMENTATION;REACTOME\_TAK1\_ACTIVATES\_NFKB\_BY\_PHOSF

\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

IGNALING

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

SIGNALING

RANSPORT;REACTOME\_TRANSPORT\_OF\_VITAMINS\_NUCLEOSIDES\_AND\_RELATED\_MOLEC

I;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM  
TION\_INTERACTIONS;REACTOME\_CELL\_JUNCTION\_ORGANIZATION

M\_OF\_PROTEINS

IAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRANSMITTER\_RELEASE\_CYC

'SIN\_LIKE\_RECEPTORS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPH

DL\_OXIDATION

DL\_OXIDATION

ANSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACT

K\_VESICLE\_BUDDING;REACTOME\_SYNTHESIS\_OF\_PIPS\_AT\_THE\_GOLGI\_MEMBRANE;REAC

\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

IGNALING

;REACTOME\_PURINE\_METABOLISM

ESINS;REACTOME\_HEMOSTASIS

ESINS;REACTOME\_HEMOSTASIS

ACTOME\_GLYCEROPHOSPHOLIPID\_BIOSYNTHESIS;REACTOME\_SIGNALING\_BY\_GPCR;REAC

TOME\_SIGNALING\_BY\_ERBB4;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_E

TOME\_SIGNALING\_BY\_ERBB4;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_E

PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECE

ER\_PHAGOSOME\_PATHWAY;REACTOME\_IMMUNOREGULATORY\_INTERACTIONS\_BETWE  
CHONDRIAL\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_TRANSCRIPTION\_INITIATION

FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM

CTION\_OF\_GENE\_EXPRESSION\_IN\_BETA\_CELLS;REACTOME\_TRANSMEMBRANE\_TRANSPOF

BY\_GPCR;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_OPIOID\_SIGNA  
CTRON\_TRANSPORT;REACTOME\_REGULATION\_OF\_PYRUVATE\_DEHYDROGENASE\_PDH\_C

STASIS

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID  
CAM\_INTERACTIONS;REACTOME\_INTERACTION\_BETWEEN\_L1\_AND\_ANKYRINS;REACTOME

RANSPORT;REACTOME\_TRANSPORT\_OF\_VITAMINS\_NUCLEOSIDES\_AND\_RELATED\_MOLEC

.ONAL\_SYSTEM;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_AXON\_C

SMOOTH\_MUSCLE\_CONTRACTION;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIV

REACTOME\_REGULATION\_OF\_WATER\_BALANCE\_BY\_RENAL\_AQUAPORINS

ME\_SIGNALING\_BY\_ERBB4;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_BY  
\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_ANTIGEN\_ACTIVATES\_B\_CELL\_RECEPTOR  
D\_PROTEIN\_RESPONSE

SSOCIATED\_VESICLE\_BIOGENESIS



SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP

CTRON\_TRANSPORT;REACTOME\_REGULATION\_OF\_PYRUVATE\_DEHYDROGENASE\_PDH\_C

REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_GLUCAGON\_SIGNALING\_IN\_METABOLISM;  
REACTOME\_TRIGLYCERIDE\_BIOSYNTHESIS;REACTOME\_FATTY\_ACYL\_COA\_BIOSYNTHESIS;REACTOME

REACTOME\_GROWTH\_FACTOR\_SIGNALING\_BY\_ATF4;REACTOME\_UNFOLDED\_PROTEIN\_RESPONSE;REACTOME\_METABOLISM\_OF  
REACTOME\_TRANSCRIPTION\_COUPLED\_NER\_TC\_NER\_REPAIR\_COMPLEX;REACTOME\_DNA\_REPAIR

REACTOME\_CELL\_GROWTH;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_INTERACTION\_BETWEEN\_L1CAM  
REACTOME\_GROWTH\_FACTOR\_SIGNALING\_BY\_ATF4;REACTOME\_UNFOLDED\_PROTEIN\_RESPONSE;REACTOME\_METABOLISM\_OF

REACTOME\_LIPID\_METABOLISM;REACTOME\_ACYL\_CHAIN\_REMODELLING\_OF\_PE;REACTOME\_GLYCEROL  
REACTOME\_PEPTIDE\_HORMONE\_BIOSYNTHESIS

REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLACENTA

REACTOME\_FROM\_CHROMATIN;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_CELL\_CYCLE\_CHECKPOINTS

REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

SLATIONAL\_PROTEIN\_MODIFICATION

ROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTO

\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

TION\_INTERACTIONS;REACTOME\_CELL\_JUNCTION\_ORGANIZATION

MOLECULES

:SSING\_CROSS\_PRESENTATION;REACTOME\_INTERFERON\_GAMMA\_SIGNALING;REACTOME

ROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTO

ROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTO

SCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONDRIAL\_TRANSCRIPTION;REA

OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT;RE.  
OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT;RE.

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

SCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONDRIAL\_TRANSCRIPTION;REA

TION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHOND

CTOME\_SIGNALING\_BY\_NOTCH

HOSTASIS;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_IMMUNE\_SYSTEM;REACTOME

BINDING

I\_REPLACEMENT\_PATHWAY;REACTOME\_BASE\_FREE\_SUGAR\_PHOSPHATE\_REMOVAL\_VIA\_I  
I\_REPLACEMENT\_PATHWAY;REACTOME\_BASE\_FREE\_SUGAR\_PHOSPHATE\_REMOVAL\_VIA

ES;REACTOME\_ION\_CHANNEL\_TRANSPORT

THE\_FANCONI\_ANEMIA\_PATHWAY;REACTOME\_FANCONI\_ANEMIA\_PATHWAY;REACTOME\_DI  
;REACTOME\_NUCLEOTIDE\_LIKE\_PURINERGIC\_RECEPTORS;REACTOME\_GPCR\_DOWNSTRE

CTION\_OF\_GENE\_EXPRESSION\_IN\_BETA\_CELLS;REACTOME\_INTEGRATION\_OF\_ENERGY\_M

SCRIPTION\_COUPLED\_NER\_TC\_NER;REACTOME\_POL\_SWITCHING;REACTOME\_NUCLEOTII

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID  
;TOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN

IOSTASIS

:ECEPTOR\_SIGNALING;REACTOME\_NUCLEAR\_SIGNALING\_BY\_ERBB4;REACTOME\_IMMUNE\_

\_II\_TRANSCRIPTION;REACTOME\_MRNA\_CAPPING;REACTOME\_TRANSCRIPTION\_COUPLED\_

ATION;REACTOME\_HYALURONAN\_UPTAKE\_AND\_DEGRADATION;REACTOME\_HYALURONAN  
ATION;REACTOME\_HYALURONAN\_UPTAKE\_AND\_DEGRADATION;REACTOME\_HYALURONAN  
ALPHA\_HYDROXYCHOLESTEROL;REACTOME\_SYNTHESIS\_OF\_BILE\_ACIDS\_AND\_BILE\_SALT

ME\_LIGAND\_GATED\_ION\_CHANNEL\_TRANSPORT

:NTIATION

EACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONDRIAL\_TRANSCRIPTION;REACTOME\_C

ONAL\_REGULATION\_OF\_WHITE\_ADIPOCYTE\_DIFFERENTIATION;REACTOME\_APOPTOSIS

EACTOME\_CYTOCHROME\_P450\_ARRANGED\_BY\_SUBSTRATE\_TYPE;REACTOME\_PHASE1\_F

ITEM

RELATIONAL\_PROTEIN\_MODIFICATION

TYROSINE\_SIGNALING\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_IMMUNE\_SYSTEM;REACTOME

REACTOME\_PI3K\_EVENT;  
REACTOME\_ERBB2\_SIGNALING\_BY\_ERBB2;REACTOME\_GRB2\_EVENTS\_IN\_ERBB2\_SIGNALING;REACTOME\_PI3K\_EVENT;

REACTOME\_RECRUITING\_RECEPTORS\_BY\_RECRUITING\_THEM\_TO\_CLATHRIN\_ADAPTERS;REACTOME\_LATENT\_INFECTIOUS\_AGENT;  
REACTOME\_PACKAGING\_OF\_TELOMERE\_ENDS;REACTOME\_TELOMERE\_MAINTENANCE;  
REACTOME\_SIGNALING\_BY\_NOTCH

IT\_AND\_PLATELET\_PRODUCTION;REACTOME\_TRAF3\_DEPENDENT\_IRF\_ACTIVATION\_PATH

CTOME\_SIGNALING\_BY\_NOTCH

N\_EVENTS;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REA

HANCED\_BY\_THE\_EXON\_JUNCTION\_COMPLEX

TOME\_ROLE\_OF\_DCC\_IN\_REGULATING\_APOPTOSIS;REACTOME\_NETRIN1\_SIGNALING;REA  
TOME\_ROLE\_OF\_DCC\_IN\_REGULATING\_APOPTOSIS;REACTOME\_NETRIN1\_SIGNALING;REA

MENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_KINESINS;REACTOME\_HEMOSTASIS;REA

OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC

CA2\_;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGG



NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH;REACTOME\_L1CAM\_INTERACTIONS;REAC

\_GLUCOSE\_METABOLISM  
\_GLUCOSE\_METABOLISM  
SOCIATED\_VESICLE\_BIOGENESIS  
D\_PROTEIN\_RESPONSE

REACTOME\_CYTOCHROME\_P450\_ARRANGED\_BY\_SUBSTRATE\_TYPE;REACTOME\_PHASE1\_F  
REACTOME\_CYTOCHROME\_P450\_ARRANGED\_BY\_SUBSTRATE\_TYPE;REACTOME\_PHASE1\_F

\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETO  
LIPID\_METABOLISM;REACTOME\_SYNTHESIS\_OF\_PA;REACTOME\_ACYL\_CHAIN\_REMODELLIN

OSTASIS

TIVATION\_AND\_REGULATION

\_S\_TRANSITION\_;REACTOME\_G1\_S\_TRANSITION;REACTOME\_MITOTIC\_G1\_G1\_S\_PHASES;R  
\_S\_TRANSITION\_;REACTOME\_G1\_S\_TRANSITION;REACTOME\_MITOTIC\_G1\_G1\_S\_PHASES;R

SING\_OF\_ENDOSOMAL\_TLR;REACTOME\_MHC\_CLASS\_II\_ANTIGEN\_PRESENTATION;REACTO

\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

UT\_GROWTH;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_INTERACTION\_BETWEEN\_L1

MPLEX;REACTOME\_ACTIVATION\_OF\_THE\_MRNA\_UPON\_BINDING\_OF\_THE\_CAP\_BINDING\_C

OME\_TRIF\_MEDIATED\_TLR3\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_SIG

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP

G;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_

HANCED\_BY\_THE\_EXON\_JUNCTION\_COMPLEX

BY\_INSULIN\_RECEPTOR;REACTOME\_MTORC1\_MEDIATED\_SIGNALLING;REACTOME\_PI3K\_C/

TION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONC

CTIONS;REACTOME\_HEMOSTASIS

.DING;REACTOME\_METABOLISM\_OF\_PROTEINS

LCIUM\_HOMEOSTASIS;REACTOME\_HEMOSTASIS

ACTES\_CIRCADIAN\_EXPRESSION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPOTEINS;

F\_ENERGY\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPOTEINS;REAC

;TOME\_PPORA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

ANSCRIPTION;REACTOME\_HIV\_INFECTION;REACTOME\_HIV\_LIFE\_CYCLE;REACTOME\_LATE\_

ES;REACTOME\_ION\_CHANNEL\_TRANSPORT

\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETOI

OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/  
OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/  
OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/  
OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/

TIVITY\_OF\_SMAD2\_SMAD3\_SMAD4\_HETEROTRIMER;REACTOME\_GENERIC\_TRANSCRIPTION

TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRA

'\_GPCR;REACTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM  
SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP  
SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP

HOURED\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;REACTOV  
HOURED\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;REACTOV

CAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_SIGNALING\_BY\_GPCR;REAC

IGNALING;REACTOME\_HIV\_INFECTION;REACTOME\_HOST\_INTERACTIONS\_OF\_HIV\_FACTORS  
:TOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN  
:TOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN

E\_SIGNALING\_BY\_NOTCH

:TOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_PRE\_NOTCH\_TRANSCRIPTION  
ME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM  
SIS

<B\_AND\_MAP\_KINASES\_UPON\_TLR7\_8\_OR\_9\_ACTIVATION;REACTOME\_TRAF6\_MEDIATED\_I  
<B\_AND\_MAP\_KINASES\_UPON\_TLR7\_8\_OR\_9\_ACTIVATION;REACTOME\_TRAF6\_MEDIATED\_I  
NAL\_SYSTEM;REACTOME\_PHASE1\_FUNCTIONALIZATION\_OF\_COMPOUNDS;REACTOME\_NE

DRT;REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPORT\_ATP\_SYNTHESIS\_BY\_CHEMIOSM  
\NSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACT

I;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALL  
ITION\_PHASE

I;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

NER\_MOLECULES;REACTOME\_AXON\_GUIDANCE;REACTOME\_SIGNALING\_BY\_ROBO\_RECEP

\_MITOTIC\_SPINDLE\_CHECKPOINT\_COMPONENTS;REACTOME\_CELL\_CYCLE;REACTOME\_CE

INS;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME\_GLUCOSE\_METABOLISM  
\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

E\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECE  
RANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AI  
RANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AI

GNALING\_BY\_ROBO\_RECEPTOR;REACTOME\_NETRIN1\_SIGNALING

\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT;RE.

SIS

ME\_SIGNALING\_BY\_NOTCH

SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_PI3K\_EV

NG\_BY\_ERBB2;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALING  
[\_REPLACEMENT\_PATHWAY;REACTOME\_BASE\_FREE\_SUGAR\_PHOSPHATE\_REMOVAL\_VIA\_



Ξ\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACT

ALPHA\_HYDROXYCHOLESTEROL;REACTOME\_SYNTHESIS\_OF\_BILE\_ACIDS\_AND\_BILE\_SALT

ROTEINS\_AND\_COMPLEXES;REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;R

IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

REACTOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN

REACTOME\_INTERFERON\_SIGNALING;REACTOME\_NEGATIVE\_REGULATORS\_OF\_RIG\_I\_MDA5

ANTIGEN\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PATHWAYS

REACTOME\_SIGNALING\_BY\_NOTCH

\_MEDIATED\_ACTIVATION\_CASCADE;REACTOME\_HEMOSTASIS;REACTOME\_SIGNALING\_BY\_  
I\_PHASE

RANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AI

SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_PI3K\_EVI

:ACTOME\_GPCR\_LIGAND\_BINDING  
\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC  
\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

ME\_HS\_GAG\_BIOSYNTHESIS;REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_GAG\_METABO  
ME\_HS\_GAG\_BIOSYNTHESIS;REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_GAG\_METABO

BODY\_METABOLISM

ARAGINE\_N\_LINKED\_GLYCOSYLATION;REACTOME\_TRANSPORT\_TO\_THE\_GOLGI\_AND\_SUE

G;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_

AMINOGLYCAN\_METABOLISM;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOL  
AMINOGLYCAN\_METABOLISM;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOL

MODULATION\_OF\_CELL\_SURFACE\_RECEPTORS\_BY\_RECRUITING\_THEM\_TO\_CLATHRIN\_AI

INELS

INELS

\_MRNA\_SPLICING

ANSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACT

OME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_SIGNALING\_BY\_FGFR

IGNALLING\_CASCADE;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_RE

\_BY\_ILS;REACTOME\_IL\_3\_5\_AND\_GM-CSF\_SIGNALING;REACTOME\_IL\_RECEPTOR\_SHC\_SIG

LORED\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION

CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTORS;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENT

MOLECULES

MOLECULES

REACTOME\_SIGNALING\_BY\_NOTCH

REACTOME\_AXON\_GUIDANCE;REACTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME

NOTCH\_EXPRESSION\_AND\_PROCESSING;REACTOME\_PRE\_NOTCH\_PROCESSING\_IN\_GOLGI

NOTCH\_EXPRESSION\_AND\_PROCESSING;REACTOME\_PRE\_NOTCH\_PROCESSING\_IN\_GOLGI

TRANSCRIPTION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHOND

METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

PROTEIN\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

CELL\_DIVISION;REACTOME\_MITOTIC\_PROMETAPHASE

REACTOME\_NF\_KB\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING

CREATION\_OF\_C4\_AND\_C2\_ACTIVATORS;REACTOME\_INITIAL\_TRIGGERING\_OF\_COMPLEM  
EVENTS;REACTOME\_G\_ALPHA\_Z\_SIGNALLING\_EVENTS  
MITOCHONDRIAL\_TRANSCRIPTION;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_INITIATION\_FRO  
ET\_CYTOSOLIC\_CA2\_;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIVATION\_SIGN  
INSULIN\_LIKE\_GROWTH\_FACTOR\_BINDING\_PROTEINS\_IGFBPS

REACTOME\_PROCESSING\_OF\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_TRANS

NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

SYNTHESIS;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS  
NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH;REACTOME\_L1CAM\_INTERACTIONS  
STEM;REACTOME\_COMPLEMENT\_CASCADE

REACTOME\_OTHER\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SEMA3A\_PAK\_DEPENDENT\_AXO  
REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

PLATELET\_CYTOSOLIC\_CA2\_;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIVATION\_S

ROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTO

I\_CHANNELS

OME\_SIGNALING\_BY\_ERBB4;REACTOME\_DOWNREGULATION\_OF\_ERBB2\_ERBB3\_SIGNALING

:MODELLING\_OF\_PE;REACTOME\_GLYCEROPHOSPHOLIPID\_BIOSYNTHESIS;REACTOME\_ME  
\_ERBB4;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_NUCLEAR\_SIGNALING\_

INSULIN\_SECRETION\_BY\_GLUCAGON\_LIKE\_PEPTIDE1;REACTOME\_REGULATION\_OF\_INSULIN

:TOME\_PPARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

TOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH;REACTOME\_L1CAM\_INTERACTION  
TOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH;REACTOME\_L1CAM\_INTERACTION

;REACTOME\_PHASE\_II\_CONJUGATION;REACTOME\_GLUCOSE\_METABOLISM  
:AF6\_MEDIATED\_INDUCION\_OF\_NFKB\_AND\_MAP\_KINASES\_UPON\_TLR7\_8\_OR\_9\_ACTIVAT

AMMA\_CARBOXYLATION\_TRANSPORT\_AND\_AMINO\_TERMINAL\_CLEAVAGE\_OF\_PROTEINS;F

\_MRNA\_SPLICING;REACTOME\_MRNA\_SPLICING\_MINOR\_PATHWAY

:EPLICATION;REACTOME\_MITOTIC\_PROMETAPHASE

E\_PLASMA\_MEMBRANE;REACTOME\_SIGNALLING\_TO\_ERKS;REACTOME\_P38MAPK\_EVENTS  
AMMA\_CARBOXYLATION\_TRANSPORT\_AND\_AMINO\_TERMINAL\_CLEAVAGE\_OF\_PROTEINS;F

1METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

NDING

.TION;REACTOME\_ENDOSOMAL\_SORTING\_COMPLEX\_REQUIRED\_FOR\_TRANSPORT\_ESCRT

;YNTHESES\_SECRETION\_AND\_INACTIVATION\_OF\_GIP;REACTOME\_INCRETIN\_SYNTHESIS\_SI  
;YNTHESES\_SECRETION\_AND\_INACTIVATION\_OF\_GIP;REACTOME\_INCRETIN\_SYNTHESIS\_SI

ALPHA\_HYDROXYCHOLESTEROL;REACTOME\_RECYCLING\_OF\_BILE\_ACIDS\_AND\_SALTS;RE/



CTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PROTEINS\_AND\_COMPLEXES;REACTOME\_INTEGRIN\_ALPHAIIIB\_BETA3\_SIGNALING;REACTOME\_REGULATION\_OF\_INSULIN\_SECRET  
SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP  
EVENTS;REACTOME\_CGMP\_EFFECTS;REACTOME\_NITRIC\_OXIDE\_STIMULATES\_GUANYLAT

\_SURFACE\_INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_PECAM1\_INTERACTION  
\_FORMATION;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_AXON\_GUIDANCE;REACTOME\_  
MECHANISM\_BY\_IFN\_STIMULATED\_GENES;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;F

BRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBR

PTOR\_SIGNALLING\_CASCADE;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASM

\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECE

DNA\_REPAIR  
SMITTER\_RELEASE\_CYCLE;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLE

ME\_SIGNALING\_BY\_ERBB4;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME\_GRB2\_EVENTS

INELS

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID  
NREGULATION\_OF\_TGF\_BETA\_RECEPTOR\_SIGNALING;REACTOME\_TGF\_BETA\_RECEPTOR

PSIN\_LIKE\_RECEPTORS;REACTOME\_CHEMOKINE\_RECEPTORS\_BIND\_CHEMOKINES;REACTO

ME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOME\_MET

OSIS

CTOME\_OTHER\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SEMA3A\_PAK\_DEPENDENT\_AXI

THE\_FANCONI\_ANEMIA\_PATHWAY;REACTOME\_FANCONI\_ANEMIA\_PATHWAY;REACTOME\_DI

\_OF\_SMAD2\_3\_SMAD4\_TRANSCRIPTIONAL\_ACTIVITY;REACTOME\_GENERIC\_TRANSCRIPTIOI

'CLASE;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_HEMOSTASIS;REACTOME\_POTA

ISM

PSIN\_LIKE\_RECEPTORS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA

OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION

D\_PROTEIN\_RESPONSE

\_IFN\_ALPHA\_BETA\_PATHWAYS;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_IMMUNE\_SYSTEM

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAPTIC

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACIDS

31\_S\_PHASES

'COSAMINOGLYCAN\_METABOLISM;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES

SLATIONAL\_PROTEIN\_MODIFICATION

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID  
ROTEINS\_AND\_COMPLEXES;REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;R

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

!EACTOME\_GASTRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_NRA  
!EACTOME\_GASTRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_NRA

IGNALLING\_CASCADE;REACTOME\_REGULATION\_OF\_AMPK\_ACTIVITY\_VIA\_LKB1;REACTOME\_BODY\_METABOLISM  
ME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOME\_CHC

DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS

MOSOME\_MAINTENANCE;REACTOME\_DEPOSITION\_OF\_NEW\_CENPA\_CONTAINING\_NUCLEC

TOME\_IL\_7\_SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_SIGNALING\_BY\_ERE  
I\_REPLICATION\_STRESS;REACTOME\_G2\_M\_CHECKPOINTS

.FATE\_DERMATAN\_SULFATE\_METABOLISM;REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_

.YCOSPHINGOLIPID\_METABOLISM;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_T

S;REACTOME\_SEMAPHORIN\_INTERACTIONS

.IN\_A\_B1\_ASSOCIATED\_EVENTS\_DURING\_G2\_M\_TRANSITION;REACTOME\_MITOTIC\_G2\_G2\_  
.IN\_A\_B1\_ASSOCIATED\_EVENTS\_DURING\_G2\_M\_TRANSITION;REACTOME\_MITOTIC\_G2\_G2\_  
I;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM  
I;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

HOMEOSTASIS;REACTOME\_HEMOSTASIS

REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;F  
REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;F  
REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;F

REACTOME\_PEPTIDE\_CHAIN\_ELONGATION;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTO  
REACTOME\_GPCR\_LIGAND\_BINDING

ASPARAGINE\_N\_LINKED\_GLYCOSYLATION;REACTOME\_TRANSPORT\_TO\_THE\_GOLGI\_AND\_SUE  
THESIS\_OF\_SUBSTRATES\_IN\_N\_GLYCAN\_BIOSYTHESIS;REACTOME\_ASPARAGINE\_N\_LINKED

ASSOCIATED\_VESICLE\_BIOGENESIS

REACTOME\_DOUBLE\_STRAND\_BREAK\_REPAIR;REACTOME\_DNA\_REPAIR

\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_ANTIGEN\_ACTIVATES\_B\_CELL\_RECEPTOR

REACTOME\_PEPTIDE\_CHAIN\_ELONGATION;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTO

VALING\_OF\_ACTIVATED\_FGFR;REACTOME\_SIGNALING\_BY\_FGFR

ISM

RANSPORT;REACTOME\_TRANSPORT\_OF\_VITAMINS\_NUCLEOSIDES\_AND\_RELATED\_MOLEC

CTOME\_NEURONAL\_SYSTEM



\_ISM;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES

SIS

SIS

SIS

RT;REACTOME\_LIPOPROTEIN\_METABOLISM

\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

3OLISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_METABOLISM\_OF\_C  
3\_IN\_B\_CELLS;REACTOME\_SIGNALING\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_TCR

E\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACT

MOLECULES

ISM

/ATION\_OF\_IKKS\_COMPLEX;REACTOME\_MAP\_KINASE\_ACTIVATION\_IN\_TLR\_CASCADE;REA

.DING;REACTOME\_METABOLISM\_OF\_PROTEINS

CTRON\_TRANSPORT;REACTOME\_METABOLISM\_OF\_AMINO\_ACIDS\_AND\_DERIVATIVES;REA  
\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_I  
INSULIN\_LIKE\_GROWTH\_FACTOR\_BINDING\_PROTEINS\_IGFBPS

SLATIONAL\_PROTEIN\_MODIFICATION

SIS  
BINDING

ME\_SIGNALING\_BY\_NOTCH

ACE\_INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_COLLAGEN\_FORMATION;REA  
\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;  
/FGFR1\_FUSION\_MUTANTS;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS

MES;REACTOME\_ANTIGEN\_PROCESSING\_CROSS\_PRESENTATION;REACTOME\_ER\_PHAGOSOMES;  
FROM\_CHROMATIN;REACTOME\_ASSOCIATION\_OF\_LICENSING\_FACTORS\_WITH\_THE\_PRE

L\_JUNCTION\_ORGANIZATION  
BINDING

E\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;  
E\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;  
RIUM\_TUBERCULOSIS;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES

INFECTION\_OF\_HOMO\_SAPIENS\_WITH\_MYCOBACTERIUM\_TUBERCULOSIS;REACTOME\_ENERGY\_METABOLISM;  
\_DARPP\_32\_EVENTS;REACTOME\_AXON\_GUIDANCE;REACTOME\_CRMP5\_IN\_SEMA3A\_SIGNALLING;  
SIGNALLING\_CASCADE;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;  
SIGNALLING\_CASCADE;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM

\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

ARGINE\_N\_LINKED\_GLYCOSYLATION

OSTASIS

N\_RECEPTOR\_SIGNALLING\_CASCADE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REAC  
N\_RECEPTOR\_SIGNALLING\_CASCADE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REAC

I\_REPLACEMENT\_PATHWAY;REACTOME\_BASE\_FREE\_SUGAR\_PHOSPHATE\_REMOVAL\_VIA\_

EVENTS

;REPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYTE\_DIFFERENTIATION;REACTOME\_HORMON

;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM

;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM

INELS

I\_CHANNELS

ASPASE\_MEDIATED\_CLEAVAGE\_OF\_CYTOSKELETAL\_PROTEINS;REACTOME\_CELL\_JUNCTI

IAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRANSMITTER\_RELEASE\_CYC

CHONDRIAL\_TRANSCRIPTION;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_TERMINATION

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

PORT;REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPORT\_ATP\_SYNTHESIS\_BY\_CHEMIOSM

.L\_JUNCTION\_ORGANIZATION

\_RAS;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOM

INSULIN\_LIKE\_GROWTH\_FACTOR\_BINDING\_PROTEINS\_IGFBPS

ROTEINS\_AND\_COMPLEXES;REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;R

SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_PI3K\_EV  
\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC  
APSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_NEUROTRANSMITTER\_RELEASE\_CYC

\_L\_CELL\_COMMUNICATION;REACTOME\_CASPASE\_MEDIATED\_CLEAVAGE\_OF\_CYTOSKELET  
\_L\_CELL\_COMMUNICATION;REACTOME\_CASPASE\_MEDIATED\_CLEAVAGE\_OF\_CYTOSKELET  
\_L\_CELL\_COMMUNICATION;REACTOME\_CASPASE\_MEDIATED\_CLEAVAGE\_OF\_CYTOSKELET  
\_L\_CELL\_COMMUNICATION;REACTOME\_CASPASE\_MEDIATED\_CLEAVAGE\_OF\_CYTOSKELET

/ERSION\_TRANSAMINATION;REACTOME\_TRYPTOPHAN\_CATABOLISM  
/ERSION\_TRANSAMINATION;REACTOME\_TRYPTOPHAN\_CATABOLISM  
THESIS\_OF\_SUBSTRATES\_IN\_N\_GLYCAN\_BIOSYTHESIS;REACTOME\_ASPARAGINE\_N\_LINKE

N\_EVENTS;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REA

TION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONC  
E\_PLASMA\_MEMBRANE;REACTOME\_SIGNALLING\_TO\_ERKS;REACTOME\_P38MAPK\_EVENTS

\_FORMATION;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_AXON\_GUIDANCE;REACTOME\_  
\_FORMATION;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_AXON\_GUIDANCE;REACTOME\_  
\_FORMATION;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_AXON\_GUIDANCE;REACTOME\_

'6\_MEDIATED\_NFKB\_ACTIVATION;REACTOME\_RIG\_I\_MDA5\_MEDIATED\_INDUCION\_OF\_IFN\_  
ARAGINE\_N\_LINKED\_GLYCOSYLATION;REACTOME\_CALNEXIN\_CALRETICULIN\_CYCLE;REAC  
RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

SPORT;REACTOME\_STEROID\_HORMONES;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPC  
SPORT;REACTOME\_STEROID\_HORMONES;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPC

:GRINS;REACTOME\_GRB2\_SOS\_PROVIDES\_LINKAGE\_TO\_MAPK\_SIGNALING\_FOR\_INTERGR

INTHESIS;REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURON



STRATE\_TYPE;REACTOME\_PHASE1\_FUNCTIONALIZATION\_OF\_COMPOUNDS

OME\_SIGNALING\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_SIGNALING\_BY\_ILS;REACT

'COSAMINOGLYCAN\_METABOLISM;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES

N\_FORMATION;REACTOME\_CELL\_JUNCTION\_ORGANIZATION

NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

:C\_MEDIATED\_ATTRACTIVE\_SIGNALING;REACTOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYO  
:C\_MEDIATED\_ATTRACTIVE\_SIGNALING;REACTOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYO

.SE1\_FUNCTIONALIZATION\_OF\_COMPOUNDS;REACTOME\_METABOLISM\_OF\_POLYAMINES  
.SE1\_FUNCTIONALIZATION\_OF\_COMPOUNDS;REACTOME\_METABOLISM\_OF\_POLYAMINES  
.SE1\_FUNCTIONALIZATION\_OF\_COMPOUNDS;REACTOME\_METABOLISM\_OF\_POLYAMINES

MES;REACTOME\_ANTIGEN\_PROCESSING\_CROSS\_PRESENTATION;REACTOME\_ER\_PHAGOS

.TION\_OF\_CELL\_SURFACE\_RECEPTORS\_BY\_RECRUITING\_THEM\_TO\_CLATHRIN\_ADAPTERS

OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/  
OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/  
OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/  
OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/

OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/

IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

IGNALING

SSION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REACTOME\_CIRCADIAN\_R

REAM\_SIGNALING;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS;REACTOME\_CGMP\_EFFE  
EACTOME\_CYTOCHROME\_P450\_ARRANGED\_BY\_SUBSTRATE\_TYPE;REACTOME\_PHASE1\_F

TRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPC  
CTRON\_TRANSPORT;REACTOME\_PYRUVATE\_METABOLISM  
RANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AI

SKELETAL\_PROTEINS;REACTOME\_APOPTOSIS;REACTOME\_APOPTOTIC\_EXECUTION\_PHASE

\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE  
ROTEINS\_AND\_COMPLEXES;REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;R

IGNALING

IGNALING

IGNALING

\_ATION\_DEPENDENT\_MRNA\_DECAY;REACTOME\_METABOLISM\_OF\_RNA

\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEF

SCRIPT\_TO\_CYTOPLASM;REACTOME\_MRNA\_PROCESSING;REACTOME\_TRANSPORT\_OF\_M.

SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_PI3K\_EVI  
\_GLUCOSE\_METABOLISM

D\_PROTEIN\_RESPONSE

SYNTHESIS\_ON\_THE\_LAGGING\_STRAND;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_M\_G  
I\_CHANNELS

PLATELET\_PRODUCTION;REACTOME\_KINESINS;REACTOME\_HEMOSTASIS;RE/

ACTIVATES\_SMADS;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_OPIOID\_SIGNALLING;R  
ORT;REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPORT\_ATP\_SYNTHESIS\_BY\_CHEMIOSM  
RIUM\_TUBERCULOSIS;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULE

METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS  
TRANSPORT;REACTOME\_TRANSPORT\_OF\_VITAMINS\_NUCLEOSIDES\_AND\_RELATED\_MOLEC

STEM  
HEMOSTASIS

REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I  
ISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_T  
REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_HOMOLOGOUS\_RECOMBINATION\_REPAIR

REPLICATION;REACTOME\_MITOTIC\_PROMETAPHASE  
CELL\_JUNCTION\_ORGANIZATION;REACTOME\_CELL\_JUNCTION\_ORGANIZATION

INTERACTION\_BETWEEN\_L1\_AND\_ANKYRINS

TRANSCRIPTION\_DEPENDENT\_MRNA\_DECAY;REACTOME\_METABOLISM\_OF\_RNA

REACTOME\_NRAGE\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLIN  
REACTOME\_NRAGE\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLIN  
IGNALING

ASES

INELS

IRIN\_ADAPTERS;REACTOME\_DEFENSINS;REACTOME\_TCR\_SIGNALING;REACTOME\_DOWNS

YNTHESIS\_OF\_PIPS\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_PI\_METABOLISM;REACTOME  
YNTHESIS\_OF\_PIPS\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_PI\_METABOLISM;REACTOME  
\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TR

OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/  
OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/

\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_I

INTEGRIN\_CELL\_SURFACE\_INTERACTIONS;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADA

MEDIATED\_TRANSFER\_OF\_SUBSTRATE\_TO\_CCT\_TRIC;REACTOME\_PROTEIN\_FOLDING;REA

AMINOGLYCAN\_METABOLISM;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES  
I\_REPLACEMENT\_PATHWAY;REACTOME\_BASE\_FREE\_SUGAR\_PHOSPHATE\_REMOVAL\_VIA\_

\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETOI  
DE\_STIMULATES\_GUANYLATE\_CYCLASE;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME

ARAGINE\_N\_LINKED\_GLYCOSYLATION;REACTOME\_N\_GLYCAN\_TRIMMING\_IN\_THE\_ER\_AND  
RON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMM

:EPLICATION;REACTOME\_MITOTIC\_PROMETAPHASE  
:EPLICATION;REACTOME\_MITOTIC\_PROMETAPHASE  
SOCIATED\_VESICLE\_BIOGENESIS

SLATIONAL\_PROTEIN\_MODIFICATION

/\_FGFR1\_FUSION\_MUTANTS;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS

SCRIPTION\_COUPLED\_NER\_TC\_NER;REACTOME\_POL\_SWITCHING;REACTOME\_NUCLEOTII

;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM

\_FORMATION;REACTOME\_INTEGRIN\_CELL\_SURFACE\_INTERACTIONS;REACTOME\_SIGNALIN

3ATION\_COMPLEX\_;REACTOME\_ELONGATION\_ARREST\_AND\_RECOVERY;REACTOME\_RNA\_

Ξ\_AMINO\_ACID\_TRANSPORT\_ACROSS\_THE\_PLASMA\_MEMBRANE;REACTOME\_TRANSMEME

AND\_BINDING\_RECEPTORS;REACTOME\_PROSTANOID\_LIGAND\_RECEPTORS;REACTOME\_G

OME\_CELL\_EXTRACELLULAR\_MATRIX\_INTERACTIONS;REACTOME\_CELL\_JUNCTION\_ORGAN

Ξ\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTORS;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENT

I;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

ME\_SIGNALING\_BY\_NOTCH

MENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_KINESINS;REACTOME\_HEMOSTASIS;RE/

ME\_TETRAHYDROBIOPTERIN\_BH4\_SYNTHESIS\_RECYCLING\_SALVAGE\_AND\_REGULATION;

ME\_SIGNALING\_BY\_NOTCH2;REACTOME\_SIGNALING\_BY\_NOTCH1;REACTOME\_SIGNALING\_  
TION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONE

ES;REACTOME\_ION\_CHANNEL\_TRANSPORT

\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC  
\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP

GNALING\_BY\_ROBO\_RECEPTOR

CAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_SIGNALING\_BY\_GPCR;REAC  
UT\_GROWTH;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_INTERACTION\_BETWEEN\_L1  
UT\_GROWTH;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_INTERACTION\_BETWEEN\_L1.



OME\_POST\_TRANSLATIONAL\_MODIFICATION\_SYNTHESIS\_OF\_GPI\_ANCHORED\_PROTEINS;f

ES;REACTOME\_ION\_CHANNEL\_TRANSPORT

NS;REACTOME\_AQUAPORIN\_MEDIATED\_TRANSPORT

REACTOME\_CYTOCHROME\_P450\_ARRANGED\_BY\_SUBSTRATE\_TYPE;REACTOME\_PHASE1\_F

ROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NF\_KB\_NF\_TAU2\_AND\_NF\_TAU1;REACTO

RANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AI

EVENTS

PROTEIN\_LIKE\_RECEPTORS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_SIS

REACTOME\_PEPTIDE\_CHAIN\_ELONGATION;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTO

REACTOME\_PPARG\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_PRE\_NOTCH\_TRANSCRIPTION  
REACTOME\_PPARG\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_PRE\_NOTCH\_TRANSCRIPTION  
REACTOME\_PPARG\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_PRE\_NOTCH\_TRANSCRIPTION  
\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_F

REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM  
REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

MOLECULES

REGULATED\_BY\_THE\_EXON\_JUNCTION\_COMPLEX

3Y\_INSULIN\_RECEPTOR;REACTOME\_MTORC1\_MEDIATED\_SIGNALLING;REACTOME\_PI3K\_C/

E\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_PLATELET\_HOME(

CTIONS;REACTOME\_HEMOSTASIS

.GLUCOSE\_METABOLISM

ACTOME\_PROCESSING\_OF\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_TRAN  
ACTOME\_PROCESSING\_OF\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_TRAN  
LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSPORT;REACTOME\_LIPOPROTEIN\_METABOLIS

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID  
SIS;REACTOME\_PACKAGING\_OF\_TELOMERE\_ENDS;REACTOME\_TELOMERE\_MAINTENANCE

GRINS;REACTOME\_INTEGRIN\_ALPHAIIIB\_BETA3\_SIGNALING;REACTOME\_SIGNALING\_BY\_PC

ME\_SIGNALING\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_GPVI\_MEDIATED\_ACTIVATI

RIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONDRIAL\_TRANSCRIPTION;REA

\_MRNA\_SPLICING;REACTOME\_MRNA\_SPLICING\_MINOR\_PATHWAY

HANCED\_BY\_THE\_EXON\_JUNCTION\_COMPLEX  
HANCED\_BY\_THE\_EXON\_JUNCTION\_COMPLEX

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP  
\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

RANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AI

\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_RNA\_POL\_II\_TRANSCRIPTION;REA

PI\_METABOLISM;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_GPVI\_MEDIATED\_ACTIVATI

'COSAMINOGLYCAN\_METABOLISM;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES

:TOME\_SIGNALING\_BY\_ERBB4;REACTOME\_NUCLEAR\_SIGNALING\_BY\_ERBB4;REACTOME\_P

:TOME\_SIGNALING\_BY\_ERBB4;REACTOME\_NUCLEAR\_SIGNALING\_BY\_ERBB4;REACTOME\_P

:TIVATED\_TAK1\_MEDIATES\_P38\_MAPK\_ACTIVATION;REACTOME\_TRAF6\_MEDIATED\_INDUCT

DE\_STIMULATES\_GUANYLATE\_CYCLASE;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME

RANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AI

RANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AI

/\_FGFR1\_FUSION\_MUTANTS;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS

.TION\_OF\_CELL\_SURFACE\_RECEPTORS\_BY\_RECRUITING\_THEM\_TO\_CLATHRIN\_ADAPTERS

.ONAL\_SYSTEM;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTC

EACTOME\_PEPTIDE\_CHAIN\_ELONGATION;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTC

SIGNALING\_BY\_ERBB2;REACTOME\_GRB2\_EVENTS\_IN\_ERBB2\_SIGNALING;REACTOME\_PI3K\_E  
SIN\_LIKE\_RECEPTORS;REACTOME\_CHEMOKINE\_RECEPTORS\_BIND\_CHEMOKINES;REACTO

GNALING;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REAC  
GNALING;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REAC  
GNALING;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REAC

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP  
\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

FACE\_INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_COLLAGEN\_FORMATION;REAC

TION;REACTOME\_MEIOTIC\_RECOMBINATION;REACTOME\_HEMOSTASIS

RECEPTOR\_SIGNALING;REACTOME\_NUCLEAR\_SIGNALING\_BY\_ERBB4;REACTOME\_DIABETE  
INTERACTION\_BETWEEN\_L1\_AND\_ANKYRINS

RT;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES

REACTOME\_ENERGY\_DEPENDENT\_REGULATION\_OF\_MTOR\_BY\_LKB1\_AMPK;REACTOME\_PKB\_M

REACTOME\_TRIGLYCERIDE\_BIOSYNTHESIS;REACTOME\_FATTY\_ACYL\_COA\_BIOSYNTHESIS;RE  
ACTOME\_TRIGLYCERIDE\_BIOSYNTHESIS;REACTOME\_FATTY\_ACYL\_COA\_BIOSYNTHESIS;RE

REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_CLASS\_B\_2\_SECRETIN\_FAMILY\_RECEPTORS;REACTO  
REPLICATION;REACTOME\_MITOTIC\_PROMETAPHASE

PROTEINS\_AND\_COMPLEXES;REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;R  
GPROTEIN\_LIKE\_RECEPTORS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPH

REACTOME\_REGULATION\_OF\_WATER\_BALANCE\_BY\_RENAL\_AQUAPORINS

REACTOME\_ION\_CHANNEL\_TRANSPORT

REACTOME\_CENTRON\_TRANSPORT;REACTOME\_CELL\_SURFACE\_INTERACTIONS\_AT\_THE\_VASCULAR\_WA

\_MRNA\_SPLICING

ENESIS;REACTOME\_REGULATORY\_RNA\_PATHWAYS;REACTOME\_PROCESSING\_OF\_CAPPE

EAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND

CTOME\_ANTIGEN\_ACTIVATES\_B\_CELL\_RECEPTOR\_LEADING\_TO\_GENERATION\_OF\_SECON  
ALING\_IN\_EMT\_EPITHELIAL\_TO\_MESENCHYMAL\_TRANSITION;REACTOME\_NRAGE\_SIGNALS

TION\_OF\_TRANSCRIPTION\_COUPLED\_NER\_TC\_NER\_REPAIR\_COMPLEX;REACTOME\_DNA\_F  
TION\_OF\_TRANSCRIPTION\_COUPLED\_NER\_TC\_NER\_REPAIR\_COMPLEX;REACTOME\_DNA\_F

OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/  
OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/  
OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/

:GATIVE\_REGULATORS\_OF\_RIG\_I\_MDA5\_SIGNALING;REACTOME\_RIG\_I\_MDA5\_MEDIATED\_II



Ξ\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTORS;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENT  
INTEGRIN\_CELL\_SURFACE\_INTERACTIONS;REACTOME\_INTERFERON\_GAMMA\_SIGNALING;  
\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IL\_6\_SIGNALING;REACTOME

RT;REACTOME\_LIPOPROTEIN\_METABOLISM;REACTOME\_CHYLOMICRON\_MEDIATED\_LIPID\_  
RT;REACTOME\_LIPOPROTEIN\_METABOLISM;REACTOME\_CHYLOMICRON\_MEDIATED\_LIPID\_  
/OSTASIS

VG\_BY\_ERBB2;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_NGF\_SIGNALLING  
IGNALING

DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS

\_GLUCOSE\_METABOLISM

\_MRNA\_SPLICING

\_MRNA\_SPLICING

NCHYMAL\_TRANSITION;REACTOME\_DOWNREGULATION\_OF\_TGF\_BETA\_RECEPTOR\_SIGNALING;  
\_GPCR;REACTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM

\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTORS;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENT

TRANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACIDS

LIPID\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

\_MRNA\_SPLICING

\_MRNA\_SPLICING

ING;REACTOME\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SEMA4D\_INDUCED\_CELL\_MIGRATION

REPLACEMENT\_PATHWAY;REACTOME\_CELL\_CYCLE;REACTOME\_PROCESSIVE\_SYNTHESIS

REPLACEMENT\_PATHWAY;REACTOME\_CELL\_CYCLE;REACTOME\_PROCESSIVE\_SYNTHESIS

REPLACEMENT\_PATHWAY;REACTOME\_CELL\_CYCLE;REACTOME\_PROCESSIVE\_SYNTHESIS

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP

IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

ACTOME\_SIGNAL\_REGULATORY\_PROTEIN\_SIRP\_FAMILY\_INTERACTIONS;REACTOME\_HEMOS

.DING;REACTOME\_METABOLISM\_OF\_PROTEINS

NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

HYDROLYZED\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION

PROTEINS\_AND\_COMPLEXES;REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;R

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP

ACTOME\_ANTIVIRAL\_MECHANISM\_BY\_IFN\_STIMULATED\_GENES;REACTOME\_SIGNALING\_BY\_E

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

RANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AI

INELS

ES;REACTOME\_ION\_CHANNEL\_TRANSPORT

\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_GLUCAGON\_SIGNALING\_IN\_METABOLIC  
\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_GLUCAGON\_SIGNALING\_IN\_METABOLIC  
SIS

\_FORMATION;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_AXON\_GUIDANCE;REACTOME\_  
\_FORMATION;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_AXON\_GUIDANCE;REACTOME\_  
:ACTOME\_ACTIVATION\_OF\_CHAPERONE\_GENES\_BY\_XBP1S;REACTOME\_UNFOLDED\_PROT

CTIONS;REACTOME\_HEMOSTASIS

TRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_RESPONSE\_TO\_ELE

PI\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

ERON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMI  
ROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTO

SCRIPT\_TO\_CYTOPLASM;REACTOME\_RNA\_POL\_II\_TRANSCRIPTION;REACTOME\_MRNA\_PRO

CELL\_SURFACE\_INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_INTEGRIN\_CELL\_S  
\_FORMATION;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_AXON\_GUIDANCE;REACTOME

ROTEINS\_AND\_COMPLEXES;REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;R

\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

\_SIGNALING\_BY\_GPCR;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTORS;REACTOME  
SM

\_FROM\_CHROMATIN;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_CELL\_CYCLE\_CHECKP  
G;REACTOME\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SEMA4D\_INDUCED\_CELL\_MIGRA

G;REACTOME\_IL\_2\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGN  
:MODELLING\_OF\_PE;REACTOME\_GLYCEROPHOSPHOLIPID\_BIOSYNTHESIS;REACTOME\_ME  
/OSTASIS

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP  
SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP

NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH  
NG;REACTOME\_REGULATORY\_RNA\_PATHWAYS;REACTOME\_SIGNALING\_BY\_NOTCH  
E\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECE  
TION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONC  
TION;REACTOME\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONC  
:EPLICATION;REACTOME\_MITOTIC\_PROMETAPHASE

M\_OF\_LIPIDS\_AND\_LIPOPROTEINS

SIS

.YCOSPHINGOLIPID\_METABOLISM;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_T

Y\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM  
Y\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM

\_IFN\_ALPHA\_BETA\_PATHWAYS;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_IMMUNE

\_APOPTOSIS;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTOM

A;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_MRNA\_PROCESSING;REACTOME\_MRNA\_  
\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

ROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTO

ANSRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPOTEINS;REACT  
LY

.CTOME\_SIGNALING\_BY\_NOTCH  
\_GLUCOSE\_METABOLISM

:\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_

ME\_HS\_GAG\_BIOSYNTHESIS;REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_GAG\_METABO  
RANSPO

ES;REACTOME\_ION\_CHANNEL\_TRANSPORT

\_FATE\_DERMATAN\_SULFATE\_METABOLISM;REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_  
:\_PLATELET\_CALCIIUM\_HOMEOSTASIS;REACTOME\_ION\_TRANSPORT\_BY\_P\_TYPE\_ATPASES  
EACTOME\_METABOLISM\_OF\_PROTEINS

OME\_BASIGIN\_INTERACTIONS;REACTOME\_AXON\_GUIDANCE;REACTOME\_L1CAM\_INTERAC  
OME\_BASIGIN\_INTERACTIONS;REACTOME\_AXON\_GUIDANCE;REACTOME\_L1CAM\_INTERAC

Ξ\_EXTENSION\_OF\_TELOMERES

MUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM



'COSAMINOGLYCAN\_METABOLISM;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES  
ROTEINS\_AND\_COMPLEXES;REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;R

ME\_SIGNALING\_BY\_NOTCH2;REACTOME\_SIGNALING\_BY\_NOTCH1;REACTOME\_SIGNALING\_

CTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTI

UT\_GROWTH;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_INTERACTION\_BETWEEN\_L1.  
PSIN\_LIKE\_RECEPTORS;REACTOME\_GPCR\_LIGAND\_BINDING

BINDING

TOME\_BIOLOGICAL\_OXIDATIONS;REACTOME\_PHASE\_II\_CONJUGATION



DE\_STIMULATES\_GUANYLATE\_CYCLASE;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME

ME\_TETRAHYDROBIOPTERIN\_BH4\_SYNTHESIS\_RECYCLING\_SALVAGE\_AND\_REGULATION;

ATION\_DEPENDENT\_MRNA\_DECAY;REACTOME\_METABOLISM\_OF\_RNA  
MRNA\_SPLICING

M\_OF\_LIPIDS\_AND\_LIPOPROTEINS

YCOSPHINGOLIPID\_METABOLISM;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_T

ANCE;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_RECYCLING\_PATHWAY\_OF\_L1;REAC

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP  
LLING\_COMPLEXES;REACTOME\_P75NTR\_SIGNALS\_VIA\_NFKB;REACTOME\_NFKB\_IS\_ACTIV/

ESSING\_CROSS\_PRESENTATION;REACTOME\_INTERFERON\_GAMMA\_SIGNALING;REACTOME

TOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH;REACTOME\_L1CAM\_INTERACTION

JSULIN LIKE\_GROWTH\_FACTOR\_BINDING\_PROTEINS\_IGFBPS

INDING\_RECEPTORS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA

CHONDRIAL\_TRANSCRIPTION;REACTOME\_RNA\_POL\_I\_TRANSCRIPTION\_INITIATION

\_OF\_LIPIDS\_AND\_LIOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETO

EACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES

ROTEINS\_AND\_COMPLEXES;REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;R  
L\_CELL\_COMMUNICATION;REACTOME\_INTEGRIN\_CELL\_SURFACE\_INTERACTIONS;REACTC  
6\_MEDIATED\_NFKB\_ACTIVATION;REACTOME\_RIG\_I\_MDA5\_MEDIATED\_INDUCION\_OF\_IFN\_

ACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_ACTIVATED\_POINT\_MUTANTS\_OF

:EACTOME\_NRAGE\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLIN  
RON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMM  
ME\_CYCLIN\_E\_ASSOCIATED\_EVENTS\_DURING\_G1\_S\_TRANSITION\_;REACTOME\_G1\_PHASE;

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

N\_OF\_ENERGY\_METABOLISM;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION  
IGNALING

ROTEINS\_AND\_COMPLEXES;REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;R

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

LLING\_COMPLEXES;REACTOME\_P75NTR\_SIGNALS\_VIA\_NFKB;REACTOME\_NFKB\_IS\_ACTIV/

CHONDRIAL\_TRANSCRIPTION;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_INITIATION\_FROI

REACTOME\_NRAGE\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLIN

JUNCTION\_ORGANIZATION;REACTOME\_CELL\_JUNCTION\_ORGANIZATION

REACTOME\_SIGNALLING\_TO\_ERKS;REACTOME\_SIGNALLING\_TO\_P38\_VIA\_RIT\_AND\_RIN

REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

REACTOME\_SRP\_DEPENDENT\_COTRANSLATIONAL\_PROTEIN\_TARGETING\_TO\_MEMBRANES;  
REACTOME\_ION\_CHANNEL\_TRANSPORT;  
REACTOME\_PROTEINS\_MEDIATED\_TRANSPORT;  
REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;  
REACTOME\_LIGAND\_GATED\_ION\_CHANNEL\_TRANSPORT

REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

REACTOME\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODIES

REACTOME\_ROLE\_OF\_DCC\_IN\_REGULATING\_APOPTOSIS;REACTOME\_NETRIN1\_SIGNALING;REACTOME\_NG2

REACTOME\_MER\_PHAGOSOME\_PATHWAY;REACTOME\_IMMUNOREGULATORY\_INTERACTIONS\_BETWEEN\_T\_LYMPHOCYTES

REACTOME\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

ARGINE\_N\_LINKED\_GLYCOSYLATION;REACTOME\_CALNEXIN\_CALRETICULIN\_CYCLE;REACTOME\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE

I\_CHANNELS

INSULIN\_SECRETION;REACTOME\_POTASSIUM\_CHANNELS;REACTOME\_INWARDLY\_RECTIFYING\_CHANNELS

ME\_SIGNALING\_BY\_NOTCH

PI\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

PID\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

ME\_CELL\_CYCLE\_MITOTIC;REACTOME\_COSTIMULATION\_BY\_THE\_CD28\_FAMILY;REACTOME\_CELL\_CYCLE\_G1\_S\_G2\_M

GENESIS;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME\_HEMOSTASIS;REACTOME\_CELL\_CYCLE\_G1\_S\_G2\_M



\_MRNA\_SPLICING;REACTOME\_MRNA\_SPLICING\_MINOR\_PATHWAY

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP

USE\_II\_CONJUGATION

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP

BY\_GPCR;REACTOME\_OPIOID\_SIGNALLING;REACTOME\_ADENYLATE\_CYCLASE\_INHIBITORY

I;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

ORT;REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPORT\_ATP\_SYNTHESIS\_BY\_CHEMIOSM

\_MITOTIC\_SPINDLE\_CHECKPOINT\_COMPONENTS;REACTOME\_CELL\_CYCLE;REACTOME\_CE

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

BY\_ERBB4;REACTOME\_PROLACTIN\_RECEPTOR\_SIGNALING;REACTOME\_NUCLEAR\_SIGNALING;  
REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES

REACTOME\_DOWNSTREAM\_TCR\_SIGNALING;REACTOME\_P75NTR\_RECRUITS\_SIGNALLING\_COMPLEX

REACTOME\_GLYCEROPHOSPHOLIPID\_BIOSYNTHESIS;REACTOME\_METABOLISM\_OF\_LIPIDS

REACTOME\_GPCR\_LIGAND\_BINDING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND\_BINDING;  
REACTOME\_HEPARAN\_SULFATE\_HEPARIN\_HS\_GAG\_METABOLISM

.L\_JUNCTION\_ORGANIZATION

K\_VESICLE\_BUDDING;REACTOME\_SYNTHESIS\_OF\_PIPS\_AT\_THE\_GOLGI\_MEMBRANE;REAC  
ING\_CASCADE;REACTOME\_INTRINSIC\_PATHWAY;REACTOME\_HEMOSTASIS;REACTOME\_PL

1METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

G\_COMPLEXES;REACTOME\_P75NTR\_SIGNALS\_VIA\_NFKB;REACTOME\_P75\_NTR\_RECEPTOF

RT;REACTOME\_LIPOPROTEIN\_METABOLISM

\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT;RE.

OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFIC/

SIS

NOTCH\_EXPRESSION\_AND\_PROCESSING;REACTOME\_PRE\_NOTCH\_PROCESSING\_IN\_GOLGI

STEM;REACTOME\_COMPLEMENT\_CASCADE

ISM\_OF\_VITAMINS\_AND\_COFACTORS;REACTOME\_CELL\_CYCLE;REACTOME\_ENOS\_ACTIVATION

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAPTIC

THESIS;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_LIPID\_METABOLISM;  
FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM

ION;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION;REACTOME\_RNA\_POL\_II\_TRANSCRIPTION

ION\_SIGNALING\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_IMMUNE\_SYSTEM;REACTOME

REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPORT;  
MITOCHONDRIAL\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS

THEISIS\_OF\_SUBSTRATES\_IN\_N\_GLYCAN\_BIOSYTHESIS;REACTOME\_ASPARAGINE\_N\_LINKED

PROTEIN\_LIKE\_RECEPTORS;REACTOME\_CHEMOKINE\_RECEPTORS\_BIND\_CHEMOKINES;REACTOME

REACTOME\_MEMBRANE\_TRAFFICKING;REACTOME\_TRANS\_GOLGI\_NETWORK\_VESICLE\_BUFFERING

M\_OF\_PROTEINS

SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAPTIC

REACTOME\_SIGNALING\_BY\_NOTCH

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

HEPARAN\_SULFATE\_METABOLISM;REACTOME\_HS\_GAG\_BIOSYNTHESIS;REACTOME\_HEPARA

CTION\_OF\_TRANSCRIPTION\_COUPLED\_NER\_TC\_NER\_REPAIR\_COMPLEX;REACTOME\_DNA\_F

RANSPORT;REACTOME\_TRANSPORT\_OF\_VITAMINS\_NUCLEOSIDES\_AND\_RELATED\_MOLEC

IC\_MEDIATED\_ATTRACTIVE\_SIGNALING

MEALER\_PHAGOSOME\_PATHWAY;REACTOME\_IMMUNOREGULATORY\_INTERACTIONS\_BETWE

REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES

EG\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACT

EG\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACT

IGNALING

GOLOGI\_MEMBRANE;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_SYNTHESIS\_OF\_PLASMA\_MEMBRANE;  
CELL\_JUNCTION\_ORGANIZATION;  
REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_HOMOLOGOUS\_RECOMBINATION\_REPAIR;  
REACTOME\_DNA\_DAMAGE\_RESPONSE

REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_BY\_ERBB3;  
REACTOME\_PLATELET\_PRODUCTION;REACTOME\_KINESINS;REACTOME\_HEMOSTASIS;  
REACTOME\_INSULIN\_SECRETION\_BY\_GLCAGON\_LIKE\_PEPTIDE1;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION

REACTOME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAPTIC\_TERMINAL

REACTOME\_SIGNALING\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_GPVI\_MEDIATED\_ACTIVATION\_OF\_THE\_B\_CELL

HEMOSTASIS

REACTOME\_NEUROTRANSMITTER\_RELEASE\_CYCLE;REACTOME\_DOPAMINE\_NEUROTRANSMITTER\_RELEASE\_CYCLE



REACTOME\_GPCR\_LIGAND\_BINDING

REACTOME\_MYCOBACTERIUM\_TUBERCULOSIS;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE  
IMMUNITY

REACTOME\_TRANSLATIONAL\_PROTEIN\_MODIFICATION

REACTOME\_SPHINGOLIPID\_METABOLISM;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_T

REACTOME\_CELL\_DIVISION

REACTOME\_TRANSLATIONAL\_PROTEIN\_MODIFICATION

REACTOME\_CELL\_CELL\_CONTACT\_MEDIATED\_ATTRACTIVE\_SIGNALING

ACTOME\_PROCESSING\_OF\_CAPPED\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_TRAN

RIUM\_TUBERCULOSIS;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULE

OME\_NUCLEOTIDE\_BINDING\_DOMAIN\_LEUCINE\_RICH\_REPEAT\_CONTAINING\_RECEPTOR\_I

;ENCHYMAL\_TRANSITION;REACTOME\_CELL\_CELL\_JUNCTION\_ORGANIZATION;REACTOME\_

;C\_MEDIATED\_ATTRACTIVE\_SIGNALING;REACTOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYO

\_FORMATION;REACTOME\_INTEGRIN\_CELL\_SURFACE\_INTERACTIONS;REACTOME\_SIGNALIN

\_OF\_LIPIDS\_AND\_LIOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETO  
TION\_OF\_GENE\_EXPRESSION\_IN\_BETA\_CELLS  
MOSTASIS

ALING\_BY\_HIPPO;REACTOME\_APOPTOTIC\_CLEAVAGE\_OF\_CELL\_ADHESION\_PROTEINS;RE  
SMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAP

CTION\_ORGANIZATION

TOME\_ENERGY\_DEPENDENT\_REGULATION\_OF\_MTOR\_BY\_LKB1\_AMPK;REACTOME\_PKB\_M  
OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSF

SLATIONAL\_PROTEIN\_MODIFICATION

SLATIONAL\_PROTEIN\_MODIFICATION

EACTOME\_SYNTHESIS\_OF\_PC;REACTOME\_GLYCEROPHOSPHOLIPID\_BIOSYNTHESIS;REAC

ROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTO

\_ACTIVATES\_SMADS;REACTOME\_SIGNALING\_BY\_TGF\_BETA\_RECEPTOR\_COMPLEX

.GLUCOSE\_METABOLISM

ROTEINS\_AND\_COMPLEXES;REACTOME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;R

OTIDE\_BINDING\_DOMAIN\_LEUCINE\_RICH\_REPEAT\_CONTAINING\_RECEPTOR\_NLR\_SIGNALING

NERATION\_OF\_SECOND\_MESSENGER\_MOLECULES;REACTOME\_IMMUNE\_SYSTEM;REACTOME

MENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_KINESINS;REACTOME\_HEMOSTASIS;REACTOME\_TREASURER\_SIGNALING;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGANDS

REACTOME\_PEPTIDE\_CHAIN\_ELONGATION;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME

REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_BY\_ERBB3

REACTOME\_ION\_CHANNEL\_TRANSPORT  
REACTOME\_ION\_CHANNEL\_TRANSPORT

REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_ACTIVATED\_POINT\_MUTANTS\_OF

REACTOME\_OPIOID\_SIGNALLING;REACTOME\_G\_PROTEIN\_ACTIVATION;REACTOME\_CELL\_DEATH\_BY\_APOPTOSIS;REACTOME\_NF\_KB\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME\_CELL\_DEATH\_BY\_APOPTOSIS

REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION

HOST\_INTERACTIONS\_OF\_HIV\_FACTORS;REACTOME\_INTERACTIONS\_OF\_VPR\_WITH\_HOST

INTERACTIONS\_BETWEEN\_A\_LYMPHOID\_AND\_A\_NON\_LYMPHOID\_CELL;REACTOME\_CELL\_

OME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICA

EINS\_MEDIATED\_TRANSPORT;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MO  
CTRON\_TRANSPORT;REACTOME\_PYRUVATE\_METABOLISM

'STEM

RANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINATION\_PRC

\_MITOTIC\_SPINDLE\_CHECKPOINT\_COMPONENTS;REACTOME\_CELL\_CYCLE;REACTOME\_CE

EM\_HEMOSTASIS  
FUNCTIONS;REACTOME\_HEMOSTASIS  
TRANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACID

PEPTIDE\_LIGAND\_RECEPTORS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA

TRANSPORT;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES  
TRANSPORT\_OF\_PROTEINS

TRANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AID

TRANSPORT;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES

BINDING

EM\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECE  
PTOR\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH  
CALYPTER\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_SIGNALING\_BY\_GPCR;REACT  
OME\_HEMOSTASIS

CELLULAR\_FORMATION;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_AXON\_GUIDANCE;REACTOME

CELLULAR\_SIGNALING\_COMPLEXES;REACTOME\_P75NTR\_SIGNALS\_VIA\_NFKB;REACTOME\_NFKB\_IS\_ACTIVATED

LY  
DME\_PRE\_NOTCH\_EXPRESSION\_AND\_PROCESSING;REACTOME\_PRE\_NOTCH\_PROCESSIN

\_BY\_ILS;REACTOME\_IL\_3\_5\_AND\_GM\_CSF\_SIGNALING;REACTOME\_IL\_RECEPTOR\_SHC\_SIG

ROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTO

TOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

ROTEINS\_MEDIATED\_TRANSPORT;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_  
MEOSTASIS;REACTOME\_HEMOSTASIS  
SOCIATED\_VESICLE\_BIOGENESIS

PSIN\_LIKE\_RECEPTORS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA

S;REACTOME\_SEMAPHORIN\_INTERACTIONS  
EMICAL\_SYNAPSES;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME\_NEU  
HOSPHORYLATION\_CASCADE;REACTOME\_APOPTOSIS;REACTOME\_APOPTOTIC\_EXECUTIO

:NTIATION

NTHESES\_ON\_THE\_LAGGING\_STRAND;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_M\_G

CTOME\_SEMA3A\_PAK\_DEPENDENT\_AXON\_REPULSION;REACTOME\_SEMAPHORIN\_INTERA

CHONDRIAL\_TRANSCRIPTION;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_TERMINATION

IGNALING

ME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM

SLATIONAL\_PROTEIN\_MODIFICATION

\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_ANTIGEN\_ACTIVATES\_B\_CELL\_RECEPTOR

CRETIN\_SYNTHESIS\_SECRETION\_AND\_INACTIVATION;REACTOME\_SYNTHESIS\_SECRETIO

RF1;REACTOME\_REGULATION\_OF\_MRNA\_STABILITY\_BY\_PROTEINS\_THAT\_BIND\_AU\_RICH\_

NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

.INE\_HYDROXYLATION\_OF\_HYPOXIA\_INDUCIBLE\_FACTOR\_ALPHA

MPLEX;REACTOME\_ACTIVATION\_OF\_THE\_MRNA\_UPON\_BINDING\_OF\_THE\_CAP\_BINDING\_C

ING\_CASCADE;REACTOME\_INTRINSIC\_PATHWAY;REACTOME\_HEMOSTASIS;REACTOME\_PL



ENTS;REACTOME\_HIV\_INFECTION;REACTOME\_HIV\_LIFE\_CYCLE;REACTOME\_LATE\_PHASE\_

ROTEINS

V\_TYPE\_3\_PROMOTER

3SEQUENT\_MODIFICATION;REACTOME\_N\_GLYCAN\_ANTENNAE\_ELONGATION;REACTOME\_N

ND\_BINDING

PTCH1\_INTRACELLULAR\_DOMAIN\_REGULATES\_TRANSCRIPTION;REACTOME\_SIGNALING\_B'

SPORT\_OF\_MATURE\_TRANSCRIPT\_TO\_CYTOPLASM;REACTOME\_TRANSMEMBRANE\_TRANS

PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_TRANSMI  
SIGNALING;REACTOME\_NEGATIVE\_REGULATION\_OF\_FGFR\_SIGNALING;REACTOME\_CELL\_

ND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_FACILITATIVE\_N

OMPLEX\_AND\_EIFS\_AND\_SUBSEQUENT\_BINDING\_TO\_43S;REACTOME\_METABOLISM\_OF\_PI

⋮

XES;REACTOME\_REGULATED\_PROTEOLYSIS\_OF\_P75NTR;REACTOME\_P75NTR\_SIGNALS\_V

PORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPOR

ARBOHYDRATES



EACTOME\_RECRUITMENT\_OF\_NUMA\_TO\_MITOTIC\_CENTROSOMES;REACTOME\_MITOTIC\_C

PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_SIGNALIN

REACTOME\_MRNA\_SPLICING;REACTOME\_PROCESSING\_OF\_CAPPED\_INTRONLESS\_PRE\_MRNA

REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME

REACTOME\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALING;REACTOME\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALING;REACTOME

REACTOME\_REPLICATIVE\_COMPLEX;REACTOME\_E2F\_ENABLED\_INHIBITION\_OF\_PRE\_REPLICATION\_COMPLEX

I\_EXPRESSION;REACTOME\_YAP1\_AND\_WWTR1\_TAZ\_STIMULATED\_GENE\_EXPRESSION;RE

IG\_BY\_PDGF;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOMI  
ME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;REAC

BY\_CONSTITUTIVELY\_ACTIVE\_EGFR;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTO



:S;REACTOME\_THE\_ROLE\_OF\_NEF\_IN\_HIV1\_REPLICATION\_AND\_DISEASE\_PATHOGENESIS  
ME\_SIGNALING\_BY\_NOTCH1;REACTOME\_GENERIC\_TRANSCRIPTION\_PATHWAY;REACTOMI

)S\_OLIGOPEPTIDES

:\_HIV\_INFECTION;REACTOME\_HIV\_LIFE\_CYCLE;REACTOME\_LATE\_PHASE\_OF\_HIV\_LIFE\_CY

)S\_OLIGOPEPTIDES

PROTEINS;REACTOME\_LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSPORT;REACTOME\_LI

ATION  
ATION

REGATION

ACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

HEMOSTASIS

\_SMAD3\_SMAD4\_HETEROTRIMER;REACTOME\_DOWNREGULATION\_OF\_SMAD2\_3\_SMAD4\_T  
PHORYLATION\_AND\_ACTIVATION\_OF\_IKKS\_COMPLEX;REACTOME\_TRAF6\_MEDIATED\_NFKB

PROTEASOME\_DEGRADATION

OS\_OLIGOPEPTIDES

ULES;REACTOME\_TRANSPORT\_OF\_ORGANIC\_ANIONS

LE;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC.

1A\_I\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND\_BINDING

REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOME\_TR

REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_PI\_METABOLISM;REACTOME\_GOLGI\_ASS

PROTEASOME\_DEGRADATION

REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;F

SIGNALING\_BY\_CONSTITUTIVELY\_ACTIVE\_EGFR;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTO  
SIGNALING\_BY\_CONSTITUTIVELY\_ACTIVE\_EGFR;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTO

:PTORS;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_

EN\_A\_LYMPHOID\_AND\_A\_NON\_LYMPHOID\_CELL;REACTOME\_INTERFERON\_GAMMA\_SIGNA

RT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT;R

ALLING;REACTOME\_ADENYLATE\_CYCLASE\_INHIBITORY\_PATHWAY;REACTOME\_NEUROTRA

OMPLEX;REACTOME\_PYRUVATE\_METABOLISM

DS\_OLIGOPEPTIDES

\_VOLTAGE\_GATED\_POTASSIUM\_CHANNELS;REACTOME\_POTASSIUM\_CHANNELS

RULES

GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOME\_REGULATION\_OF\_INSULIN\_SEC

ATION\_SIGNALING\_AND\_AGGREGATION

\_CONSTITUTIVELY\_ACTIVE\_EGFR;REACTOME\_GRB2\_EVENTS\_IN\_ERBB2\_SIGNALING;REAC  
\_LEADING\_TO\_GENERATION\_OF\_SECOND\_MESSENGERS;REACTOME\_SIGNALING\_BY\_THE



TIC\_CELL;REACTOME\_ACETYLCHOLINE\_BINDING\_AND\_DOWNSTREAM\_EVENTS;REACTOME

OMPLEX;REACTOME\_PYRUVATE\_METABOLISM

3OLIC\_REGULATION;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_CLASS\_B\_  
ACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_

F\_MRNA;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_REGULATION\_OF\_MRNA\_STABILIT  
REPAIR

\_AND\_ANKYRINS  
F\_MRNA;REACTOME\_MRNA\_DECAY\_BY\_3\_TO\_5\_EXORIBONUCLEASE;REACTOME\_DEADEN'  
PHOSPHOLIPID\_BIOSYNTHESIS;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_RESPONS

OINTS;REACTOME\_M\_G1\_TRANSITION;REACTOME\_G1\_S\_TRANSITION;REACTOME\_SYNTHE

ME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;REAC

PROTEASOME\_DEGRADATION

IFN\_GAMMA\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_

ME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;REAC

ME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;REAC

CTOME\_RNA\_POL\_I\_TRANSCRIPTION\_INITIATION

ACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACIDS\_OLIGOPEPT  
ACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACIDS\_OLIGOPEPT

IS\_OLIGOPEPTIDES

CTOME\_RNA\_POL\_I\_TRANSCRIPTION\_INITIATION

ORIAL\_TRANSCRIPTION

E\_TOLL\_RECEPTOR\_CASCADES

\_THE\_SINGLE\_NUCLEOTIDE\_REPLACEMENT\_PATHWAY;REACTOME\_DNA\_REPAIR;REACTOM  
\_THE\_SINGLE\_NUCLEOTIDE\_REPLACEMENT\_PATHWAY;REACTOME\_DNA\_REPAIR;REACTOM

NA\_REPAIR;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_ACTIVATION\_OF\_ATR\_  
:AM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REACTOME\_SIGNAL\_AMPLIF

ETABOLISM;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTO

DE\_EXCISION\_REPAIR;REACTOME\_REPAIR\_SYNTHESIS\_FOR\_GAP\_FILLING\_BY\_DNA\_POL\_I

OS\_OLIGOPEPTIDES

I\_EXPRESSION;REACTOME\_CIRCADIAN\_REPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA;RE/

.SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

.NER\_TC\_NER;REACTOME\_RNA\_POL\_II\_TRANSCRIPTION\_PRE\_INITIATION\_AND\_PROMOTE

\_METABOLISM;REACTOME\_CHONDROITIN\_SULFATE\_DERMATAN\_SULFATE\_METABOLISM;F  
\_METABOLISM;REACTOME\_CHONDROITIN\_SULFATE\_DERMATAN\_SULFATE\_METABOLISM;F  
S;REACTOME\_ALPHA\_LINOLENIC\_ACID\_ALA\_METABOLISM;REACTOME\_PEROXISOMAL\_LIPI

;CHROMOSOME\_MAINTENANCE;REACTOME\_DEPOSITION\_OF\_NEW\_CENPA\_CONTAINING\_NL

UNCTIONALIZATION\_OF\_COMPOUNDS;REACTOME\_ENDOGENOUS\_STEROLS;REACTOME\_S

ME\_ADAPTIVE\_IMMUNE\_SYSTEM

S\_IN\_ERBB4\_SIGNALING;REACTOME\_SHC1\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3  
KINASE\_ACTIVATION\_OF\_HOMO\_SAPIENS\_WITH\_MYCOBACTERIUM\_TUBERCULOSIS;REACTOME\_TRANSME  
:

WAY;REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING;REACTOME\_REGULATION\_OF\_IFN

ACTOME\_SIGNALLING\_TO\_ERKS;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTRE

CTOME\_APOPTOSIS  
CTOME\_APOPTOSIS

ACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

ATION

REGATION



ACTOME\_SIGNAL\_TRANSDUCTION\_BY\_L1;REACTOME\_INTERFERON\_GAMMA\_SIGNALING;RE/

UNCTIONALIZATION\_OF\_COMPOUNDS;REACTOME\_STEROID\_HORMONES;REACTOME\_MET.  
UNCTIONALIZATION\_OF\_COMPOUNDS;REACTOME\_STEROID\_HORMONES;REACTOME\_MET.

NE\_BODY\_METABOLISM;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOC  
VG\_OF\_PG;REACTOME\_ACYL\_CHAIN\_REMODELLING\_OF\_PE;REACTOME\_ACYL\_CHAIN\_REM

REACTOME\_S\_PHASE  
REACTOME\_S\_PHASE

OME\_STEROID\_HORMONES;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;RE/

PROTEASOME\_DEGRADATION

AND\_ANKYRINS

COMPLEX\_AND\_EIF5\_AND\_SUBSEQUENT\_BINDING\_TO\_43S;REACTOME\_METABOLISM\_OF\_PI

SIGNALING\_BY\_ERBB2;REACTOME\_GRB2\_EVENTS\_IN\_ERBB2\_SIGNALING;REACTOME\_SIGNAL

ING\_CELL;REACTOME\_ACETYLCHOLINE\_BINDING\_AND\_DOWNSTREAM\_EVENTS;REACTOME

NUCLEAR\_EVENTS\_KINASE\_AND\_TRANSCRIPTION\_FACTOR\_ACTIVATION;REACTOME\_ERK

MAPK\_CASCADE

PROXIMAL\_TRANSCRIPTION;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_INITIATION\_FROM\_TYPE

REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTO

TOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM

I\_EXPRESSION;REACTOME\_YAP1\_AND\_WWTR1\_TAZ\_STIMULATED\_GENE\_EXPRESSION;RE.

OS\_OLIGOPEPTIDES

\_PHASE\_OF\_HIV\_LIFE\_CYCLE

NE\_BODY\_METABOLISM;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOC

ATION  
ATION  
ATION  
ATION

I\_PATHWAY;REACTOME\_SIGNALING\_BY\_TGF\_BETA\_RECEPTOR\_COMPLEX

NSMEMBRANE\_TRANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_

1\_SIGNALING  
TIC\_CELL;REACTOME\_ACTIVATION\_OF\_KAINATE\_RECEPTORS\_UPON\_Glutamate\_BINDING  
TIC\_CELL;REACTOME\_ACTIVATION\_OF\_KAINATE\_RECEPTORS\_UPON\_Glutamate\_BINDING

IE\_HEMOSTASIS  
IE\_HEMOSTASIS

TOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_OPIOID\_SIGNALLING;REACTO

;REACTOME\_THE\_ROLE\_OF\_NEF\_IN\_HIV1\_REPLICATION\_AND\_DISEASE\_PATHOGENESIS;R  
I\_EXPRESSION;REACTOME\_YAP1\_AND\_WWTR1\_TAZ\_STIMULATED\_GENE\_EXPRESSION;RE.  
I\_EXPRESSION;REACTOME\_YAP1\_AND\_WWTR1\_TAZ\_STIMULATED\_GENE\_EXPRESSION;RE.

\_AND\_TRANSLATION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REACTOME.

RF7\_ACTIVATION\_IN\_TLR7\_8\_OR\_9\_SIGNALING;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REA  
RF7\_ACTIVATION\_IN\_TLR7\_8\_OR\_9\_SIGNALING;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REA  
UROTRANSMITTER\_RELEASE\_CYCLE;REACTOME\_NOREPINEPHRINE\_NEUROTRANSMITTER

OTIC\_COUPLING\_AND\_HEAT\_PRODUCTION\_BY\_UNCOUPLING\_PROTEINS\_

OME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOME\_TR

ING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLI

TOR;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

LL\_CYCLE\_MITOTIC;REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_REGULATION\_OF

PROTEASOME\_DEGRADATION

RECEPTORS;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_  
AND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_METAL\_ION\_SLC  
AND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_METAL\_ION\_SLC

REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACIDS\_OLIGOPEPT

ENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALING;REACTOME\_

\_THE\_SINGLE\_NUCLEOTIDE\_REPLACEMENT\_PATHWAY;REACTOME\_DNA\_REPAIR;REACTOM



OME\_G\_ALPHA\_Z\_SIGNALLING\_EVENTS;REACTOME\_EFFECTS\_OF\_PIP2\_HYDROLYSIS;REA

S\_VIA\_24\_HYDROXYCHOLESTEROL;REACTOME\_SYNTHESIS\_OF\_BILE\_ACIDS\_AND\_BILE\_SA

EACTOME\_RECRUITMENT\_OF\_NUMA\_TO\_MITOTIC\_CENTROSOMES;REACTOME\_MITOTIC\_C

I\_EXPRESSION;REACTOME\_YAP1\_AND\_WWTR1\_TAZ\_STIMULATED\_GENE\_EXPRESSION;RE

\5\_SIGNALING;REACTOME\_RIG\_I\_MDA5\_MEDIATED\_INDUCTION\_OF\_IFN\_ALPHA\_BETA\_PATI

)TEASOME\_DEGRADATION

.TGF\_BETA\_RECEPTOR\_COMPLEX;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_A

ND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_FACILITATIVE\_N

ENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALING;REACTOME\_

PROTEASOME\_DEGRADATION  
PROTEASOME\_DEGRADATION

METABOLISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_A\_TETRASACCHARIDE  
METABOLISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_A\_TETRASACCHARIDE

POSTSEQUENT\_MODIFICATION

GASTRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_NUCLEAR\_EVENTS

REACTOME\_TRANSPORT;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT;REACTOME\_TRANSPORT;  
REACTOME\_TRANSPORT;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT;REACTOME\_TRANSPORT

CHAPTERS;REACTOME\_CELL\_SURFACE\_INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME

REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOME\_TRANSPORT

REGULATION\_OF\_AMPK\_ACTIVITY\_VIA\_LKB1;REACTOME\_ENERGY\_DEPENDENT\_REGULATION\_OF\_TRANSPORT;  
REGULATION\_OF\_IFNG\_SIGNALING;REACTOME\_INTERFERON\_GAMMA\_SIGNALING

S;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVE

\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_SEMA4D\_IN\_SEMAPHORIN\_SIGNALING;REA

;REACTOME\_GENERIC\_TRANSCRIPTION\_PATHWAY;REACTOME\_NOTCH\_HLH\_TRANSCRIPT  
;REACTOME\_GENERIC\_TRANSCRIPTION\_PATHWAY;REACTOME\_NOTCH\_HLH\_TRANSCRIPT

ORIAL\_TRANSCRIPTION;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_INITIATION\_FROM\_TYPE

PROTEASOME\_DEGRADATION

G\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING

ENT

V\_TYPE\_3\_PROMOTER

ALIGNING\_AND\_AGGREGATION

TRANSPORT\_OF\_MATURE\_TRANSCRIPT\_TO\_CYTOPLASM;REACTOME\_TRANSMEMBRANE\_TRANSPORT

AND\_REPULSION;REACTOME\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SEMA3A\_PLEXIN\_RECEPTOR

SIGNALING\_AND\_AGGREGATION

ME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME

3;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACT

TABOLISM\_OF\_LIPIDS\_AND\_LIPOPOTEINS  
BY\_ERBB4;REACTOME\_ACTIVATED\_NOTCH1\_TRANSMITS\_SIGNAL\_TO\_THE\_NUCLEUS;REA

V\_SECRETION;REACTOME\_VOLTAGE\_GATED\_POTASSIUM\_CHANNELS;REACTOME\_POTASS

I\_EXPRESSION;REACTOME\_YAP1\_AND\_WWTR1\_TAZ\_STIMULATED\_GENE\_EXPRESSION;RE

DS\_OLIGOPEPTIDES;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_PLATELET\_CALCIUM

S;REACTOME\_INTERACTION\_BETWEEN\_L1\_AND\_ANKYRINS;REACTOME\_NEPHRIN\_INTERAC  
S;REACTOME\_INTERACTION\_BETWEEN\_L1\_AND\_ANKYRINS;REACTOME\_NEPHRIN\_INTERAC

ION;REACTOME\_MYD88\_MAL\_CASCADE\_INITIATED\_ON\_PLASMA\_MEMBRANE;REACTOME\_I

REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MC

REACTOME\_CELL\_SURFACE\_INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_COMM

SECRETION\_AND\_INACTIVATION;REACTOME\_SYNTHESIS\_SECRETION\_AND\_INACTIVATION\_C  
SECRETION\_AND\_INACTIVATION;REACTOME\_SYNTHESIS\_SECRETION\_AND\_INACTIVATION\_C

ACTOME\_SYNTHESIS\_OF\_BILE\_ACIDS\_AND\_BILE\_SALTS;REACTOME\_METABOLISM\_OF\_LIPI



TIME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;REACTOME\_MITOTIC\_G2\_G2\_M\_PHASE  
ION\_BY\_GLUCAGON\_LIKE\_PEPTIDE1;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;R  
TIC\_CELL;REACTOME\_ACETYLCHOLINE\_BINDING\_AND\_DOWNSTREAM\_EVENTS;REACTOME  
E\_CYCLASE;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_HEMOSTASIS

S;REACTOME\_INTEGRIN\_CELL\_SURFACE\_INTERACTIONS;REACTOME\_AXON\_GUIDANCE;RE  
\_NCAM1\_INTERACTIONS;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH  
REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;REACTOME\_SIGNALING\_BY\_FGFR1\_FUSION\_

NE\_TRANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SAL

IA\_MEMBRANE;REACTOME\_PI3K\_AKT\_ACTIVATION;REACTOME\_SIGNALING\_BY\_INSULIN\_RE  
:PTORS;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_

CULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT;REACTOME\_TRANSPOR

\_IN\_ERBB2\_SIGNALING;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_SHC1\_E

OS\_OLIGOPEPTIDES

\_SIGNALING\_ACTIVATES\_SMADS;REACTOME\_SIGNALING\_BY\_TGF\_BETA\_RECEPTOR\_COM

OME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REA

ABOLISM\_OF\_PORPHYRINS

ON\_REPULSION;REACTOME\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SEMA3A\_PLEXIN\_RI

NA\_REPAIR;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_ACTIVATION\_OF\_ATR\_

N\_PATHWAY;REACTOME\_SIGNALING\_BY\_TGF\_BETA\_RECEPTOR\_COMPLEX

ASSIUM\_CHANNELS

IA\_I\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND\_BINDING

ATION

\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_  
\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_

TIC\_CELL;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOMI

IS\_OLIGOPEPTIDES

OS\_OLIGOPEPTIDES  
EACTOME\_MITOTIC\_G2\_G2\_M\_PHASES

OS\_OLIGOPEPTIDES

.GE\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_I  
.GE\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_I

ENERGY\_DEPENDENT\_REGULATION\_OF\_MTOR\_BY\_LKB1\_AMPK;REACTOME\_REGULATION  
OF\_CHOLESTEROL\_BIOSYNTHESIS

PROCESSES\_AT\_THE\_CENTROMERE;REACTOME\_DNA\_REPLICATION;REACTOME\_MITOTIC\_PRO

CESSING;REACTOME\_SIGNALING\_BY\_CONSTITUTIVELY\_ACTIVE\_EGFR;REACTOME\_SIGNALING\_E

OF\_GAG\_METABOLISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_A\_TETR

ACTIVATION\_OF\_ARYLSULFATASES;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOM

OSIS\_OF\_M\_PHASES;REACTOME\_ACTIVATION\_OF\_ATR\_IN\_RESPONSE\_TO\_REPLICATION\_STRESS;R  
EPLICATION\_OF\_M\_PHASES;REACTOME\_ACTIVATION\_OF\_ATR\_IN\_RESPONSE\_TO\_REPLICATION\_STRESS;R

REACTOME\_FRS2\_MEDIATED\_CASCADE;REACTOME\_PI\_3K\_CASCADE;REACTOME\_DOWNS1  
REACTOME\_FRS2\_MEDIATED\_CASCADE;REACTOME\_PI\_3K\_CASCADE;REACTOME\_DOWNS1  
REACTOME\_FRS2\_MEDIATED\_CASCADE;REACTOME\_PI\_3K\_CASCADE;REACTOME\_DOWNS1

OME\_3\_UTR\_MEDIATED\_TRANSLATIONAL\_REGULATION;REACTOME\_METABOLISM\_OF\_MRN

SEQUENT\_MODIFICATION;REACTOME\_N\_GLYCAN\_ANTENNAE\_ELONGATION;REACTOME\_N  
ED\_GLYCOSYLATION;REACTOME\_BIOSYNTHESIS\_OF\_THE\_N\_GLYCAN\_PRECURSOR\_DOLIC

\_LEADING\_TO\_GENERATION\_OF\_SECOND\_MESSENGERS;REACTOME\_SIGNALING\_BY\_THE

OME\_3\_UTR\_MEDIATED\_TRANSLATIONAL\_REGULATION;REACTOME\_METABOLISM\_OF\_MRN

:ULES



PROTEASOME\_DEGRADATION

CARBOHYDRATES  
\_SIGNALING; REACTOME\_DOWNSTREAM\_TCR\_SIGNALING; REACTOME\_IMMUNE\_SYSTEM; RE

ACTOME\_EFFECTS\_OF\_PIP2\_HYDROLYSIS; REACTOME\_HEMOSTASIS; REACTOME\_PLATELET\_A

ACTOME\_JNK\_C\_JUN\_KINASES\_PHOSPHORYLATION\_AND\_ACTIVATION\_MEDIATED\_BY\_ACTI

ACTOME\_CITRIC\_ACID\_CYCLE\_TCA\_CYCLE

PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_TRANSMI

ACTOME\_PLATELET\_ADHESION\_TO\_EXPOSED\_COLLAGEN;REACTOME\_INTEGRIN\_CELL\_SUR

PROTEASOME\_DEGRADATION

ATION

SOME\_PATHWAY;REACTOME\_CELL\_CYCLE;REACTOME\_ORC1\_REMOVAL\_FROM\_CHROMAT  
\_REPLICATIVE\_COMPLEX;REACTOME\_E2F\_ENABLED\_INHIBITION\_OF\_PRE\_REPLICATION\_C

OME\_EFFECTS\_OF\_PIP2\_HYDROLYSIS;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_A  
OME\_EFFECTS\_OF\_PIP2\_HYDROLYSIS;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_A  
S;REACTOME\_IRON\_UPTAKE\_AND\_TRANSPORT;REACTOME\_TRANSFERRIN\_ENDOCYTOSIS

OS\_ACTIVATION\_AND\_REGULATION;REACTOME\_NITRIC\_OXIDE\_STIMULATES\_GUANYLATE\_I  
ALING;REACTOME\_SEMAPHORIN\_INTERACTIONS;REACTOME\_FACTORS\_INVOLVED\_IN\_MEC  
GULATION\_OF\_AMPK\_ACTIVITY\_VIA\_LKB1;REACTOME\_ENERGY\_DEPENDENT\_REGULATION  
GULATION\_OF\_AMPK\_ACTIVITY\_VIA\_LKB1;REACTOME\_ENERGY\_DEPENDENT\_REGULATION

TEASOME\_DEGRADATION

CTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;REACTOME\_SIGNALING\_BY\_ACTIVATED\_POINT\_M  
CTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;REACTOME\_SIGNALING\_BY\_ACTIVATED\_POINT\_M

\_THE\_SINGLE\_NUCLEOTIDE\_REPLACEMENT\_PATHWAY;REACTOME\_DNA\_REPAIR;REACTOM

NE\_SENSITIVE\_LIPASE\_HSL\_MEDIATED\_TRIACYLGLYCEROL\_HYDROLYSIS;REACTOME\_LIPI

ON\_ORGANIZATION;REACTOME\_APOPTOSIS;REACTOME\_APOPTOTIC\_EXECUTION\_PHASE

LE;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC

OS\_OLIGOPEPTIDES

OTIC\_COUPLING\_AND\_HEAT\_PRODUCTION\_BY\_UNCOUPLING\_PROTEINS\_

ME\_SIGNALLING\_TO\_ERKS;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR;REACTOME\_SI

EACTOME\_MITOTIC\_G2\_G2\_M\_PHASES

ENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALING;REACTOME\_

YTEASOME\_DEGRADATION

YLE;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_DOPAMINE\_NEURO

AL\_PROTEINS;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE

AL\_PROTEINS;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE

AL\_PROTEINS;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE

AL\_PROTEINS;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE

ED\_GLYCOSYLATION;REACTOME\_BIOSYNTHESIS\_OF\_THE\_N\_GLYCAN\_PRECURSOR\_DOLIC

ACTOME\_SIGNALLING\_TO\_ERKS;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTRE

ORIAL\_TRANSCRIPTION

\_NCAM1\_INTERACTIONS;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

\_NCAM1\_INTERACTIONS;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

\_NCAM1\_INTERACTIONS;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

\_ALPHA\_BETA\_PATHWAYS;REACTOME\_APOPTOSIS;REACTOME\_INNATE\_IMMUNE\_SYSTEM;

Y;TOME\_N\_GLYCAN\_TRIMMING\_IN\_THE\_ER\_AND\_CALNEXIN\_CALRETICULIN\_CYCLE

YS\_OLIGOPEPTIDES

)PROTEINS;REACTOME\_LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSPORT;REACTOME\_LI  
)PROTEINS;REACTOME\_LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSPORT;REACTOME\_LI

INS\_;REACTOME\_INTEGRIN\_ALPHAIIIB\_BETA3\_SIGNALING;REACTOME\_PLATELET\_AGGREG.

JAL\_SYSTEM;REACTOME\_NEUROTRANSMITTER\_RELEASE\_CYCLE;REACTOME\_ACETYLCHC



OME\_REGULATION\_OF\_SIGNALING\_BY\_CBL;REACTOME\_IL\_3\_5\_AND\_GM-CSF\_SIGNALING;

CYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEMOSTASIS  
CYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEMOSTASIS

SOME\_PATHWAY;REACTOME\_CELL\_CYCLE;REACTOME\_ORC1\_REMOVAL\_FROM\_CHROMAT

;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_

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ATION

REPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_I

ACTS;REACTOME\_NITRIC\_OXIDE\_STIMULATES\_GUANYLATE\_CYCLASE;REACTOME\_PLATELE  
UNCTIONALIZATION\_OF\_COMPOUNDS;REACTOME\_STEROID\_HORMONES;REACTOME\_MET.

R;REACTOME\_PEPTIDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOPSI

ND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_NA\_CL\_DEPEND

E

\_BODY\_METABOLISM;REACTOME\_SYNTHESIS\_OF\_VERY\_LONG\_CHAIN\_FATTY\_ACYL\_COAS

EACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_MITOTIC\_G2\_G2\_M\_PHASES;REACTOME

ROL\_AND\_KETONE\_BODY\_METABOLISM

ATURE\_MRNA\_DERIVED\_FROM\_AN\_INTRONLESS\_TRANSCRIPT

ENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALING;REACTOME\_

1\_TRANSITION;REACTOME\_G1\_S\_TRANSITION;REACTOME\_POL\_SWITCHING;REACTOME\_S

ACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

EACTOME\_DARPP\_32\_EVENTS;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;I  
OTIC\_COUPLING\_AND\_HEAT\_PRODUCTION\_BY\_UNCOUPLING\_PROTEINS\_  
S;REACTOME\_IRON\_UPTAKE\_AND\_TRANSPORT;REACTOME\_TRANSFERRIN\_ENDOCYTOSIS

:ULES;REACTOME\_TRANSPORT\_OF\_ORGANIC\_ANIONS

I\_MHC\_MEDIATED\_ANTIGEN\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCES  
RIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM  
!\_OF\_REPLICATION\_INDEPENDENT\_DOUBLE\_STRAND\_BREAKS;REACTOME\_P53\_DEPENDEI

G\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING  
G\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING

TREAM\_TCR\_SIGNALING;REACTOME\_PHOSPHORYLATION\_OF\_CD3\_AND\_TCR\_ZETA\_CHAIN

:\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS  
:\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

:ANSMEMBRANE\_TRANSPORT;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;R

ATION  
ATION

PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_TRANSMI

.PTIVE\_IMMUNE\_SYSTEM

CTOME\_FORMATION\_OF\_TUBULIN\_FOLDING\_INTERMEDIATES\_BY\_CCT\_TRIC;REACTOME\_M

\_THE\_SINGLE\_NUCLEOTIDE\_REPLACEMENT\_PATHWAY;REACTOME\_DNA\_REPAIR;REACTOM

NE\_BODY\_METABOLISM;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOC  
E\_HEMOSTASIS

)\_CALNEXIN\_CALRETICULIN\_CYCLE

1UNE\_SYSTEM

DE\_EXCISION\_REPAIR;REACTOME\_REPAIR\_SYNTHESIS\_FOR\_GAP\_FILLING\_BY\_DNA\_POL\_I

ING\_BY\_PDGF;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOME

\_POL\_II\_PRE\_TRANSCRIPTION\_EVENTS;REACTOME\_HIV\_INFECTION;REACTOME\_HIV\_LIFE\_  
BRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRAI

PCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS;REACTOME

IZATION;REACTOME\_NEPHRIN\_INTERACTIONS;REACTOME\_HEMOSTASIS;REACTOME\_PLA

S;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_GPCR\_LIGAND\_BINDING

ACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_DOWNREGULATION\_OF\_ERBB2\_ERBB3\_SIK  
\_BY\_NOTCH3;REACTOME\_RECEPTOR\_LIGAND\_BINDING\_INITIATES\_THE\_SECOND\_PROTEO  
)RIAL\_TRANSCRIPTION

)TEASOME\_DEGRADATION  
)TEASOME\_DEGRADATION

TIC\_CELL;REACTOME\_ACETYLCHOLINE\_BINDING\_AND\_DOWNSTREAM\_EVENTS;REACTOME

TOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_OPIOID\_SIGNALLING;REACTO  
\_AND\_ANKYRINS  
\_AND\_ANKYRINS



REACTOME\_OTHER\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SEMAPHORIN\_INTERACTIOI

UNCTIONALIZATION\_OF\_COMPOUNDS;REACTOME\_ENDOGENOUS\_STEROLS;REACTOME\_S

ME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;REAC

ND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_AMINE\_COMPOL

1A\_I\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND\_BINDING

OME\_3\_UTR\_MEDIATED\_TRANSLATIONAL\_REGULATION;REACTOME\_METABOLISM\_OF\_MRN

\_AND\_TRANSLATION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REACTOME  
\_AND\_TRANSLATION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REACTOME  
\_AND\_TRANSLATION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN\_EXPRESSION;REACTOME  
PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_TRANSMI

ASCAD

OSTASIS;REACTOME\_PLATELET\_CALCIIUM\_HOMEOSTASIS;REACTOME\_ION\_TRANSPORT\_B

SPORT\_OF\_MATURE\_TRANSCRIPT\_TO\_CYTOPLASM;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_MATURE\_TRANSCRIPT\_TO\_CYTOPLASM;REACTOME\_TRANSMEMBRANE\_TRANSM

OS\_OLIGOPEPTIDES

OS\_OLIGOPEPTIDES

:

OGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REACTOME\_PLATELET\_AGGREG.

ON\_CASCADE;REACTOME\_HEMOSTASIS;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOMI

CTOME\_RNA\_POL\_I\_TRANSCRIPTION\_INITIATION

TIC\_CELL;REACTOME\_ACTIVATION\_OF\_NMDA\_RECEPTOR\_UPON\_GLUTAMATE\_BINDING\_AI

OTEASOME\_DEGRADATION

ND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_BILE\_SALT\_AND  
CTOME\_MRNA\_CAPPING;REACTOME\_TRANSCRIPTION\_COUPLED\_NER\_TC\_NER;REACTOM  
ON\_CASCADE;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_BETA\_GAMMA

PARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN\_EXPRES  
PARA\_ACTIVATES\_GENE\_EXPRESSION;REACTOME\_RORA\_ACTIVATES\_CIRCADIAN\_EXPRES

TION\_OF\_NFKB\_AND\_MAP\_KINASES\_UPON\_TLR7\_8\_OR\_9\_ACTIVATION;REACTOME\_NFKB\_A  
E\_HEMOSTASIS  
ND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_BILE\_SALT\_AND  
ND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_BILE\_SALT\_AND

;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA

ME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH  
ME\_3\_UTR\_MEDIATED\_TRANSLATIONAL\_REGULATION;REACTOME\_METABOLISM\_OF\_MRN

VENTS\_IN\_ERBB2\_SIGNALING;REACTOME\_AXON\_GUIDANCE;REACTOME\_SEMA4D\_IN\_SEMA  
CTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REA

;TOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;RI  
;TOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;RI  
;TOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;RI

TIC\_CELL;REACTOME\_TRAFFICKING\_OF\_AMPA\_RECEPTORS;REACTOME\_TRAFFICKING\_OF  
)TEASOME\_DEGRADATION

CTOME\_PLATELET\_ADHESION\_TO\_EXPOSED\_COLLAGEN;REACTOME\_INTEGRIN\_CELL\_SUR

S\_PATHWAYS;REACTOME\_SYNTHESIS\_SECRETION\_AND\_DEACYLATION\_OF\_GHRELIN;REA

DIATED\_EVENTS;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR;REACTOME\_MTORC1\_I

ACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_  
ACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_

ME\_GLUCAGON\_TYPE\_LIGAND\_RECEPTORS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

EACTOME\_MITOTIC\_G2\_G2\_M\_PHASES  
IA\_S\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND\_BINDING

ALL;REACTOME\_BASIGIN\_INTERACTIONS;REACTOME\_INTEGRIN\_CELL\_SURFACE\_INTERAC

D\_INTRON\_CONTAINING\_PRE\_MRNA;REACTOME\_RNA\_POL\_II\_TRANSCRIPTION;REACTOME

\_BINDING

D\_MESSENGERS;REACTOME\_SIGNALING\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_N  
\_DEATH\_THROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_N/

REPAIR

REPAIR

ATION

ATION

ATION

INDUCTION\_OF\_IFN\_ALPHA\_BETA\_PATHWAYS;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REAC



S;REACTOME\_P2Y\_RECEPTORS;REACTOME\_NUCLEOTIDE\_LIKE\_PURINERGIC\_RECEPTORS  
REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE  
:\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

\_TRANSPORT  
\_TRANSPORT

G\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE

ACTIVATES\_SMADS;REACTOME\_RES  
PIGMENT\_SIGNALING

REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_GPCR\_LIGAND\_BINDING

REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_PLATELET\_CALCIIUM

CELL\_GROWTH\_CONE\_COLLAPSE

REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_TRANSCRIPTION  
ON\_THE\_LAGGING\_STRAND;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_TRANSCRIPTION  
ON\_THE\_LAGGING\_STRAND;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_TRANSCRIPTION

TIC\_CELL;REACTOME\_TRAFFICKING\_OF\_AMPA\_RECEPTORS

STASIS

REACTOME\_MITOTIC\_G2\_G2\_M\_PHASES

TIC\_CELL;REACTOME\_TRAFFICKING\_OF\_AMPA\_RECEPTORS

RBB2;REACTOME\_SIGNALING\_BY\_CONSTITUTIVELY\_ACTIVE\_EGFR;REACTOME\_SIGNALING

OS\_OLIGOPEPTIDES

ND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_BILE\_SALT\_AND

C\_REGULATION;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION\_BY\_GLUCAGON\_LIKE\_  
C\_REGULATION;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION\_BY\_GLUCAGON\_LIKE\_

\_NCAM1\_INTERACTIONS;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH  
\_NCAM1\_INTERACTIONS;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH  
EIN\_RESPONSE

:VATED\_PLATELET\_CYTOSOLIC\_CA2\_;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_PEPT

MUNE\_SYSTEM

ME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;REAC

PROCESSING;REACTOME\_MRNA\_SPLICING;REACTOME\_TRANSCRIPTION;REACTOME\_MRNA\_3.

SURFACE\_INTERACTIONS;REACTOME\_HEMOSTASIS;REACTOME\_IMMUNE\_SYSTEM;REACTC  
\_NCAM1\_INTERACTIONS;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

EACTOME\_MITOTIC\_G2\_G2\_M\_PHASES

E\_NUCLEOTIDE\_LIKE\_PURINERGIC\_RECEPTORS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNA

OINTS;REACTOME\_M\_G1\_TRANSITION;REACTOME\_G1\_S\_TRANSITION;REACTOME\_SYNTHE  
TION\_AND\_GROWTH\_CONE\_COLLAPSE

IGNALING\_IN\_IMMUNE\_SYSTEM

METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

HEART\_CELL;REACTOME\_INHIBITION\_OF\_VOLTAGE\_GATED\_CA2\_CHANNELS\_VIA\_GBETA\_GAMMA  
HEART\_CELL;REACTOME\_INHIBITION\_OF\_VOLTAGE\_GATED\_CA2\_CHANNELS\_VIA\_GBETA\_GAMMA

RECEPTORS;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_EFFECTOR\_ACTIVATION;  
HEART\_CELL;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_INITIATION\_FROM\_TYPE\_III\_PROMOTER;  
HEART\_CELL;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_INITIATION\_FROM\_TYPE\_III\_PROMOTER

HEART\_CELL;REACTOME\_ACTIVATION\_OF\_ARYLSULFATASES;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME

SYSTEM

ME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_ROLE\_OF\_DCC\_IN\_REGULAT

SPLICING;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_CHROMOSOME\_MAINTENAN  
)TEASOME\_DEGRADATION

ME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;REAC

OME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOME\_TR

\_BODY\_METABOLISM;REACTOME\_SYNTHESIS\_OF\_VERY\_LONG\_CHAIN\_FATTY\_ACYL\_COAS

ILISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_A\_TETRASACCHARIDE  
S\_OLIGOPEPTIDES

\_GAG\_METABOLISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_A\_TETR  
S;REACTOME\_ION\_CHANNEL\_TRANSPORT;REACTOME\_HEMOSTASIS

TIONS;REACTOME\_INTERACTION\_BETWEEN\_L1\_AND\_ANKYRINS;REACTOME\_SIGNAL\_TRAN  
TIONS;REACTOME\_INTERACTION\_BETWEEN\_L1\_AND\_ANKYRINS;REACTOME\_SIGNAL\_TRAN



EACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_MITOTIC\_G2\_G2\_M\_PHASES;REACTOME

\_BY\_NOTCH3;REACTOME\_RECEPTOR\_LIGAND\_BINDING\_INITIATES\_THE\_SECOND\_PROTEO

E\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_KINESINS;REACTOME\_DNA\_F

\_AND\_ANKYRINS

ABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_LIPID\_DIGESTION\_MOBILIZATION\_AN

ND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_ZINC\_TRANSPOR

REACTOME\_MITOTIC\_G2\_G2\_M\_PHASES

REACTOME\_MITOTIC\_G2\_G2\_M\_PHASES

SIGNALING\_BY\_CONSTitutively\_ACTIVE\_EGFR;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTO

M;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_M

PATHWAY;REACTOME\_ER\_PHAGOSOME\_PATHWAY;REACTOME\_NEF\_MEDIATES\_DOWN\_M

ON\_ORGANIZATION;REACTOME\_APOPTOSIS;REACTOME\_APOPTOTIC\_EXECUTION\_PHASE

≡\_HEMOSTASIS

REACTOME\_SIGNALING\_BY\_ERBB4;REACTOME\_DOWNREGULATION\_OF\_ERBB2\_ERBB3\_SIK

HE\_ACTIVATION\_OF\_ARYLSULFATASES;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOM

TOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PROD

TIC\_CELL;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOMI  
ATED\_AND\_SIGNALS\_SURVIVAL;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;

:\_INTERFERON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_  
S;REACTOME\_INTERACTION\_BETWEEN\_L1\_AND\_ANKYRINS;REACTOME\_NEPHRIN\_INTERAC

\_I\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND\_BINDING

NE\_BODY\_METABOLISM;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOC

REACTOME\_MITOTIC\_G2\_G2\_M\_PHASES

REACTOME\_P130CAS\_LINKAGE\_TO\_MAPK\_SIGNALING\_FOR\_INTEGRINS;REACTOME\_GRB2\_SOS\_PI  
3K/ACT1/ALPHA\_BETA\_PATHWAYS;REACTOME\_APOPTOSIS;REACTOME\_INNATE\_IMMUNE\_SYSTEM;

REACTOME\_FGFR2;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;REACTOME\_FRS2\_MEDIATED\_CASCADE

REACTOME\_G\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING  
IN THE IMMUNE\_SYSTEM

REACTOME\_G1\_S\_TRANSITION;REACTOME\_SYNTHESIS\_OF\_DNA;REACTOME\_MITOTIC\_G1

REACTOME\_S\_OLIGOPEPTIDES

REACTOME\_MITOTIC\_G2\_G2\_M\_PHASES

OS\_OLIGOPEPTIDES

ATED\_AND\_SIGNALS\_SURVIVAL;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;

VI\_TYPE\_3\_PROMOTER

G\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING

OS\_OLIGOPEPTIDES

BRANE;REACTOME\_ACTIVATION\_OF\_THE\_MRNA\_UPON\_BINDING\_OF\_THE\_CAP\_BINDING\_C  
\_MOLECULES;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES

REGATION

\_BODY\_METABOLISM;REACTOME\_SYNTHESIS\_OF\_VERY\_LONG\_CHAIN\_FATTY\_ACYL\_COAS

CTOME\_APOPTOSIS

ÆEN\_A\_LYMPHOID\_AND\_A\_NON\_LYMPHOID\_CELL;REACTOME\_INTERFERON\_GAMMA\_SIGN/

REACTOME\_N\_GLYCAN\_TRIMMING\_IN\_THE\_ER\_AND\_CALNEXIN\_CALRETICULIN\_CYCLE  
REACTOME\_GPCRs;REACTOME\_CHEMOKINE\_RECEPTORS\_BIND\_CHEMOKINES;REACTOME\_GPC

OPENING\_K\_CHANNELS

REACTOME\_CTLA4\_INHIBITORY\_SIGNALING;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_PLA

REACTOME\_GLUCOSE\_METABOLISM;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGG



TIC\_CELL;REACTOME\_TRAFFICKING\_OF\_AMPA\_RECEPTORS

TIC\_CELL;REACTOME\_TRAFFICKING\_OF\_AMPA\_RECEPTORS;REACTOME\_TRAFFICKING\_OF

\_PATHWAY;REACTOME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_

OTIC\_COUPLING\_AND\_HEAT\_PRODUCTION\_BY\_UNCOUPLING\_PROTEINS\_

LL\_CYCLE\_MITOTIC;REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_REGULATION\_OF

OS\_OLIGOPEPTIDES

.ING\_BY\_ERBB4;REACTOME\_SIGNALING\_BY\_ILS;REACTOME\_IL\_3\_5\_AND\_GM\_CSF\_SIGNALI

XES;REACTOME\_REGULATED\_PROTEOLYSIS\_OF\_P75NTR;REACTOME\_P75NTR\_SIGNALS\_V

AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_M

\_BINDING

ILISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_A\_TETRASACCHARIDE

;TOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_PI\_METABOLISM;REACTOME\_GOLGI\_ASS

.ATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

R\_MEDIATED\_SIGNALLING;REACTOME\_CELL\_CELL\_JUNCTION\_ORGANIZATION;REACTOME\_

ACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACIDS\_OLIGOPEPT

ATION

;REACTOME\_GENERIC\_TRANSCRIPTION\_PATHWAY;REACTOME\_NOTCH\_HLH\_TRANSCRIPT

TION\_AND\_REGULATION;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_G1\_S\_TRANSITION

TIC\_CELL;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME  
\_SLC\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_

\_PRE\_INITIATION\_AND\_PROMOTER\_OPENING;REACTOME\_TRANSCRIPTION;REACTOME\_RN

ME\_ADAPTIVE\_IMMUNE\_SYSTEM

ORT;REACTOME\_RESPIRATORY\_ELECTRON\_TRANSPORT\_ATP\_SYNTHESIS\_BY\_CHEMIOSM  
;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME\_REGULATION\_OF\_INSULI

ED\_GLYCOSYLATION;REACTOME\_BIOSYNTHESIS\_OF\_THE\_N\_GLYCAN\_PRECURSOR\_DOLIC

OME\_GPCR\_LIGAND\_BINDING

IDDING;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_NGF\_SIGNALLING\_VIA\_

TIC\_CELL;REACTOME\_ACTIVATION\_OF\_KAINATE\_RECEPTORS\_UPON\_Glutamate\_BINDING

OS\_OLIGOPEPTIDES

IN\_SULFATE\_HEPARIN\_HS\_GAG\_METABOLISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABO

REPAIR

ULES;REACTOME\_TRANSPORT\_OF\_ORGANIC\_ANIONS

EEN\_A\_LYMPHOID\_AND\_A\_NON\_LYMPHOID\_CELL;REACTOME\_INTERFERON\_GAMMA\_SIGNA

OME\_EFFECTS\_OF\_PIP2\_HYDROLYSIS;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_A  
OME\_EFFECTS\_OF\_PIP2\_HYDROLYSIS;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_A

PIPS\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_PI\_METABOLISM;REACTOME\_METABOLISM  
:\_OF\_REPLICATION\_INDEPENDENT\_DOUBLE\_STRAND\_BREAKS;REACTOME\_P53\_DEPENDEN

\_CONSTITUTIVELY\_ACTIVE\_EGFR;REACTOME\_GRB2\_EVENTS\_IN\_ERBB2\_SIGNALING;REAC  
ACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM  
N\_SECRETION;REACTOME\_VOLTAGE\_GATED\_POTASSIUM\_CHANNELS;REACTOME\_POTASS

TIC\_CELL;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOMI

ON\_CASCADE;REACTOME\_HEMOSTASIS;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOMI

E



\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN\_PROCESSING\_PRESEN

THE\_ACTIVATION\_OF\_ARYLSULFATASES;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOM

SPORT\_OF\_MATURE\_TRANSCRIPT\_TO\_CYTOPLASM;REACTOME\_TRANSMEMBRANE\_TRANS

S;REACTOME\_IRON\_UPTAKE\_AND\_TRANSPORT;REACTOME\_TRANSFERRIN\_ENDOCYTOSIS

NLR\_SIGNALING\_PATHWAYS

TIGHT\_JUNCTION\_INTERACTIONS;REACTOME\_CELL\_JUNCTION\_ORGANIZATION;REACTOME

CYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEMOSTASIS

NGF\_BY\_PDGF;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOME

NE\_BODY\_METABOLISM;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOC

REACTOME\_APOPTOSIS;REACTOME\_APOPTOTIC\_EXECUTION\_PHASE  
TIC\_CELL;REACTOME\_ACETYLCHOLINE\_BINDING\_AND\_DOWNSTREAM\_EVENTS;REACTOME

MEDIATED\_EVENTS;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR;REACTOME\_MTORC1\_I  
PORT;REACTOME\_LIPOPROTEIN\_METABOLISM;REACTOME\_CHYLOMICRON\_MEDIATED\_LIPI

TOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGL

ME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;REAC

EACTOME\_MITOTIC\_G2\_G2\_M\_PHASES;REACTOME\_SIGNALLING\_BY\_NGF;REACTOME\_SIGI

IG\_PATHWAYS

ME\_ADAPTIVE\_IMMUNE\_SYSTEM

ACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM  
ND\_BINDING

OME\_3\_UTR\_MEDIATED\_TRANSLATIONAL\_REGULATION;REACTOME\_METABOLISM\_OF\_MRN

BY\_CONSTITUTIVELY\_ACTIVE\_EGFR;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTO

\_FGFR2;REACTOME\_SIGNALING\_BY\_FGFR3\_MUTANTS;REACTOME\_SIGNALING\_BY\_FGFR\_M

ION;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_E  
I\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED

ATION

'\_CELLULAR\_PROTEINS;REACTOME\_INTEGRATION\_OF\_PROVIRUS;REACTOME\_APOBEC3G\_

SURFACE\_INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_PLATELET\_ADHESION\_TO

ATION

OLECULES;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME\_POTASSIUM\_CH

OS\_OLIGOPEPTIDES

PROTEASOME\_DEGRADATION

CELL\_CYCLE\_MITOTIC;REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_REGULATION\_OF

OS\_OLIGOPEPTIDES

PHA\_S\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND\_BINDING

ND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_AMINE\_COMPOUNDS

PTORS;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;  
TOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_OPIOID\_SIGNALLING;REACTOME

\_NCAM1\_INTERACTIONS;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

ATED\_AND\_SIGNALS\_SURVIVAL;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;

G\_IN\_GOLGI;REACTOME\_KERATAN\_SULFATE\_BIOSYNTHESIS;REACTOME\_KERATAN\_SULF

NALING;REACTOME\_REGULATION\_OF\_IFNG\_SIGNALING;REACTOME\_INTERFERON\_GAMMA

ME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;REAC

\_MOLECULES;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES

IA\_S\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND\_BINDING

RONAL\_SYSTEM;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REA  
N\_PHASE

1\_TRANSITION;REACTOME\_G1\_S\_TRANSITION;REACTOME\_POL\_SWITCHING;REACTOME\_S'

CTIONS;REACTOME\_SEMA3A\_PLEXIN\_REPULSION\_SIGNALING\_BY\_INHIBITING\_INTEGRIN\_A

\_LEADING\_TO\_GENERATION\_OF\_SECOND\_MESSENGERS;REACTOME\_SIGNALING\_BY\_THE

N\_AND\_INACTIVATION\_OF\_GLP1

.ELEMENTS

OMPLEX\_AND\_EIFS\_AND\_SUBSEQUENT\_BINDING\_TO\_43S;REACTOME\_METABOLISM\_OF\_PI

.ATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION



OF\_HIV\_LIFE\_CYCLE

↓\_GLYCAN\_ANTENNAE\_ELONGATION\_IN\_THE\_MEDIAL\_TRANS\_GOLGI

Y\_NOTCH1;REACTOME\_GENERIC\_TRANSCRIPTION\_PATHWAY;REACTOME\_RNA\_POL\_I\_TRA

SPORT\_OF\_SMALL\_MOLECULES;REACTOME\_MRNA\_PROCESSING;REACTOME\_TRANSPORT

SSION\_ACROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_SIGN  
CYCLE;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTC

A\_INDEPENDENT\_GLUCOSE\_TRANSPORTERS

ROTEINS;REACTOME\_3\_UTR\_MEDIATED\_TRANSLATIONAL\_REGULATION

'IA\_NFKB;REACTOME\_NRF\_SIGNALS\_CELL\_DEATH\_FROM\_THE\_NUCLEUS;REACTOME\_NFK

T;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACIDS\_OLIGO



32\_G2\_M\_PHASES

G\_BY\_GPCR;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_OPIOID\_SIK

NA;REACTOME\_TRANSCRIPTION;REACTOME\_MRNA\_3\_END\_PROCESSING;REACTOME\_CLE

;TOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

.DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_SIGNALING  
.DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_SIGNALING

OMPLEX\_FORMATION;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_CELL\_CYCLE\_CHECK

ACTOME\_CIRCADIANTOPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA;REACTOME\_GENERIC

E\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH  
ACTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

ACTOME\_PI3K\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALING



E\_NOTCH\_HLH\_TRANSCRIPTION\_PATHWAY;REACTOME\_SIGNALING\_BY\_NOTCH

CLE

POPROTEIN\_METABOLISM

TRANSCRIPTIONAL\_ACTIVITY;REACTOME\_GENERIC\_TRANSCRIPTION\_PATHWAY;REACTOME  
\_ACTIVATION;REACTOME\_TRAF6\_MEDIATED\_INDUCTION\_OF\_NFKB\_AND\_MAP\_KINASES\_UF



\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CA

TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYTE\_DIFFERENTIATION

ASSOCIATED\_VESICLE\_BIOGENESIS;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

REACTOME\_EFFECTS\_OF\_PIP2\_HYDROLYSIS;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LI

OME\_PI3K\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALINC  
OME\_PI3K\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALINC

\_SIGNALING;REACTOME\_GPCR\_LIGAND\_BINDING

ALING;REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING;REACTOME\_INTERFERON\_SIGN,

.EACTOME\_GLUCOSE\_TRANSPORT;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REAC

NSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNA

;RETION;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH;REACTOME\_INHIBIT

TOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_SHC1\_EVENTS\_IN\_ERBB4\_SIGNALING  
\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_|



ε\_HIGHLY\_CALCIIUM\_PERMEABLE\_POSTSYNAPTIC\_NICOTINIC\_ACETYLCHOLINE\_RECEPTOR

2\_SECRETIN\_FAMILY\_RECEPTORS;REACTOME\_GLCAGON\_TYPE\_LIGAND\_RECEPTORS;RE  
AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_M

Y\_BY\_PROTEINS\_THAT\_BIND\_AU\_RICH\_ELEMENTS;REACTOME\_DESTABILIZATION\_OF\_MRI

YLATION\_DEPENDENT\_MRNA\_DECAY;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_DEST

3

IE\_TO\_ELEVATED\_PLATELET\_CYTOSOLIC\_CA2\_;REACTOME\_TRANSMISSION\_ACROSS\_CHE

ESIS\_OF\_DNA;REACTOME\_MITOTIC\_G1\_G1\_S\_PHASES;REACTOME\_MITOTIC\_M\_M\_G1\_PHA

ACTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_M

;TOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

;TOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

IDES;REACTOME\_AMINO\_ACID\_AND\_OLIGOPEPTIDE\_SLC\_TRANSPORTERS

IDES;REACTOME\_AMINO\_ACID\_AND\_OLIGOPEPTIDE\_SLC\_TRANSPORTERS

ME\_RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_SINGLE\_NUCLEOTIDE\_REPLACEMENT\_PATHWAY  
ME\_RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_SINGLE\_NUCLEOTIDE\_REPLACEMENT\_PATHWAY

IN\_RESPONSE\_TO\_REPLICATION\_STRESS;REACTOME\_MEIOTIC\_SYNAPSIS;REACTOME\_G2  
ICATION;REACTOME\_ADP\_SIGNALLING\_THROUGH\_P2RY12;REACTOME\_GPCR\_LIGAND\_BIN

ME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME\_SLC\_MEDIATED\_TRANSMEMBRANI

N\_TC\_NER;REACTOME\_SYNTHESIS\_OF\_DNA;REACTOME\_DNA\_REPAIR;REACTOME\_CHROM

ACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYL

R\_OPENING;REACTOME\_MRNA\_PROCESSING;REACTOME\_TRANSCRIPTION;REACTOME\_NU

REACTOME\_KERATAN\_SULFATE\_KERATIN\_METABOLISM;REACTOME\_KERATAN\_SULFATE\_C  
REACTOME\_KERATAN\_SULFATE\_KERATIN\_METABOLISM;REACTOME\_KERATAN\_SULFATE\_C  
D\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

JCLEOSOMES\_AT\_THE\_CENTROMERE;REACTOME\_RNA\_POL\_I\_PROMOTER\_OPENING;REAC

TEROID\_HORMONES;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

IK\_EVENTS\_IN\_ERBB2\_SIGNALING;REACTOME\_NUCLEAR\_SIGNALING\_BY\_ERBB4

MBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_IRON\_UPTAKE\_AND\_TRANSPC

VA\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_RIG\_I\_MDA5\_MEDIATED\_

AM\_SIGNAL\_TRANSDUCTION;REACTOME\_SIGNALING\_BY\_ILS;REACTOME\_REGULATION\_OI



ACTOME\_INTERFERON\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_S

ABOLISM\_OF\_LIPIDS\_AND\_LIOPROTEINS  
ABOLISM\_OF\_LIPIDS\_AND\_LIOPROTEINS

YTE\_DIFFERENTIATION

IODELLING\_OF\_PS;REACTOME\_GLYCEROPHOSPHOLIPID\_BIOSYNTHESIS;REACTOME\_MET/

ACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_TOLL\_RECE

ROTEINS;REACTOME\_3\_UTR\_MEDIATED\_TRANSLATIONAL\_REGULATION

.ING\_BY\_EGFR\_IN\_CANCER;REACTOME\_SHC1\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_

≡\_HIGHLY\_CALCIIUM\_PERMEABLE\_POSTSYNAPTIC\_NICOTINIC\_ACETYLCHOLINE\_RECEPTOF

\_MAPK\_TARGETS;REACTOME\_MYOGENESIS;REACTOME\_MAP\_KINASE\_ACTIVATION\_IN\_TLF

\_3\_PROMOTER;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_TERMINATION;REACTOME\_RNA

ME\_CIRCADIANT\_CLOCK;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOC`

ACTOME\_CIRCADIANT\_REPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA;REACTOME\_GENERIC

YTE\_DIFFERENTIATION

AND\_AMINO\_ACIDS\_OLIGOPEPTIDES;REACTOME\_AMINO\_ACID\_AND\_OLIGOPEPTIDE\_SLC\_1

G;REACTOME\_IOTROPIC\_ACTIVITY\_OF\_KAINATE\_RECEPTORS

G;REACTOME\_IOTROPIC\_ACTIVITY\_OF\_KAINATE\_RECEPTORS

ME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_T

EACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM  
ACTOME\_CIRCADIAN\_REPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA;REACTOME\_GENERIC  
ACTOME\_CIRCADIAN\_REPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA;REACTOME\_GENERIC

\_PRE\_NOTCH\_EXPRESSION\_AND\_PROCESSING;REACTOME\_NOTCH1\_INTRACELLULAR\_DO

.CTOME\_IMMUNE\_SYSTEM;REACTOME\_TOLL\_RECEPTOR\_CASCADES  
.CTOME\_IMMUNE\_SYSTEM;REACTOME\_TOLL\_RECEPTOR\_CASCADES

!\_RELEASE\_CYCLE

ANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYTE\_DIFFERENTIATION

NG;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;RE/

=\_MITOTIC\_CELL\_CYCLE;REACTOME\_APC\_C\_CDH1\_MEDIATED\_DEGRADATION\_OF\_CDC20\_

\_SIGNALING;REACTOME\_GPCR\_LIGAND\_BINDING  
)\_TRANSPORTERS;REACTOME\_IRON\_UPTAKE\_AND\_TRANSPORT  
)\_TRANSPORTERS;REACTOME\_IRON\_UPTAKE\_AND\_TRANSPORT

IDES;REACTOME\_AMINO\_ACID\_AND\_OLIGOPEPTIDE\_SLC\_TRANSPORTERS

DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_SIGNALING

RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_SINGLE\_NUCLEOTIDE\_REPLACEMENT\_PATHWAY



CTOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATIO

ULTS;REACTOME\_PEROXISOMAL\_LIPID\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_

32\_G2\_M\_PHASES

ACTOME\_CIRCADIANT\_REPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA;REACTOME\_GENERIC

HWAYS;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_C

GGREGATION

A\_INDEPENDENT\_GLUCOSE\_TRANSPORTERS

.DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_SIGNALING

:\_LINKER\_SEQUENCE\_IS\_REQUIRED\_FOR\_GAG\_SYNTHESIS;REACTOME\_METABOLISM\_OF\_  
:\_LINKER\_SEQUENCE\_IS\_REQUIRED\_FOR\_GAG\_SYNTHESIS;REACTOME\_METABOLISM\_OF\_

ITS\_KINASE\_AND\_TRANSCRIPTION\_FACTOR\_ACTIVATION;REACTOME\_ERK\_MAPK\_TARGET

PORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACIDS\_OLIGOPEPTIDES;REACTOME  
PORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_ACIDS\_OLIGOPEPTIDES;REACTOME

ME\_PECAM1\_INTERACTIONS;REACTOME\_TCR\_SIGNALING;REACTOME\_DOWNSTREAM\_TCF

ANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYTE\_DIFFERENTIATION

I\_OF\_MTOR\_BY\_LKB1\_AMPK;REACTOME\_REGULATION\_OF\_RHEB\_GTPASE\_ACTIVITY\_BY\_A  
\_SIGNALING;REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING;REACTOME\_REGULATION

ENTS;REACTOME\_GPCR\_LIGAND\_BINDING

ACTOME\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SEMA4D\_INDUCED\_CELL\_MIGRATION\_

ION\_PATHWAY;REACTOME\_RECEPTOR\_LIGAND\_BINDING\_INITIATES\_THE\_SECOND\_PROTE  
ION\_PATHWAY;REACTOME\_RECEPTOR\_LIGAND\_BINDING\_INITIATES\_THE\_SECOND\_PROTE

\_3\_PROMOTER;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_TERMINATION;REACTOME\_RNA

;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_AXON\_GUIDANCE;REACTOME\_G\_ALPHA12

SPORT\_OF\_SMALL\_MOLECULES;REACTOME\_MRNA\_PROCESSING;REACTOME\_TRANSPORT

EPULSION\_SIGNALING\_BY\_INHIBITING\_INTEGRIN\_ADHESION

ACTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

ACTOME\_PI3K\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALING

REACTOME\_SIGNALING\_BY\_NOTCH1;REACTOME\_REGULATED\_PROTEOLYSIS\_OF\_P75NTR;REACTOME

CELLULAR\_IUM\_CHANNELS

REACTOME\_CIRCADIAN\_REPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA;REACTOME\_GENERIC

REACTOME\_HOMEOSTASIS;REACTOME\_HEMOSTASIS

CELLULAR\_ACTIONS  
CELLULAR\_ACTIONS

REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_ACTIVATED\_TLR4\_SIGNALLING;REACTOME\_IMMUNE

MODIFICATION

ON\_PATHWAY;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_FORMATION\_OF\_FIBR

GF\_GLP1

GF\_GLP1

DS\_AND\_LIPOPROTEINS



ES;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM  
EACTOME\_RAP1\_SIGNALLING;REACTOME\_PLATELET\_AGGREGATION\_PLUG\_FORMATION;R  
E\_HIGHLY\_CALCIUM\_PERMEABLE\_POSTSYNAPTIC\_NICOTINIC\_ACETYLCHOLINE\_RECEPTOR

EACTOME\_L1CAM\_INTERACTIONS;REACTOME\_SIGNAL\_TRANSDUCTION\_BY\_L1;REACTOME  
\_MUTANTS;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;REACTOME\_SIGNALING\_BY\_PDGF;

.TS\_AND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_METAL\_ION

CEPTOR;REACTOME\_SIGNAL\_ATTENUATION;REACTOME\_SOS\_MEDIATED\_SIGNALLING;RE  
\_SIGNALLING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND\_BINDING

PORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AND\_ORGANIC\_ACIDS\_METAL\_ION

EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;RE

PLEX

REACTOME\_GPCR\_LIGAND\_BINDING

EPULSION\_SIGNALING\_BY\_INHIBITING\_INTEGRIN\_ADHESION

.IN\_RESPONSE\_TO\_REPLICATION\_STRESS;REACTOME\_MEIOTIC\_SYNAPSIS;REACTOME\_G2

\_ANTIGEN\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINA`  
\_ANTIGEN\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINA`

E\_GABA\_A\_RECEPTOR\_ACTIVATION;REACTOME\_GABA\_RECEPTOR\_ACTIVATION;REACTOM

NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SI  
NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SI

\_OF\_RHEB\_GTPASE\_ACTIVITY\_BY\_AMPK;REACTOME\_PKB\_MEDIATED\_EVENTS;REACTOME

OMETAPHASE

BY\_EGFR\_IN\_CANCER;REACTOME\_PI3K\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_E

ASACCHARIDE\_LINKER\_SEQUENCE\_IS\_REQUIRED\_FOR\_GAG\_SYNTHESIS;REACTOME\_ME

ME\_SPHINGOLIPID\_METABOLISM;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICAT

REACTOME\_G2\_M\_CHECKPOINTS;REACTOME\_G2\_M\_DNA\_DAMAGE\_CHECKPOINT

REACTOME\_G2\_M\_CHECKPOINTS;REACTOME\_G2\_M\_DNA\_DAMAGE\_CHECKPOINT

↑REAM\_SIGNALING\_OF\_ACTIVATED\_FGFR;REACTOME\_PHOSPHOLIPASE\_C\_MEDIATED\_CAS  
↑REAM\_SIGNALING\_OF\_ACTIVATED\_FGFR;REACTOME\_PHOSPHOLIPASE\_C\_MEDIATED\_CAS  
↑REAM\_SIGNALING\_OF\_ACTIVATED\_FGFR;REACTOME\_PHOSPHOLIPASE\_C\_MEDIATED\_CAS

↓A;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_INI

↓\_GLYCAN\_ANTENNAE\_ELONGATION\_IN\_THE\_MEDIAL\_TRANS\_GOLGI  
↓\_LIPID\_LINKED\_OLIGOSACCHARIDE\_ATTACHMENT\_AND\_TRANSFER\_TO\_A\_NASCENT\_PROTEIN

\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_|

JA;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_INI



REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

ACTIVATION\_SIGNALING\_AND\_AGGREGATION

ACTIVATED\_HUMAN\_TAK1;REACTOME\_ACTIVATED\_TAK1\_MEDIATES\_P38\_MAPK\_ACTIVATION;RI

SSION\_ACROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_SIGN

!FACE\_INTERACTIONS;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_GPVI\_MEDIATED\_ACT

IN;REACTOME\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;REACTO  
OMPLEX\_FORMATION;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_CELL\_CYCLE\_CHECK

CTIVATION\_SIGNALING\_AND\_AGGREGATION  
CTIVATION\_SIGNALING\_AND\_AGGREGATION

;\_AND\_RECYCLING;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR

CYCLASE;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_HEMOSTASIS

MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_HEMOSTASIS

REGULATION\_OF\_MTOR\_BY\_LKB1\_AMPK;REACTOME\_REGULATION\_OF\_RHEB\_GTPASE\_ACTIVITY\_BY\_A  
REGULATION\_OF\_MTOR\_BY\_LKB1\_AMPK;REACTOME\_REGULATION\_OF\_RHEB\_GTPASE\_ACTIVITY\_BY\_A

MUTANTS\_OF\_FGFR1;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;REACTOME\_AXON\_GUIDE  
MUTANTS\_OF\_FGFR1;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;REACTOME\_AXON\_GUIDE

ME\_RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_SINGLE\_NUCLEOTIDE\_REPLACEMENT\_PATHWAY

)\_DIGESTION\_MOBILIZATION\_AND\_TRANSPORT

\_MEDIATED\_TRANSMEMBRANE\_TRANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CA

GNAL\_ATTENUATION;REACTOME\_SHC\_MEDIATED\_SIGNALLING;REACTOME\_SHC\_RELATED

DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_SIGNALING

TRANSMITTER\_RELEASE\_CYCLE;REACTOME\_ACETYLCHOLINE\_NEUROTRANSMITTER\_REL

OUT\_GROWTH;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_INTERACTION\_BETWEEN  
OUT\_GROWTH;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_INTERACTION\_BETWEEN  
OUT\_GROWTH;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_INTERACTION\_BETWEEN  
OUT\_GROWTH;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_INTERACTION\_BETWEEN

HOL\_LIPID\_LINKED\_OLIGOSACCHARIDE\_LLO\_AND\_TRANSFER\_TO\_A\_NASCENT\_PROTEIN

AM\_SIGNAL\_TRANSDUCTION;REACTOME\_SIGNALING\_BY\_ILS;REACTOME\_REGULATION\_O

REACTOME\_IMMUNE\_SYSTEM

POPROTEIN\_METABOLISM  
POPROTEIN\_METABOLISM

ATION\_PLUG\_FORMATION;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIVATION\_9

OLINE\_NEUROTRANSMITTER\_RELEASE\_CYCLE;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_I



REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CYTO

IN;REACTOME\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;REACTO

FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_MHC\_CLASS\_II\_ANTIGEN\_PRESENTATION;RE

\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABO

ET\_HOMEOSTASIS;REACTOME\_PKB\_MEDIATED\_EVENTS;REACTOME\_SIGNALING\_BY\_INSUL  
ABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

IN\_LIKE\_RECEPTORS;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DRUG  
ENT\_NEUROTRANSMITTER\_TRANSPORTERS;REACTOME\_AMINE\_COMPOUND\_SLC\_TRANSPORTERS

;REACTOME\_DNA\_REPLICATION;REACTOME\_MITOTIC\_PROMETAPHASE

\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_SIGNALING

YNTHESES\_OF\_DNA;REACTOME\_MITOTIC\_G1\_G1\_S\_PHASES;REACTOME\_MITOTIC\_M\_M\_G1

REACTOME\_HORMONE\_SENSITIVE\_LIPASE\_HSL\_MEDIATED\_TRIACYLGLYCEROL\_HYDROLY  
;\_AND\_RECYCLING;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR

;SING\_UBIQUITINATION\_PROTEASOME\_DEGRADATION;REACTOME\_VIF\_MEDIATED\_DEGRAI  
NT\_G1\_DNA\_DAMAGE\_RESPONSE;REACTOME\_REGULATION\_OF\_THE\_FANCONI\_ANEMIA\_P.

;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_AXON\_GUIDANCE;REACTOME\_G\_ALPHA12  
;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_AXON\_GUIDANCE;REACTOME\_G\_ALPHA12

√S;REACTOME\_TRANSLOCATION\_OF\_ZAP\_70\_TO\_IMMUNOLOGICAL\_SYNAPSE;REACTOME\_

.EACTOME\_TRANSPORT\_OF\_VITAMINS\_NUCLEOSIDES\_AND\_RELATED\_MOLECULES;REACT

SSION\_ACROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_SIGN

METABOLISM\_OF\_PROTEINS

ME\_RESOLUTION\_OF\_AP\_SITES\_VIA\_THE\_SINGLE\_NUCLEOTIDE\_REPLACEMENT\_PATHWAY

YTE\_DIFFERENTIATION

N\_TC\_NER;REACTOME\_SYNTHESIS\_OF\_DNA;REACTOME\_DNA\_REPAIR;REACTOME\_CHROM

E\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

CYCLE;REACTOME\_LATE\_PHASE\_OF\_HIV\_LIFE\_CYCLE

NE\_TRANSPORT;REACTOME\_TRANSPORT\_OF\_INORGANIC\_CATIONS\_ANIONS\_AND\_AMINO\_

E\_GPCR\_LIGAND\_BINDING

TELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCEI  
LYTIC\_CLEAVAGE\_OF\_NOTCH\_RECEPTOR;REACTOME\_SIGNALING\_BY\_NOTCH

≡\_HIGHLY\_CALCIIUM\_PERMEABLE\_POSTSYNAPTIC\_NICOTINIC\_ACETYLCHOLINE\_RECEPTOF

ME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_1



NS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATION;REACTOME\_SYNTHESIS\_

TEROID\_HORMONES;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

;TOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

JND\_SLC\_TRANSPORTERS

JA;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_INI

\_YAP1\_AND\_WWTR1\_TAZ\_STIMULATED\_GENE\_EXPRESSION;REACTOME\_PRE\_NOTCH\_EXF  
\_YAP1\_AND\_WWTR1\_TAZ\_STIMULATED\_GENE\_EXPRESSION;REACTOME\_PRE\_NOTCH\_EXF  
\_YAP1\_AND\_WWTR1\_TAZ\_STIMULATED\_GENE\_EXPRESSION;REACTOME\_PRE\_NOTCH\_EXF  
SSION\_ACROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_SIGN

Y\_P\_TYPE\_ATPASES;REACTOME\_ION\_CHANNEL\_TRANSPORT;REACTOME\_SIGNALING\_BY\_

SPORT\_OF\_SMALL\_MOLECULES;REACTOME\_MRNA\_PROCESSING;REACTOME\_TRANSPORT  
SPORT\_OF\_SMALL\_MOLECULES;REACTOME\_MRNA\_PROCESSING;REACTOME\_TRANSPORT

ATION\_PLUG\_FORMATION;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIVATION\_9

E\_IMMUNE\_SYSTEM;REACTOME\_TOLL\_RECEPTOR\_CASCADES;REACTOME\_ADAPTIVE\_IMM

ND\_POSTSYNAPTIC\_EVENTS;REACTOME\_POST\_NMDA\_RECEPTOR\_ACTIVATION\_EVENTS

\_ORGANIC\_ANION\_SLC\_TRANSPORTERS

E\_RNA\_POL\_II\_TRANSCRIPTION\_PRE\_INITIATION\_AND\_PROMOTER\_OPENING;REACTOME\_  
\_SIGNALLING\_THROUGH\_PI3KGAMMA;REACTOME\_G\_PROTEIN\_BETA\_GAMMA\_SIGNALLING

SSION;REACTOME\_NOTCH1\_INTRACELLULAR\_DOMAIN\_REGULATES\_TRANSCRIPTION;REAC  
SSION;REACTOME\_NOTCH1\_INTRACELLULAR\_DOMAIN\_REGULATES\_TRANSCRIPTION;REAC

ND\_MAP\_KINASES\_ACTIVATION\_MEDIATED\_BY\_TLR4\_SIGNALING\_REPERTOIRE;REACTOMI

\_ORGANIC\_ANION\_SLC\_TRANSPORTERS  
\_ORGANIC\_ANION\_SLC\_TRANSPORTERS

FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_MHC\_CLASS\_II\_ANTIGEN\_PRESENTATION;RE

JA;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_INI

SEMAPHORIN\_SIGNALING;REACTOME\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SEMA4D\_INDUCTION;  
REACTOME\_GPCR\_LIGAND\_BINDING

REACTOME\_SIGNALING\_BY\_FGFR1\_FUSION\_MUTANTS;REACTOME\_SIGNALING\_BY\_FGFR\_MIMICRY;  
REACTOME\_SIGNALING\_BY\_FGFR1\_FUSION\_MUTANTS;REACTOME\_SIGNALING\_BY\_FGFR\_MIMICRY;  
REACTOME\_SIGNALING\_BY\_FGFR1\_FUSION\_MUTANTS;REACTOME\_SIGNALING\_BY\_FGFR\_MIMICRY

REACTOME\_NMDA\_RECEPTOR\_SIGNALLING;  
REACTOME\_NMDA\_RECEPTOR\_SIGNALLING

REACTOME\_GPIIb\_IIIa\_INTERACTIONS;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_GPIIb\_IIIa\_MEDIATED\_ACTIVATION

REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

MEDIATED\_SIGNALLING;REACTOME\_PI3K\_CASCADE

AND\_LIPOPOTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_M  
AND\_LIPOPOTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_M

3;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND\_BINDING

TIONS;REACTOME\_PYRUVATE\_METABOLISM;REACTOME\_HEMOSTASIS

RNA\_POL\_III\_TRANSCRIPTION;REACTOME\_MRNA\_CAPPING;REACTOME\_TRANSCRIPTION\_

IRAGE\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NTAG  
ADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY

TOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM



;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVE  
E\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

ASE;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLIS

RESPONSE\_TO\_ELEVATED\_PLATELET\_CYTOSOLIC\_CA2\_;REACTOME\_TRANSCRIPTIONAL\_REG

HEMODYNAMIC\_HOMEOSTASIS;REACTOME\_HEMOSTASIS

TRANSCRIPTION\_COUPLED\_NER\_TC\_NER;REACTOME\_POL\_SWITCHING;REACTOME\_NUCLEOTIDE\_EX  
TRANSCRIPTION\_COUPLED\_NER\_TC\_NER;REACTOME\_POL\_SWITCHING;REACTOME\_NUCLEOTIDE\_EX  
TRANSCRIPTION\_COUPLED\_NER\_TC\_NER;REACTOME\_POL\_SWITCHING;REACTOME\_NUCLEOTIDE\_EX

;\_BY\_EGFR\_IN\_CANCER;REACTOME\_ANTIGEN\_ACTIVATES\_B\_CELL\_RECEPTOR\_LEADING\_

\_ORGANIC\_ANION\_SLC\_TRANSPORTERS

PEPTIDE1;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME\_CLASS\_B\_2\_SEC  
PEPTIDE1;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME\_CLASS\_B\_2\_SEC

IDE\_LIGAND\_BINDING\_RECEPTORS;REACTOME\_CLASS\_A1\_RHODOPSIN\_LIKE\_RECEPTORS

;TOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

\_END\_PROCESSING;REACTOME\_CLEAVAGE\_OF\_GROWING\_TRANSCRIPT\_IN\_THE\_TERMIN

ME\_ADAPTIVE\_IMMUNE\_SYSTEM

LING;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND\_BINDING

ESIS\_OF\_DNA;REACTOME\_MITOTIC\_G1\_G1\_S\_PHASES;REACTOME\_MITOTIC\_M\_M\_G1\_PHA

IMA\_SUBUNITS;REACTOME\_GABA\_B\_RECEPTOR\_ACTIVATION;REACTOME\_GABA\_RECEPTC  
IMA\_SUBUNITS;REACTOME\_GABA\_B\_RECEPTOR\_ACTIVATION;REACTOME\_GABA\_RECEPTC

\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_LIGAND\_BINI  
\_3\_PROMOTER;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_TERMINATION;REACTOME\_RNA  
\_3\_PROMOTER;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_TERMINATION;REACTOME\_RNA

ME\_SPHINGOLIPID\_METABOLISM;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICAT

ING\_APOPTOSIS;REACTOME\_APOPTOSIS

CE;REACTOME\_DNA\_REPLICATION;REACTOME\_MITOTIC\_PROMETAPHASE;REACTOME\_MEI

CTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

ANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYTE\_DIFFERENTIATION

:\_LINKER\_SEQUENCE\_IS\_REQUIRED\_FOR\_GAG\_SYNTHESIS;REACTOME\_METABOLISM\_OF\_

:ASACCHARIDE\_LINKER\_SEQUENCE\_IS\_REQUIRED\_FOR\_GAG\_SYNTHESIS;REACTOME\_ME

INDUCTION\_BY\_L1;REACTOME\_RECYCLING\_PATHWAY\_OF\_L1;REACTOME\_HEMOSTASIS  
INDUCTION\_BY\_L1;REACTOME\_RECYCLING\_PATHWAY\_OF\_L1;REACTOME\_HEMOSTASIS



Ξ\_DNA\_REPLICATION;REACTOME\_MITOTIC\_PROMETAPHASE

LYTIC\_CLEAVAGE\_OF\_NOTCH\_RECEPTOR;REACTOME\_SIGNALING\_BY\_NOTCH

REPLICATION;REACTOME\_HEMOSTASIS;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTI

ND\_TRANSPORT

RTERS;REACTOME\_METAL\_ION\_SLC\_TRANSPORTERS

OME\_PI3K\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALING

\_SIGNALING;REACTOME\_GPCR\_LIGAND\_BINDING;REACTOME\_THROMBIN\_SIGNALLING\_THR

ODULATION\_OF\_CELL\_SURFACE\_RECEPTORS\_BY\_RECRUITING\_THEM\_TO\_CLATHRIN\_ADA

SIGNALING;REACTOME\_SIGNALING\_BY\_ERBB2;REACTOME\_SIGNALING\_BY\_EGFR\_IN\_CANCEI

ME\_SPHINGOLIPID\_METABOLISM;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICAT

UCTION;REACTOME\_KINESINS;REACTOME\_HEMOSTASIS;REACTOME\_IMMUNE\_SYSTEM;RE

E\_GABA\_A\_RECEPTOR\_ACTIVATION;REACTOME\_GABA\_RECEPTOR\_ACTIVATION;REACTOM  
REACTOME\_TAK1\_ACTIVATES\_NFKB\_BY\_PHOSPHORYLATION\_AND\_ACTIVATION\_OF\_IKKS\_

\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MI  
CTIONS

YTE\_DIFFERENTIATION

ROVIDES\_LINKAGE\_TO\_MAPK\_SIGNALING\_FOR\_INTERGRINS\_;REACTOME\_INTEGRIN\_ALPH  
REACTOME\_IMMUNE\_SYSTEM

\DE;REACTOME\_PI\_3K\_CASCADE;REACTOME\_DOWNSTREAM\_SIGNALING\_OF\_ACTIVATED\_

;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_AXON\_GUIDANCE;REACTOME\_G\_ALPHA12

\_G1\_S\_PHASES;REACTOME\_INHIBITION\_OF\_REPLICATION\_INITIATION\_OF\_DAMAGED\_DNA\_

REACTOME\_TAK1\_ACTIVATES\_NFKB\_BY\_PHOSPHORYLATION\_AND\_ACTIVATION\_OF\_IKKS\_

;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_AXON\_GUIDANCE;REACTOME\_G\_ALPHA12

;COMPLEX\_AND\_EIFS\_AND\_SUBSEQUENT\_BINDING\_TO\_43S;REACTOME\_PEPTIDE\_CHAIN\_EL

;

ALING;REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING;REACTOME\_INTERFERON\_SIGN,

DR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REACTOME\_C

PLATELET\_HOMEOSTASIS;REACTOME\_PLATELET\_SENSITIZATION\_BY\_LDL;REACTOME\_DNA\_F

REGATION



GLUR2\_CONTAINING\_AMPA\_RECEPTORS

TRANSMISSION\_IN\_THE\_POSTSYNAPTIC\_CELL;REACTOME\_PLC\_BETA\_MEDIATED\_EVENTS

MITOTIC\_CELL\_CYCLE;REACTOME\_APC\_C\_CDH1\_MEDIATED\_DEGRADATION\_OF\_CDC20

NG;REACTOME\_IL\_RECEPTOR\_SHC\_SIGNALING;REACTOME\_FACTORS\_INVOLVED\_IN\_MEG.

'IA\_NFKB;REACTOME\_NRIF\_SIGNALS\_CELL\_DEATH\_FROM\_THE\_NUCLEUS;REACTOME\_NFK

METABOLISM

:\_LINKER\_SEQUENCE\_IS\_REQUIRED\_FOR\_GAG\_SYNTHESIS;REACTOME\_METABOLISM\_OF\_

OCIATED\_VESICLE\_BIOGENESIS;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

TIGHT\_JUNCTION\_INTERACTIONS;REACTOME\_CELL\_JUNCTION\_ORGANIZATION

IDES;REACTOME\_AMINO\_ACID\_AND\_OLIGOPEPTIDE\_SLC\_TRANSPORTERS

ION\_PATHWAY;REACTOME\_RECEPTOR\_LIGAND\_BINDING\_INITIATES\_THE\_SECOND\_PROTE

N;REACTOME\_MITOTIC\_G1\_G1\_S\_PHASES;REACTOME\_E2F\_MEDIATED\_REGULATION\_OF\_D

E\_GABA\_A\_RECEPTOR\_ACTIVATION;REACTOME\_GABA\_RECEPTOR\_ACTIVATION;REACTOM  
\_AND\_OTHER\_SUGARS\_BILE\_SALTS\_AND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COM

A\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONDRIAL\_TRANSCRIPTION;REACTOME\_RNA\_POL\_II\_PF

IOTIC\_COUPLING\_AND\_HEAT\_PRODUCTION\_BY\_UNCOUPLING\_PROTEINS\_  
N\_SECRETION\_BY\_ACETYLCHOLINE;REACTOME\_ADP\_SIGNALLING\_THROUGH\_P2RY1;REAC

HOL\_LIPID\_LINKED\_OLIGOSACCHARIDE\_LLO\_AND\_TRANSFER\_TO\_A\_NASCENT\_PROTEIN

TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_MHC\_CLASS\_II\_ANTIGEN\_PRESENTATI

G;REACTOME\_IONOTROPIC\_ACTIVITY\_OF\_KAINATE\_RECEPTORS

OLISM;REACTOME\_A\_TETRASACCHARIDE\_LINKER\_SEQUENCE\_IS\_REQUIRED\_FOR\_GAG\_S

ALING;REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING;REACTOME\_INTERFERON\_SIGN,

CTIVATION\_SIGNALING\_AND\_AGGREGATION  
CTIVATION\_SIGNALING\_AND\_AGGREGATION

4\_OF\_LIPIDS\_AND\_LIPOPROTEINS

NT\_G1\_DNA\_DAMAGE\_RESPONSE;REACTOME\_REGULATION\_OF\_THE\_FANCONI\_ANEMIA\_P

TOME\_SIGNALING\_BY\_EGFR\_IN\_CANCER;REACTOME\_SHC1\_EVENTS\_IN\_ERBB4\_SIGNALING

SIUM\_CHANNELS

E\_GABA\_A\_RECEPTOR\_ACTIVATION;REACTOME\_GABA\_RECEPTOR\_ACTIVATION;REACTOM

E\_IMMUNE\_SYSTEM;REACTOME\_TOLL\_RECEPTOR\_CASCADES;REACTOME\_ADAPTIVE\_IMM



NTATION

ME\_SPHINGOLIPID\_METABOLISM;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICAT

SPORT\_OF\_SMALL\_MOLECULES;REACTOME\_MRNA\_PROCESSING;REACTOME\_TRANSPORT

;\_AND\_RECYCLING;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR

REACTOME\_SIGNALING\_BY\_TGF\_BETA\_RECEPTOR\_COMPLEX

REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH

REACTOME\_MYOTUBE\_DIFFERENTIATION

REACTOME\_HIGHLY\_CALCIIUM\_PERMEABLE\_POSTSYNAPTIC\_NICOTINIC\_ACETYLCHOLINE\_RECEPTOR

MEDIATED\_SIGNALLING;REACTOME\_PI3K\_CASCADE  
D\_TRANSPORT

YCEROL\_AND\_KETONE\_BODY\_METABOLISM

STOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

VALING\_BY\_SCF\_KIT;REACTOME\_DEVELOPMENTAL\_BIOLOGY;REACTOME\_SIGNALING\_BY\_I

JA;REACTOME\_METABOLISM\_OF\_RNA;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_INI

OME\_PI3K\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_SIGNALING

MUTANTS;REACTOME\_FRS2\_MEDIATED\_CASCADE;REACTOME\_PI\_3K\_CASCADE;REACTOME

:EVENTS;REACTOME\_GPCR\_LIGAND\_BINDING  
\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_G\_ALPHA1213\_SIGNALLING\_E'

\_MEDIATED\_RESISTANCE\_TO\_HIV1\_INFECTI

O\_EXPOSED\_COLLAGEN;REACTOME\_BASIGIN\_INTERACTIONS;REACTOME\_INTEGRIN\_CELL

ANNELS;REACTOME\_INWARDLY\_RECTIFYING\_K\_CHANNELS

\_MITOTIC\_CELL\_CYCLE;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_DNA\_REPLIC/

JND\_SLC\_TRANSPORTERS

\_SIGNALING;REACTOME\_GPCR\_LIGAND\_BINDING

ME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_T

REACTOME\_TAK1\_ACTIVATES\_NFKB\_BY\_PHOSPHORYLATION\_AND\_ACTIVATION\_OF\_IKKS\_

ACTE\_KERATIN\_METABOLISM;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_  
\_SIGNALING;REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING;REACTOME\_REGULATION

ACTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING

ACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_GPCR;I

YNTHESES\_OF\_DNA;REACTOME\_MITOTIC\_G1\_G1\_S\_PHASES;REACTOME\_MITOTIC\_M\_M\_G1

ADHESION

\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_|

ROTEINS;REACTOME\_3\_UTR\_MEDIATED\_TRANSLATIONAL\_REGULATION





TRANSCRIPTION;REACTOME\_NOTCH\_HLH\_TRANSCRIPTION\_PATHWAY;REACTOME\_TRANSCRI

\_OF\_MATURE\_MRNA\_DERIVED\_FROM\_AN\_INTRONLESS\_TRANSCRIPT;REACTOME\_SLC\_ME

ALING\_BY\_GPCR;REACTOME\_OPIOID\_SIGNALLING;REACTOME\_CA\_DEPENDENT\_EVENTS;R  
OME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_NUCLEAR\_EVENTS\_KINASE\_AND\_TRAI



B\_IS\_ACTIVATED\_AND\_SIGNALS\_SURVIVAL;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NR

PEPTIDES;REACTOME\_AMINO\_ACID\_AND\_OLIGOPEPTIDE\_SLC\_TRANSPORTERS



3NALLING;REACTOME\_CA\_DEPENDENT\_EVENTS;REACTOME\_DARPP\_32\_EVENTS;REACTOM

AVAGE\_OF\_GROWING\_TRANSCRIPT\_IN\_THE\_TERMINATION\_REGION\_

i

BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCAI  
BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCAI

(POINTS;REACTOME\_CDC6\_ASSOCIATION\_WITH\_THE\_ORC\_ORIGIN\_COMPLEX;REACTOME\_

:\_TRANSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;R

i

3;REACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;REACTOME\_CELL\_SURFACE\_IN





E\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEF  
PON\_TLR7\_8\_OR\_9\_ACTIVATION;REACTOME\_ADVANCED\_GLYCOSYLATION\_ENDPRODUCT\_



TIONS\_ANIONS\_AND\_AMINO\_ACIDS\_OLIGOPEPTIDES;REACTOME\_AMINO\_ACID\_AND\_OLIGC



POPROTEINS;REACTOME\_HORMONE\_SENSITIVE\_LIPASE\_HSL\_MEDIATED\_TRIACYLGLYCER

3;REACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;REACTOME\_CELL\_SURFACE\_IN  
3;REACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;REACTOME\_CELL\_SURFACE\_IN

ALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_

TOME\_REGULATION\_OF\_GLUCOKINASE\_BY\_GLUCOKINASE\_REGULATORY\_PROTEIN

PTIC\_CELL;REACTOME\_PLC\_BETA\_MEDIATED\_EVENTS;REACTOME\_G\_PROTEIN\_ACTIVATION

ION\_OF\_INSULIN\_SECRETION\_BY\_ADRENALINE\_NORADRENALINE

3;REACTOME\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;REACTOM  
MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_GASTRIN\_CREB\_SI



RS

REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENT;  
METABOLISM

RNA\_BY\_KSRP

STABILIZATION\_OF\_MRNA\_BY\_BRF1;REACTOME\_REGULATION\_OF\_MRNA\_STABILITY\_BY\_PRO

SYNAPTICAL\_SYNAPSES;REACTOME\_NEURONAL\_SYSTEM;REACTOME\_SIGNALING\_BY\_GPCR;RE

SES;REACTOME\_ASSEMBLY\_OF\_THE\_PRE\_REPLICATIVE\_COMPLEX;REACTOME\_DNA\_REPL

i

-IC\_MEDIATED\_ANTIGEN\_PROCESSING\_PRESENTATION



G1\_M\_CHECKPOINTS;REACTOME\_G2\_M\_DNA\_DAMAGE\_CHECKPOINT  
BINDING;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGR

ATION;REACTOME\_TRANSPORT\_OF\_GLUCOSE\_AND\_OTHER\_SUGARS\_BILE\_SALTS

AND\_MITOCHONDRIAL\_MITOCHONDRIAL\_MAINTENANCE;REACTOME\_GLOBAL\_GENOMIC\_NER\_GG\_NER;REACTOME\_LAGGII

AND\_GLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOME\_CIRCADIAN\_CLOCK;REACTOME

CLEOTIDE\_EXCISION\_REPAIR;REACTOME\_FORMATION\_OF\_RNA\_POL\_II\_ELONGATION\_COM

DEGRADATION;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_SPHINGOLIPID

DEGRADATION;REACTOME\_GLYCOSAMINOGLYCAN\_METABOLISM;REACTOME\_SPHINGOLIPID

REACTOME\_MEIOTIC\_RECOMBINATION;REACTOME\_MEIOTIC\_SYNOPSIS;REACTOME\_AMYLOIDS

ORT;REACTOME\_TRANSFERRIN\_ENDOCYTOSIS\_AND\_RECYCLING;REACTOME\_SIGNALING\_E

INDUCTION\_OF\_IFN\_ALPHA\_BETA\_PATHWAYS;REACTOME\_HEMOSTASIS;REACTOME\_INNA

F\_SIGNALING\_BY\_CBL;REACTOME\_IL\_3\_5\_AND\_GM-CSF\_SIGNALING;REACTOME\_IMMUNE\_



SIGNALING\_IN\_IMMUNE\_SYSTEM

ABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

PTOR\_CASCADES;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

.INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;REACTOME\_ARMS\_MEDIATED\_ACTIVATION;RI

RS;REACTOME\_PRESYNAPTIC\_NICOTINIC\_ACETYLCHOLINE\_RECEPTORS

\_CASCADE;REACTOME\_MAPK\_TARGETS\_NUCLEAR\_EVENTS\_MEDIATED\_BY\_MAP\_KINASES

\_POL\_III\_CHAIN\_ELONGATION

YTE\_DIFFERENTIATION

:\_TRANSCRIPTION\_PATHWAY;REACTOME\_NUCLEAR\_RECEPTOR\_TRANSCRIPTION\_PATHW

TRANSPORTERS

THE\_POSTSYNAPTIC\_CELL;REACTOME\_PLC\_BETA\_MEDIATED\_EVENTS;REACTOME\_G\_ALPHA

:\_TRANSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;R  
:\_TRANSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;R

MAIN\_REGULATES\_TRANSCRIPTION;REACTOME\_CIRCADIAN\_REPRESSION\_OF\_EXPRESSION

ACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_CELL\_EXTRACELLULAR\_MATRIX\_I

AND\_OTHER\_APC\_C\_CDH1\_TARGETED\_PROTEINS\_IN\_LATE\_MITOSIS\_EARLY\_G1;REACTOM

BY THE B CELL RECEPTOR BCR;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_I



v

\_AND\_LIPOPROTEINS

:\_TRANSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;R

CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_I

LIPIDS\_AND\_LIPOPOTEINS;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME\_  
LIPIDS\_AND\_LIPOPOTEINS;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES;REACTOME\_

S;REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_SY

\_METABOLISM\_OF\_CARBOHYDRATES

\_METABOLISM\_OF\_CARBOHYDRATES

R\_SIGNALING;REACTOME\_PHOSPHORYLATION\_OF\_CD3\_AND\_TCR\_ZETA\_CHAINS;REACTOM

.MPK;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_

I\_OF\_IFNA\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IL\_2\_SIGNALING;I

AND\_GROWTH\_CONE\_COLLAPSE

EXOLYTIC\_CLEAVAGE\_OF\_NOTCH\_RECEPTOR;REACTOME\_SIGNALING\_BY\_NOTCH  
EXOLYTIC\_CLEAVAGE\_OF\_NOTCH\_RECEPTOR;REACTOME\_SIGNALING\_BY\_NOTCH

\_POL\_III\_CHAIN\_ELONGATION

.13\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_SEMA

\_OF\_MATURE\_MRNA\_DERIVED\_FROM\_AN\_INTRONLESS\_TRANSCRIPT;REACTOME\_SLC\_ME

G;REACTOME\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;REACTOI

CTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME\_RECEPTOR\_LIGAND\_BI

;\_TRANSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;R

\_SYSTEM;REACTOME\_TOLL\_RECEPTOR\_CASCADES;REACTOME\_CYTOKINE\_SIGNALING\_IN

:IN\_CLOT\_CLOTTING\_CASCADE;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATI



REACTOME\_HEMOSTASIS;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_S  
RS;REACTOME\_PRESYNAPTIC\_NICOTINIC\_ACETYLCHOLINE\_RECEPTORS

\_HEMOSTASIS;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REA  
REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REACTOME\_SIGNALING\_BY\_ILS;REAC

N\_SLC\_TRANSPORTERS

ACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM;REAC

JING

S\_AND\_AMINE\_COMPOUNDS;REACTOME\_NA\_CL\_DEPENDENT\_NEUROTRANSMITTER\_TRAN

:ACTOME\_ARMS\_MEDIATED\_ACTIVATION;REACTOME\_PROLONGED\_ERK\_ACTIVATION\_EVE

\_M\_CHECKPOINTS;REACTOME\_G2\_M\_DNA\_DAMAGE\_CHECKPOINT

TION\_PROTEASOME\_DEGRADATION  
TION\_PROTEASOME\_DEGRADATION

IE\_ION\_CHANNEL\_TRANSPORT;REACTOME\_LIGAND\_GATED\_ION\_CHANNEL\_TRANSPORT

GNALING\_BY\_GPCR;REACTOME\_AXON\_GUIDANCE;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_E  
GNALING\_BY\_GPCR;REACTOME\_AXON\_GUIDANCE;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_E

\_SIGNALING\_BY\_INSULIN\_RECEPTOR;REACTOME\_PI3K\_CASCADE

:EVENTS\_IN\_ERBB2\_SIGNALING;REACTOME\_ANTIGEN\_ACTIVATES\_B\_CELL\_RECEPTOR\_LEA

ETABOLISM\_OF\_CARBOHYDRATES

TION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

SCADE;REACTOME\_SHC\_MEDIATED\_CASCADE;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEF  
SCADE;REACTOME\_SHC\_MEDIATED\_CASCADE;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEF  
SCADE;REACTOME\_SHC\_MEDIATED\_CASCADE;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEF  
FLUENZA\_VIRAL\_RNA\_TRANSCRIPTION\_AND\_REPLICATION;REACTOME\_NONSENSE\_MEDIA

MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_GASTRIN\_CREB\_SI

FLUENZA\_VIRAL\_RNA\_TRANSCRIPTION\_AND\_REPLICATION;REACTOME\_NONSENSE\_MEDIA





ALIGNING\_BY\_GPCR;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_OPIOID

ACTIVATION\_CASCADE;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REACTOME

ME\_ACTIVATION\_OF\_NF\_KAPPAB\_IN\_B\_CELLS;REACTOME\_SIGNALING\_BY\_THE\_B\_CELL\_R  
(POINTS;REACTOME\_CDC6\_ASSOCIATION\_WITH\_THE\_ORC\_ORIGIN\_COMPLEX;REACTOME\_

.MPK;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_  
.MPK;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_

ANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH;REACTOME\_FRS2\_ME  
ANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH;REACTOME\_FRS2\_ME

TIONS\_ANIONS\_AND\_AMINO\_ACIDS\_OLIGOPEPTIDES;REACTOME\_AMINO\_ACID\_AND\_OLIGC

\_EVENTS

BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_I

EASE\_CYCLE;REACTOME\_NOREPINEPHRINE\_NEUROTRANSMITTER\_RELEASE\_CYCLE;REAC

L1\_AND\_ANKYRINS;REACTOME\_NEPHRIN\_INTERACTIONS;REACTOME\_APOPTOSIS;REACT  
L1\_AND\_ANKYRINS;REACTOME\_NEPHRIN\_INTERACTIONS;REACTOME\_APOPTOSIS;REACT  
L1\_AND\_ANKYRINS;REACTOME\_NEPHRIN\_INTERACTIONS;REACTOME\_APOPTOSIS;REACT  
L1\_AND\_ANKYRINS;REACTOME\_NEPHRIN\_INTERACTIONS;REACTOME\_APOPTOSIS;REACT

F\_SIGNALING\_BY\_CBL;REACTOME\_IL\_3\_5\_AND\_GM-CSF\_SIGNALING;REACTOME\_IMMUNE\_

SIGNALING\_AND\_AGGREGATION

\_IPOPTEINS



KINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

ME\_ACTIVATION\_OF\_NF\_KAPPAB\_IN\_B\_CELLS;REACTOME\_SIGNALING\_BY\_THE\_B\_CELL\_R

:ACTOME\_RETROGRADE\_NEUROTROPHIN\_SIGNALLING;REACTOME\_EGFR\_DOWNREGULAT

OLISM;REACTOME\_CIRCADIAN\_CLOCK

.IN\_RECEPTOR;REACTOME\_HEMOSTASIS;REACTOME\_PI3K\_CASCADE

DWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REACTOME\_TAK1\_  
PORTERS

i\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_I

\_PHASES;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_LAGGING\_STRAND\_SYN

SIS;REACTOME\_LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSPORT;REACTOME\_SIGNALIN

DATION\_OF\_APOBEC3G

ATHWAY;REACTOME\_FANCONI\_ANEMIA\_PATHWAY;REACTOME\_DOUBLE\_STRAND\_BREAK\_

13\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_SEMA  
13\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_SEMA

GENERATION\_OF\_SECOND\_MESSENGER\_MOLECULES;REACTOME\_PD1\_SIGNALING;REACT

OME\_TRANSPORT\_OF\_ORGANIC\_ANIONS

ALING\_BY\_GPCR;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_OPIOI

1OSOME\_MAINTENANCE;REACTOME\_GLOBAL\_GENOMIC\_NER\_GG\_NER;REACTOME\_LAGGII

\_ACIDS\_OLIGOPEPTIDES;REACTOME\_AMINO\_ACID\_AND\_OLIGOPEPTIDE\_SLC\_TRANSPORTI

R;REACTOME\_PI3K\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_S

RS

THE\_POSTSYNAPTIC\_CELL;REACTOME\_PLC\_BETA\_MEDIATED\_EVENTS;REACTOME\_G\_ALPHA



OF\_GLYCOSYLPHOSPHATIDYLINOSITOL\_GPI

FLUENZA\_VIRAL\_RNA\_TRANSCRIPTION\_AND\_REPLICATION;REACTOME\_NONSENSE\_MEDIA

PRESSION\_AND\_PROCESSING;REACTOME\_NOTCH1\_INTRACELLULAR\_DOMAIN\_REGULATES  
PRESSION\_AND\_PROCESSING;REACTOME\_NOTCH1\_INTRACELLULAR\_DOMAIN\_REGULATES  
PRESSION\_AND\_PROCESSING;REACTOME\_NOTCH1\_INTRACELLULAR\_DOMAIN\_REGULATES  
ALING\_BY\_GPCR;REACTOME\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_OPIOI

NOTCH;REACTOME\_HEMOSTASIS

\_OF\_MATURE\_MRNA\_DERIVED\_FROM\_AN\_INTRONLESS\_TRANSCRIPT;REACTOME\_SLC\_ME  
\_OF\_MATURE\_MRNA\_DERIVED\_FROM\_AN\_INTRONLESS\_TRANSCRIPT;REACTOME\_SLC\_ME

SIGNALING\_AND\_AGGREGATION

UNE\_SYSTEM;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

MRNA\_PROCESSING;REACTOME\_MRNA\_SPLICING;REACTOME\_MRNA\_SPLICING\_MINOR\_PATHWAYS;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_HEMOSTASIS;REA

CTOME\_CIRCADIAN\_REPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA;REACTOME\_SIGNALING  
CTOME\_CIRCADIAN\_REPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA;REACTOME\_SIGNALING

E\_MYD88\_MAL\_CASCADE\_INITIATED\_ON\_PLASMA\_MEMBRANE;REACTOME\_INNATE\_IMMUN

:ACTOME\_RETROGRADE\_NEUROTROPHIN\_SIGNALLING;REACTOME\_EGFR\_DOWNREGULAT

FLUENZA\_VIRAL\_RNA\_TRANSCRIPTION\_AND\_REPLICATION;REACTOME\_NONSENSE\_MEDIA

ICED\_CELL\_MIGRATION\_AND\_GROWTH\_CONE\_COLLAPSE

UTANTS;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUC  
UTANTS;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUC  
UTANTS;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUC

IVATION\_CASCADE;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM1\_INTERACTIONS;REA/

ETABOLISM  
ETABOLISM

\_COUPLED\_NER\_TC\_NER;REACTOME\_RNA\_POL\_II\_TRANSCRIPTION\_PRE\_INITIATION\_AND\_

E\_NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTOME  
\_GPCR;REACTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM



NTS;REACTOME\_GPCR\_LIGAND\_BINDING

3M;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_GLYCOLYSIS;REACTOME\_OPIOID

REGULATION\_OF\_WHITE\_ADIPOCYTE\_DIFFERENTIATION;REACTOME\_HEMOSTASIS;REACTOME

REPAIR;REACTOME\_REPAIR\_SYNTHESIS\_FOR\_GAP\_FILLING\_BY\_DNA\_POL\_IN\_TC\_



RETIN\_FAMILY\_RECEPTORS;REACTOME\_G\_LUCAGON\_TYPE\_LIGAND\_RECEPTORS;REACTO  
RETIN\_FAMILY\_RECEPTORS;REACTOME\_G\_LUCAGON\_TYPE\_LIGAND\_RECEPTORS;REACTO

;REACTOME\_G\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNAL

ATION\_REGION\_

SES;REACTOME\_ASSEMBLY\_OF\_THE\_PRE\_REPLICATIVE\_COMPLEX;REACTOME\_DNA\_REPL

OR\_ACTIVATION;REACTOME\_POTASSIUM\_CHANNELS;REACTOME\_INWARDLY\_RECTIFYING\_  
OR\_ACTIVATION;REACTOME\_POTASSIUM\_CHANNELS;REACTOME\_INWARDLY\_RECTIFYING\_

DING

\_POL\_III\_CHAIN\_ELONGATION

\_POL\_III\_CHAIN\_ELONGATION

ION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

IOTIC\_SYNOPSIS

i

\_CARBOHYDRATES

ΓABOLISM\_OF\_CARBOHYDRATES



√E\_IMMUNE\_SYSTEM

3;REACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;REACTOME\_CELL\_SURFACE\_IN

ROUGH\_PROTEINASE\_ACTIVATED\_RECEPTORS\_PARS;REACTOME\_HEMOSTASIS;REACTOM

PTERS;REACTOME\_IMMUNOREGULATORY\_INTERACTIONS\_BETWEEN\_A\_LYMPHOID\_AND\_

2;REACTOME\_PI3K\_EVENTS\_IN\_ERBB4\_SIGNALING;REACTOME\_PI3K\_EVENTS\_IN\_ERBB2\_S

ION;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

ACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

IE\_ION\_CHANNEL\_TRANSPORT;REACTOME\_LIGAND\_GATED\_ION\_CHANNEL\_TRANSPORT  
\_COMPLEX;REACTOME\_MAP\_KINASE\_ACTIVATION\_IN\_TLR\_CASCADE;REACTOME\_JNK\_C\_JI

-IC\_MEDIATED\_ANTIGEN\_PROCESSING\_PRESENTATION

IAIIB\_BETA3\_SIGNALING;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM\_SIGNALING\_FOR

FGFR;REACTOME\_PHOSPHOLIPASE\_C\_MEDIATED\_CASCADE;REACTOME\_SHC\_MEDIATED\_

13\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_SEMA

\_BY\_RB1\_E2F1;REACTOME\_DNA\_REPLICATION;REACTOME\_E2F\_MEDIATED\_REGULATION\_C

\_COMPLEX;REACTOME\_MAP\_KINASE\_ACTIVATION\_IN\_TLR\_CASCADE;REACTOME\_JNK\_C\_JI

.13\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_ACTIV

\_ONGATION;REACTOME\_METABOLISM\_OF\_PROTEINS;REACTOME\_3\_UTR\_MEDIATED\_TRAN

ALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_

3PCR\_LIGAND\_BINDING

REPLICATION;REACTOME\_HEMOSTASIS;REACTOME\_MITOTIC\_PROMETAPHASE;REACTOME\_



;REACTOME\_G\_PROTEIN\_ACTIVATION;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REAC

AND\_OTHER\_APC\_C\_CDH1\_TARGETED\_PROTEINS\_IN\_LATE\_MITOSIS\_EARLY\_G1;REACTOM

AKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTOME\_REGULATION\_OI

B\_IS\_ACTIVATED\_AND\_SIGNALS\_SURVIVAL;REACTOME\_CELL\_DEATH\_SIGNALLING\_VIA\_NR

\_CARBOHYDRATES





EXOLYTIC\_CLEAVAGE\_OF\_NOTCH\_RECEPTOR;REACTOME\_SIGNALING\_BY\_NOTCH

DNA\_REPLICATION;REACTOME\_G1\_S\_SPECIFIC\_TRANSCRIPTION

IE\_ION\_CHANNEL\_TRANSPORT;REACTOME\_LIGAND\_GATED\_ION\_CHANNEL\_TRANSPORT

AMPOUNDS;REACTOME\_AMINE\_COMPOUND\_SLC\_TRANSPORTERS;REACTOME\_METABOLISM

RE\_TRANSCRIPTION\_EVENTS;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_INITIATION\_FROM

ACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_SIGNAL\_AMPLIFICATION;REACTOME

ION;REACTOME\_RETROGRADE\_NEUROTROPHIN\_SIGNALLING;REACTOME\_EGFR\_DOWNRE

YNTHESES;REACTOME\_AXON\_GUIDANCE;REACTOME\_ACTIVATION\_OF\_RAC;REACTOME\_SIK

ALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_

ATHWAY;REACTOME\_FANCONI\_ANEMIA\_PATHWAY;REACTOME\_DOUBLE\_STRAND\_BREAK\_

3;REACTOME\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;REACTOM

IE\_ION\_CHANNEL\_TRANSPORT;REACTOME\_LIGAND\_GATED\_ION\_CHANNEL\_TRANSPORT

UNE\_SYSTEM;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION



TON;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS

\_OF\_MATURE\_MRNA\_DERIVED\_FROM\_AN\_INTRONLESS\_TRANSCRIPT;REACTOME\_SLC\_ME

RS



FLUENZA\_VIRAL\_RNA\_TRANSCRIPTION\_AND\_REPLICATION;REACTOME\_NONSENSE\_MEDIA

3;REACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;REACTOME\_CELL\_SURFACE\_IN

3\_DOWNSTREAM\_SIGNALING\_OF\_ACTIVATED\_FGFR;REACTOME\_PHOSPHOLIPASE\_C\_MEDI

VENTS;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_METABOLISM\_OF\_LIPIDS

\_SURFACE\_INTERACTIONS;REACTOME\_AXON\_GUIDANCE;REACTOME\_OTHER\_SEMAPHOR

ATION;REACTOME\_APC\_C\_CDC20\_MEDIATED\_DEGRADATION\_OF\_MITOTIC\_PROTEINS;REA

THE\_POSTSYNAPTIC\_CELL;REACTOME\_PLC\_BETA\_MEDIATED\_EVENTS;REACTOME\_G\_ALPHA

\_COMPLEX;REACTOME\_MAP\_KINASE\_ACTIVATION\_IN\_TLR\_CASCADE;REACTOME\_JNK\_C\_JI

\_METABOLISM\_OF\_PROTEINS;REACTOME\_POST\_TRANSLATIONAL\_PROTEIN\_MODIFICATIOI

I\_OF\_IFNA\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IL\_2\_SIGNALING;I

i

REACTOME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSI

\_PHASES;REACTOME\_CHROMOSOME\_MAINTENANCE;REACTOME\_LAGGING\_STRAND\_SYN

MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_GASTRIN\_CREB\_SI





PTION;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONDRIAL\_TRANSCRIPTION;REAC

:DIATED\_TRANSMEMBRANE\_TRANSPORT;REACTOME\_GLUCOSE\_TRANSPORT;REACTOME\_

:EACTOME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSIO  
NSCRIPTION\_FACTOR\_ACTIVATION;REACTOME\_ERKS\_ARE\_INACTIVATED;REACTOME\_ERK



AGE\_NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTO



ME\_PLC\_BETA\_MEDIATED\_EVENTS;REACTOME\_PKA\_MEDIATED\_PHOSPHORYLATION\_OF\_C

DE;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_ DE;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_

\_M\_G1\_TRANSITION;REACTOME\_G1\_S\_TRANSITION;REACTOME\_CDT1\_ASSOCIATION\_WITH

EACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOM

TERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_





ROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_  
.RECEPTOR\_SIGNALING;REACTOME\_NFKB\_AND\_MAP\_KINASES\_ACTIVATION\_MEDIATED\_BY



PEPTIDE\_SLC\_TRANSPORTERS



COL\_HYDROLYSIS;REACTOME\_LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSPORT;REACTC

TERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_  
TERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_

\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM;REACTOME\_ANTIGEN\_PRESENTATION\_FOLD

ON;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME\_INHIBITION\_OF\_INSULIN

1/E\_SIGNALING\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_INSULIN\_RECEPTOR\_SIGNALING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_





S;REACTOME\_GPCR\_LIGAND\_BINDING

PROTEINS\_THAT\_BIND\_AU\_RICH\_ELEMENTS;REACTOME\_DESTABILIZATION\_OF\_MRNA\_BY\_KS

REACTOME\_OPIOID\_SIGNALLING;REACTOME\_CA\_DEPENDENT\_EVENTS;REACTOME\_NEUROTIF

PLICATION;REACTOME\_ACTIVATION\_OF\_ATR\_IN\_RESPONSE\_TO\_REPLICATION\_STRESS;REA





REGULATION

S\_AND\_ORGANIC\_ACIDS\_METAL\_IONS\_AND\_AMINE\_COMPOUNDS;REACTOME\_FACILITATIVI

NG\_STRAND\_SYNTHESIS;REACTOME\_DNA\_REPLICATION;REACTOME\_ACTIVATION\_OF\_ATR

REGULATION\_OF\_WHITE\_ADIPOCYTE\_DIFFERENTIATION

MPLEX\_;REACTOME\_FORMATION\_OF\_TRANSCRIPTION\_COUPLED\_NER\_TC\_NER\_REPAIR\_C  
D\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_ME  
D\_METABOLISM;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_ME

;REACTOME\_PACKAGING\_OF\_TELOMERE\_ENDS;REACTOME\_TELOMERE\_MAINTENANCE

3Y\_INSULIN\_RECEPTOR;REACTOME\_HIV\_INFECTION;REACTOME\_HOST\_INTERACTIONS\_OF

TE\_IMMUNE\_SYSTEM;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN.

SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM





REACTOME\_PROLONGED\_ERK\_ACTIVATION\_EVENTS;REACTOME\_SIGNALLING\_TO\_RAS;REA

3;REACTOME\_TRAF6\_MEDIATED\_INDUCTION\_OF\_NFKB\_AND\_MAP\_KINASES\_UPON\_TLR7\_8

AY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TF



IA\_Q\_SIGNALLING\_EVENTS;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME

EACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOM  
EACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOM

DN\_BY\_REV\_ERBA;REACTOME\_SIGNALING\_BY\_NOTCH1;REACTOME\_REGULATION\_OF\_HYP

INTERACTIONS;REACTOME\_CELL\_JUNCTION\_ORGANIZATION

ME\_APC\_C\_CDC20\_MEDIATED\_DEGRADATION\_OF\_MITOTIC\_PROTEINS;REACTOME\_AUTOD

PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_PI3K\_AKT





EACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOM

PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_PI3K\_AKT

LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSPORT;REACTOME\_LIPOPROTEIN\_METABOLIS  
LIPID\_DIGESTION\_MOBILIZATION\_AND\_TRANSPORT;REACTOME\_LIPOPROTEIN\_METABOLIS

STEM;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_NEUROTRANSMITTER\_RECEPTOR\_B

ME\_TRANSLOCATION\_OF\_ZAP\_70\_TO\_IMMUNOLOGICAL\_SYNAPSE;REACTOME\_GENERATIO

TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOME\_PKB\_MEDIATED\_EVEN

REACTOME\_IL\_6\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNAL

4D\_IN\_SEMAPHORIN\_SIGNALING;REACTOME\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SE

:DIATED\_TRANSMEMBRANE\_TRANSPORT;REACTOME\_GLUCOSE\_TRANSPORT;REACTOME\_

ME\_SIGNALING\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_NGF\_SIGNALLING\_VIA\_TRK

NDING\_INITIATES\_THE\_SECOND\_PROTEOLYTIC\_CLEAVAGE\_OF\_NOTCH\_RECEPTOR;REAC

EACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOM

\_IMMUNE\_SYSTEM

ON;REACTOME\_HEMOSTASIS



SYSTEM;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

ACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN\_PROCESSING\_PRESENTATION

ACTOME\_REGULATION\_OF\_IFNG\_SIGNALING;REACTOME\_INTERFERON\_GAMMA\_SIGNALING;

ACTOME\_PI3K\_CASCADE

TRANSPORTERS;REACTOME\_AMINE\_COMPOUND\_SLC\_TRANSPORTERS;REACTOME\_GABA\_SYN

TH;REACTOME\_SIGNALLING\_TO\_RAS;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_TH





EVENTS;REACTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM  
EVENTS;REACTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_GPCR\_DOWNSTREAM

DING\_TO\_GENERATION\_OF\_SECOND\_MESSENGERS;REACTOME\_SIGNALING\_BY\_THE\_B\_CI

'TOR;REACTOME\_FGFR\_LIGAND\_BINDING\_AND\_ACTIVATION;REACTOME\_FGFR4\_LIGAND\_E  
'TOR;REACTOME\_FGFR\_LIGAND\_BINDING\_AND\_ACTIVATION;REACTOME\_FGFR4\_LIGAND\_E  
'TOR;REACTOME\_FGFR\_LIGAND\_BINDING\_AND\_ACTIVATION;REACTOME\_FGFR4\_LIGAND\_E  
TED\_DECAY\_ENHANCED\_BY\_THE\_EXON\_JUNCTION\_COMPLEX

GNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_

.TED\_DECAY\_ENHANCED\_BY\_THE\_EXON\_JUNCTION\_COMPLEX





D\_SIGNALLING;REACTOME\_CA\_DEPENDENT\_EVENTS;REACTOME\_ADENYLATE\_CYCLASE\_A

ACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH;REACTOME\_HEMOSTASIS;REAC

ECEPTOR\_BCR;REACTOME\_P53\_INDEPENDENT\_G1\_S\_DNA\_DAMAGE\_CHECKPOINT;REACT  
\_M\_G1\_TRANSITION;REACTOME\_G1\_S\_TRANSITION;REACTOME\_CDT1\_ASSOCIATION\_WITH

TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOME\_PKB\_MEDIATED\_EVEN  
TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOME\_PKB\_MEDIATED\_EVEN

:DIATED\_CASCADE;REACTOME\_PI\_3K\_CASCADE;REACTOME\_DOWNSTREAM\_SIGNALING\_C  
:DIATED\_CASCADE;REACTOME\_PI\_3K\_CASCADE;REACTOME\_DOWNSTREAM\_SIGNALING\_C

PEPTIDE\_SLC\_TRANSPORTERS



PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_PI3K\_AKT

;TOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME\_GABA\_SYNTHESIS\_RELEASE\_R

OME\_APOPTOTIC\_EXECUTION\_PHASE

OME\_APOPTOTIC\_EXECUTION\_PHASE

OME\_APOPTOTIC\_EXECUTION\_PHASE

OME\_APOPTOTIC\_EXECUTION\_PHASE

SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM





ECEPTOR\_BCR;REACTOME\_P53\_INDEPENDENT\_G1\_S\_DNA\_DAMAGE\_CHECKPOINT;REACT

ION;REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_

ACTIVATES\_NFKB\_BY\_PHOSPHORYLATION\_AND\_ACTIVATION\_OF\_IKKS\_COMPLEX;REACTC

PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_PI3K\_AKT

THESIS;REACTOME\_INHIBITION\_OF\_REPLICATION\_INITIATION\_OF\_DAMAGED\_DNA\_BY\_RB1

G\_BY\_TGF\_BETA\_RECEPTOR\_COMPLEX

REPAIR;REACTOME\_AUTODEGRADATION\_OF\_THE\_E3\_UBIQUITIN\_LIGASE\_COP1;REACTOM

4D\_IN\_SEMAPHORIN\_SIGNALING;REACTOME\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SE  
4D\_IN\_SEMAPHORIN\_SIGNALING;REACTOME\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SE

ACTOME\_COSTIMULATION\_BY\_THE\_CD28\_FAMILY;REACTOME\_HIV\_INFECTION;REACTOME\_HI

D\_SIGNALLING;REACTOME\_CA\_DEPENDENT\_EVENTS;REACTOME\_ADENYLATE\_CYCLASE\_F

NG\_STRAND\_SYNTHESIS;REACTOME\_DNA\_REPLICATION;REACTOME\_ACTIVATION\_OF\_ATR

ERS;REACTOME\_HEMOSTASIS

IGNALING;REACTOME\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;F

IA\_Q\_SIGNALLING\_EVENTS;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME





ATED\_DECAY\_ENHANCED\_BY\_THE\_EXON\_JUNCTION\_COMPLEX

§\_TRANSCRIPTION;REACTOME\_CIRCADIAN\_REPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA  
§\_TRANSCRIPTION;REACTOME\_CIRCADIAN\_REPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA  
§\_TRANSCRIPTION;REACTOME\_CIRCADIAN\_REPRESSION\_OF\_EXPRESSION\_BY\_REV\_ERBA  
D\_SIGNALLING;REACTOME\_CA\_DEPENDENT\_EVENTS;REACTOME\_ADENYLATE\_CYCLASE\_A



:DIATED\_TRANSMEMBRANE\_TRANSPORT;REACTOME\_GLUCOSE\_TRANSPORT;REACTOME\_  
:DIATED\_TRANSMEMBRANE\_TRANSPORT;REACTOME\_GLUCOSE\_TRANSPORT;REACTOME\_

PATHWAY;REACTOME\_TRANSCRIPTION;REACTOME\_NUCLEOTIDE\_EXCISION\_REPAIR;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

;\_BY\_NOTCH1;REACTOME\_TRANSCRIPTIONAL\_ACTIVITY\_OF\_SMAD2\_SMAD3\_SMAD4\_HETE  
;\_BY\_NOTCH1;REACTOME\_TRANSCRIPTIONAL\_ACTIVITY\_OF\_SMAD2\_SMAD3\_SMAD4\_HETE

E\_SYSTEM;REACTOME\_ACTIVATED\_TLR4\_SIGNALLING;REACTOME\_IMMUNE\_SYSTEM;REAC

TION;REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEURONAL\_

.TED\_DECAY\_ENHANCED\_BY\_THE\_EXON\_JUNCTION\_COMPLEX

CTION;REACTOME\_SIGNALING\_BY\_ILS;REACTOME\_IL\_6\_SIGNALING;REACTOME\_IMMUNE\_S  
CTION;REACTOME\_SIGNALING\_BY\_ILS;REACTOME\_IL\_6\_SIGNALING;REACTOME\_IMMUNE\_S  
CTION;REACTOME\_SIGNALING\_BY\_ILS;REACTOME\_IL\_6\_SIGNALING;REACTOME\_IMMUNE\_S

ACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH;REACTOME\_HEMOSTASIS;REAC



\_PROMOTER\_OPENING;REACTOME\_MRNA\_PROCESSING;REACTOME\_MRNA\_SPLICING;REA

\_SIGNALING\_BY\_GPCR;REACTOME\_GPVI\_MEDIATED\_ACTIVATION\_CASCADE;REACTOME\_G  
1\_SIGNALING;REACTOME\_SIGNALING\_BY\_TGF\_BETA\_RECEPTOR\_COMPLEX



D\_SIGNALLING;REACTOME\_RECRUITMENT\_OF\_MITOTIC\_CENTROSOME\_PROTEINS\_AND\_C

:\_SIGNALING\_BY\_TGF\_BETA\_RECEPTOR\_COMPLEX;REACTOME\_PLATELET\_ACTIVATION\_SI

NER;REACTOME\_SYNTHESIS\_OF\_DNA;REACTOME\_DNA\_REPAIR;REACTOME\_CHROMOSOM  
NER;REACTOME\_SYNTHESIS\_OF\_DNA;REACTOME\_DNA\_REPAIR;REACTOME\_CHROMOSOM  
NER;REACTOME\_SYNTHESIS\_OF\_DNA;REACTOME\_DNA\_REPAIR;REACTOME\_CHROMOSOM



ME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REA  
ME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REA

\_ING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REACTOME\_TAK1\_ACTIVATES\_NFKB\_B'

.ICATION;REACTOME\_ACTIVATION\_OF\_ATR\_IN\_RESPONSE\_TO\_REPLICATION\_STRESS;REA

K\_CHANNELS  
K\_CHANNELS









TERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_

E\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

A\_NON\_LYMPHOID\_CELL;REACTOME\_INTERFERON\_GAMMA\_SIGNALING;REACTOME\_INTER

IGNALING;REACTOME\_DOWNSTREAM\_SIGNALING\_EVENTS\_OF\_B\_CELL\_RECEPTOR\_BCR;F

JN\_KINASES\_PHOSPHORYLATION\_AND\_ACTIVATION\_MEDIATED\_BY\_ACTIVATED\_HUMAN\_T

:\_NEURITE\_OUT\_GROWTH;REACTOME\_NETRIN1\_SIGNALING;REACTOME\_DCC\_MEDIATED\_

CASCADE;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR;REACTOME\_FGFR\_LIGAND\_BIN

4D\_IN\_SEMAPHORIN\_SIGNALING;REACTOME\_SEMAPHORIN\_INTERACTIONS;REACTOME\_SE

OF\_DNA\_REPLICATION;REACTOME\_S\_PHASE

JN\_KINASES\_PHOSPHORYLATION\_AND\_ACTIVATION\_MEDIATED\_BY\_ACTIVATED\_HUMAN\_T

'ATION\_OF\_RAC;REACTOME\_SIGNALING\_BY\_ROBO\_RECEPTOR

ISLATIONAL\_REGULATION;REACTOME\_METABOLISM\_OF\_MRNA;REACTOME\_METABOLISM\_I

\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM;REACTOME\_ANTIGEN\_PRESENTATION\_FOLD

\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM



ACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS;RI

ME\_APC\_C\_CDC20\_MEDIATED\_DEGRADATION\_OF\_MITOTIC\_PROTEINS;REACTOME\_AUTOD

F\_IFNG\_SIGNALING;REACTOME\_INTERFERON\_GAMMA\_SIGNALING;REACTOME\_INTERFERO

:AGE\_NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTOR\_MEDIATED\_SIGNALLING;REACTO





1\_OF\_LIPIDS\_AND\_LIPOPOTEINS

\_TYPE\_3\_PROMOTER;REACTOME\_HIV\_INFECTON;REACTOME\_HIV\_LIFE\_CYCLE;REACTOME

\_THROMBOXANE\_SIGNALLING\_THROUGH\_TP\_RECEPTOR;REACTOME\_THROMBIN\_SIGNALI

GULATION;REACTOME\_AXON\_GUIDANCE;REACTOME\_LYSOSOME\_VESICLE\_BIOGENESIS;R

SIGNALING\_BY\_ROBO\_RECEPTOR;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES

\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM;REACTOME\_ANTIGEN\_PRESENTATION\_FOLD

REPAIR;REACTOME\_AUTODEGRADATION\_OF\_THE\_E3\_UBIQUITIN\_LIGASE\_COP1;REACTOM

ME\_SIGNALING\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_INSULIN\_RECEPTOR\_SIGNALI





:DIATED\_TRANSMEMBRANE\_TRANSPORT;REACTOME\_GLUCOSE\_TRANSPORT;REACTOME\_



.TED\_DECAY\_ENHANCED\_BY\_THE\_EXON\_JUNCTION\_COMPLEX

TERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_I

IATED\_CASCADE;REACTOME\_SHC\_MEDIATED\_CASCADE;REACTOME\_SIGNALING\_BY\_INSUL

S\_AND\_LIPOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_

IN\_INTERACTIONS;REACTOME\_SEMAPHORIN\_INTERACTIONS;REACTOME\_CELL\_EXTRACEL

CTOME\_MITOTIC\_PROMETAPHASE;REACTOME\_APC\_CDC20\_MEDIATED\_DEGRADATION\_OF

-IA\_Q\_SIGNALLING\_EVENTS;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME

JN\_KINASES\_PHOSPHORYLATION\_AND\_ACTIVATION\_MEDIATED\_BY\_ACTIVATED\_HUMAN\_T

N;REACTOME\_SIGNALING\_BY\_NOTCH;REACTOME\_METABOLISM\_OF\_CARBOHYDRATES

REACTOME\_IL\_6\_SIGNALING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNAL

ON\_IN\_THE\_POSTSYNAPTIC\_CELL;REACTOME\_G\_ALPHA1213\_SIGNALLING\_EVENTS;REACT

THESIS;REACTOME\_INHIBITION\_OF\_REPLICATION\_INITIATION\_OF\_DAMAGED\_DNA\_BY\_RB1

GNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_





;TOME\_SIGNALING\_BY\_NOTCH;REACTOME\_RNA\_POL\_I\_TRANSCRIPTION\_INITIATION

.METABOLISM\_OF\_RNA;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_METABOLISM\_OF

ON\_IN\_THE\_POSTSYNAPTIC\_CELL;REACTOME\_PLC\_BETA\_MEDIATED\_EVENTS;REACTOME\_  
\_MAPK\_TARGETS;REACTOME\_GLYCOLYSIS;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_



ME\_TAK1\_ACTIVATES\_NFKB\_BY\_PHOSPHORYLATION\_AND\_ACTIVATION\_OF\_IKKS\_COMPLE



;REB;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_GL

\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_PI3K\_AKT\_ACTIVATION;REACTOME\_GAB1\_  
\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_PI3K\_AKT\_ACTIVATION;REACTOME\_GAB1\_

I\_THE\_CDC6\_ORC\_ORIGIN\_COMPLEX;REACTOME\_SYNTHESIS\_OF\_DNA;REACTOME\_MITOTI

E\_CIRCADIAN\_CLOCK;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYT

THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_PHO





WHITE\_ADIPOCYTE\_DIFFERENTIATION;REACTOME\_SIGNALING\_BY\_NOTCH;REACTOME\_SIK  
/\_TLR4\_SIGNALING\_REPERTOIRE;REACTOME\_RIG\_I\_MDA5\_MEDIATED\_INDUCTION\_OF\_IFN.







HOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_PHO  
THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_PHO

ING\_ASSEMBLY\_AND\_PEPTIDE\_LOADING\_OF\_CLASS\_I\_MHC;REACTOME\_CLASS\_I\_MHC\_ME

↓\_SECRETION\_BY\_ADRENALINE\_NORADRENALINE;REACTOME\_GPCR\_DOWNSTREAM\_SIGN

LLING\_CASCADE;REACTOME\_ARMS\_MEDIATED\_ACTIVATION;REACTOME\_PROLONGED\_ERK  
\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_OPIOID\_SIGNALLING;REACTOME\_PI





RP;REACTOME\_DESTABILIZATION\_OF\_MRNA\_BY\_TRISTETRAPROLIN\_TTP

RANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYN

CTOME\_UNWINDING\_OF\_DNA;REACTOME\_G2\_M\_CHECKPOINTS;REACTOME\_S\_PHASE;RE/





E\_NA\_INDEPENDENT\_GLUCOSE\_TRANSPORTERS;REACTOME\_GLUCOSE\_TRANSPORT;REA

\_IN\_RESPONSE\_TO\_REPLICATION\_STRESS;REACTOME\_TELOMERE\_MAINTENANCE;REACT

OMPLEX;REACTOME\_RNA\_POL\_I\_RNA\_POL\_III\_AND\_MITOCHONDRIAL\_TRANSCRIPTION;RE

:TABOLISM\_OF\_CARBOHYDRATES

:TABOLISM\_OF\_CARBOHYDRATES

:\_HIV\_FACTORS;REACTOME\_THE\_ROLE\_OF\_NEF\_IN\_HIV1\_REPLICATION\_AND\_DISEASE\_PA

\_IMMUNE\_SYSTEM





CTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNAL

\_OR\_9\_ACTIVATION;REACTOME\_NFKB\_AND\_MAP\_KINASES\_ACTIVATION\_MEDIATED\_BY\_TL

ACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM;REACTOME\_CIRCADIAN\_CLOCK;REA



E\_REGULATION\_OF\_INSULIN\_SECRETION\_BY\_ACETYLCHOLINE;REACTOME\_G\_BETA\_GAMM

E\_CIRCADIAN\_CLOCK;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYT  
E\_CIRCADIAN\_CLOCK;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYT

OXIA\_INDUCIBLE\_FACTOR\_HIF\_BY\_OXYGEN;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIF



EGRADATION\_OF\_CDH1\_BY\_CDH1\_APC\_C;REACTOME\_APC\_C\_CDC20\_MEDIATED\_DEGRAD

\_ACTIVATION;REACTOME\_GAB1\_SIGNALOSOME;REACTOME\_SIGNALING\_BY\_PDGF;REACTC





E\_CIRCADIAN\_CLOCK;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYT

\_ACTIVATION;REACTOME\_AKT\_PHOSPHORYLATES\_TARGETS\_IN\_THE\_CYTOSOL;REACTOM

3M;REACTOME\_CHYLOMICRON\_MEDIATED\_LIPID\_TRANSPORT;REACTOME\_AMYLOIDS  
3M;REACTOME\_CHYLOMICRON\_MEDIATED\_LIPID\_TRANSPORT;REACTOME\_AMYLOIDS

INDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAPTIC\_CELL;REACTOME\_A

IN\_OF\_SECOND\_MESSENGER\_MOLECULES;REACTOME\_GPVI\_MEDIATED\_ACTIVATION\_CAS

TS;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR;REACTOME\_PI3K\_CASCADE

.ING\_IN\_IMMUNE\_SYSTEM

MA4D\_INDUCED\_CELL\_MIGRATION\_AND\_GROWTH\_CONE\_COLLAPSE

.METABOLISM\_OF\_RNA;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_METABOLISM\_OF

A\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTO

TOME\_SIGNALING\_BY\_NOTCH;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNA

E\_CIRCADIAN\_CLOCK;REACTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYT





REACTOME\_INTERFERON\_ALPHA\_BETA\_SIGNALING;REACTOME\_REGULATION\_OF\_IFNA\_SI

SYNTHESIS\_RELEASE\_REUPTAKE\_AND\_DEGRADATION

PLASMA\_MEMBRANE;REACTOME\_SIGNALLING\_TO\_ERKS;REACTOME\_SIGNALING\_BY\_FC





W\_SIGNALING;REACTOME\_NETRIN1\_SIGNALING;REACTOME\_DCC\_MEDIATED\_ATTRACTIVE\_  
W\_SIGNALING;REACTOME\_NETRIN1\_SIGNALING;REACTOME\_DCC\_MEDIATED\_ATTRACTIVE\_

ELL\_RECEPTOR\_BCR;REACTOME\_INSULIN\_RECEPTOR\_SIGNALLING\_CASCADE;REACTOME

BINDING\_AND\_ACTIVATION;REACTOME\_SIGNALING\_BY\_FGFR;REACTOME\_PI3K\_CASCADE  
BINDING\_AND\_ACTIVATION;REACTOME\_SIGNALING\_BY\_FGFR;REACTOME\_PI3K\_CASCADE  
BINDING\_AND\_ACTIVATION;REACTOME\_SIGNALING\_BY\_FGFR;REACTOME\_PI3K\_CASCADE

\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_OPIOID\_SIGNALLING;REACTOME\_PI



IFKB\_AND\_MAP\_KINASES\_ACTIVATION\_MEDIATED\_BY\_TLR4\_SIGNALING\_REPERTOIRE;REA

ACTIVATING\_PATHWAY;REACTOME\_ADENYLATE\_CYCLASE\_INHIBITORY\_PATHWAY;REACTC

ACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

OME\_CDK\_MEDIATED\_PHOSPHORYLATION\_AND\_REMOVAL\_OF\_CDC6;REACTOME\_METABOLISM\_OF\_CDC6\_ORC\_ORIGIN\_COMPLEX;REACTOME\_SYNTHESIS\_OF\_DNA;REACTOME\_MITOTIC\_CELL\_CYCLE

TS;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR;REACTOME\_PI3K\_CASCADE  
TS;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR;REACTOME\_PI3K\_CASCADE

MF\_ACTIVATED\_FGFR;REACTOME\_PHOSPHOLIPASE\_C\_MEDIATED\_CASCADE;REACTOME\_SI  
MF\_ACTIVATED\_FGFR;REACTOME\_PHOSPHOLIPASE\_C\_MEDIATED\_CASCADE;REACTOME\_SI





\_ACTIVATION;REACTOME\_GAB1\_SIGNALOSOME;REACTOME\_SIGNALING\_BY\_PDGF;REACTO

EUPTAKE\_AND\_DEGRADATION





OME\_CDK\_MEDIATED\_PHOSPHORYLATION\_AND\_REMOVAL\_OF\_CDC6;REACTOME\_METABC

\_SYSTEM;REACTOME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TR

ME\_GPCR\_LIGAND\_BINDING;REACTOME\_TRAF6\_MEDIATED\_NFKB\_ACTIVATION;REACTOME

\_ACTIVATION;REACTOME\_AKT\_PHOSPHORYLATES\_TARGETS\_IN\_THE\_CYTOSOL;REACTOME

\_E2F1;REACTOME\_DNA\_REPLICATION;REACTOME\_E2F\_MEDIATED\_REGULATION\_OF\_DNA\_

IE\_DNA\_REPAIR;REACTOME\_MEIOTIC\_RECOMBINATION;REACTOME\_G2\_M\_CHECKPOINTS;I

MA4D\_INDUCED\_CELL\_MIGRATION\_AND\_GROWTH\_CONE\_COLLAPSE  
MA4D\_INDUCED\_CELL\_MIGRATION\_AND\_GROWTH\_CONE\_COLLAPSE

V\_LIFE\_CYCLE;REACTOME\_EARLY\_PHASE\_OF\_HIV\_LIFE\_CYCLE;REACTOME\_HOST\_INTERA

ACTIVATING\_PATHWAY;REACTOME\_ADENYLATE\_CYCLASE\_INHIBITORY\_PATHWAY;REACTC

!\_IN\_RESPONSE\_TO\_REPLICATION\_STRESS;REACTOME\_TELOMERE\_MAINTENANCE;REACT



REACTOME\_SIGNALING\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_NGF\_SIGNALLING\_V

REGULATION\_OF\_INSULIN\_SECRETION\_BY\_ACETYLCHOLINE;REACTOME\_G\_BETA\_GAMM





;REACTOME\_SIGNALING\_BY\_NOTCH1;REACTOME\_REGULATION\_OF\_HYPOXIA\_INDUCIBLE\_  
;REACTOME\_SIGNALING\_BY\_NOTCH1;REACTOME\_REGULATION\_OF\_HYPOXIA\_INDUCIBLE\_  
;REACTOME\_SIGNALING\_BY\_NOTCH1;REACTOME\_REGULATION\_OF\_HYPOXIA\_INDUCIBLE\_  
ACTIVATING\_PATHWAY;REACTOME\_ADENYLATE\_CYCLASE\_INHIBITORY\_PATHWAY;REACTC



.METABOLISM\_OF\_RNA;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_METABOLISM\_OF  
.METABOLISM\_OF\_RNA;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_METABOLISM\_OF

OME\_FORMATION\_OF\_RNA\_POL\_II\_ELONGATION\_COMPLEX\_;REACTOME\_ELONGATION\_AF

ROTRIMER;REACTOME\_DOWNREGULATION\_OF\_SMAD2\_3\_SMAD4\_TRANSCRIPTIONAL\_ACT  
ROTRIMER;REACTOME\_DOWNREGULATION\_OF\_SMAD2\_3\_SMAD4\_TRANSCRIPTIONAL\_ACT

CTOME\_TOLL\_RECEPTOR\_CASCADES

\_SYSTEM;REACTOME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TR

SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM  
SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM  
SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION



CTOME\_MRNA\_SPLICING\_MINOR\_PATHWAY;REACTOME\_TRANSCRIPTION;REACTOME\_NUC

}\_ALPHA1213\_SIGNALLING\_EVENTS;REACTOME\_CD28\_CO\_STIMULATION;REACTOME\_GPCF



OMPLEXES;REACTOME\_CA\_DEPENDENT\_EVENTS;REACTOME\_DARPP\_32\_EVENTS;REACTC

GNALING\_AND\_AGGREGATION

1E\_MAINTENANCE;REACTOME\_GLOBAL\_GENOMIC\_NER\_GG\_NER;REACTOME\_LAGGING\_ST  
1E\_MAINTENANCE;REACTOME\_GLOBAL\_GENOMIC\_NER\_GG\_NER;REACTOME\_LAGGING\_ST  
1E\_MAINTENANCE;REACTOME\_GLOBAL\_GENOMIC\_NER\_GG\_NER;REACTOME\_LAGGING\_ST



CTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS;REACTOME\_G\_ALPHA\_Z\_SIGNALLING\_EVENTS;F  
CTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS;REACTOME\_G\_ALPHA\_Z\_SIGNALLING\_EVENTS;F

Y\_PHOSPHORYLATION\_AND\_ACTIVATION\_OF\_IKKS\_COMPLEX;REACTOME\_GPCR\_LIGAND\_I

CTOME\_UNWINDING\_OF\_DNA;REACTOME\_G2\_M\_CHECKPOINTS;REACTOME\_S\_PHASE;RE/











THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_PHO

IFERON\_ALPHA\_BETA\_SIGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_HIV\_I

REACTOME\_SIGNALING\_BY\_THE\_B\_CELL\_RECEPTOR\_BCR;REACTOME\_NGF\_SIGNALLING\_V

AK1;REACTOME\_ACTIVATED\_TAK1\_MEDIATES\_P38\_MAPK\_ACTIVATION;REACTOME\_SIGNAL

ATTRACTIVE\_SIGNALING;REACTOME\_SIGNAL\_REGULATORY\_PROTEIN\_SIRP\_FAMILY\_INTEF

NDING\_AND\_ACTIVATION;REACTOME\_FGFR2C\_LIGAND\_BINDING\_AND\_ACTIVATION;REACTC

MA4D\_INDUCED\_CELL\_MIGRATION\_AND\_GROWTH\_CONE\_COLLAPSE

TAK1;REACTOME\_ACTIVATED\_TAK1\_MEDIATES\_P38\_MAPK\_ACTIVATION;REACTOME\_SIGNAL

OF\_RNA;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_INFLUENZA\_VIRAL\_RNA\_TRANS(

ING\_ASSEMBLY\_AND\_PEPTIDE\_LOADING\_OF\_CLASS\_I\_MHC;REACTOME\_CLASS\_I\_MHC\_ME





EACTOME\_G\_ALPHA\_Z\_SIGNALLING\_EVENTS;REACTOME\_SIGNAL\_AMPLIFICATION;REACTC

EGRADATION\_OF\_CDH1\_BY\_CDH1\_APC\_C;REACTOME\_APC\_C\_CDC20\_MEDIATED\_DEGRAD

IN\_SIGNALING;REACTOME\_IL\_2\_SIGNALING;REACTOME\_IL\_6\_SIGNALING;REACTOME\_HEMC

ME\_TAK1\_ACTIVATES\_NFKB\_BY\_PHOSPHORYLATION\_AND\_ACTIVATION\_OF\_IKKS\_COMPLE





Ξ\_LATE\_PHASE\_OF\_HIV\_LIFE\_CYCLE

ΛING\_THROUGH\_PROTEINASE\_ACTIVATED\_RECEPTORS\_PARS;REACTOME\_HEMOSTASIS;R

EACTOME\_GOLGI\_ASSOCIATED\_VESICLE\_BIOGENESIS;REACTOME\_L1CAM\_INTERACTIONS

ING\_ASSEMBLY\_AND\_PEPTIDE\_LOADING\_OF\_CLASS\_I\_MHC;REACTOME\_CLASS\_I\_MHC\_ME

IE\_DNA\_REPAIR;REACTOME\_MEIOTIC\_RECOMBINATION;REACTOME\_G2\_M\_CHECKPOINTS;I

LLING\_CASCADE;REACTOME\_ARMS\_MEDIATED\_ACTIVATION;REACTOME\_PROLONGED\_ERF





.METABOLISM\_OF\_RNA;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_METABOLISM\_OF



THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_PHO

\_IN\_RECEPTOR;REACTOME\_FGFR\_LIGAND\_BINDING\_AND\_ACTIVATION;REACTOME\_FGFR2C

\_METABOLISM

.LULAR\_MATRIX\_INTERACTIONS;REACTOME\_CELL\_JUNCTION\_ORGANIZATION;REACTOME\_

\_NEK2A

REGULATION\_OF\_INSULIN\_SECRETION\_BY\_ACETYLCHOLINE;REACTOME\_G\_BETA\_GAMMA

ACTIVATED\_TAK1\_MEDIATES\_P38\_MAPK\_ACTIVATION;REACTOME\_SIGNALING

.ING\_IN\_IMMUNE\_SYSTEM

ACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_RAS\_ACTIVATION\_UOPN\_CA2\_INFUX\_

\_E2F1;REACTOME\_DNA\_REPLICATION;REACTOME\_E2F\_MEDIATED\_REGULATION\_OF\_DNA\_

\_INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_OPIOID\_SIGNALLING;REACTOME\_PI





\_CARBOHYDRATES;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_NEP\_NS2\_INTERACT

SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REACTOME\_AC  
INTEGRATION\_OF\_ENERGY\_METABOLISM;REACTOME\_CELL\_CYCLE\_MITOTIC;REACTOME\_



EX;REACTOME\_MAP\_KINASE\_ACTIVATION\_IN\_TLR\_CASCADE;REACTOME\_JNK\_C\_JUN\_KINASE



.UCAGON\_SIGNALING\_IN\_METABOLIC\_REGULATION;REACTOME\_SIGNALING\_BY\_PDGF;REA

SIGNALOSOME;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRA  
SIGNALOSOME;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRA

IC\_G1\_G1\_S\_PHASES;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_ASSEMBLY\_OF\_

T\_E\_DIFFERENTIATION

SPHOLIPID\_METABOLISM;REACTOME\_GASTRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AI





3NALING\_BY\_TGF\_BETA\_RECEPTOR\_COMPLEX  
\_ALPHA\_BETA\_PATHWAYS;REACTOME\_APOPTOSIS;REACTOME\_MYD88\_MAL\_CASCADE\_INI







SPHOLIPID\_METABOLISM;REACTOME\_GASTRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AI  
SPHOLIPID\_METABOLISM;REACTOME\_GASTRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AI

DIATED\_ANTIGEN\_PROCESSING\_PRESENTATION

IGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;REACTOME\_G\_ALPHA\_S\_SIGNALLING

<\_ACTIVATION\_EVENTS;REACTOME\_SIGNALLING\_TO\_RAS;REACTOME\_CELL\_SURFACE\_INT  
LC\_BETA\_MEDIATED\_EVENTS;REACTOME\_ELEVATION\_OF\_CYTOSOLIC\_CA2\_LEVELS;REAC





√APTIC\_CELL;REACTOME\_PLC\_BETA\_MEDIATED\_EVENTS;REACTOME\_SIGNALING\_BY\_PDG

√ACTOME\_DNA\_STRAND\_ELONGATION





CTOME\_METABOLISM\_OF\_CARBOHYDRATES

OME\_EXTENSION\_OF\_TELOMERES;REACTOME\_G2\_M\_CHECKPOINTS;REACTOME\_S\_PHAS

ACTOME\_DNA\_REPAIR;REACTOME\_RNA\_POL\_II\_PRE\_TRANSCRIPTION\_EVENTS;REACTOME

.THOGENESIS







LLING\_TO\_ERKS;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_SIGNALLING\_1

.R4\_SIGNALING\_REPERTOIRE;REACTOME\_MYD88\_MAL\_CASCADE\_INITIATED\_ON\_PLASMA\_

CTOME\_TRANSCRIPTIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYTE\_DIFFERENTIATION



1A\_SIGNALLING\_THROUGH\_PLC\_BETA;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REAC

T\_E\_DIFFERENTIATION  
T\_E\_DIFFERENTIATION

P0PROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOL



PHOSPHORYLATION\_OF\_CYCLIN\_B;REACTOME\_CONVERSION\_FROM\_APC\_C\_CDC20\_TO\_APC\_C\_CDH1\_I

OME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REACTOME\_CD28\_CO\_STIMULATION;REACTO





TE\_DIFFERENTIATION

1E\_GAB1\_SIGNALOSOME;REACTOME\_REGULATION\_OF\_APOPTOSIS;REACTOME\_SIGNALING

XON\_GUIDANCE;REACTOME\_ACTIVATION\_OF\_NMDA\_RECEPTOR\_UPON\_Glutamate\_BINDING

ICADE;REACTOME\_CD28\_CO-STIMULATION;REACTOME\_CD28\_DEPENDENT\_VAV1\_PATHWAY



=\_CARBOHYDRATES;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_NEP\_NS2\_INTERACT

OME\_NEGATIVE\_REGULATION\_OF\_THE\_PI3K\_AKT\_NETWORK;REACTOME\_PI3K\_AKT\_ACTIV

ALING\_IN\_IMMUNE\_SYSTEM

TE\_DIFFERENTIATION





IGNALING;REACTOME\_INTERFERON\_SIGNALING;REACTOME\_IL\_6\_SIGNALING;REACTOME\_I

;FR\_IN\_DISEASE;REACTOME\_SIGNALLING\_TO\_P38\_VIA\_RIT\_AND\_RIN;REACTOME\_GASTRIN





\_SIGNALING  
\_SIGNALING

\_CELL\_SURFACE\_INTERACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_NGF\_SIGNALLING



LC\_BETA\_MEDIATED\_EVENTS;REACTOME\_ELEVATION\_OF\_CYTOSOLIC\_CA2\_LEVELS;REAC





ME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_

OLISM\_OF\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_REGULATION\_OF\_ORNITHINE\_DE  
IC\_G1\_G1\_S\_PHASES;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;REACTOME\_ASSEMBLY\_OF\_

HC\_MEDIATED\_CASCADE;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_SIGNAL\_TRANSD  
HC\_MEDIATED\_CASCADE;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_SIGNAL\_TRANSD





OME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REACTOME\_CD28\_CO\_STIMULATION;REACTO





OLISM\_OF\_AMINO\_ACIDS\_AND\_DERIVATIVES;REACTOME\_REGULATION\_OF\_ORNITHINE\_DE

ANSMISSION\_IN\_THE\_POSTSYNAPTIC\_CELL;REACTOME\_AXON\_GUIDANCE;REACTOME\_TR.

Ξ\_TRAF6\_MEDIATED\_INDUCION\_OF\_NFKB\_AND\_MAP\_KINASES\_UPON\_TLR7\_8\_OR\_9\_ACTI

1E\_GAB1\_SIGNALOSOME;REACTOME\_NRAGE\_SIGNALS\_DEATH\_THROUGH\_JNK;REACTOME

\_REPLICATION;REACTOME\_TELOMERE\_MAINTENANCE;REACTOME\_EXTENSION\_OF\_TELOM

REACTOME\_G2\_M\_DNA\_DAMAGE\_CHECKPOINT

CTIONS\_OF\_HIV\_FACTORS;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_THE\_ROLE\_

ME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_

OME\_EXTENSION\_OF\_TELOMERES;REACTOME\_G2\_M\_CHECKPOINTS;REACTOME\_S\_PHAS



/1A\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE

1A\_SIGNALLING\_THROUGH\_PLC\_BETA;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REAC





FACTOR\_HIF\_BY\_OXYGEN;REACTOME\_GENERIC\_TRANSCRIPTION\_PATHWAY;REACTOME\_I  
FACTOR\_HIF\_BY\_OXYGEN;REACTOME\_GENERIC\_TRANSCRIPTION\_PATHWAY;REACTOME\_I  
FACTOR\_HIF\_BY\_OXYGEN;REACTOME\_GENERIC\_TRANSCRIPTION\_PATHWAY;REACTOME\_I  
ME\_NEUROTRANSMITTER\_RECEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_



=\_CARBOHYDRATES;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_NEP\_NS2\_INTERACT  
=\_CARBOHYDRATES;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_NEP\_NS2\_INTERACT

REST\_AND\_RECOVERY;REACTOME\_FORMATION\_OF\_TRANSCRIPTION\_COUPLED\_NER\_TC

IVITY;REACTOME\_GENERIC\_TRANSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIF  
IVITY;REACTOME\_GENERIC\_TRANSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIF

ANSMISSION\_IN\_THE\_POSTSYNAPTIC\_CELL;REACTOME\_AXON\_GUIDANCE;REACTOME\_TR,





LEOTIDE\_EXCISION\_REPAIR;REACTOME\_FORMATION\_OF\_RNA\_POL\_II\_ELONGATION\_COM

\_DOWNSTREAM\_SIGNALING;REACTOME\_CD28\_DEPENDENT\_VAV1\_PATHWAY;REACTOME\_



OME\_LOSS\_OF\_NLP\_FROM\_MITOTIC\_CENTROSOMES;REACTOME\_PLG\_BETA\_MEDIATED\_E\

RAND\_SYNTHESIS;REACTOME\_DNA\_REPLICATION;REACTOME\_TELOMERE\_MAINTENANCE;  
RAND\_SYNTHESIS;REACTOME\_DNA\_REPLICATION;REACTOME\_TELOMERE\_MAINTENANCE;  
RAND\_SYNTHESIS;REACTOME\_DNA\_REPLICATION;REACTOME\_TELOMERE\_MAINTENANCE;

A\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALLING\_TO\_ERKS;REACTOME\_SIGNA

REACTOME\_GPCR\_LIGAND\_BINDING;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_AG  
REACTOME\_GPCR\_LIGAND\_BINDING;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_AG

BINDING;REACTOME\_TRAF6\_MEDIATED\_NFKB\_ACTIVATION;REACTOME\_TRAF6\_MEDIATED\_

ACTOME\_DNA\_STRAND\_ELONGATION











SPHOLIPID\_METABOLISM;REACTOME\_GASTRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AI

NFECTON;REACTOME\_HOST\_INTERACTIONS\_OF\_HIV\_FACTORS;REACTOME\_THE\_ROLE\_O

/IA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE

LING\_BY\_ILS;REACTOME\_IL1\_SIGNALING;REACTOME\_IRAK1\_RECRUITS\_IKK\_COMPLEX;REA

REACTIONS;REACTOME\_PLATELET\_AGGREGATION\_PLUG\_FORMATION;REACTOME\_APOPTO

ME\_SIGNALING\_BY\_FGFR;REACTOME\_PI3K\_CASCADE

LING\_BY\_ILS;REACTOME\_IL1\_SIGNALING;REACTOME\_IRAK1\_RECRUITS\_IKK\_COMPLEX;REA

DESCRIPTION\_AND\_REPLICATION;REACTOME\_NONSENSE\_MEDIATED\_DECAY\_ENHANCED\_BY\_

MEDIATED\_ANTIGEN\_PROCESSING\_PRESENTATION





ME\_ADP\_SIGNALLING\_THROUGH\_P2RY12;REACTOME\_GABA\_B\_RECEPTOR\_ACTIVATION;R

ATION\_OF\_CYCLIN\_B;REACTOME\_CONVERSION\_FROM\_APC\_C\_CDC20\_TO\_APC\_C\_CDH1\_I

OSTASIS;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SY:

:X;REACTOME\_MAP\_KINASE\_ACTIVATION\_IN\_TLR\_CASCADE;REACTOME\_JNK\_C\_JUN\_KINA:





!EACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

;REACTOME\_SIGNAL\_TRANSDUCTION\_BY\_L1;REACTOME\_RECYCLING\_PATHWAY\_OF\_L1;RI

DIATED\_ANTIGEN\_PROCESSING\_PRESENTATION

REACTOME\_G2\_M\_DNA\_DAMAGE\_CHECKPOINT

<\_ACTIVATION\_EVENTS;REACTOME\_SIGNALLING\_TO\_RAS;REACTOME\_CELL\_SURFACE\_INT





=\_CARBOHYDRATES;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_NEP\_NS2\_INTERACT



SPHOLIPID\_METABOLISM;REACTOME\_GASTRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AI

C\_LIGAND\_BINDING\_AND\_ACTIVATION;REACTOME\_FGFR4\_LIGAND\_BINDING\_AND\_ACTIVAT

.L1CAM\_INTERACTIONS;REACTOME\_SIGNAL\_TRANSDUCTION\_BY\_L1;REACTOME\_HEMOSTA

1A\_SIGNALLING\_THROUGH\_PLC\_BETA;REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REAC

LING\_BY\_ILS;REACTOME\_IL1\_SIGNALING;REACTOME\_IRAK1\_RECRUITS\_IKK\_COMPLEX;REA

.THROUGH\_NMDA\_RECEPTOR;REACTOME\_ACTIVATION\_OF\_NMDA\_RECEPTOR\_UPON\_GLU

\_REPLICATION;REACTOME\_TELOMERE\_MAINTENANCE;REACTOME\_EXTENSION\_OF\_TELOM

LC\_BETA\_MEDIATED\_EVENTS;REACTOME\_ELEVATION\_OF\_CYTOSOLIC\_CA2\_LEVELS;REAC





'S\_WITH\_THE\_CELLULAR\_EXPORT\_MACHINERY;REACTOME\_HIV\_INFECTION;REACTOME\_TI

STIVATION\_OF\_NMDA\_RECEPTOR\_UPON\_Glutamate\_BINDING\_AND\_POSTSYNAPTIC\_EVE  
\_OPIOID\_SIGNALLING;REACTOME\_DARPP\_32\_EVENTS;REACTOME\_G1\_PHASE;REACTOME\_C



SES\_PHOSPHORYLATION\_AND\_ACTIVATION\_MEDIATED\_BY\_ACTIVATED\_HUMAN\_TAK1;REA



.CTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REACTOME\_REGULATION\_OF\_INSULIN\_S

INDUCTION;REACTOME\_CD28\_CO\_STIMULATION;REACTOME\_COSTIMULATION\_BY\_THE\_C  
INDUCTION;REACTOME\_CD28\_CO\_STIMULATION;REACTOME\_COSTIMULATION\_BY\_THE\_C

THE\_PRE\_REPLICATIVE\_COMPLEX;REACTOME\_DNA\_REPLICATION;REACTOME\_E2F\_MEDIA

ND\_MAPK;REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;REACTOME\_SYNTHESIS\_OF\_PIPS\_





INITIATED\_ON\_PLASMA\_MEMBRANE;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_ACTI







ND\_MAPK;REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;REACTOME\_SYNTHESIS\_OF\_PIPS.  
ND\_MAPK;REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;REACTOME\_SYNTHESIS\_OF\_PIPS.

;-EVENTS;REACTOME\_G\_ALPHA\_Z\_SIGNALLING\_EVENTS;REACTOME\_SIGNAL\_AMPLIFICATI

REACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_T  
TOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REACTC





F;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REACTOME\_TRAFFICKING\_OF\_AMF





E;REACTOME\_DNA\_STRAND\_ELONGATION

≡\_GLOBAL\_GENOMIC\_NER\_GG\_NER;REACTOME\_FORMATION\_OF\_INCISION\_COMPLEX\_IN\_()









RO\_P38\_VIA\_RIT\_AND\_RIN;REACTOME\_GASTRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_A

MEMBRANE;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_ACTIVATED\_TLR4\_SIGNALL









N\_LATE\_ANAPHASE;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_PHOSPHORYLATION\_OF\_TI

OME\_COSTIMULATION\_BY\_THE\_CD28\_FAMILY;REACTOME\_CD28\_DEPENDENT\_PI3K\_AKT\_SI







3\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REACTOME\_PI\_3K\_CASC.

ING\_AND\_POSTSYNAPTIC\_EVENTS;REACTOME\_CREB\_PHOSPHORYLATION\_THROUGH\_TH

Y;REACTOME\_PD1\_SIGNALING;REACTOME\_COSTIMULATION\_BY\_THE\_CD28\_FAMILY;REAC



'S\_WITH\_THE\_CELLULAR\_EXPORT\_MACHINERY;REACTOME\_HIV\_INFECTION;REACTOME\_TI

ATION;REACTOME\_AKT\_PHOSPHORYLATES\_TARGETS\_IN\_THE\_CYTOSOL;REACTOME\_GAB





MMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

I\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SHC1\_EVENTS\_IN\_EGFR







3\_VIA\_TRKA\_FROM\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEA



TOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REACTC





THE\_POSTSYNAPTIC\_CELL;REACTOME\_PLC\_BETA\_MEDIATED\_EVENTS;REACTOME\_PKA\_M

CARBOXYLASE\_ODC;REACTOME\_REGULATION\_OF\_APOPTOSIS;REACTOME\_CELL\_CYCLE\_  
THE\_PRE\_REPLICATIVE\_COMPLEX;REACTOME\_DNA\_REPLICATION;REACTOME\_E2F\_MEDIA

DUCTION\_BY\_L1;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR;REACTOME\_FGFR\_LIGAN  
DUCTION\_BY\_L1;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR;REACTOME\_FGFR\_LIGAN





DME\_COSTIMULATION\_BY\_THE\_CD28\_FAMILY;REACTOME\_CD28\_DEPENDENT\_PI3K\_AKT\_SI





CARBOXYLASE\_ODC;REACTOME\_REGULATION\_OF\_APOPTOSIS;REACTOME\_CELL\_CYCLE\_

AFFICKING\_OF\_AMPA\_RECEPTORS;REACTOME\_TRAFFICKING\_OF\_GLUR2\_CONTAINING\_AM

IVATION;REACTOME\_ADVANCED\_GLYCOSYLATION\_ENDPRODUCT\_RECEPTOR\_SIGNALING;

\_CELL\_DEATH\_SIGNALLING\_VIA\_NRAGE\_NRIF\_AND\_NADE;REACTOME\_P75\_NTR\_RECEPTC

IERES;REACTOME\_S\_PHASE;REACTOME\_DNA\_STRAND\_ELONGATION

.OF\_NEF\_IN\_HIV1\_REPLICATION\_AND\_DISEASE\_PATHOGENESIS;REACTOME\_IMMUNE\_SYS`

THE\_POSTSYNAPTIC\_CELL;REACTOME\_PLC\_BETA\_MEDIATED\_EVENTS;REACTOME\_PKA\_M

E;REACTOME\_DNA\_STRAND\_ELONGATION



;REACTOME\_ENOS\_ACTIVATION\_AND\_REGULATION;REACTOME\_NEGATIVE\_REGULATION\_!

;TOME\_G\_PROTEIN\_BETA\_GAMMA\_SIGNALLING;REACTOME\_ACTIVATION\_OF\_KAINATE\_RE





NOTCH\_HLH\_TRANSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOF  
NOTCH\_HLH\_TRANSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOF  
NOTCH\_HLH\_TRANSCRIPTION\_PATHWAY;REACTOME\_METABOLISM\_OF\_LIPIDS\_AND\_LIPOF  
THE\_POSTSYNAPTIC\_CELL;REACTOME\_PLC\_BETA\_MEDIATED\_EVENTS;REACTOME\_PKA\_M



'S\_WITH\_THE\_CELLULAR\_EXPORT\_MACHINERY;REACTOME\_HIV\_INFECTION;REACTOME\_TI  
'S\_WITH\_THE\_CELLULAR\_EXPORT\_MACHINERY;REACTOME\_HIV\_INFECTION;REACTOME\_TI

;\_NER\_REPAIR\_COMPLEX;REACTOME\_DNA\_REPAIR;REACTOME\_RNA\_POL\_II\_PRE\_TRANSC

'IDS\_AND\_LIOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BOI  
'IDS\_AND\_LIOPROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BOI

AFFICKING\_OF\_AMPA\_RECEPTORS;REACTOME\_TRAFFICKING\_OF\_GLUR2\_CONTAINING\_AM





PLEX\_;REACTOME\_ELONGATION\_ARREST\_AND\_RECOVERY;REACTOME\_FORMATION\_OF\_1

\_COSTIMULATION\_BY\_THE\_CD28\_FAMILY;REACTOME\_SIGNALING\_BY\_ILS;REACTOME\_REGI



/ENTS;REACTOME\_PKA\_MEDIATED\_PHOSPHORYLATION\_OF\_CREB;REACTOME\_TRANSMEN

;REACTOME\_REMOVAL\_OF\_THE\_FLAP\_INTERMEDIATE\_FROM\_THE\_C\_STRAND;REACTOME  
;REACTOME\_REMOVAL\_OF\_THE\_FLAP\_INTERMEDIATE\_FROM\_THE\_C\_STRAND;REACTOME  
;REACTOME\_REMOVAL\_OF\_THE\_FLAP\_INTERMEDIATE\_FROM\_THE\_C\_STRAND;REACTOME



UAPORIN\_MEDIATED\_TRANSPORT;REACTOME\_PROSTACYCLIN\_SIGNALLING\_THROUGH\_P  
UAPORIN\_MEDIATED\_TRANSPORT;REACTOME\_PROSTACYCLIN\_SIGNALLING\_THROUGH\_P

\_INDUCTION\_OF\_NFKB\_AND\_MAP\_KINASES\_UPON\_TLR7\_8\_OR\_9\_ACTIVATION;REACTOME\_













ND\_MAPK;REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;REACTOME\_SYNTHESIS\_OF\_PIPS\_

F\_NEF\_IN\_HIV1\_REPLICATION\_AND\_DISEASE\_PATHOGENESIS;REACTOME\_IMMUNE\_SYSTE

;REACTOME\_ENOS\_ACTIVATION\_AND\_REGULATION;REACTOME\_NEGATIVE\_REGULATION\_1

.CTOME\_TRAF6\_MEDIATED\_INDUCION\_OF\_NFKB\_AND\_MAP\_KINASES\_UPON\_TLR7\_8\_OR\_

SIS;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGR

.CTOME\_TRAF6\_MEDIATED\_INDUCION\_OF\_NFKB\_AND\_MAP\_KINASES\_UPON\_TLR7\_8\_OR\_

THE\_EXON\_JUNCTION\_COMPLEX





REACTOME\_GABA\_RECEPTOR\_ACTIVATION;REACTOME\_HEMOSTASIS;REACTOME\_PLATELE

TH\_LATE\_ANAPHASE;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_PHOSPHORYLATION\_OF\_TF

STEM

SES\_PHOSPHORYLATION\_AND\_ACTIVATION\_MEDIATED\_BY\_ACTIVATED\_HUMAN\_TAK1;REA







EACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_I



REACTIONS\_AT\_THE\_VASCULAR\_WALL;REACTOME\_NGF\_SIGNALLING\_VIA\_TRKA\_FROM\_T





'S\_WITH\_THE\_CELLULAR\_EXPORT\_MACHINERY;REACTOME\_HIV\_INFECTION;REACTOME\_TI



ND\_MAPK;REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;REACTOME\_SYNTHESIS\_OF\_PIPS\_

ION;REACTOME\_SIGNALING\_BY\_FGFR;REACTOME\_PI3K\_CASCADE

\\SIS;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM

ACTOME\_G\_PROTEIN\_BETA\_GAMMA\_SIGNALLING;REACTOME\_ACTIVATION\_OF\_KAINATE\_RE

ACTOME\_TRAF6\_MEDIATED\_INDUCTION\_OF\_NFKB\_AND\_MAP\_KINASES\_UPON\_TLR7\_8\_OR\_

TAMATE\_BINDING\_AND\_POSTSYNAPTIC\_EVENTS;REACTOME\_CREB\_PHOSPHORYLATION\_

IERES;REACTOME\_S\_PHASE;REACTOME\_DNA\_STRAND\_ELONGATION

TOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REACTC





RANSPORT\_OF\_RIBONUCLEOPROTEINS\_INTO\_THE\_HOST\_NUCLEUS;REACTOME\_HIV\_LIFE\_

NTS;REACTOME\_POST\_NMDA\_RECEPTOR\_ACTIVATION\_EVENTS;REACTOME\_DOWNSTREA  
31\_S\_TRANSITION;REACTOME\_COSTIMULATION\_BY\_THE\_CD28\_FAMILY;REACTOME\_CTLA4



REACTOME\_ACTIVATED\_TAK1\_MEDIATES\_P38\_MAPK\_ACTIVATION;REACTOME\_SIGNALING\_BY\_



;SECRETION\_BY\_GLUCAGON\_LIKE\_PEPTIDE1;REACTOME\_REGULATION\_OF\_INSULIN\_SECRE

;D28\_FAMILY;REACTOME\_CD28\_DEPENDENT\_PI3K\_AKT\_SIGNALING;REACTOME\_PI\_3K\_CAS  
;D28\_FAMILY;REACTOME\_CD28\_DEPENDENT\_PI3K\_AKT\_SIGNALING;REACTOME\_PI\_3K\_CAS

TED\_REGULATION\_OF\_DNA\_REPLICATION;REACTOME\_ACTIVATION\_OF\_ATR\_IN\_RESPONS

\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR1\_FUSION\_MUTANTS;REA





VATED\_TLR4\_SIGNALLING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_TOLL\_RECEPTOR\_CA







\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR1\_FUSION\_MUTANTS;REA  
\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR1\_FUSION\_MUTANTS;REA

ON;REACTOME\_ADP\_SIGNALLING\_THROUGH\_P2RY12;REACTOME\_GABA\_B\_RECEPTOR\_AC

HE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALLING\_TO\_ERKS;REACTOME\_P38MAPK\_EVENT  
ME\_REGULATION\_OF\_INSULIN\_SECRETION\_BY\_GLCAGON\_LIKE\_PEPTIDE1;REACTOME\_C





'A\_RECEPTORS;REACTOME\_TRAFFICKING\_OF\_GLUR2\_CONTAINING\_AMPA\_RECEPTORS;RE







GG\_NER;REACTOME\_HIV\_INFECTION;REACTOME\_HIV\_LIFE\_CYCLE;REACTOME\_FORMATIOI









ND\_MAPK;REACTOME\_SHC1\_EVENTS\_IN\_EGFR\_SIGNALING;REACTOME\_SIGNALING\_BY\_GI

ING;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_TOLL\_RECEPTOR\_CASCADES





CEPTORS\_UPON\_Glutamate\_BINDING

CTOME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRO



-IE\_APC\_C;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED

IGNALING;REACTOME\_PI\_3K\_CASCADE;REACTOME\_DOWNSTREAM\_SIGNALING\_OF\_ACTIV/







ADE;REACTOME\_DOWNSTREAM\_SIGNALING\_OF\_ACTIVATED\_FGFR;REACTOME\_ROLE\_OF\_

E\_ACTIVATION\_OF\_RAS;REACTOME\_POST\_NMDA\_RECEPTOR\_ACTIVATION\_EVENTS;REAC

TOME\_CD28\_DEPENDENT\_PI3K\_AKT\_SIGNALING;REACTOME\_CTLA4\_INHIBITORY\_SIGNALIN



RANSPORT\_OF\_RIBONUCLEOPROTEINS\_INTO\_THE\_HOST\_NUCLEUS;REACTOME\_HIV\_LIFE\_

1\_SIGNALOSOME;REACTOME\_REGULATION\_OF\_BETA\_CELL\_DEVELOPMENT;REACTOME\_R







:\_SIGNALING;REACTOME\_TRANSMISSION\_ACROSS\_CHEMICAL\_SYNAPSES;REACTOME\_NEU







SE;REACTOME\_PHOSPHOLIPID\_METABOLISM;REACTOME\_GASTRIN\_CREB\_SIGNALLING\_PA



NAME\_REGULATION\_OF\_INSULIN\_SECRETION\_BY\_GLCAGON\_LIKE\_PEPTIDE1;REACTOME\_G





EDIATED\_PHOSPHORYLATION\_OF\_CREB;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_

MITOTIC;REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_CYCLIN\_E\_ASSOCIATED\_EV  
TED\_REGULATION\_OF\_DNA\_REPLICATION;REACTOME\_ACTIVATION\_OF\_ATR\_IN\_RESPONS

D\_BINDING\_AND\_ACTIVATION;REACTOME\_SIGNALING\_BY\_FGFR;REACTOME\_FGFR1\_LIGAN  
D\_BINDING\_AND\_ACTIVATION;REACTOME\_SIGNALING\_BY\_FGFR;REACTOME\_FGFR1\_LIGAN





IGNALING;REACTOME\_PI\_3K\_CASCADE;REACTOME\_DOWNSTREAM\_SIGNALING\_OF\_ACTIV/





MITOTIC;REACTOME\_CELL\_CYCLE\_CHECKPOINTS;REACTOME\_CYCLIN\_E\_ASSOCIATED\_EV

MPA\_RECEPTORS;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_SIGNAL\_TRANSDUCTION

REACTOME\_NFKB\_AND\_MAP\_KINASES\_ACTIVATION\_MEDIATED\_BY\_TLR4\_SIGNALING\_REP

R\_MEDIATED\_SIGNALLING;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_



TEM;REACTOME\_BINDING\_AND\_ENTRY\_OF\_HIV\_VIRION;REACTOME\_ADAPTIVE\_IMMUNE\_S'

EDIATED\_PHOSPHORYLATION\_OF\_CREB;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_





OF\_THE\_PI3K\_AKT\_NETWORK;REACTOME\_PI3K\_AKT\_ACTIVATION;REACTOME\_AKT\_PHOSF

CEPTORS\_UPON\_Glutamate\_BINDING





'ROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM  
'ROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM  
'ROTEINS;REACTOME\_FATTY\_ACID\_TRIACYLGLYCEROL\_AND\_KETONE\_BODY\_METABOLISM  
EDIATED\_PHOSPHORYLATION\_OF\_CREB;REACTOME\_TRANSMEMBRANE\_TRANSPORT\_OF\_



RANSPORT\_OF\_RIBONUCLEOPROTEINS\_INTO\_THE\_HOST\_NUCLEUS;REACTOME\_HIV\_LIFE\_

RIPTION\_EVENTS;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_INFLUENZA\_VIRAL\_RN,

DY\_METABOLISM;REACTOME\_CIRCADIAN\_CLOCK;REACTOME\_TRANSCRIPTIONAL\_REGULA  
DY\_METABOLISM;REACTOME\_CIRCADIAN\_CLOCK;REACTOME\_TRANSCRIPTIONAL\_REGULA

MPA\_RECEPTORS;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_SIGNAL\_TRANSDUCTION





TRANSCRIPTION\_COUPLED\_NER\_TC\_NER\_REPAIR\_COMPLEX;REACTOME\_RNA\_POL\_I\_RNA

REGULATION\_OF\_SIGNALING\_BY\_CBL;REACTOME\_IL\_3\_5\_AND\_GM-CSF\_SIGNALING;REACTOME



/BRANE\_TRANSPORT\_OF\_SMALL\_MOLECULES;REACTOME\_GLCAGON\_SIGNALING\_IN\_ME

\_EXTENSION\_OF\_TELOMERES;REACTOME\_S\_PHASE;REACTOME\_DNA\_STRAND\_ELONGATI  
\_EXTENSION\_OF\_TELOMERES;REACTOME\_S\_PHASE;REACTOME\_DNA\_STRAND\_ELONGATI  
\_EXTENSION\_OF\_TELOMERES;REACTOME\_S\_PHASE;REACTOME\_DNA\_STRAND\_ELONGATI



ROSTACYCLIN\_RECEPTOR;REACTOME\_REGULATION\_OF\_WATER\_BALANCE\_BY\_RENAL\_AC  
ROSTACYCLIN\_RECEPTOR;REACTOME\_REGULATION\_OF\_WATER\_BALANCE\_BY\_RENAL\_AC

.ADVANCED\_GLYCOSYLATION\_ENDPRODUCT\_RECEPTOR\_SIGNALING;REACTOME\_NFKB\_A













\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR1\_FUSION\_MUTANTS;REA

:M;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNI

OF\_THE\_PI3K\_AKT\_NETWORK;REACTOME\_PI3K\_AKT\_ACTIVATION;REACTOME\_AKT\_PHOSF

9\_ACTIVATION;REACTOME\_TRAF6\_MEDIATED\_IRF7\_ACTIVATION\_IN\_TLR7\_8\_OR\_9\_SIGNAL

EGATION;REACTOME\_APOPTOTIC\_EXECUTION\_PHASE

9\_ACTIVATION;REACTOME\_TRAF6\_MEDIATED\_IRF7\_ACTIVATION\_IN\_TLR7\_8\_OR\_9\_SIGNAL







T\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

-IE\_APC\_C;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CLASS\_I\_MHC\_MEDIATED

REACTOME\_ACTIVATED\_TAK1\_MEDIATES\_P38\_MAPK\_ACTIVATION;REACTOME\_SIGNALING\_BY\_







MMUNE\_SYSTEM;REACTOME\_GAP\_JUNCTION\_TRAFFICKING



HE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALLING\_TO\_ERKS;REACTOME\_P38MAPK\_EVENT





RANSPORT\_OF\_RIBONUCLEOPROTEINS\_INTO\_THE\_HOST\_NUCLEUS;REACTOME\_HIV\_LIFE\_



\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR1\_FUSION\_MUTANTS;REA



CEPTORS\_UPON\_Glutamate\_BINDING

9\_ACTIVATION;REACTOME\_TRAF6\_MEDIATED\_IRF7\_ACTIVATION\_IN\_TLR7\_8\_OR\_9\_SIGNAL

THROUGH\_THE\_ACTIVATION\_OF\_RAS;REACTOME\_POST\_NMDA\_RECEPTOR\_ACTIVATION\_E

HOME\_REGULATION\_OF\_INSULIN\_SECRETION\_BY\_GLCAGON\_LIKE\_PEPTIDE1;REACTOME\_C





\_CYCLE;REACTOME\_HOST\_INTERACTIONS\_OF\_HIV\_FACTORS;REACTOME\_LATE\_PHASE\_OI

M\_SIGNALING\_OF\_ACTIVATED\_FGFR;REACTOME\_PHOSPHOLIPASE\_C\_MEDIATED\_CASCAD  
.INHIBITORY\_SIGNALING;REACTOME\_METABOLISM\_OF\_MRNA;REACTOME\_METABOLISM\_C



\_ILS;REACTOME\_IL1\_SIGNALING;REACTOME\_IRAK1\_RECRUITS\_IKK\_COMPLEX;REACTOME\_



CTION;REACTOME\_DOWNSTREAM\_SIGNALING\_OF\_ACTIVATED\_FGFR;REACTOME\_PHOSPHO

CADE;REACTOME\_DOWNSTREAM\_SIGNALING\_OF\_ACTIVATED\_FGFR;REACTOME\_PKB\_MEI  
CADE;REACTOME\_DOWNSTREAM\_SIGNALING\_OF\_ACTIVATED\_FGFR;REACTOME\_PKB\_MEI

E\_TO\_REPLICATION\_STRESS;REACTOME\_G1\_S\_SPECIFIC\_TRANSCRIPTION;REACTOME\_G2

CTOME\_PI\_METABOLISM;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;REACTOME\_PI3K\_AK





\\SCADES;REACTOME\_APOPTOTIC\_EXECUTION\_PHASE







CTOME\_PI\_METABOLISM;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;REACTOME\_PI3K\_Ak  
CTOME\_PI\_METABOLISM;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;REACTOME\_PI3K\_Ak

;TIVATION;REACTOME\_GABA\_RECEPTOR\_ACTIVATION;REACTOME\_HEMOSTASIS;REACTOM

'S;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_SIGNALLING\_TO\_P38\_VIA\_RI  
;\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REA





REACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_Z\_SIGNALLING\_EVENT:







V\_OF\_THE\_HIV1\_EARLY\_ELONGATION\_COMPLEX;REACTOME\_LATE\_PHASE\_OF\_HIV\_LIFE\_C









PCR;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTIO





DUCTION;REACTOME\_TRAF3\_DEPENDENT\_IRF\_ACTIVATION\_PATHWAY;REACTOME\_RIG\_I\_



\_ANTIGEN\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINA

ATED\_FGFR;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACT







.DCC\_IN\_REGULATING\_APOPTOSIS;REACTOME\_APOPTOSIS;REACTOME\_INNATE\_IMMUNE\_

TOME\_MAP\_KINASE\_ACTIVATION\_IN\_TLR\_CASCADE;REACTOME\_MAPK\_TARGETS\_NUCLEA

G;REACTOME\_SIGNALING\_BY\_ILS;REACTOME\_IL\_2\_SIGNALING;REACTOME\_HEMOSTASIS;F



\_CYCLE;REACTOME\_HOST\_INTERACTIONS\_OF\_HIV\_FACTORS;REACTOME\_LATE\_PHASE\_OI

REGULATION\_OF\_GENE\_EXPRESSION\_IN\_BETA\_CELLS;REACTOME\_SIGNALING\_BY\_GPCR;R







JRONAL\_SYSTEM;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_NEUROTRANSMITTER\_RE







PATHWAY\_VIA\_PKC\_AND\_MAPK;REACTOME\_SIGNALING\_BY\_FGFR1\_MUTANTS;REACTOME\_S



3\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REA



REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM;REACTOME\_NUCLEOTIDE\_BINDING.

\_SMALL\_MOLECULES;REACTOME\_GLUCAGON\_SIGNALING\_IN\_METABOLIC\_REGULATION;RE

'ENTS\_DURING\_G1\_S\_TRANSITION\_';REACTOME\_P53\_DEPENDENT\_G1\_DNA\_DAMAGE\_RESF  
E\_TO\_REPLICATION\_STRESS;REACTOME\_G2\_M\_CHECKPOINTS;REACTOME\_S\_PHASE

ID\_BINDING\_AND\_ACTIVATION;REACTOME\_PI3K\_CASCADE  
ID\_BINDING\_AND\_ACTIVATION;REACTOME\_PI3K\_CASCADE





ATED\_FGFR;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACT





'ENTS\_DURING\_G1\_S\_TRANSITION\_;REACTOME\_P53\_DEPENDENT\_G1\_DNA\_DAMAGE\_RESF

[\_BY\_L1;REACTOME\_RECYCLING\_PATHWAY\_OF\_L1;REACTOME\_HIV\_INFECTION;REACTOME

ERTOIRE;REACTOME\_RIG\_I\_MDA5\_MEDIATED\_INDUCTION\_OF\_IFN\_ALPHA\_BETA\_PATHWA

SIGNAL\_TRANSDUCTION;REACTOME\_PI\_3K\_CASCADE;REACTOME\_DOWNSTREAM\_SIGNAL



YSTEM

.SMALL\_MOLECULES;REACTOME\_GLCAGON\_SIGNALING\_IN\_METABOLIC\_REGULATION;RE





'HORYLATES\_TARGETS\_IN\_THE\_CYTOSOL;REACTOME\_GAB1\_SIGNALOSOME;REACTOME\_I





4;REACTOME\_TRAF6\_MEDIATED\_IRF7\_ACTIVATION;REACTOME\_CIRCADIAN\_CLOCK;REACT  
4;REACTOME\_TRAF6\_MEDIATED\_IRF7\_ACTIVATION;REACTOME\_CIRCADIAN\_CLOCK;REACT  
4;REACTOME\_TRAF6\_MEDIATED\_IRF7\_ACTIVATION;REACTOME\_CIRCADIAN\_CLOCK;REACT  
\_SMALL\_MOLECULES;REACTOME\_GLUCAGON\_SIGNALING\_IN\_METABOLIC\_REGULATION;RE



\_CYCLE;REACTOME\_HOST\_INTERACTIONS\_OF\_HIV\_FACTORS;REACTOME\_LATE\_PHASE\_OI  
\_CYCLE;REACTOME\_HOST\_INTERACTIONS\_OF\_HIV\_FACTORS;REACTOME\_LATE\_PHASE\_OI

A\_TRANSCRIPTION\_AND\_REPLICATION;REACTOME\_HIV\_INFECTION;REACTOME\_HIV\_LIFE\_C

TION\_OF\_WHITE\_ADIPOCYTE\_DIFFERENTIATION;REACTOME\_SIGNALING\_BY\_NOTCH;REAC  
TION\_OF\_WHITE\_ADIPOCYTE\_DIFFERENTIATION;REACTOME\_SIGNALING\_BY\_NOTCH;REAC

\_BY\_L1;REACTOME\_RECYCLING\_PATHWAY\_OF\_L1;REACTOME\_HIV\_INFECTION;REACTOME





\_POL\_III\_AND\_MITOCHONDRIAL\_TRANSCRIPTION;REACTOME\_DNA\_REPAIR;REACTOME\_RN

\_HEMOSTASIS;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;RE



TABOLIC\_REGULATION;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGI

ON  
ON  
ON



QUAPORINS;REACTOME\_HEMOSTASIS  
QUAPORINS;REACTOME\_HEMOSTASIS

ND\_MAP\_KINASES\_ACTIVATION\_MEDIATED\_BY\_TLR4\_SIGNALING\_REPERTOIRE;REACTOME













CTOME\_PI\_METABOLISM;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;REACTOME\_PI3K\_AK

E\_SYSTEM;REACTOME\_ANTIGEN\_PRESENTATION\_FOLDING\_ASSEMBLY\_AND\_PEPTIDE\_LO,

'HORYLATES\_TARGETS\_IN\_THE\_CYTOSOL;REACTOME\_GAB1\_SIGNALOSOME;REACTOME\_I

ING;REACTOME\_NFKB\_AND\_MAP\_KINASES\_ACTIVATION\_MEDIATED\_BY\_TLR4\_SIGNALING\_



ING;REACTOME\_NFKB\_AND\_MAP\_KINASES\_ACTIVATION\_MEDIATED\_BY\_TLR4\_SIGNALING\_







\_ANTIGEN\_PROCESSING\_PRESENTATION;REACTOME\_ANTIGEN\_PROCESSING\_UBIQUITINA

\_ILS;REACTOME\_IL1\_SIGNALING;REACTOME\_IRAK1\_RECRUITS\_IKK\_COMPLEX;REACTOME\_











'S;REACTOME\_SIGNALING\_BY\_FGFR\_IN\_DISEASE;REACTOME\_SIGNALLING\_TO\_P38\_VIA\_RI'





\_CYCLE;REACTOME\_HOST\_INTERACTIONS\_OF\_HIV\_FACTORS;REACTOME\_LATE\_PHASE\_OI



CTOME\_PI\_METABOLISM;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;REACTOME\_PI3K\_AK





EVENTS

3\_ALPHA\_Q\_SIGNALLING\_EVENTS;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REA





F\_HIV\_LIFE\_CYCLE;REACTOME\_INTERACTIONS\_OF\_VPR\_WITH\_HOST\_CELLULAR\_PROTEIN

RE;REACTOME\_SIGNALING\_BY\_FGFR

OF\_RNA;REACTOME\_MITOTIC\_G1\_G1\_S\_PHASES;REACTOME\_MITOTIC\_M\_M\_G1\_PHASES;RI



TRAF6\_MEDIATED\_IRF7\_ACTIVATION;REACTOME\_TRAF6\_MEDIATED\_NFKB\_ACTIVATION;RE



LIPASE\_C\_MEDIATED\_CASCADE;REACTOME\_AQUAPORIN\_MEDIATED\_TRANSPORT;REACT

DIATED\_EVENTS;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR;REACTOME\_IMMUNE\_SY  
DIATED\_EVENTS;REACTOME\_SIGNALING\_BY\_INSULIN\_RECEPTOR;REACTOME\_IMMUNE\_SY

?\_M\_CHECKPOINTS;REACTOME\_S\_PHASE

CT\_ACTIVATION;REACTOME\_TCR\_SIGNALING;REACTOME\_DOWNSTREAM\_TCR\_SIGNALING;













CT\_ACTIVATION;REACTOME\_TCR\_SIGNALING;REACTOME\_DOWNSTREAM\_TCR\_SIGNALING;  
CT\_ACTIVATION;REACTOME\_TCR\_SIGNALING;REACTOME\_DOWNSTREAM\_TCR\_SIGNALING;

1E\_PLATELET\_ACTIVATION\_SIGNALING\_AND\_AGGREGATION

T\_AND\_RIN;REACTOME\_GASTRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REA  
CTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_DOWNSTREAM\_SIGNALING\_OF\_ACT1





S;REACTOME\_DOWNSTREAM\_SIGNALING\_OF\_ACTIVATED\_FGFR;REACTOME\_PHOSPHOLIP







CYCLE;REACTOME\_RNA\_POL\_I\_TRANSCRIPTION\_INITIATION









IN;REACTOME\_AXON\_GUIDANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROW





.MDA5\_MEDIATED\_INDUCTION\_OF\_IFN\_ALPHA\_BETA\_PATHWAYS;REACTOME\_TRANSCRIPT



ATION\_PROTEASOME\_DEGRADATION;REACTOME\_APC\_CDC20\_MEDIATED\_DEGRADATION\_C

HOME\_PIP3\_ACTIVATES\_AKT\_SIGNALING;REACTOME\_SIGNALING\_BY\_FGFR







SYSTEM;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOM

R\_EVENTS\_MEDIATED\_BY\_MAP\_KINASES;REACTOME\_L1CAM\_INTERACTIONS;REACTOME\_

REACTOME\_HIV\_INFECTION;REACTOME\_HOST\_INTERACTIONS\_OF\_HIV\_FACTORS;REACTOI



F\_HIV\_LIFE\_CYCLE;REACTOME\_INTERACTIONS\_OF\_VPR\_WITH\_HOST\_CELLULAR\_PROTEIN

:EACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_GPVI\_MEDIATED\_ACTIVATION\_CASCADE;REA







CEPTOR\_BINDING\_AND\_DOWNSTREAM\_TRANSMISSION\_IN\_THE\_POSTSYNAPTIC\_CELL;RE,







YNTHESES\_OF\_PIPS\_AT\_THE\_PLASMA\_MEMBRANE;REACTOME\_SIGNALING\_BY\_FGFR1\_FUS



CTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_DOWNSTREAM\_SIGNALING\_OF\_ACT1





REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REAC

RESPONSE;REACTOME\_M\_G1\_TRANSITION;REACTOME\_G1\_S\_TRANSITION;REACTOME\_CDT1\_A







HOME\_PIP3\_ACTIVATES\_AKT\_SIGNALING;REACTOME\_SIGNALING\_BY\_FGFR





RESPONSE;REACTOME\_M\_G1\_TRANSITION;REACTOME\_G1\_S\_TRANSITION;REACTOME\_CDT1\_A

:\_HOST\_INTERACTIONS\_OF\_HIV\_FACTORS;REACTOME\_THE\_ROLE\_OF\_NEF\_IN\_HIV1\_REPL

YS;REACTOME\_MYD88\_MAL\_CASCADE\_INITIATED\_ON\_PLASMA\_MEMBRANE;REACTOME\_IN

ING\_OF\_ACTIVATED\_FGFR;REACTOME\_APOPTOSIS;REACTOME\_IMMUNE\_SYSTEM;REACTC





REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REAC





NTEGRIN\_CELL\_SURFACE\_INTERACTIONS;REACTOME\_REGULATION\_OF\_BETA\_CELL\_DEVI





OME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODU  
OME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODU  
OME\_FACTORS\_INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODU  
:ACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REAC



F\_HIV\_LIFE\_CYCLE;REACTOME\_INTERACTIONS\_OF\_VPR\_WITH\_HOST\_CELLULAR\_PROTEIN  
F\_HIV\_LIFE\_CYCLE;REACTOME\_INTERACTIONS\_OF\_VPR\_WITH\_HOST\_CELLULAR\_PROTEIN

CYCLE;REACTOME\_ABORTIVE\_ELONGATION\_OF\_HIV1\_TRANSCRIPT\_IN\_THE\_ABSENCE\_OF

TOME\_SIGNALING\_BY\_TGF\_BETA\_RECEPTOR\_COMPLEX  
TOME\_SIGNALING\_BY\_TGF\_BETA\_RECEPTOR\_COMPLEX

:\_HOST\_INTERACTIONS\_OF\_HIV\_FACTORS;REACTOME\_THE\_ROLE\_OF\_NEF\_IN\_HIV1\_REPL





IA\_POL\_II\_PRE\_TRANSCRIPTION\_EVENTS;REACTOME\_RNA\_POL\_III\_TRANSCRIPTION\_INITIA

:ACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM;REACTOME\_PLATELET\_ACTIVATION



VAL\_TRANSDUCTION;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION\_BY\_GLCAGON\_





:\_RIG\_I\_MDA5\_MEDIATED\_INDUCTION\_OF\_IFN\_ALPHA\_BETA\_PATHWAYS;REACTOME\_HEMK













CT\_ACTIVATION;REACTOME\_TCR\_SIGNALING;REACTOME\_DOWNSTREAM\_TCR\_SIGNALING;

ADING\_OF\_CLASS\_I\_MHC;REACTOME\_CLASS\_I\_MHC\_MEDIATED\_ANTIGEN\_PROCESSING\_F

NTEGRIN\_CELL\_SURFACE\_INTERACTIONS;REACTOME\_REGULATION\_OF\_BETA\_CELL\_DEVI

REPertoire;REACTOME\_MYD88\_MAL\_CASCADE\_INITIATED\_ON\_PLASMA\_MEMBRANE;REA



REPertoire;REACTOME\_MYD88\_MAL\_CASCADE\_INITIATED\_ON\_PLASMA\_MEMBRANE;REA







ATION\_PROTEASOME\_DEGRADATION;REACTOME\_APC\_CDC20\_MEDIATED\_DEGRADATION\_C

TRAF6\_MEDIATED\_IRF7\_ACTIVATION;REACTOME\_TRAF6\_MEDIATED\_NFKB\_ACTIVATION;RE











T\_AND\_RIN;REACTOME\_GASTRIN\_CREB\_SIGNALLING\_PATHWAY\_VIA\_PKC\_AND\_MAPK;REA





F\_HIV\_LIFE\_CYCLE;REACTOME\_INTERACTIONS\_OF\_VPR\_WITH\_HOST\_CELLULAR\_PROTEIN

KT\_PHOSPHORYLATES\_TARGETS\_IN\_THE\_CYTOSOL;REACTOME\_GAB1\_SIGNALOSOME;RE/

CT\_ACTIVATION;REACTOME\_TCR\_SIGNALING;REACTOME\_DOWNSTREAM\_TCR\_SIGNALING;



REPertoire;REACTOME\_MYD88\_MAL\_CASCADE\_INITIATED\_ON\_PLASMA\_MEMBRANE;REA



CTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_DOWNSTREAM\_SIGNALING\_OF\_ACT1





IS;REACTOME\_REGULATION\_OF\_GLUCOKINASE\_BY\_GLUCOKINASE\_REGULATORY\_PROTEI

EACTOME\_MAP\_KINASE\_ACTIVATION\_IN\_TLR\_CASCADE;REACTOME\_MAPK\_TARGETS\_NUC



FACTOME\_IRAK2\_MEDIATED\_ACTIVATION\_OF\_TAK1\_COMPLEX\_UPON\_TLR7\_8\_OR\_9\_STIMU



OME\_REGULATION\_OF\_WATER\_BALANCE\_BY\_RENAL\_AQUAPORINS;REACTOME\_FACTORS

STEM;REACTOME\_MTORC1\_MEDIATED\_SIGNALLING;REACTOME\_ADAPTIVE\_IMMUNE\_SYST  
STEM;REACTOME\_MTORC1\_MEDIATED\_SIGNALLING;REACTOME\_ADAPTIVE\_IMMUNE\_SYST

REACTOME\_GAB1\_SIGNALOSOME;REACTOME\_TIE2\_SIGNALING;REACTOME\_SIGNALING\_BY













REACTOME\_GAB1\_SIGNALOSOME;REACTOME\_TIE2\_SIGNALING;REACTOME\_SIGNALING\_B1  
REACTOME\_GAB1\_SIGNALOSOME;REACTOME\_TIE2\_SIGNALING;REACTOME\_SIGNALING\_B1



REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;REACTOME\_SHC1\_EVENTS\_IN\_EGFR\_SIGNALING  
ACTIVATED\_FGFR;REACTOME\_PHOSPHOLIPASE\_C\_MEDIATED\_CASCADE;REACTOME\_EFFECT





ASE\_C\_MEDIATED\_CASCADE;REACTOME\_HEMOSTASIS;REACTOME\_PLATELET\_ACTIVATIOI

















WTH;REACTOME\_FRS2\_MEDIATED\_CASCADE;REACTOME\_DOWNSTREAM\_SIGNALING\_OF\_#





TIONAL\_REGULATION\_OF\_WHITE\_ADIPOCYTE\_DIFFERENTIATION;REACTOME\_SIGNALING\_B



DF\_NEK2A









ME\_NOD1\_2\_SIGNALING\_PATHWAY;REACTOME\_PIP3\_ACTIVATES\_AKT\_SIGNALING;REACTO

SIGNAL\_TRANSDUCTION\_BY\_L1;REACTOME\_RECYCLING\_PATHWAY\_OF\_L1;REACTOME\_TR

ME\_THE\_ROLE\_OF\_NEF\_IN\_HIV1\_REPLICATION\_AND\_DISEASE\_PATHOGENESIS;REACTOME



IS;REACTOME\_REGULATION\_OF\_GLUCOKINASE\_BY\_GLUCOKINASE\_REGULATORY\_PROTEI

ACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REACTOME\_CD28\_CO\_STIMULATION;RE/







ACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_DOWNSTREAM\_SIGNAL\_TRANSDUCTION;REAC







SION\_MUTANTS;REACTOME\_PI\_METABOLISM;REACTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;



ACTIVATED\_FGFR;REACTOME\_PHOSPHOLIPASE\_C\_MEDIATED\_CASCADE;REACTOME\_EFFECT





CTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;RI

ASSOCIATION\_WITH\_THE\_CDC6\_ORC\_ORIGIN\_COMPLEX;REACTOME\_SYNTHESIS\_OF\_DNA;













ASSOCIATION\_WITH\_THE\_CDC6\_ORC\_ORIGIN\_COMPLEX;REACTOME\_SYNTHESIS\_OF\_DNA;

ICATION\_AND\_DISEASE\_PATHOGENESIS;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPT

NATE\_IMMUNE\_SYSTEM;REACTOME\_ACTIVATED\_TLR4\_SIGNALLING;REACTOME\_IMMUNE\_S

ME\_ACTIVATION\_OF\_BH3\_ONLY\_PROTEINS;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REAC





OTOME\_REGULATION\_OF\_INSULIN\_SECRETION\_BY\_GLCAGON\_LIKE\_PEPTIDE1;REACTOMI





ELOPMENT;REACTOME\_REGULATION\_OF\_GENE\_EXPRESSION\_IN\_BETA\_CELLS;REACTOME





CTION;REACTOME\_TRAF3\_DEPENDENT\_IRF\_ACTIVATION\_PATHWAY;REACTOME\_RIG\_I\_MD  
CTION;REACTOME\_TRAF3\_DEPENDENT\_IRF\_ACTIVATION\_PATHWAY;REACTOME\_RIG\_I\_MD  
CTION;REACTOME\_TRAF3\_DEPENDENT\_IRF\_ACTIVATION\_PATHWAY;REACTOME\_RIG\_I\_MD  
CTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_ALPHA\_I\_SIGNALLING\_EVENTS;RI



IS;REACTOME\_REGULATION\_OF\_GLUCOKINASE\_BY\_GLUCOKINASE\_REGULATORY\_PROTEI  
IS;REACTOME\_REGULATION\_OF\_GLUCOKINASE\_BY\_GLUCOKINASE\_REGULATORY\_PROTEI

\_TAT;REACTOME\_FORMATION\_OF\_THE\_HIV1\_EARLY\_ELONGATION\_COMPLEX;REACTOME\_

.ICATION\_AND\_DISEASE\_PATHOGENESIS;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_ADAPT





ATION\_FROM\_TYPE\_3\_PROMOTER;REACTOME\_INFLUENZA\_LIFE\_CYCLE;REACTOME\_INFLUI

I\_SIGNALING\_AND\_AGGREGATION



LIKE\_PEPTIDE1;REACTOME\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME\_DOWNSTR





DSTASIS;REACTOME\_MYD88\_MAL\_CASCADE\_INITIATED\_ON\_PLASMA\_MEMBRANE;REACTOI













REACTOME\_GAB1\_SIGNALOSOME;REACTOME\_TIE2\_SIGNALING;REACTOME\_SIGNALING\_B1

PRESENTATION

ELOPMENT;REACTOME\_REGULATION\_OF\_GENE\_EXPRESSION\_IN\_BETA\_CELLS;REACTOME

.CTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_ACTIVATED\_TLR4\_SIGNALLING;REACTOME



.CTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_ACTIVATED\_TLR4\_SIGNALLING;REACTOME







DF\_NEK2A

FACTOME\_IRAK2\_MEDIATED\_ACTIVATION\_OF\_TAK1\_COMPLEX\_UPON\_TLR7\_8\_OR\_9\_STIMU











.CTOME\_SIGNALING\_BY\_FGFR\_MUTANTS;REACTOME\_SHC1\_EVENTS\_IN\_EGFR\_SIGNALING





IS;REACTOME\_REGULATION\_OF\_GLUCOKINASE\_BY\_GLUCOKINASE\_REGULATORY\_PROTEI



REACTOME\_GAB1\_SIGNALOSOME;REACTOME\_TIE2\_SIGNALING;REACTOME\_SIGNALING\_B1



.CTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_ACTIVATED\_TLR4\_SIGNALLING;REACTOME.



ACTIVATED\_FGFR;REACTOME\_PHOSPHOLIPASE\_C\_MEDIATED\_CASCADE;REACTOME\_EFFECT





N;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

;LEAR\_EVENTS\_MEDIATED\_BY\_MAP\_KINASES;REACTOME\_PLATELET\_HOMEOSTASIS;REAC



RELATION;REACTOME\_TRAF6\_MEDIATED\_INDUCION\_OF\_NFKB\_AND\_MAP\_KINASES\_UPON\_



;INVOLVED\_IN\_MEGAKARYOCYTE\_DEVELOPMENT\_AND\_PLATELET\_PRODUCTION;REACTC

EM;REACTOME\_PIP3\_ACTIVATES\_AKT\_SIGNALING;REACTOME\_SIGNALING\_BY\_FGFR;REAC  
EM;REACTOME\_PIP3\_ACTIVATES\_AKT\_SIGNALING;REACTOME\_SIGNALING\_BY\_FGFR;REAC

/\_GPCR;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_GPVI\_MEDIATED\_ACTIVATION\_CAS













/\_GPCR;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_GPVI\_MEDIATED\_ACTIVATION\_CAS  
/\_GPCR;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_GPVI\_MEDIATED\_ACTIVATION\_CAS



;REACTOME\_TIE2\_SIGNALING;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_SIGNALING\_B  
'S\_OF\_PIP2\_HYDROLYSIS;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_PLATELET\_C/





N\_SIGNALING\_AND\_AGGREGATION;REACTOME\_SIGNALING\_BY\_FGFR

















ACTIVATED\_FGFR;REACTOME\_MAP\_KINASE\_ACTIVATION\_IN\_TLR\_CASCADE;REACTOME\_L1





RY\_NOTCH;REACTOME\_HEMOSTASIS;REACTOME\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_IM













ME\_NUCLEOTIDE\_BINDING\_DOMAIN\_LEUCINE\_RICH\_REPEAT\_CONTAINING\_RECEPTOR\_NL

AF6\_MEDIATED\_INDUCION\_OF\_NFKB\_AND\_MAP\_KINASES\_UPON\_TLR7\_8\_OR\_9\_ACTIVATI

:\_IMMUNE\_SYSTEM;REACTOME\_ADAPTIVE\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGN.



N;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

ACTOME\_GPCR\_DOWNSTREAM\_SIGNALING;REACTOME\_G\_BETA\_GAMMA\_SIGNALLING\_THI







;TOME\_AXON\_GUIDANCE;REACTOME\_NCAM\_SIGNALING\_FOR\_NEURITE\_OUT\_GROWTH;RE







REACTOME\_PI3K\_AKT\_ACTIVATION;REACTOME\_TCR\_SIGNALING;REACTOME\_DOWNSTREA



'S\_OF\_PIP2\_HYDROLYSIS;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_PLATELET\_C/





EACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS;REACTOME\_G\_ALPHA\_Z\_SIGNALLING\_EVENT

REACTOME\_AUTODEGRADATION\_OF\_THE\_E3\_UBIQUITIN\_LIGASE\_COP1;REACTOME\_META













REACTOME\_AUTODEGRADATION\_OF\_THE\_E3\_UBIQUITIN\_LIGASE\_COP1;REACTOME\_META

TIVE\_IMMUNE\_SYSTEM

SYSTEM;REACTOME\_TOLL\_RECEPTOR\_CASCADES;REACTOME\_AMYLOIDS

CTOME\_PIP3\_ACTIVATES\_AKT\_SIGNALING;REACTOME\_SIGNALING\_BY\_FGFR;REACTOME\_IN





E\_REGULATION\_OF\_INSULIN\_SECRETION;REACTOME\_INHIBITION\_OF\_INSULIN\_SECRETION





:\_SIGNALING\_BY\_GPCR;REACTOME\_INTEGRIN\_ALPHAIIIB\_BETA3\_SIGNALING;REACTOME\_SI





IA5\_MEDIATED\_INDUCTION\_OF\_IFN\_ALPHA\_BETA\_PATHWAYS;REACTOME\_TRANSCRIPTION  
IA5\_MEDIATED\_INDUCTION\_OF\_IFN\_ALPHA\_BETA\_PATHWAYS;REACTOME\_TRANSCRIPTION  
IA5\_MEDIATED\_INDUCTION\_OF\_IFN\_ALPHA\_BETA\_PATHWAYS;REACTOME\_TRANSCRIPTION  
EACTOME\_G\_ALPHA\_S\_SIGNALLING\_EVENTS;REACTOME\_G\_ALPHA\_Z\_SIGNALLING\_EVENT



N;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM  
N;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

\_VIRAL\_MESSENGER\_RNA\_SYNTHESIS;REACTOME\_LATE\_PHASE\_OF\_HIV\_LIFE\_CYCLE

IVE\_IMMUNE\_SYSTEM





ENZA\_VIRAL\_RNA\_TRANSCRIPTION\_AND\_REPLICATION;REACTOME\_HIV\_INFECTION;REACT



!EAM\_SIGNALING\_OF\_ACTIVATED\_FGFR;REACTOME\_PHOSPHOLIPASE\_C\_MEDIATED\_CASC





VE\_INNATE\_IMMUNE\_SYSTEM;REACTOME\_ACTIVATED\_TLR4\_SIGNALLING;REACTOME\_IMM













/\_GPCR;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_GPVI\_MEDIATED\_ACTIVATION\_CAS

:\_SIGNALING\_BY\_GPCR;REACTOME\_INTEGRIN\_ALPHAIIIB\_BETA3\_SIGNALING;REACTOME\_SI

\_IMMUNE\_SYSTEM;REACTOME\_TOLL\_RECEPTOR\_CASCADES;REACTOME\_NOD1\_2\_SIGNAL



\_IMMUNE\_SYSTEM;REACTOME\_TOLL\_RECEPTOR\_CASCADES;REACTOME\_NOD1\_2\_SIGNAL









ILATION;REACTOME\_TRAF6\_MEDIATED\_INDUCION\_OF\_NFKB\_AND\_MAP\_KINASES\_UPON\_











;REACTOME\_TIE2\_SIGNALING;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_SIGNALING\_E





N;REACTOME\_IMMUNE\_SYSTEM;REACTOME\_CYTOKINE\_SIGNALING\_IN\_IMMUNE\_SYSTEM

IE\_EXPRESSION\_IN\_BETA\_CELLS;REACTOME\_SIGNALING\_BY\_GPCR;REACTOME\_SIGNALIN

/\_GPCR;REACTOME\_SIGNALING\_BY\_PDGF;REACTOME\_GPVI\_MEDIATED\_ACTIVATION\_CAS



\_IMMUNE\_SYSTEM;REACTOME\_TOLL\_RECEPTOR\_CASCADES;REACTOME\_NOD1\_2\_SIGNAL



'S\_OF\_PIP2\_HYDROLYSIS;REACTOME\_PLATELET\_HOMEOSTASIS;REACTOME\_PLATELET\_C/





TOME\_PLATELET\_SE



TLR7\_8



ME\_HEMOSTASIS;REACTOME\_SIG

TOME\_PI3K\_CA  
TOME\_PI3K\_CA

CADE;REACT













CADE;REACT  
CADE;REACT



Y\_PDGF;REAC  
CALCIUM\_HOMEOSTASIS;R























CAM\_INTERACTIO





MUNE\_SYSTEM













R\_SIGNALING\_PATHW

ION;REACTOME\_NFKB\_AND\_MAP\_

ALING\_IN\_IMMUNE\_S





ROUGH\_PI3KGAMMA;REAC







ACTOME\_ACTIVATION\_







M\_TCR\_SIGNA



ALCIUM\_HOMEOSTASIS;R





'S;REACTOME\_ACTIVATION\_OF\_

BOLISM\_OF\_MRNA;REACTOME\_METABO













BOLISM\_OF\_MRNA;REACTOME\_METABO

INTRINSIC\_PATHWAY





I\_BY\_ADRENALINE\_NORADR





GNALING\_BY\_PDG





JAL\_REGULATION\_OF\_WHITE  
JAL\_REGULATION\_OF\_WHITE  
JAL\_REGULATION\_OF\_WHITE  
S;REACTOME\_DOWNSTREAM\_SIG











OME\_HIV\_LI



;ADE;REACTOME\_MITOTIC\_G2\_G





UNE\_SYSTEM;RE













CADE;REACT

GNALING\_BY\_PDG

.ING\_



.ING\_









TLR7\_8











Y\_PDF;REAC









CADE;REACT



.ING\_



ALCIUM\_HOMEOSTASIS;R