Table S1. Genetic characteristics of cell lines

	MMR- Cell Lines						MMR+ Cell Lines			
HGNC Gene Symbol	**HCT116**	**LS174T**	**RKO**	**HCT15***	**DLD1***	**LOVO**	**CACO2**	**COLO205**	**HT29**	**SW480**
MLH1	S252*	T117M	methylated methylated	WT	WT	WT	WT	WT	WT	WT
MSH2	WT	WT	WT	WT	WT	ΔEx3-8	WT	WT	WT	WT
MSH6	WT	WT	WT	L290fs D1171fs	L290fs D1171fs	WT	WT	WT	WT	WT
KRAS	G13D WT	G12D WT	WT	G13D WT	G13D WT	G13D WT	WT	WT	WT	G12V
APC	WT	WT	WT	I1417fs* R2166*	I1417fs R2166*	M1430fs* R1114*	Q1367*	T1556fs*	E853* T1556fs	Q1338*
TP53	WT	WT	WT	S241F Intronic Sub	S241F WT	WT	E204*	Y103-L111>L	R273H	R273H
CTNNB1	ΔS45 WT	S45F	WT	WT	WT	WT	G245A	N287S	WT	WT
PIK3CA	H1047R WT	H1047R WT	H1047R WT	E545K D549N	E545K D549N	WT	WT	WT	P449T WT	WT
BRAF	WT	WT	V600E WT	WT	WT	WT	WT	V600E WT	V600E WT	WT

Table S1. Summary of mutations in cancer related genes in colorectal cancer cell lines. Source: Catalogue Of Somatic Mutations In Cancer - (COSMIC), v50)
*HCT15 and DLD1 were derived from tumor cells obtained from different sites in the same patient

S2 STANDARD SEARCH

Group/Source/Spectrum	Distinct Peptides	Distinct Matches	Filtered Spectra	Distinct Analyses	Distinct Charges	Protein Groups
	55922	71889	732057	2	3	6094
pepXML-ENS	55922	71889	732057	2	3	6094
CaCo2	25763	31032	76996	1	3	5463
Rep3	12457	14117	22150	1	3	4182
Rep1	17984	20602	31756	1	3	4771
Rep2	15701	18802	23090	1	3	4460
COLO205	22668	27380	71648	1	3	5435
Rep3	15013	17725	22553	1	3	4477
Rep1	13698	15469	21778	1	3	4667
Rep2	12897	14751	27317	1	3	4312
RKO	24979	31126	79453	1	3	5315
Rep3	16269	19717	23740	1	3	4544
Rep1	14186	16257	24723	1	3	4391
Rep2	16273	19469	30990	1	3	4423
HCT15	26553	32294	80879	1	3	5614
Rep3	16938	19861	24628	1	3	4605
Rep1	16169	18610	26265	1	3	4953
Rep2	15714	18256	29986	1	3	4673
LS174T	25678	31263	84816	1	3	5472
Rep3	14968	17644	22128	1	3	4294
Rep1	14949	17767	29443	1	3	4636
Rep2	18057	20891	33245	1	3	4704
HCT116	23796	28814	74880	2	3	5415
Rep3	16074	18780	24212	1	3	4534
Rep1	13522	15632	22324	1	3	4252
Rep2	14098	16518	28344	1	3	4505
LoVo	23952	29080	73033	1	3	5342
Rep3	14480	17600	21296	1	3	4179
Rep1	11963	13509	20903	1	3	4042
Rep2	16416	18883	30834	1	3	4629
HT29	24590	29391	66924	1	3	5429
Rep3	14939	17782	22057	1	3	4273
Rep1	16243	18417	26106	1	3	4828
Rep2	10655	11341	18761	1	3	3957
SW480	21232	25794	61442	1	3	4974
Rep3	11920	13957	17864	1	3	3897
Rep1	8192	9231	13606	1	3	3183
Rep2	14950	17849	29972	1	3	4203
DLD1	23101	27603	61986	1	3	5322
Rep3	15656	18382	22702	1	3	4512
Rep1	13463	15061	20752	1	3	4311
Rep2	10075	11305	18532	1	3	3781

S4 CUSTOMIZED SEARCH

Group/Source/Spectrum	**Distinct Peptides**	**Distinct Matches**	**Filtered Spectra**	**Protein Groups**
	59803	76023	734278	6513
pepXML	59803	76023	734278	6513
CACO2	26377	31640	77581	5798
Rep1	18290	20915	32138	5073
Rep2	12543	14196	22193	4447
Rep3	15842	18934	23250	4729
COLO205	23126	27818	71872	5750
Rep1	13838	15601	21927	4939
Rep2	13030	14867	27268	4589
Rep3	15132	17843	22677	4728
DLD1	23399	27904	61952	5659
Rep1	13512	15105	20695	4589
Rep2	10095	11323	18504	4022
Rep3	15756	18463	22753	4806
HCT116	24207	29209	75218	5765
Rep1	13693	15804	22521	4587
Rep2	14118	16499	28262	4763
Rep3	16244	18970	24435	4844
HCT15	27409	33205	81972	5991
Rep1	16583	19048	26720	5238
Rep2	16019	18567	30352	4986
Rep3	17146	20094	24900	4879
HT29	24956	29754	66851	5762
Rep1	16355	18540	26119	5106
Rep2	10605	11285	18621	4182
Rep3	15026	17863	22111	4572
LOVO	24325	29425	72901	5683
Rep1	16487	18932	30739	4928
Rep2	12070	13592	20897	4333
Rep3	14542	17636	21265	4448
LS174T	26109	31713	85095	5814
Rep1	18087	20915	33238	4977
Rep2	15087	17883	29507	4957
Rep3	15117	17821	22350	4543
RKO	25601	31819	80515	5637
Rep1	16527	19712	31358	4745
Rep2	14310	16412	24968	4634
Rep3	16533	20078	24189	4819
SW480	21272	25723	60321	5310
Rep1	14932	17766	29483	4505
Rep2	8013	9008	13246	3363
Rep3	11849	13824	17592	4179

S6 SelTarBase genes

ABCC2
ABCF1
ACVR2A
AIM2
ANGPT2
APAF1
APC
ASTE1
ASTE
ATM
ATR
AXIN2
B2M
BAT2D1
BAT3
BAX
BCL10
BLM
BRCA1
BRCA2
C14orf106
Corf106
Corf6
C6orf80
CANX
CASP1
CASP5
CCKBR
CDC25C
CDH1
CDK2AP1
CDKL2
CDX2
CEBPZ
CEP164
CEP290
CEP57
CHD
CHEK1
COBLL1
COIL
CREBBP
CRSP3
CYSLTR1
CYSLTR
DSTN
EDD1
ELAVL3
EP300
EPHB2
ERCC5
F8
FAS
FBX046
FGFBP1
FILIP1L
FLCN
FLT3LG

FXR1
GART
GBP3
GCC2
GPRK2L
GRB14
HDAC2
HMMR
ICA1
IGF2R
INPPL1
JARID1A
KIAA0355
KIAA1333
KIF22
LARP7
LIG3
LIMK2
MAP1S
MARCKS
MBD4
MKI67
MLH3
MNS1
MSH3
MSH6
MYBL1
MYH11
MYO10
NDUFC2
NF1
NIPBL
NKTR
NRIP1
P4HB
PA2G4
PARP14
PHF14
PLXNA3
POLD3
PPRC1
PRCC
PRDM2
PRKCI
PRKDC
PRRG1
PSMB8
PTEN
PTHLH
PTPN21
PTPN23
PTPN5
PTPRA
PTPRE
PTPRS
RAD50
RBBP8
RBM35A
RECQL
REV1
REV3L
REV2L

RFC3
RGL2
RGS12
RIF1
RNASEH2B
SEC31A
SEC63
SLC16A4
SCL16A4
SLC17A2
SLC23A2
SLC4A3
SMAP1
SPINK5
SRPK1
STK11
SYCP1
TAF1B
TAP1
TAP2
TAPBP
TCF1
TCF7L2
TEAD2
TGFBR2
TIMP3
TLOC1
TMEM97
TOP2B
TTK
USP1
UVRAG
WBP1
WISP3
WNK1
WRN
XPOT
XRCC2
XRCC6
ZFP103
ZMPSTE24
ZMYND8
ZNF365
ZNF518
ZNF609
ZNF93
ZNF297

S9 MRM PARAMETERS

HGNC Gene Symbol	Peptide	Precursor (charge state); products (m/z)
BAG3	ELLALDSVDPEGR	707 (2+); 987, 874, 573, 458
BAX	TGALLLQGFIQDR	716 (2+); 977, 863, 735, 418
CAND1	EGPAVVGQFIQDVK	744 (2+); 1034, 934, 489, 651
CARM1	YTVNFLEAK	543 (2+); 820, 721, 607, 460
CDH1	NTGVISVVTTGLDR	716 (2+); 1061, 948, 761, 662
CPD	SQEGDSISVIGR	624 (2+); 1033, 903, 531, 345
DSTN	EILVGDVGVTITDPFK	852 (2+); 1249, 978, 821, 506
EEF2	YEWDVAEAR	570 (2+); 846, 660, 545, 446
ERAP1	ILASTQFEPTAAR	703 (2+); 791, 644, 515, 590
ESRP1	GLPWQSSDQDIAR	737 (2+); 1019, 891, 804, 652
FECH	GDPYPQEVSATVQK	760 (2+); 1087, 633, 674, 544
HSP90AA1	ALLFVPR	408 (2+); 631, 518, 371, 316
HSP90AB1	HLEINPDHPIVETLR	892 (2+); 1291, 1177, 965, 827
KRT18	AQIFANTVDNAR	660 (2+); 1007, 860, 789, 475
KRT19	DAEAWFTSR	542 (2+); 767, 696, 510, 363
KRT8	YEELQSLAGK	569 (2+); 845, 716, 603, 475
LMAN1	DIDNLVQR	487 (2+); 744, 402, 303, 202
MLH1	EGLAEYIVEFLK	706 (2+); 912, 748, 635, 536
MRE11A	GNDTFVTLDEILR	747 (2+); 1106, 959, 859, 645
MSH2	LLLAVFVTPLTDLR	786 (2+); 1062, 915, 815, 714
MSH6	IIDFLSALEGFK	677 (2+); 1127, 864, 751, 664
NARS	FLTWILNR	532 (2+); 802, 701, 515, 402
PAICS	EVYELLDSPGK	625 (2+); 729, 616, 503, 388
PFAS	FGEPVLAGFAR	582 (2+); 830, 521, 450, 416
RAD50	ILELDQELIK	607 (2+); 988, 858, 745, 630
TNOP1	YSDIDIILLK	597 (2+); 1030, 943, 828, 714
TTC19	GQLENAEQLFK	639 (2+); 1092, 978, 849, 664

S10 CO-EXPRESSION MODULE ANALYSIS

Module	CACO2	CACO2	CACO2	COLO2	COLO2	COLO2	HT29.I	HT29.I	HT29.I	SW480	SW480	SW480	DLD1.	DLD1.	DLD1.	HCT11	HCT11	HCT11	HCT15	HCT15	HCT15	LOVO.	LOVO.	LOVO.	LS174	LS174	LS174	RKO.R	RKO.R	RKO.R	a	m	t.test	p.value	adj.p.valu
MODULE_40	-0.56	-0.59	-0.56	-0.10	-0.27	-0.22	-0.16	-0.63	-0.14	-1.25	-2.55	-0.99	-0.42	-0.23	0.26	0.41	0.18	0.12	0.34	0.19	0.54	0.67	0.26	0.89	0.40	0.49	0.63	1.05	1.03	1.21	0.1069	-1.0692	-5.0447	0.0000	0.0041
MODULE_42	-0.09	-1.35	-0.41	-0.91	-0.78	-0.38	-1.49	-1.55	-1.10	0.44	-0.02	0.45	0.35	-0.21	0.32	0.24	-0.05	0.11	-0.06	0.14	0.30	0.65	0.39	0.64	0.59	0.54	0.55	1.13	0.65	0.90	0.0891	-0.8906	-4.2297	0.0002	0.0149
MODULE_156	0.47	-0.01	0.99	0.43	0.16	1.05	-0.03	-0.05	0.45	0.58	0.83	1.20	0.47	-0.77	-0.34	0.69	0.51	0.47	-0.35	-1.03	-0.14	-1.61	-1.75	-1.52	0.33	0.65	0.35	-0.82	-0.63	-0.59	-0.0986	0.9861	4.1683	0.0003	0.0149
MODULE_56	0.12	0.35	-0.16	0.63	0.67	0.49	0.66	0.27	0.53	-0.10	0.08	0.35	0.63	0.66	0.74	0.30	0.32	0.27	0.87	0.60	0.65	-0.84	-0.62	-1.39	-0.18	0.10	-0.26	-2.14	-1.71	-1.90	-0.0946	0.9462	3.7047	0.0009	0.0385
MODULE_152	0.04	-0.61	-0.70	-0.30	-0.50	-0.39	0.79	1.03	1.12	0.97	0.86	1.29	-0.49	-0.20	0.22	1.12	1.20	1.21	-0.31	-0.90	-0.71	0.67	0.08	-0.34	-0.75	-0.35	-0.48	-0.81	-1.53	-1.21	-0.0925	0.9249	3.5957	0.0012	0.0410
MODULE_129	-0.96	-1.34	-1.28	-0.65	-0.02	0.24	-1.06	-0.67	-1.15	0.24	0.89	0.57	-0.37	0.08	-0.06	-0.04	-0.58	0.08	-0.06	0.71	0.63	0.92	1.85	0.99	0.51	0.87	0.70	-0.09	-0.04	-0.92	0.0844	-0.8440	-3.3517	0.0023	0.0566
MODULE_54	-0.12	-0.30	-0.18	-0.29	0.35	-0.15	0.61	0.40	0.70	-0.26	-1.53	0.19	0.17	-0.67	-0.15	-1.56	-1.01	-1.59	0.31	0.76	0.09	0.55	-0.41	0.20	0.73	0.61	0.30	0.73	0.63	0.90	0.0750	-0.7505	-3.3414	0.0024	0.0566
MODULE_75	0.87	0.81	0.24	0.60	0.46	0.47	0.92	0.82	0.27	-0.61	0.25	0.14	0.55	0.12	0.55	-0.17	-0.26	-0.53	0.76	0.31	0.64	0.06	0.46	-0.14	-1.41	-1.25	-1.56	-1.41	-0.79	-1.17	-0.0764	0.7640	3.0831	0.0046	0.0906
MODULE_108	0.19	0.20	0.64	-0.20	-0.27	0.20	0.24	-1.68	0.51	-1.32	-1.75	-0.97	-1.18	-1.61	-0.64	0.47	0.72	0.72	0.36	0.29	0.41	0.53	0.31	0.76	0.49	0.23	0.64	0.44	0.62	0.64	0.0795	-0.7953	-3.0564	0.0049	0.0906
MODULE_63	0.30	0.14	0.20	0.93	-0.37	-0.17	1.20	-0.13	0.70	-0.26	-1.04	0.19	1.33	-0.30	0.29	0.67	0.69	0.93	1.34	0.46	0.01	-1.00	-1.16	-1.16	-0.61	-0.12	-0.42	-0.91	-0.87	-0.88	-0.0738	0.7376	2.9341	0.0066	0.1103
MODULE_144	0.62	0.38	1.26	1.36	0.40	0.93	1.58	0.73	1.18	0.81	-0.96	1.11	-0.76	-0.69	-0.16	-0.65	-0.66	-0.96	-0.75	-0.81	-0.54	-0.39	-0.68	-0.96	-0.56	-0.61	-0.32	-0.29	-0.11	0.51	-0.0764	0.7640	2.7973	0.0092	0.1337
MODULE_127	-0.56	0.15	-1.19	-0.71	-0.57	-0.62	-0.96	-0.35	-1.04	0.10	1.33	0.22	-0.75	0.66	-0.47	-0.27	0.32	-0.46	-0.33	0.12	-0.55	1.21	2.00	0.94	-0.06	0.09	-0.46	0.48	1.36	0.37	0.0719	-0.7194	-2.7264	0.0109	0.1337
MODULE_116	-1.45	-1.39	-0.73	0.42	1.12	0.78	0.29	0.50	0.26	-0.55	-1.04	-1.24	-0.96	-0.24	-0.80	-0.59	0.40	-0.18	0.15	0.23	0.32	-0.53	-0.36	-0.54	1.24	1.20	0.82	1.01	1.07	0.82	0.0750	-0.7503	-2.7166	0.0112	0.1337
MODULE_106	-0.76	-0.48	-0.49	-1.13	-1.28	-1.35	0.57	0.68	-0.23	-0.60	-1.64	-1.23	0.64	0.10	-0.48	0.98	0.65	0.82	0.51	0.30	0.39	-0.27	-0.08	-0.32	0.78	1.03	0.74	0.77	0.63	0.77	0.0728	-0.7277	-2.7049	0.0115	0.1337
MODULE_164	0.43	0.70	0.40	0.47	1.02	0.48	-0.21	-0.19	0.18	0.85	0.11	0.44	0.48	0.23	-0.27	0.43	-0.11	0.24	0.08	0.18	0.03	-1.51	-2.21	-3.24	0.09	0.11	-0.03	0.14	0.31	0.36	-0.0788	0.7884	2.6793	0.0122	0.1337
MODULE_26	0.63	0.52	0.50	1.99	1.62	1.72	0.87	0.89	0.70	-0.60	-0.69	-0.37	-0.53	-0.90	-0.68	0.05	-0.24	-0.41	-0.29	-0.48	-0.64	-0.41	-0.70	-0.35	-0.31	0.16	-0.54	-0.62	-0.56	-0.32	-0.0705	0.7047	2.6377	0.0135	0.1337
MODULE_124	-1.27	-1.73	-2.46	0.61	0.09	0.16	0.46	0.69	0.01	-0.99	-0.35	-1.43	0.49	0.55	-0.29	0.26	0.17	-0.11	0.50	0.79	0.21	0.00	0.18	0.48	0.55	0.39	0.66	0.22	0.50	0.67	0.0714	-0.7142	-2.6335	0.0136	0.1337
MODULE_10	-0.32	-0.38	-0.47	0.22	-0.04	0.01	-0.17	-0.52	-0.51	-0.42	-0.43	-0.31	-0.11	-0.45	-0.30	-0.11	-0.01	-0.12	0.20	-0.08	0.01	-0.13	-0.33	-0.30	-0.41	-0.14	-0.40	1.93	2.03	2.08	0.0617	-0.6171	-2.5412	0.0169	0.1549
MODULE_142	0.09	0.01	0.15	-0.64	-0.69	-0.65	0.15	-0.20	-0.35	1.39	2.46	1.09	-0.63	-0.42	-0.65	1.34	1.49	1.15	-0.52	-0.26	-0.50	-0.45	-0.63	-0.63	-0.25	0.02	-0.46	-0.37	-0.39	-0.66	-0.0708	0.7080	2.5142	0.0180	0.1549
MODULE_58	-0.59	-1.78	-0.32	0.13	-0.79	0.02	-0.49	-1.52	-0.26	0.45	-0.79	-0.13	0.36	-1.66	-0.04	0.89	0.60	0.92	0.39	0.19	0.60	-0.15	-0.75	-0.34	0.88	0.30	0.63	1.46	0.65	1.14	0.0693	-0.6927	-2.5000	0.0185	0.1549
MODULE_113	-0.13	-1.24	-0.37	-1.37	-2.27	-1.59	-0.25	-0.06	-0.30	0.47	0.15	0.64	0.20	-1.15	0.52	0.59	0.74	0.51	0.60	-0.24	0.08	1.05	0.16	1.10	0.18	-0.28	-0.20	0.86	0.47	1.13	0.0683	-0.6835	-2.3776	0.0245	0.1880
MODULE_147	0.73	1.32	0.46	0.00	0.03	-0.32	1.20	0.94	0.98	-0.40	0.54	-1.49	0.34	1.02	0.27	-0.62	0.29	-0.54	0.68	1.05	-0.07	-0.45	-1.13	-1.36	-0.47	0.38	-1.09	-0.82	-0.58	-0.87	-0.0657	0.6569	2.3606	0.0254	0.1880
MODULE_11	-0.06	-0.26	-0.08	-0.01	-0.58	-0.44	-0.02	-0.40	-0.58	-1.15	-1.81	-1.19	0.68	0.42	0.72	0.32	0.16	0.22	0.71	0.75	0.80	-0.27	-0.59	-0.69	0.15	0.14	0.23	0.87	0.93	1.05	0.0564	-0.5642	-2.3527	0.0259	0.1880
MODULE_21	1.40	1.25	1.42	1.71	1.18	1.90	-0.31	-0.51	-0.31	-0.62	-0.62	-0.39	-0.23	-0.13	0.03	-0.43	-0.36	-0.50	-0.23	-0.20	-0.31	-0.46	-0.61	-0.64	0.02	-0.13	-0.66	-0.46	-0.40	-0.44	-0.0625	0.6247	2.3020	0.0290	0.1961
MODULE_165	-0.59	-0.11	-1.60	-1.57	-1.06	-1.74	-0.92	-1.29	-0.40	0.67	1.05	0.08	0.37	0.56	0.45	-0.01	0.54	0.67	-0.37	0.36	0.28	0.61	1.17	0.80	0.13	-0.26	-0.63	1.26	0.89	0.67	0.0681	-0.6812	-2.2884	0.0299	0.1961
MODULE_66	1.10	1.07	0.40	1.17	0.48	1.23	0.29	-0.88	-0.89	0.48	-1.05	1.09	-0.78	-0.57	-0.64	0.92	0.41	0.24	-0.49	-0.43	-0.50	-0.55	-0.48	-0.78	-0.01	0.49	-0.24	-0.41	-0.44	-0.24	-0.0565	0.5646	2.2751	0.0308	0.1961
MODULE_125	-0.62	-0.54	0.47	-0.70	-1.09	-0.76	-0.72	-0.31	0.49	1.49	-0.79	1.04	-0.64	-0.96	-0.05	-0.16	-0.59	-0.06	-0.14	-0.29	0.55	-0.58	-0.67	0.16	0.27	0.40	0.48	1.96	0.76	1.58	0.0625	-0.6246	-2.2573	0.0320	0.1961
MODULE_161	0.40	1.02	0.71	1.13	0.45	0.69	0.77	0.14	-0.55	-1.00	-0.89	-1.12	1.22	0.07	1.03	1.02	-0.21	-0.14	1.02	0.33	0.60	-1.02	-0.15	-1.05	-0.21	-0.09	-0.13	-1.25	-1.34	-1.45	-0.0656	0.6556	2.2349	0.0336	0.1961
MODULE_115	0.52	-0.45	0.63	-1.19	-0.38	-0.93	-1.13	-1.12	-0.67	-0.32	-0.52	-1.43	0.81	0.05	0.30	0.31	0.25	0.59	0.00	0.46	0.79	-0.74	-1.30	-0.37	1.12	0.81	0.06	1.43	1.12	1.28	0.0647	-0.6468	-2.2284	0.0341	0.1961
MODULE_110	-0.96	-1.78	-1.32	0.38	0.14	0.36	0.47	-0.06	-0.27	-1.78	-2.12	-1.27	0.82	0.13	0.38	0.70	0.69	0.77	0.53	0.35	0.10	0.19	-0.15	0.31	0.61	0.83	0.88	0.38	0.24	0.42	0.0650	-0.6501	-2.1878	0.0372	0.2068
MODULE_134	0.10	0.06	0.42	0.65	1.05	1.22	0.64	0.36	0.64	-0.55	-1.43	-0.27	0.45	0.16	0.44	0.47	0.23	0.02	0.45	0.19	0.57	-1.41	-1.64	-0.69	0.67	0.64	0.86	-1.52	-0.94	-1.84	-0.0646	0.6458	2.1535	0.0400	0.2068
MODULE_111	0.74	1.05	0.23	-0.77	-1.08	-1.20	0.29	-0.40	0.13	0.42	0.99	0.66	1.00	0.91	0.73	0.26	0.35	0.28	0.57	0.53	0.54	0.35	0.54	0.21	-1.04	-0.76	-0.72	-1.50	-1.93	-1.37	-0.0638	0.6381	2.1458	0.0407	0.2068
MODULE_47	-0.98	-1.63	-0.55	0.47	0.55	0.58	0.24	-0.31	0.12	-0.67	-2.38	-0.80	0.05	-0.90	-0.02	0.63	0.56	0.69	0.13	-0.29	-0.34	0.22	-0.55	0.29	0.62	0.48	0.61	1.11	0.96	1.14	0.0607	-0.6065	-2.1405	0.0412	0.2068
MODULE_14	0.10	-0.03	-0.20	-0.40	-0.47	-0.45	-0.42	0.13	-0.48	0.03	-0.36	-0.22	-0.38	-0.27	-0.16	-0.18	-0.23	0.05	-0.04	-0.15	0.03	2.14	1.90	2.19	-0.25	-0.61	-0.50	-0.26	-0.08	-0.42	0.0549	-0.5484	-2.1299	0.0421	0.2068
MODULE_49	-0.04	0.11	0.48	-1.62	-1.63	-1.13	-0.85	-0.19	-0.06	0.72	0.94	0.79	-0.05	-1.10	-0.42	0.14	-0.05	0.02	-0.11	-0.01	-0.23	0.58	0.91	1.06	-0.49	-0.31	-0.07	0.98	0.65	1.00	0.0550	-0.5497	-2.0933	0.0455	0.2143
MODULE_166	0.60	-0.15	0.36	0.66	1.05	0.86	1.42	1.30	0.58	-0.58	-1.02	-0.19	0.67	0.81	0.47	-0.15	-0.58	-1.52	-0.02	-0.38	-1.07	-0.78	-0.58	-1.36	0.77	0.98	0.89	-1.05	-1.05	-0.95	-0.0638	0.6375	2.0861	0.0462	0.2143
MODULE_12	-0.38	-0.65	-0.46	0.58	0.45	0.48	0.13	-0.27	-0.03	-0.35	-0.83	-0.63	-0.16	-0.51	-0.41	-0.04	-0.48	-0.26	-0.36	-0.66	-0.48	0.75	0.46	0.80	1.66	1.51	1.83	-0.60	-0.59	-0.51	0.0527	-0.5271	-2.0640	0.0484	0.2184
MODULE_25	0.11	-0.39	0.17	-0.17	-0.46	-0.45	-0.43	-0.54	-0.32	-0.61	-3.03	-0.61	0.55	-0.72	0.05	1.01	0.73	0.91	0.55	0.27	0.71	-0.29	-1.08	-0.34	0.73	0.47	0.43	1.05	0.81	0.92	0.0587	-0.5867	-1.9826	0.0573	0.2484
MODULE_92	1.35	1.91	1.42	0.82	0.06	-0.60	0.89	-0.20	0.18	-0.54	-0.59	-0.07	0.82	-0.54	0.14	-0.97	-0.02	-0.08	1.00	0.92	-0.15	-0.84	-0.35	-0.63	-0.70	-0.80	-0.41	-0.96	-0.17	-0.91	-0.0553	0.5532	1.9686	0.0590	0.2484
MODULE_91	-0.34	-0.18	-0.71	1.77	2.03	1.89	-0.40	-0.30	-0.73	-0.42	0.08	-0.87	-0.26	-0.17	0.10	1.19	0.98	0.33	0.01	-0.04	-0.38	-0.33	-0.23	-0.57	-0.69	-0.59	-0.95	-0.07	0.08	-0.23	-0.0553	0.5535	1.9643	0.0595	0.2484
MODULE_88	0.04	-0.03	-0.05	0.47	0.06	0.36	-0.22	-3.23	-0.29	-0.71	-0.85	-0.68	0.49	0.33	-0.02	0.43	-0.08	-0.12	0.02	0.48	0.17	-0.83	-0.64	-0.41	0.63	0.96	0.64	1.10	1.07	0.92	0.0569	-0.5694	-1.9453	0.0618	0.2511
MODULE_126	0.60	1.17	-0.85	-1.03	-0.97	-1.31	-0.30	0.02	-0.75	-1.00	-1.02	-0.46	0.05	-0.04	-0.35	0.73	1.33	0.26	0.30	0.88	-0.24	-0.14	-0.26	0.12	0.00	0.01	-0.65	1.24	1.53	1.18	0.0547	-0.5473	-1.9350	0.0632	0.2511
MODULE_109	0.04	-0.84	-0.31	-0.40	-0.60	-0.60	0.30	-1.14	-0.27	-0.92	-1.21	-1.23	0.83	-0.33	0.69	0.69	0.55	1.11	1.00	1.13	1.16	0.56	-0.52	0.19	0.59	0.57	0.30	-0.38	-0.60	-0.37	0.0505	-0.5053	-1.9131	0.0660	0.2529
MODULE_93	-1.28	-0.70	-0.89	0.67	0.64	0.80	-0.55	-0.19	-0.29	-0.54	-1.01	-0.67	-1.01	0.17	-0.93	0.44	1.28	0.21	0.60	0.59	0.00	-1.07	-0.52	-0.78	0.71	0.83	0.24	1.24	1.31	0.71	0.0538	-0.5380	-1.9085	0.0666	0.2529
MODULE_79	-0.29	-0.74	-0.19	-1.69	-0.99	-0.42	-1.09	0.03	0.27	1.43	1.12	0.80	-0.70	-0.42	0.22	-0.12	-0.87	-0.10	-1.31	-0.32	0.18	0.40	0.90	1.04	-0.03	0.12	0.06	1.31	0.57	0.82	0.0519	-0.5191	-1.8406	0.0763	0.2832
MODULE_90	0.12	-0.59	-0.47	-0.69	-0.98	-0.28	-0.73	-0.97	-0.21	0.44	-1.27	0.38	0.46	-1.12	-0.14	1.34	0.81	0.44	-0.46	-0.51	-0.40	-0.26	-0.12	-0.02	0.58	0.55	0.28	1.28	1.24	1.29	0.0480	-0.4799	-1.8012	0.0825	0.2993
MODULE_100	-0.09	-0.50	-0.09	-0.08	-0.28	-0.29	1.14	1.60	1.55	1.51	1.70	1.84	-0.86	-0.85	-0.01	-1.21	-0.47	-0.70	-0.31	-0.09	-0.16	-0.12	-0.03	-0.04	-0.54	-0.58	-0.31	-0.56	-0.68	-0.49	-0.0543	0.5430	1.7863	0.0849	0.2993
MODULE_162	0.57	0.21	0.81	1.36	1.39	1.22	0.61	-0.14	-0.06	-0.44	-1.25	0.53	0.01	-0.77	0.21	-0.18	-0.36	0.13	0.69	-0.03	0.39	0.03	-0.91	0.31	-0.48	0.40	0.84	-1.93	-1.67	-1.53	-0.0540	0.5400	1.7598	0.0894	0.2993
MODULE_1	2.11	2.00	1.96	-0.14	-0.21	-0.20	-0.44	-0.38	-0.44	0.15	0.23	0.09	-0.22	-0.31	-0.20	-0.37	-0.20	-0.20	-0.33	-0.26	-0.31	0.06	-0.07	-0.11	-0.27	-0.31	-0.40	-0.43	-0.45	-0.35	-0.0449	0.4486	1.7594	0.0894	0.2993
MODULE_137	0.88	0.60	0.71	0.11	0.03	0.18	0.68	0.44	0.50	0.47	1.09	0.32	-0.52	-0.55	-0.99	-0.35	0.01	-0.06	-1.83	-1.99	-1.87	0.33	0.58	0.10	0.15	0.35	0.02	-0.14	0.55	0.20	-0.0492	0.4922	1.7584	0.0896	0.2993
MODULE_4	-0.03	-0.28	-0.07	0.43	0.22	0.15	0.55	0.64	0.54	0.06	0.15	0.40	0.33	0.13	0.43	-0.13	-0.06	-0.08	0.23	0.16	0.14	0.55	0.48	0.58	0.29	0.16	0.32	-2.07	-2.12	-2.13	-0.0472	0.4716	1.7438	0.0922	0.3018
MODULE_19	0.23	0.45	0.30	-0.27	-0.28	-0.27	-0.46	-0.28	-0.38	2.06	2.09	2.31	-0.26	-0.52	-0.60	-0.10	-0.26	-0.34	-0.28	-0.36	-0.45	-0.09	-0.21	-0.06	-0.26	-0.26	-0.29	-0.40	-0.51	-0.25	-0.0476	0.4756	1.7210	0.0963	0.3092
MODULE_101	0.21	-0.51	-0.43	-0.51	0.06	0.13	-0.16	-0.07	0.08	2.53	0.31	3.21	-0.20	0.17	-0.11	-0.20	-0.44	-0.43	-0.43	-0.51	-0.39	-0.22	0.02	0.17	-0.26	-0.40	-0.38	-0.25	-0.51	-0.51	-0.0507	0.5073	1.7043	0.0994	0.3132
MODULE_28	-0.62	-0.66	-0.24	1.51	1.11	1.26	1.70	1.24	1.41	0.07	-0.25	0.52	-0.72	-0.81	-0.49	-0.77	-0.43	-0.45	-0.48	-0.63	-0.12	-0.06	-0.52	-0.13	0.43	0.07	0.34	-0.94	-0.67	-0.66	-0.0468	0.4675	1.6322	0.1138	0.3467
MODULE_135	0.02	-1.43	-0.19	0.68	0.57	0.69	-0.31	-1.32	-0.63	0.55	-0.80	-0.86	0.10	-2.27	-0.17	0.57	0.79	0.38	0.68	0.30	0.65	-0.09	-1.75	-0.21	0.28	0.46	0.29	1.20	0.88	0.93	0.0502	-0.5020	-1.6250	0.1154	0.3467
MODULE_146	-0.54	0.80	-0.78	1.04	2.18	0.91	0.68	0.79	-0.04	-1.21	-0.32	-0.91	-0.16	0.84	-0.17	0.43	0.48	-0.37	0.20	0.64	-0.04	-0.16	0.59	0.10	-0.39	0.42	-0.42	-1.86	-1.18	-1.54	-0.0506	0.5063	1.6191	0.1166	0.3467
MODULE_70	-0.07	-0.95	0.04	-0.40	-0.64	-0.20	-0.58	-0.91	0.18	1.25	0.00	1.11	-0.43	-2.61	-0.15	0.28	0.33	0.47	-0.05	-0.50	0.28	1.16	0.46	1.42	-0.05	-0.46	0.10	0.62	0.01	0.29	0.0455	-0.4547	-1.6112	0.1183	0.3467
MODULE_16	0.44	0.59	0.17	-0.66	-0.67	-0.92	-0.33	-0.56	-0.21	-1.07	-1.43	-1.68	0.29	0.72	0.17	0.76	0.73	0.60	0.54	0.78	0.77	-0.31	-0.32	-0.88	0.11	0.16	-0.30	0.78	1.07	0.66	0.0425	-0.4251	-1.5912	0.1228	0.3536
MODULE_39	-0.63	-0.72	-0.47	-0.54	-0.12	-0.16	-0.34	-0.15	-0.09	-0.37	-0.60	-0.27	-0.25	-0.61	-0.42	0.79	0.70	1.27	-0.50	0.02	-0.46	-0.26	-0.29	-0.13	0.03	-0.31	-0.25	1.71	1.47	1.94	0.0414	-0.4141	-1.5750	0.1265	0.3580
MODULE_72	-0.63	-0.73	-0.78	1.25	1.47	1.37	-0.41	0.14	-0.43	1.39	1.55	1.52	-0.27	-0.50	-0.67	-0.53	-0.08	-0.56	-0.48	-0.24	-0.14	0.10	-0.17	0.07	-0.53	-0.53	-0.29	-0.43	-0.38	-0.10	-0.0433	0.4325	1.5590	0.1302	0.3582
MODULE_23	0.82	0.91	1.08	0.64	1.11	0.85	0.46	0.67	0.70	-0.57	-0.27	-1.06	-0.05	-0.26	-0.14	-0.51	-0.66	-0.62	-0.47	-0.34	-0.29	-0.17	0.14	-0.22	0.68	0.74	0.90	-1.30	-1.37	-1.38	-0.0430	0.4296	1.5564	0.1308	0.3582
MODULE_150	-0.34	-0.61	1.66	-0.61	-0.23	-0.26	-0.27	-0.61	-0.61	-0.61	-0.61	-0.61	0.25	-0.61	0.54	-0.61	-0.10	1.04	1.28	1.60	2.29	0.15	-0.22	-0.61	-0.28	0.35	0.16	-0.61	-0.26	-0.61	0.0449	-0.4485	-1.5281	0.1377	0.3618
MODULE_35	0.08	0.62	-0.73	-0.05	0.03	-0.84	-0.60	-1.03	-1.05	-0.80	-0.79	-0.72	0.71	1.08	0.09	0.79	0.52	-0.21	0.99	0.75	0.51	-0.52	-0.29	-0.74	-0.41	0.16	-0.68	0.84	1.28	1.01	0.0403	-0.4032	-1.5243	0.1387	0.3618
MODULE_103	-0.59	0.15	0.04	-0.31	-0.07	-0.44	-0.50	-0.47	-0.66	-0.56	-0.60	-1.09	1.41	0.85	1.49	-1.09	-0.41	-0.23	0.61	0.86	0.65	-0.01	-0.09	0.09	1.05	1.01	1.30	-0.94	-0.87	-0.59	0.0427	-0.4267	-1.5243	0.1387	0.3618
MODULE_32	0.52	0.71	0.66	0.13	0.40	-0.21	0.35	0.61	0.09	-0.38	-0.33	-0.86	0.25	0.28	0.16	0.20	0.29	-0.03	0.25	0.42	0.25	-1.46	-1.56	-2.48	0.16	0.22	-0.13	0.33	0.70	0.45	-0.0396	0.3965	1.5026	0.1441	0.3703
MODULE_96	0.28	0.19	0.05	0.42	-0.04	0.57	-1.01	-1.09	-1.37	-0.32	-2.07	-0.99	0.28	-0.89	-0.02	0.99	0.84	0.99	0.44	-0.11	0.09	-0.38	-0.54	-1.03	0.73	0.59	0.71	1.26	0.57	0.85	0.0444	-0.4435	-1.4867	0.1483	0.3751
MODULE_46	0.55	0.42	0.31	0.23	-0.88	-0.77	-0.97	-1.08	-1.17	-0.69	-1.45	-0.28	0.89	-0.44	1.08	0.65	-0.23	0.91	0.67	0.13	0.80	-0.46	-0.81	-0.52	0.27	0.14	-0.55	1.21	0.79	1.26	0.0406	-0.4063	-1.4105	0.1694	0.4222
MODULE_9	0.60	0.47	0.60	0.19	-0.57	-0.20	0.51	0.50	0.58	-0.75	-0.41	-0.60	0.31	0.41	0.69	-0.07	0.24	0.19	0.38	0.17	0.44	0.33	0.40	0.23	0.39	0.17	0.42	-1.98	-1.88	-1.77	-0.0375	0.3745	1.3843	0.1772	0.4325
MODULE_138	1.06	0.58	0.84	-0.44	-0.77	-0.55	1.07	1.00	1.01	-0.38	-0.61	-0.19	-0.98	-0.89	-0.69	0.81	1.12	0.89	-0.26	-0.75	-0.83	-0.90	-0.19	-1.12	-0.56	-0.42	-0.41	0.94	0.71	0.91	-0.0399	0.3985	1.3700	0.1816	0.4325
MODULE_95	1.22	1.09	1.10	-1.29	-0.96	-1.38	-0.42	-0.89	-0.58	0.08	0.16	0.63	-0.01	0.59	0.43	1.00	1.18	0.99	0.35	0.19	0.61	0.22	-0.01	0.33	-0.58	-0.38	-0.34	-0.88	-1.53	-0.92	-0.0408	0.4085	1.3663	0.1827	0.4325
MODULE_2	-0.24	-0.27	-0.29	2.24	2.09	1.96	0.49	-0.31	-0.11	-0.33	-0.30	-0.22	-0.29	-0.36	-0.30	-0.38	-0.39	-0.37	-0.16	-0.20	-0.36	-0.11	-0.17	-0.39	-0.08	0.02	-0.25	-0.43	-0.26	-0.25	-0.0365	0.3652	1.3588	0.1851	0.4325
MODULE_128	0.60	-0.39	0.58	-0.85	-1.82	-0.70	-0.89	-0.68	-0.51	0.62	-0.49	0.43	0.43	-0.95	0.73	0.77	-0.39	0.63	-0.48	0.15	0.82	0.02	-1.42	-0.67	0.73	0.01	0.26	0.85	1.39	1.20	0.0397	-0.3968	-1.3513	0.1874	0.4325
MODULE_102	0.42	0.43	0.01	-0.30	-1.24	-0.50	0.29	0.09	-0.29	-1.82	-2.02	-1.21	0.83	0.86	0.79	0.80	-0.29	0.20	0.83	0.73	0.65	-0.17	0.08	-1.34	-0.05	-0.19	-0.24	0.76	0.92	0.96	0.0411	-0.4105	-1.3425	0.1902	0.4325
MODULE_151	0.40	-0.23	-0.15	0.99	-0.85	-0.31	0.58	-0.31	-0.72	-0.72	-0.96	-0.25	-0.19	0.88	1.06	-0.63	-0.42	-1.00	0.96	1.42	0.09	1.32	1.29	1.07	-0.88	-1.01	-1.06	-0.19	0.11	-0.30	0.0392	-0.3913	-1.3318	0.1937	0.4325
MODULE_81	0.93	1.05	1.05	-0.03	-0.59	-0.54	0.40	0.30	0.79	-0.71	-0.69	-0.09	0.25	0.58	0.86	-0.68	-0.11	-0.08	0.67	0.42	0.61	0.04	-0.38	-0.42	-1.45	-1.50	-1.90	0.35	0.29	0.56	-0.0374	0.3744	1.3300	0.1942	0.4325
MODULE_62	-0.94	-0.90	-0.88	-0.28	-0.45	-0.69	0.47	0.80	0.93	-1.08	-0.71	-0.71	0.99	0.81	1.04	-0.53	-0.58	0.12	0.49	-0.28	-0.40	0.80	0.84	0.22	1.23	0.81	0.84	-0.80	-0.77	-0.38	0.0359	-0.3594	-1.2879	0.2083	0.4517
MODULE_30	-0.21	-0.60	0.06	0.53	0.36	1.32	0.00	-0.08	0.30	-1.58	-1.51	-1.35	-0.60	-0.33	-0.16	0.39	0.21	0.67	0.01	-0.34	0.18	-0.52	-1.25	-0.27	0.53	0.44	0.96	0.83	0.83	1.18	0.0358	-0.3578	-1.2830	0.2100	0.4517
MODULE_60	1.16	1.17	1.28	1.16	0.93	1.15	0.44	0.86	0.51	-1.20	-1.04	-0.54	-0.39	-0.62	-0.47	-0.37	-0.96	-0.27	-0.22	-0.29	0.11	-1.02	-0.95	-1.07	0.78	0.55	0.90	-0.76	-0.58	-0.24	-0.0389	0.3893	1.2802	0.2110	0.4517
MODULE_53	0.55	0.92	0.65	0.30	-0.33	-0.12	-0.43	-1.45	-0.76	0.33	0.41	0.66	0.72	0.12	1.03	0.14	0.01	-0.22	0.44	0.03	0.40	-1.16	-1.26	-1.09	-0.77	-0.91	-1.09	0.79	1.10	1.00	-0.0350	0.3496	1.2391	0.2256	0.4733
MODULE_107	-0.82	-0.57	-0.93	1.38	1.12	1.27	-0.68	-0.31	-1.12	0.19	-0.60	0.05	0.12	-0.69	0.22	-0.74	-0.33	-0.06	0.75	0.25	0.42	-0.81	-0.82	-1.12	0.90	0.90	1.24	0.35	0.47	-0.04	0.0348	-0.3484	-1.2326	0.2280	0.4733
MODULE_68	0.24	0.26	0.21	1.47	1.05	1.21	0.26	0.25	-0.18	-1.27	-2.05	-0.80	0.63	1.02	-0.51	0.25	0.30	0.27	0.55	0.24	-0.33	-0.94	-1.56	-1.06	0.55	0.41	0.23	-0.42	-0.18	-0.13	-0.0368	0.3681	1.2283	0.2296	0.4733
MODULE_131	-0.42	0.65	-0.10	-0.42	-0.12	-0.07	-1.12	-1.16	-1.31	0.53	1.22	-0.52	0.25	-0.15	-0.09	-0.22	0.52	0.09	0.10	0.48	0.11	0.37	0.79	0.36	-1.18	-0.89	-1.32	1.08	1.18	1.34	0.0337	-0.3374	-1.1902	0.2440	0.4969
MODULE_133	0.30	-0.10	-0.33	-0.53	-0.44	-0.64	-0.20	-0.02	-0.31	0.54	0.82	0.87	0.56	0.56	0.63	0.20	0.18	0.26	1.07	0.97	0.67	-0.82	-0.68	-0.63	0.78	0.63	0.57	-1.45	-1.69	-1.78	-0.0327	0.3267	1.1288	0.2686	0.5333
MODULE_148	0.19	-0.09	-0.54	-0.71	-0.59	-0.32	-0.09	-0.47	-0.26	-0.63	-0.26	-0.83	-0.47	1.69	0.98	-0.20	-0.11	0.19	-0.15	1.37	-0.04	-0.61	-0.49	-0.97	-0.12	-0.13	-1.30	1.88	1.84	1.27	0.0352	-0.3524	-1.1267	0.2694	0.5333
MODULE_69	-0.23	-0.72	-0.42	1.36	1.38	0.94	1.49	1.35	0.71	-0.74	-1.06	-0.70	0.98	-0.31	0.30	-0.84	-0.34	-0.75	0.69	0.54	0.31	-0.32	-0.64	-0.66	0.00	0.36	-0.07	-1.03	-0.76	-0.85	-0.0336	0.3362	1.1219	0.2714	0.5333
MODULE_59	0.61	-0.70	0.18	0.02	-0.46	0.55	-0.45	-1.34	-0.50	-0.67	-1.37	-1.19	0.98	-1.18	0.56	0.76	0.73	1.03	0.76	0.57	1.32	-0.68	-1.31	-0.88	0.61	0.52	0.57	0.47	-0.18	0.65	0.0337	-0.3376	-1.1097	0.2766	0.5338
MODULE_149	-0.92	-0.32	-0.68	-0.87	-0.38	-0.91	0.32	-0.23	-0.32	0.69	2.60	0.47	-0.33	0.35	-0.35	-0.33	-0.50	-0.72	-0.77	-0.63	-0.28	0.38	2.18	0.74	-0.22	-0.44	-0.04	0.62	0.75	0.15	0.0339	-0.3393	-1.1061	0.2781	0.5338
MODULE_20	1.16	1.28	1.25	-0.12	-0.14	-0.82	1.26	1.55	1.34	-0.78	-0.56	-0.68	-0.37	-0.05	-0.19	-0.71	-0.60	-0.75	-0.09	0.22	-0.21	-0.39	0.28	-0.48	-0.02	-0.15	-0.21	-0.43	-0.16	-0.44	-0.0290	0.2899	1.0833	0.2879	0.5417
MODULE_55	1.16	0.90	0.69	-1.10	-1.19	-1.18	-0.02	0.23	0.30	0.70	0.15	0.64	-0.87	-1.95	-0.58	-0.73	0.27	0.48	0.01	0.13	-0.13	0.25	0.07	0.20	-0.12	-0.42	-0.07	0.91	0.64	0.64	0.0293	-0.2932	-1.0815	0.2887	0.5417
MODULE_71	0.28	-0.04	0.22	-0.74	-0.58	-0.94	1.25	1.15	1.23	-0.11	-0.52	0.16	-0.62	-1.17	-0.37	-0.67	-0.43	-0.46	-0.51	-0.71	-0.73	1.14	0.86	1.40	1.13	0.81	1.22	-0.78	-0.76	-0.73	0.0325	-0.3248	-1.0587	0.2988	0.5544
MODULE_44	-0.80	-0.74	-1.03	0.57	0.43	-0.10	0.07	0.29	-0.06	-0.79	-1.35	-2.18	0.62	0.46	0.14	1.05	0.61	0.62	0.83	0.69	0.15	-0.68	-0.88	-1.01	0.49	0.32	0.18	0.63	0.73	0.72	0.0305	-0.3045	-1.0444	0.3052	0.5601
MODULE_77	1.30	0.59	1.15	-0.57	-0.74	-0.96	-0.46	-0.56	-0.64	-0.17	-0.27	-0.12	-0.63	-0.02	-0.48	1.79	1.34	1.59	0.79	0.52	0.44	-0.28	-0.20	-0.28	-0.46	-0.52	-0.78	-0.41	-0.54	-0.41	-0.0297	0.2974	1.0325	0.3107	0.5605
MODULE_83	-0.33	-0.72	-0.58	-0.45	-0.61	-0.50	0.31	-0.38	-0.04	-0.50	-0.69	-0.71	-0.66	-0.81	-0.19	1.49	1.94	1.39	-0.18	-0.51	-0.66	0.14	-0.05	0.75	0.01	0.20	0.01	1.24	0.23	0.85	0.0284	-0.2839	-1.0280	0.3127	0.5605
MODULE_24	0.15	-0.12	0.06	-0.52	-0.53	-0.25	-0.46	-0.59	-0.70	-0.20	-0.86	-0.66	-0.35	0.00	-0.44	1.07	1.32	1.10	0.29	0.14	0.26	-0.37	-0.79	-0.51	-0.29	-0.67	-0.23	1.71	1.04	1.39	0.0274	-0.2742	-1.0221	0.3155	0.5605
MODULE_94	-0.81	-0.60	-1.34	1.08	0.44	0.43	-0.31	-0.18	-1.25	-1.18	-1.34	-0.68	0.59	-0.23	0.16	0.98	1.14	0.89	1.17	0.47	0.70	-0.82	-0.90	-0.84	0.60	0.65	0.84	-0.02	0.44	-0.07	0.0306	-0.3058	-1.0109	0.3207	0.5638
MODULE_27	-1.14	-1.01	-1.15	0.59	0.55	0.80	0.55	0.55	0.38	1.06	1.04	1.04	-0.55	-0.84	-0.63	0.36	0.21	0.14	-0.93	-0.64	-0.45	0.91	0.19	0.59	0.20	0.26	0.24	-0.79	-0.81	-0.70	-0.0270	0.2702	1.0006	0.3256	0.5664
MODULE_50	0.64	0.51	0.52	-1.70	-2.58	-2.04	0.12	0.12	-0.34	0.05	0.26	0.49	0.67	0.39	0.43	0.07	0.19	0.17	0.47	0.28	0.29	0.01	0.07	-0.09	0.03	0.07	0.19	0.08	0.41	0.21	0.0280	-0.2797	-0.9919	0.3297	0.5677
MODULE_119	-1.03	-0.41	-0.64	0.17	-0.25	0.10	-0.24	-0.11	-0.10	0.81	0.85	0.48	-0.65	-0.72	-0.67	1.43	1.27	1.75	-1.01	-0.56	-0.70	0.67	1.22	1.07	-0.34	-0.18	-0.53	-0.45	-0.53	-0.73	-0.0286	0.2858	0.9747	0.3381	0.5761
MODULE_22	0.25	-0.37	0.27	0.35	0.47	0.70	0.65	0.32	0.65	-0.74	-2.62	-0.96	0.24	-1.89	-0.08	0.27	0.27	0.15	0.01	-0.23	0.18	-0.11	-1.37	0.23	1.03	0.81	0.91	0.27	-0.17	0.53	0.0291	-0.2912	-0.9612	0.3447	0.5792
MODULE_76	0.16	0.01	0.50	0.90	0.48	0.47	0.56	0.13	0.21	-0.07	-1.85	-0.17	0.35	-0.62	0.47	-1.17	-1.28	-0.86	0.43	0.51	0.62	-0.81	-1.29	-0.11	0.16	0.27	0.40	0.08	0.90	0.64	0.0249	-0.2493	-0.9442	0.3531	0.5792
MODULE_136	0.56	-0.15	0.46	1.16	0.88	1.26	-0.58	-0.85	-0.65	-0.17	-0.85	-0.51	0.61	-0.72	-0.44	-0.85	-0.68	-0.49	0.77	0.63	-0.28	1.46	1.39	1.33	-0.85	-0.60	-0.85	-0.46	0.06	-0.56	0.0282	-0.2816	-0.9430	0.3537	0.5792
MODULE_57	0.06	0.38	0.26	-2.02	-1.91	-2.03	-0.55	0.07	-0.43	0.34	1.20	0.65	0.62	0.85	0.59	-0.42	0.15	0.22	0.20	-0.04	0.20	0.52	0.71	0.65	-0.33	-0.02	-0.04	0.21	0.04	-0.15	0.0274	-0.2744	-0.9396	0.3554	0.5792
MODULE_123	1.48	0.91	0.99	1.39	-0.39	-0.18	1.45	-0.60	-0.17	-0.81	-0.81	-0.60	1.16	-0.44	0.82	-0.57	-0.81	-0.81	1.50	0.44	0.33	-0.19	-0.62	-0.28	-0.44	-0.25	-0.63	-0.51	-0.57	-0.81	-0.0283	0.2832	0.9361	0.3572	0.5792
MODULE_80	0.60	-0.50	-0.03	1.67	-0.30	0.57	1.03	0.31	0.17	-0.33	-0.80	-0.59	1.00	-0.15	0.95	-0.61	-0.41	-0.80	1.73	0.70	0.21	-0.26	-0.33	-0.80	-0.39	-0.47	-0.19	-0.64	-0.68	-0.68	-0.0248	0.2484	0.9168	0.3671	0.5895
MODULE_160	2.33	1.05	1.93	-0.16	-0.57	-0.57	-0.26	-0.57	0.44	-0.38	-0.57	0.05	-0.57	0.65	0.12	-0.57	-0.57	0.02	0.96	0.00	-0.03	0.64	-0.57	-0.57	-0.02	-0.23	-0.22	-0.57	-0.57	-0.57	-0.0247	0.2471	0.8752	0.3889	0.6186
MODULE_52	-0.40	-0.34	-0.36	-0.38	-0.51	-0.43	-0.48	-0.53	-0.79	0.16	-0.16	0.23	-0.14	0.02	-0.26	1.51	2.27	2.36	0.73	-0.06	-0.19	-0.37	-0.44	-0.23	-0.61	-0.36	-0.48	0.07	0.04	0.14	-0.0245	0.2452	0.8543	0.4002	0.6281
MODULE_33	1.21	1.25	1.00	-0.43	-0.68	-0.57	-0.58	-0.47	-0.68	0.61	0.50	0.30	-0.18	-0.54	-0.58	0.28	0.60	0.53	-0.04	-0.08	0.03	-0.71	-0.72	-0.93	-0.84	-0.55	-0.51	0.93	0.81	1.02	-0.0220	0.2202	0.8502	0.4024	0.6281
MODULE_67	-0.61	-1.14	-0.67	0.90	0.54	0.86	0.91	0.99	0.95	-0.91	-1.55	-1.20	-0.09	-0.87	0.42	-0.22	-0.29	0.11	0.37	0.27	0.48	0.82	-0.38	0.70	1.18	0.71	1.01	-1.01	-1.31	-0.98	0.0260	-0.2596	-0.8176	0.4205	0.6502
MODULE_64	0.73	0.32	1.00	-0.41	-0.39	-0.34	0.66	0.83	0.99	0.31	-0.28	0.26	-0.98	-0.85	-0.46	-1.08	-1.04	-0.99	-0.89	-0.88	-0.50	0.73	0.85	1.59	0.83	0.34	1.04	-0.42	-0.60	-0.40	0.0237	-0.2366	-0.8081	0.4258	0.6524
MODULE_5	-0.34	-0.57	-0.55	0.31	0.36	0.36	2.01	1.81	1.74	-0.66	-0.67	-0.71	-0.26	-0.30	-0.14	-0.08	-0.22	-0.60	-0.16	-0.36	-0.42	0.23	0.18	0.14	0.12	0.18	0.04	-0.49	-0.57	-0.37	-0.0207	0.2070	0.7777	0.4433	0.6729
MODULE_31	0.88	1.33	1.14	-0.08	-0.31	-0.18	-0.65	-0.97	-0.73	-0.91	-0.65	-0.72	1.37	1.29	1.16	0.02	-0.18	-0.33	0.76	0.52	0.35	-0.29	-0.33	-0.57	-0.29	-0.49	-0.25	-0.45	-0.28	-0.13	-0.0203	0.2025	0.7542	0.4570	0.6876
MODULE_122	0.37	0.42	0.15	0.30	0.95	1.13	0.08	0.85	0.22	0.64	0.56	0.39	-1.79	-1.77	-1.58	0.14	0.69	-0.15	-0.95	-0.97	-0.86	0.38	0.67	0.52	0.34	0.32	0.59	-0.65	-0.29	-0.71	-0.0224	0.2236	0.7422	0.4641	0.6886
MODULE_153	-0.83	-0.83	-0.83	-0.44	-0.34	-0.52	0.00	-0.49	-0.06	0.29	-0.83	0.84	0.99	-0.60	0.92	1.48	1.17	1.62	1.15	0.01	1.25	-0.57	-0.10	-0.51	-0.67	-0.44	-0.62	-0.39	-0.21	-0.46	-0.0217	0.2166	0.7391	0.4660	0.6886
MODULE_97	-0.09	-0.01	-0.14	1.10	0.77	1.00	0.46	-0.09	-0.23	-1.20	-2.07	-1.49	0.94	0.95	0.39	0.52	0.62	0.14	0.73	0.33	0.41	-0.86	-1.37	-0.36	-0.35	-0.26	-0.77	0.17	0.20	0.54	-0.0219	0.2185	0.7313	0.4707	0.6895
MODULE_87	0.36	0.43	0.02	0.14	-0.25	-0.37	-0.46	-0.39	-1.06	-0.99	-1.74	-0.54	-0.14	-0.20	0.14	1.08	1.33	1.09	0.73	0.76	0.79	-0.70	-0.75	-0.86	-0.59	-0.11	-0.87	1.04	1.11	1.01	0.0216	-0.2155	-0.7181	0.4787	0.6915

MODULE_17	-0.83	-0.97	-0.73	1.02	1.12	1.07	1.00	0.61	0.78	-0.61	-1.50	-0.60	-0.44	-1.35	-0.32	0.18	0.27	-0.12	0.54	0.06	0.28	0.04	-0.44	-0.13	0.65	0.74	0.80	-0.26	-0.28	-0.58	0.0196	-0.1965	-0.7153	0.4803	0.6915
MODULE_112	-0.70	-0.60	-0.70	-0.84	-0.99	-0.91	-0.67	-0.59	-0.42	1.28	2.26	2.00	0.17	-0.18	0.36	-0.51	-0.26	-0.28	0.74	0.21	0.96	0.69	0.74	0.25	-0.68	-0.78	-0.72	0.21	0.09	-0.12	0.0220	-0.2199	-0.6971	0.4915	0.7015
MODULE_6	0.12	0.23	0.38	0.73	0.83	0.75	0.35	0.30	0.38	-1.54	-2.32	-1.63	0.00	-0.24	-0.03	0.11	0.18	0.09	0.27	0.11	-0.06	-0.06	-0.39	-0.15	0.78	0.78	0.72	-0.35	-0.13	-0.18	0.0186	-0.1862	-0.6874	0.4975	0.7041
MODULE_154	-0.17	-0.61	-0.06	1.17	0.30	1.51	-1.02	-0.90	-0.96	0.26	-0.42	0.13	-0.47	-0.74	-0.82	0.47	0.58	0.34	0.15	0.44	-0.86	-0.93	-0.94	-0.33	1.21	1.15	1.54	-0.44	0.13	0.30	0.0197	-0.1968	-0.6711	0.5077	0.7119
MODULE_145	0.10	0.49	-0.49	0.97	0.19	-0.01	1.12	1.51	-0.45	-1.60	-1.26	-0.51	0.75	0.80	-0.31	-0.81	-0.99	-0.99	1.03	0.49	0.53	-0.31	-0.37	-1.26	0.75	0.73	0.80	-0.68	0.16	-0.40	0.0204	-0.2041	-0.6649	0.5116	0.7119
MODULE_132	0.32	0.87	0.73	0.02	1.08	1.05	-0.40	-0.33	0.28	-0.99	-0.09	-0.97	-0.14	0.63	-0.39	0.13	0.11	-0.53	0.17	0.48	-0.15	-1.83	-1.38	-1.43	-0.25	0.40	-0.30	1.19	1.20	0.50	-0.0193	0.1928	0.6541	0.5184	0.7154
MODULE_85	0.33	0.54	-0.32	-1.22	-0.34	-0.59	-1.51	-1.95	-1.42	0.12	1.05	0.42	0.73	1.30	0.68	0.11	0.53	0.19	0.16	0.39	0.32	-0.39	0.35	-0.64	-0.06	0.01	-0.46	0.24	0.86	0.56	0.0186	-0.1864	-0.6442	0.5247	0.7182
MODULE_158	0.21	0.24	-1.13	1.16	0.39	-0.52	-0.17	-1.13	-0.75	-0.27	-1.13	-1.13	0.94	-0.20	0.76	0.79	0.50	0.11	1.16	0.85	0.80	-0.15	0.33	-1.13	-0.94	-0.92	-0.75	0.20	1.21	0.69	0.0187	-0.1865	-0.6209	0.5397	0.7327
MODULE_38	-0.16	-0.04	-0.36	0.02	-0.19	-0.45	-0.43	-0.31	-0.47	-0.59	0.05	-0.33	1.90	1.86	2.12	-0.47	-0.61	-0.32	0.80	0.75	0.11	-0.44	0.20	-0.27	-0.42	-0.26	-0.10	-0.43	-0.61	-0.55	-0.0170	0.1703	0.6038	0.5509	0.7419
MODULE_13	-0.50	-0.53	-0.25	-0.31	-0.02	-0.21	1.52	1.62	1.48	-0.38	-0.60	-0.60	-0.53	-0.64	-0.53	-0.24	-0.15	-0.38	-0.40	-0.56	-0.39	0.00	-0.21	-0.22	1.53	1.76	0.94	-0.37	-0.45	-0.39	0.0173	-0.1733	-0.5930	0.5579	0.7434
MODULE_15	-0.49	-0.72	-0.22	-0.44	-0.64	-0.43	0.64	0.56	0.46	1.59	1.96	1.82	-0.51	-0.58	-0.20	-0.41	-0.62	-0.59	-0.16	-0.51	-0.41	0.39	0.63	0.79	-0.34	-0.01	-0.09	-0.58	-0.46	-0.45	-0.0166	0.1661	0.5886	0.5609	0.7434
MODULE_41	0.63	0.99	0.57	0.19	0.36	0.49	0.53	0.67	0.31	-0.32	-0.03	-0.15	0.52	0.56	0.47	-1.69	-1.70	-1.24	-0.15	-0.26	-0.01	0.05	0.35	0.25	0.76	0.81	0.67	-1.46	-1.07	-1.11	-0.0162	0.1619	0.5507	0.5862	0.7677
MODULE_48	-0.79	-1.10	-0.46	0.25	0.05	0.07	0.40	0.54	0.45	-0.61	-1.70	-0.73	0.57	-0.57	-0.12	0.94	0.87	0.84	0.43	0.20	-0.07	-0.12	-1.68	-0.72	-0.36	0.30	0.05	0.93	1.03	1.13	0.0153	-0.1530	-0.5363	0.5960	0.7677
MODULE_167	0.40	0.60	0.39	1.22	1.46	1.31	0.82	0.99	-0.10	-1.65	-0.54	-1.15	-0.31	-0.50	-0.69	-0.57	0.32	-0.75	0.02	0.42	-0.66	-0.14	-0.88	-1.11	1.35	1.23	0.16	-1.07	0.10	-0.67	-0.0174	0.1737	0.5358	0.5963	0.7677
MODULE_61	-0.43	-1.01	-1.00	1.03	0.97	1.21	0.38	0.16	0.26	0.38	-0.97	0.46	-0.16	-0.71	-0.30	0.29	0.13	0.37	-0.44	-0.57	-0.52	0.64	0.28	0.38	0.81	0.64	1.02	-1.17	-0.94	-1.17	-0.0146	0.1459	0.5339	0.5976	0.7677
MODULE_51	-0.66	-0.73	-0.68	0.97	0.99	1.14	1.28	1.08	1.26	-0.14	-0.08	0.31	-0.57	-0.95	-0.54	-0.45	-0.54	-0.49	-0.08	-0.39	-0.29	-0.54	-0.42	-0.32	1.21	1.23	1.40	-1.00	-1.05	-0.95	-0.0165	0.1653	0.5254	0.6035	0.7693
MODULE_120	0.20	0.12	0.17	-1.28	-1.06	-0.66	-0.82	-1.04	-0.55	0.31	-1.04	0.64	0.49	-0.41	0.88	0.95	0.92	1.11	-0.23	-0.39	-0.16	1.09	1.02	1.63	-0.94	-1.08	-0.64	0.29	0.09	0.39	0.0149	-0.1488	-0.4885	0.6290	0.7957
MODULE_84	-0.43	-0.17	-0.42	-0.25	-0.37	0.33	-1.10	-1.65	-0.82	-0.13	1.36	0.75	0.34	0.96	0.56	0.05	0.12	0.00	0.17	-0.33	-0.16	0.70	0.98	1.09	-1.18	-0.99	-0.40	0.35	0.10	0.56	0.0124	-0.1237	-0.4571	0.6511	0.8124
MODULE_36	1.45	1.38	1.49	0.56	0.37	0.01	-0.25	-1.28	-0.48	-1.09	-1.63	-1.08	0.60	0.52	0.40	0.14	-0.04	-0.09	0.74	0.52	0.28	-0.73	-0.97	-1.09	-0.12	0.03	-0.34	-0.08	0.61	0.14	-0.0138	0.1377	0.4560	0.6519	0.8124
MODULE_3	0.50	0.26	0.51	0.37	0.29	0.41	0.26	0.02	0.30	-1.12	-2.65	-1.02	0.28	-0.31	0.10	0.43	0.20	0.31	0.38	0.26	0.41	-0.49	-1.45	-0.78	0.56	0.32	0.35	0.53	0.24	0.51	0.0119	-0.1193	-0.4330	0.6684	0.8268
MODULE_114	0.49	0.78	-0.38	0.20	-0.11	-0.11	-0.04	0.17	-0.69	0.59	1.64	1.11	0.02	0.44	0.19	-1.68	-1.52	-2.00	0.42	0.79	0.01	0.57	0.89	0.73	-0.10	-0.37	-0.90	-0.54	0.06	-0.64	0.0126	-0.1260	-0.4078	0.6865	0.8430
MODULE_118	0.93	1.21	0.86	0.69	0.63	0.30	0.11	-0.18	-0.30	-1.97	-1.33	-1.42	0.94	0.97	0.79	-0.55	-0.32	-0.43	0.29	0.42	-0.09	0.51	0.89	0.49	0.02	0.17	-0.09	-1.19	-1.16	-1.18	-0.0128	0.1277	0.4005	0.6918	0.8433
MODULE_163	2.17	1.44	1.97	-0.35	-0.96	-0.25	-0.21	-0.79	-0.17	0.30	-1.02	-0.34	0.09	-1.19	0.79	-0.44	-0.17	0.05	1.03	-0.80	0.71	-0.24	-0.84	-0.53	-0.45	-0.66	-0.72	0.32	0.56	0.70	-0.0127	0.1269	0.3912	0.6986	0.8452
MODULE_140	0.58	1.02	1.12	0.89	0.45	-0.81	1.02	1.15	0.19	-1.02	-0.85	-1.35	0.25	-1.06	0.43	-1.10	-1.01	-0.71	0.49	0.53	0.41	0.27	0.92	0.52	-0.40	0.63	-0.40	-0.79	-0.45	-0.90	0.0116	-0.1165	-0.3845	0.7035	0.8452
MODULE_121	-0.84	-0.01	-0.85	-0.01	0.62	0.26	-0.57	-0.33	-0.54	0.92	1.91	0.89	-0.51	-0.74	-0.76	0.26	-0.09	-0.40	-0.02	-0.60	-0.27	0.80	1.00	0.18	0.65	1.07	1.04	-0.98	-0.88	-1.19	0.0110	-0.1102	-0.3760	0.7098	0.8466
MODULE_155	0.15	0.19	0.44	1.09	1.40	1.47	0.96	-0.33	0.93	-1.27	-1.65	-1.88	0.22	-0.07	0.25	-0.58	0.05	-0.56	0.25	0.25	0.50	-0.51	-0.90	-0.31	0.15	1.05	0.71	-0.34	-0.26	-1.40	-0.0112	0.1123	0.3456	0.7322	0.8558
MODULE_74	0.17	0.48	0.51	0.66	0.71	0.95	0.22	-0.38	0.14	-0.76	-1.80	-1.30	-0.92	-1.48	-0.56	0.73	1.03	0.83	-0.67	-0.75	-0.61	-0.19	-1.12	-0.15	0.85	0.66	0.92	0.83	0.37	0.64	0.0107	-0.1070	-0.3432	0.7340	0.8558
MODULE_159	0.71	0.45	0.33	0.69	0.47	0.36	0.55	-0.16	-0.09	-1.24	-2.06	-1.27	0.49	0.67	0.28	0.49	0.09	-0.01	0.65	0.42	0.38	-0.11	-1.30	0.04	-1.70	-1.25	-0.47	0.76	0.70	1.12	-0.0106	0.1062	0.3392	0.7370	0.8558
MODULE_34	0.51	0.70	-0.01	-1.22	-1.32	-1.75	-0.80	-0.92	-1.23	0.56	1.12	0.60	0.43	1.08	0.50	0.26	0.48	0.31	0.44	0.65	0.47	0.31	0.60	0.04	-0.71	-0.61	-0.74	0.00	0.26	0.00	0.0097	-0.0972	-0.3380	0.7379	0.8558
MODULE_78	-0.30	-0.37	0.46	1.40	0.77	0.57	0.57	-0.21	-0.25	-0.75	-1.17	-1.08	-0.32	-0.54	-0.46	1.20	0.23	0.94	0.10	-0.33	0.00	-0.57	-0.84	-0.92	1.27	1.56	1.19	-0.68	-0.88	-0.57	-0.0094	0.0944	0.3092	0.7595	0.8747
MODULE_45	-0.06	0.25	-0.17	1.72	1.91	1.35	0.58	-0.08	-0.61	-1.18	-0.81	-0.85	-0.06	-0.60	-0.72	-0.19	0.31	-0.18	0.69	0.40	-0.31	-0.41	-0.59	-0.75	0.67	1.02	0.41	-0.67	-0.34	-0.74	-0.0085	0.0847	0.2868	0.7764	0.8880
MODULE_29	0.68	0.31	0.70	-0.40	-0.85	-1.03	-0.84	-1.80	-1.15	0.28	0.25	0.42	1.09	0.77	1.12	0.09	-0.12	-0.07	0.74	0.63	0.89	-0.22	-0.56	-0.63	-0.41	-0.53	-0.73	0.32	0.46	0.59	0.0077	-0.0775	-0.2776	0.7834	0.8900
MODULE_82	-0.58	-0.83	-0.82	0.59	0.39	-0.18	-0.29	-0.94	-0.77	1.04	1.29	1.33	-0.66	-0.61	-0.88	1.29	0.59	0.56	0.16	-0.41	-0.25	-0.24	0.26	-0.92	-0.87	-0.49	-0.57	1.00	0.74	1.07	-0.0073	0.0729	0.2480	0.8060	0.9092
MODULE_143	0.74	0.59	0.01	-1.35	-1.32	-0.98	-1.31	-0.14	-0.73	1.21	1.90	1.24	-0.28	0.73	-0.02	-0.29	-0.45	-0.08	-0.73	0.75	0.02	-0.30	-0.83	-0.29	0.08	-0.39	0.29	0.77	0.51	0.63	0.0073	-0.0732	-0.2412	0.8112	0.9092
MODULE_18	0.26	0.27	0.56	0.35	0.18	0.17	0.22	0.27	0.28	-1.65	-2.16	-1.85	0.50	0.30	0.47	0.37	0.51	0.47	0.48	0.56	0.68	0.28	-0.29	0.13	0.48	0.39	0.48	-1.05	-0.84	-0.82	0.0067	-0.0674	-0.2318	0.8184	0.9111
MODULE_89	0.16	-0.09	-0.15	1.19	-0.24	-0.78	0.92	0.16	0.25	-1.35	-1.26	-1.12	1.18	1.38	0.60	-0.05	-0.37	0.06	1.41	0.48	0.41	-0.57	-0.79	-1.32	-0.17	-0.35	-0.90	0.36	0.29	0.67	-0.0067	0.0673	0.2236	0.8247	0.9121
MODULE_7	-0.54	-0.57	-0.49	1.41	1.28	1.48	0.79	-0.09	0.51	-0.59	-0.42	-0.35	-0.59	-0.62	-0.40	-0.48	-0.45	-0.30	-0.29	-0.48	-0.62	0.18	0.00	-0.01	1.06	1.10	1.29	-0.61	-0.58	-0.63	0.0058	-0.0582	-0.2104	0.8349	0.9173
MODULE_141	-1.01	-1.02	-0.99	0.17	-0.21	-0.61	0.31	1.01	0.25	0.25	1.99	1.04	-0.11	0.62	-1.18	0.06	-0.21	0.08	0.02	0.40	-0.54	0.70	0.97	1.03	-1.48	-0.86	-1.38	0.73	-0.01	-0.01	-0.0061	0.0607	0.1934	0.8480	0.9212
MODULE_37	0.01	0.04	0.02	-0.89	-0.79	-1.01	-0.41	-0.26	-0.77	0.95	1.96	0.77	-0.47	0.07	0.40	-0.20	-0.05	0.26	-0.64	-0.44	-0.62	0.80	1.42	0.48	-0.59	-0.59	-0.83	0.58	1.06	-0.25	0.0054	-0.0537	-0.1915	0.8495	0.9212
MODULE_117	-0.31	-0.30	-0.55	2.64	1.03	1.73	-0.33	-0.55	-0.55	-0.55	-0.55	-0.55	-0.16	-0.26	-0.08	-0.55	-0.37	-0.10	-0.09	-0.41	-0.02	0.55	1.98	0.72	-0.55	-0.30	-0.55	-0.17	-0.27	-0.55	0.0047	-0.0472	-0.1511	0.8810	0.9422
MODULE_73	0.88	1.00	0.60	-0.69	-0.52	-0.36	-0.96	-0.24	-0.34	1.00	2.01	0.44	-0.84	0.33	0.09	-1.02	-0.30	-0.77	-0.38	-0.54	-0.29	1.02	1.14	0.67	-0.54	-0.68	-1.21	-0.16	0.44	0.23	-0.0044	0.0437	0.1476	0.8837	0.9422
MODULE_105	-0.55	-0.13	0.22	-0.45	-1.61	-1.62	0.05	-0.04	0.21	0.85	1.28	0.84	0.94	0.06	0.69	-0.43	0.17	-0.19	0.61	0.67	0.55	0.47	0.77	0.79	-1.45	-0.83	-0.81	-0.90	0.17	-0.34	-0.0043	0.0426	0.1449	0.8858	0.9422
MODULE_130	0.58	0.67	0.09	-1.06	-0.83	-0.71	-0.31	-0.43	-0.30	-1.09	-0.81	-0.93	0.49	1.19	-0.50	1.38	1.49	1.38	0.76	0.82	-0.20	0.09	0.55	-0.46	-0.25	0.24	-0.28	-0.74	0.16	-0.98	-0.0039	0.0391	0.1323	0.8957	0.9467
MODULE_99	-0.12	-0.80	-0.78	1.10	0.76	0.95	1.38	0.79	0.75	-0.11	-0.85	-0.36	0.70	-0.37	0.62	-1.63	-1.03	-1.28	0.73	0.12	0.25	0.34	0.01	0.68	0.46	0.00	0.83	-1.13	-1.07	-0.96	0.0037	-0.0372	-0.1190	0.9061	0.9517
MODULE_98	0.57	0.73	-0.10	0.24	-0.83	-0.54	0.07	0.49	-0.20	0.45	1.00	0.65	0.06	1.09	0.71	-1.53	-1.83	-0.85	0.38	0.59	-0.08	0.60	0.88	-0.14	-0.69	-1.45	-1.32	-0.06	0.52	0.58	-0.0026	0.0260	0.0857	0.9323	0.9660
MODULE_8	-0.61	-0.75	-0.68	1.15	0.93	1.25	1.52	1.31	1.01	-0.86	-1.02	-0.68	-0.55	-0.76	-0.56	-0.26	-0.09	-0.23	-0.21	-0.42	-0.55	0.35	0.36	0.30	0.41	0.58	0.53	-0.58	-0.42	-0.49	-0.0020	0.0198	0.0699	0.9447	0.9660
MODULE_43	0.24	0.10	0.25	1.60	1.21	1.66	-0.17	0.43	-0.12	-0.73	-0.58	-0.75	-0.66	-0.69	-0.91	0.02	-0.15	-0.60	-0.21	-0.82	-0.86	-0.55	-0.69	-0.56	1.16	1.08	0.68	0.03	0.13	0.46	-0.0019	0.0194	0.0680	0.9462	0.9660
MODULE_139	-1.54	-1.44	-1.80	0.47	-0.02	-0.15	0.92	0.52	0.41	-0.49	0.37	1.33	0.08	-0.25	0.10	0.09	0.56	0.71	0.48	0.13	0.05	1.11	0.78	1.00	-0.73	-1.23	-0.32	-0.63	-0.42	-0.06	0.0020	-0.0200	-0.0667	0.9473	0.9660
MODULE_86	0.23	0.65	-0.16	0.42	-0.06	0.67	1.28	1.54	1.75	-0.51	-0.69	-0.32	-0.83	-0.83	-0.83	-0.83	-0.83	-0.83	-0.42	0.07	-0.73	0.97	1.24	1.11	0.25	0.03	-0.29	-0.83	-0.64	-0.63	0.0020	-0.0201	-0.0650	0.9487	0.9660
MODULE_157	0.15	0.14	-0.18	0.62	-0.01	0.04	-0.28	-0.98	-0.54	-1.04	-1.31	-0.59	1.31	-0.15	-0.87	1.47	0.92	1.26	1.10	0.89	0.29	-0.26	-1.31	-1.01	0.64	0.38	0.97	-0.78	-0.26	-0.56	0.0010	-0.0097	-0.0312	0.9753	0.9872
MODULE_65	-1.28	-1.33	-1.56	-0.24	-0.87	-0.72	-0.20	0.23	-0.19	0.06	0.67	0.50	0.85	0.87	0.41	1.08	0.95	0.82	0.57	0.51	0.57	-0.44	-0.17	-0.47	-0.45	-0.60	-0.96	0.65	0.19	0.55	-0.0005	0.0054	0.0193	0.9847	0.9878
MODULE_104	-0.39	-0.45	0.08	-0.36	-0.57	-0.05	-0.56	-0.72	-0.45	0.29	-0.24	-0.52	1.93	1.04	1.26	-0.22	0.26	-0.32	1.98	1.14	0.77	-0.72	-0.53	-0.03	-0.45	0.50	-0.54	-0.72	-0.72	-0.72	-0.0005	0.0046	0.0154	0.9878	0.9878

S11 VARIANT PEPTIDES

protein	peptide_format	pro_name	rsid	var	var_pos	protein.group	total_s	HCT116	HCT15	DLD1	LoVo	LS174T	RKO	CaCo2	COLO20	HT29	SW480
ENSP00000001008:N197K:rs56196860	FEIGEGEKLDLPYGLER	ENSP00000001008	rs56196860	N197K	197	ENSP00000001008_rs5	3	0	0	0	0	0	0	3	0	0	0
ENSP00000001008:N197K:rs56196860	FEIGEGEK	ENSP00000001008	rs56196860	N197K	197	ENSP00000001008_rs5	1	0	0	0	0	0	0	1	0	0	0
ENSP00000003607:P9A:rs4795429	MAACTARRALAVGSRWWSR	ENSP00000003607	rs4795429	P9A	9	ENSP00000003607_rs4	1	0	0	0	0	1	0	0	0	0	0
ENSP00000027335:E734D:rs1051623	HTDFEER	ENSP00000027335	rs1051623	E734D	734	ENSP00000027335_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000056217:S452L:rs1731153	AEELSPAALSPLLEPIR	ENSP00000056217	rs1731153	S452L	452	ENSP00000056217_rs1	3	0	0	1	1	1	0	0	0	0	0
ENSP00000162330:R584Q:	LVACSQAVPEDAK	ENSP00000162330		R584Q	584	ENSP00000162330_R5	2	0	0	0	0	0	0	0	2	0	0
ENSP00000175506:V210E:rs1049674	DEPLHALYDNVEK	ENSP00000175506	rs1049674	V210E	210	ENSP00000175506_rs1	43	9	6	4	0	3	8	4	2	2	5
ENSP00000175506:V210E:rs1049674	DEPLHALYDNVEK	ENSP00000175506	rs1049674	V210E	210	ENSP00000175506_rs1	25	4	5	3	1	1	3	3	0	1	4
ENSP00000177742:L33I:rs11552431	DSQIYAVDYETLTR	ENSP00000177742	rs11552431	L33I	33	ENSP00000177742_rs1	4	0	0	0	0	3	0	0	1	0	0
ENSP00000177742:L33I:rs11552431	DSQIYAVDYETLTRPFSGR	ENSP00000177742	rs11552431	L33I	33	ENSP00000177742_rs1	4	0	0	1	0	0	3	0	0	0	0
ENSP00000188376:A61V:	AVEEYSCEFGSVK	ENSP00000188376		A61V	61	ENSP00000188376_A6	9	0	6	3	0	0	0	0	0	0	0
ENSP00000196968:I116V:rs1695	YVSLIYTNYEAGKDDYVK	ENSP00000196968	rs1695	I116V	116	ENSP00000196968_rs1	13	2	1	0	0	0	5	0	0	2	3
ENSP00000196968:I116V:rs1695	YVSLIYTNYEAGKDDYVK	ENSP00000196968	rs1695	I116V	116	ENSP00000196968_rs1	1	1	0	0	0	0	0	0	0	0	0
ENSP00000198765:E252D:rs41333046	SSPVEFECINDK	ENSP00000198765	rs41333046	E252D	252	ENSP00000198765_rs4	6	0	0	0	0	0	6	0	0	0	0
ENSP00000202028:S13L:	DYSEADGLLER	ENSP00000202028		S13L	13	ENSP00000202028_S1	4	0	0	0	4	0	0	0	0	0	0
ENSP00000204726:P264L:rs3741486	TEDSNAGNSGGNVLAPDSTK	ENSP00000204726	rs3741486	P264L	264	ENSP00000204726_rs3	1	1	0	0	0	0	0	0	0	0	0
ENSP00000216181:P633L:	IIGLDQVAGMSETALLGAFK	ENSP00000216181		P633L	633	ENSP00000216181_P6	2	0	2	0	0	0	0	0	0	0	0
ENSP00000216181:P633L:	IIGLDQVAGMSETALLGAFK	ENSP00000216181		P633L	633	ENSP00000216181_P6	1	0	1	0	0	0	0	0	0	0	0
ENSP00000216194:R296Q:	QQIGSSAMPYKQNPMRSER	ENSP00000216194		R296Q	296	ENSP00000216194_R2	1	1	0	0	0	0	0	0	0	0	0
ENSP00000216225:A3E:	AEAMDVDTPSGTNSGAGK	ENSP00000216225		A3E	3	ENSP00000216225_A3	2	0	1	1	0	0	0	0	0	0	0
ENSP00000216225:A3E:	AEAMDVDTPSGTNSGAGK	ENSP00000216225		A3E	3	ENSP00000216225_A3	2	0	2	0	0	0	0	0	0	0	0
ENSP00000216225:A3E:	AEAMDVDTPSGTNSGAGKK	ENSP00000216225		A3E	3	ENSP00000216225_A3	1	0	1	0	0	0	0	0	0	0	0
ENSP00000216254:R395C:	VGLIGSCTNSSYEDMGCSAAVAK	ENSP00000216254		R395C	395	ENSP00000216254_R3	2	0	0	0	2	0	0	0	0	0	0
ENSP00000216297:A415G:rs61739513	IGDTVLVDEDGPGTVLTSVK	ENSP00000216297	rs61739513	A415G	415	ENSP00000216297_rs6	1	1	0	0	0	0	0	0	0	0	0
ENSP00000216500:A326T:	SGVDTDSSYFK	ENSP00000216500		A326T	326	ENSP00000216500_A3	4	0	1	3	0	0	0	0	0	0	0
ENSP00000216605:K134R:rs1950902	DVDGLTSINAGR	ENSP00000216605	rs1950902	K134R	134	ENSP00000216605_rs1	61	8	6	10	4	7	8	6	0	8	4
ENSP00000216605:L769F:rs17857382	TDTESELDFISR	ENSP00000216605	rs17857382	L769F	769	ENSP00000216605_rs1	7	0	0	0	0	0	7	0	0	0	0
ENSP00000216714:D148E:rs1130409	VSYGIGEEEHDQEGR	ENSP00000216714	rs1130409	D148E	148	ENSP00000216714_rs1	50	7	0	0	6	8	10	7	5	3	4
ENSP00000216714:D148E:rs1130409	VSYGIGEEEHDQEGR	ENSP00000216714	rs1130409	D148E	148	ENSP00000216714_rs1	9	1	0	0	0	2	4	0	1	0	1
ENSP00000216840:T420A:rs729421	AAYLDDLR	ENSP00000216840	rs729421	T420A	420	ENSP00000216840_rs7	6	3	0	0	0	2	1	0	0	0	0
ENSP00000216879:D290N:rs9575	ASSSILINESEPTTNIQIR	ENSP00000216879	rs9575	D290N	290	ENSP00000216879_rs9	1	0	1	0	0	0	0	0	0	0	0
ENSP00000216879:R214C:	PSNAQFLESICR	ENSP00000216879		R214C	214	ENSP00000216879_rs9	1	0	0	0	0	0	0	0	1	0	0
ENSP00000216879:R214C:	SYQDPSNAQFLESICR	ENSP00000216879		R214C	214	ENSP00000216879_rs9	3	0	0	0	0	0	0	0	3	0	0
ENSP00000216879:R214C:	SYQDPSNAQFLESICR	ENSP00000216879		R214C	214	ENSP00000216879_rs9	1	0	0	0	0	0	0	0	1	0	0
ENSP00000217426:R334C:	YRLKNGCRIILLAEGR	ENSP00000217426		R334C	334	ENSP00000217426_R3	1	0	0	0	1	0	0	0	0	0	0
ENSP00000219400:V53I:rs1127390	NEYIENR	ENSP00000219400	rs1127390	V53I	53	ENSP00000219400_rs1	4	0	2	1	0	0	0	1	0	0	0
ENSP00000219627:T571N:	HNVEVLGILSDDVETDNVAPGENLK	ENSP00000219627		T571N	571	ENSP00000219627_T5	1	0	0	1	0	0	0	0	0	0	0
ENSP00000219771:T195A:rs9932770	QAADFALK	ENSP00000219771	rs9932770	T195A	195	ENSP00000219771_rs9	7	0	1	0	0	2	0	3	1	0	0
ENSP00000219837:P13T:	VDLGLTEK	ENSP00000219837		P13T	13	ENSP00000219837_P1	1	1	0	0	0	0	0	0	0	0	0
ENSP00000220325:V154I:rs11549015	SISIIDSPGILSGEK	ENSP00000220325	rs11549015	V154I	154	ENSP00000220325_K2	6	0	0	0	0	0	0	1	1	0	4
ENSP00000220822:I186V:	LAEENPDLQEAYVAK	ENSP00000220822		I186V	186	ENSP00000220822_I18	4	0	2	2	0	0	0	0	0	0	0
ENSP00000221264:T86A:rs399145	IASLTEVVCGLDLCNQGNSGR	ENSP00000221264	rs399145	T86A	86	ENSP00000221264_rs2	2	0	0	0	0	0	2	0	0	0	0
ENSP00000221418:E41A:rs9419	TGSSAQEAASGVALGEAPDHSYESLR	ENSP00000221418	rs9419	E41A	41	ENSP00000221418_rs9	2	0	0	0	1	0	0	0	0	1	0
ENSP00000221418:E41A:rs9419	LTGSSAQEAASGVALGEAPDHSYESLR	ENSP00000221418	rs9419	E41A	41	ENSP00000221418_rs9	2	0	0	0	1	0	0	0	0	1	0
ENSP00000221455:K159E:rs4803794	ASIGYTYEDSTVAEVEK	ENSP00000221455	rs4803794	K159E	159	ENSP00000221455_rs4	1	0	0	0	0	0	0	0	0	0	1
ENSP00000221481:D312N:rs1799793	ETDAHLANPVLPNEVLQEAVPGSIR	ENSP00000221481	rs1799793	D312N	312	ENSP00000221481_rs1	2	0	0	0	0	0	2	0	0	0	0
ENSP00000222005:P302H:	LGPGGLDPVEVYESLHEELQK	ENSP00000222005		P302H	302	ENSP00000222005_P3	1	0	1	0	0	0	0	0	0	0	0
ENSP00000222005:P302H:	PVEVYESLHEELQK	ENSP00000222005		P302H	302	ENSP00000222005_P3	1	0	1	0	0	0	0	0	0	0	0
ENSP00000224652:S150R:	ERLESEGKNSKK	ENSP00000224652		S150R	150	ENSP00000224652_S1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000224949:A397V:rs3182535	EAYFSVGLQGIVEK	ENSP00000224949	rs3182535	A397V	397	ENSP00000224949_rs6	3	0	0	0	2	1	0	0	0	0	0
ENSP00000225298:M238L:	LKNCQHANAER	ENSP00000225298		M238L	238	ENSP00000225298_M2	1	0	1	0	0	0	0	0	0	0	0
ENSP00000225696:S221R:	EPQTPTNVIILSEAEEER	ENSP00000225696		S221R	221	ENSP00000225696_A3	1	1	0	0	0	0	0	0	0	0	0
ENSP00000225726:R455M:	MLEEAALR	ENSP00000225726		R455M	455	ENSP00000225726_R4	6	1	2	3	0	0	0	0	0	0	0
ENSP00000225726:R455M:	MLEEAALR	ENSP00000225726		R455M	455	ENSP00000225726_R4	1	0	1	0	0	0	0	0	0	0	0
ENSP00000226760:K193Q:rs41264699	QQVAVAELLENVGQVNEHDGGAQPG	ENSP00000226760	rs41264699	K193Q	193	ENSP00000226760_rs4	1	0	0	0	0	0	0	1	0	0	0
ENSP00000227378:R77K:	KFDDAVVQSDMK	ENSP00000227378		R77K	77	ENSP00000227378_T2	13	0	7	6	0	0	0	0	0	0	0
ENSP00000227378:R77K:	KFDDAVVQSDMK	ENSP00000227378		R77K	77	ENSP00000227378_T2	12	0	7	5	0	0	0	0	0	0	0
ENSP00000227378:R77K:	KFDDAVVQSDMK	ENSP00000227378		R77K	77	ENSP00000227378_T2	8	0	4	4	0	0	0	0	0	0	0
ENSP00000227378:R77K:	KFDDAVVQSDMK	ENSP00000227378		R77K	77	ENSP00000227378_T2	8	0	5	3	0	0	0	0	0	0	0
ENSP00000227520:H286R:	RLEEEKERR	ENSP00000227520		H286R	286	ENSP00000227520_rs2	1	0	0	0	0	0	0	0	0	1	0
ENSP00000227868:T101A:rs11539202	AVVALDASDDGILAK	ENSP00000227868	rs11539202	T101A	101	ENSP00000227868_rs1	1	0	0	0	0	0	0	0	1	0	0
ENSP00000228013:G32S:rs2240197	PSVAQPEDTVQFR	ENSP00000228013	rs2240197	G32S	32	ENSP00000228013_rs3	5	0	2	3	0	0	0	0	0	0	0
ENSP00000228740:E481D:rs45630739	DDDLNSFNATDLK	ENSP00000228740	rs45630739	E481D	481	ENSP00000228740_rs4	3	0	0	0	0	0	3	0	0	0	0
ENSP00000229390:Y35F:	DLEDLFFK	ENSP00000229390		Y35F	35	ENSP00000229390_Y3	9	0	5	4	0	0	0	0	0	0	0
ENSP00000229390:Y35F:	DLEDLFFK	ENSP00000229390		Y35F	35	ENSP00000229390_Y3	1	0	1	0	0	0	0	0	0	0	0
ENSP00000229390:Y35F:	EKDLEDLFFK	ENSP00000229390		Y35F	35	ENSP00000229390_Y3	9	0	5	4	0	0	0	0	0	0	0
ENSP00000229446:S220N:	SSATSGDIWPGLSAYDNNPR	ENSP00000229446		S220N	220	ENSP00000229446_S2	1	0	0	0	1	0	0	0	0	0	0
ENSP00000230901:T563M:rs11750814	LDFEEMENK	ENSP00000230901	rs11750814	T563M	563	ENSP00000230901_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000231238:A29G:rs41275305	VTDTQEAECGGPPVPDPK	ENSP00000231238	rs41275305	A29G	29	ENSP00000231238_rs4	1	0	0	0	0	0	1	0	0	0	0
ENSP00000231572:G182E:	DFVSEQLTSLLVNEVQLPALGENK	ENSP00000231572		G182E	182	ENSP00000231572_G1	1	0	0	1	0	0	0	0	0	0	0
ENSP00000231790:I219V:rs1799977	SVFGNAVSR	ENSP00000231790	rs1799977	I219V	219	ENSP00000231790_rs6	1	0	0	0	1	0	0	0	0	0	0
ENSP00000233190:D194E:	FASEIAGVDELGTTGR	ENSP00000233190		D194E	194	ENSP00000233190_A5	4	0	2	2	0	0	0	0	0	0	0
ENSP00000233552:R306G:	AAIDGYVQEK	ENSP00000233552		R306G	306	ENSP00000233552_R3	1	0	1	0	0	0	0	0	0	0	0
ENSP00000233699:G17V:rs12366	EEEVPAGEAAASQPQAPTSVPGAR	ENSP00000233699	rs12366	G17V	17	ENSP00000233699_rs1	1	0	0	0	0	0	1	0	0	0	0
ENSP00000234170:V102I:rs2098386	ASLIEEDEPAEK	ENSP00000234170	rs2098386	V102I	102	ENSP00000234170_rs2	7	0	0	0	2	0	2	0	0	0	3
ENSP00000234170:V102I:rs2098386	ASLIEEDEPAEKENSSK	ENSP00000234170	rs2098386	V102I	102	ENSP00000234170_rs2	1	0	0	0	1	0	0	0	0	0	0
ENSP00000237530:A284T:	EDQVIQLMNTIFSK	ENSP00000237530		A284T	284	ENSP00000237530_A2	2	2	0	0	0	0	0	0	0	0	0
ENSP00000237530:A284T:	EDQVIQLMNTIFSK	ENSP00000237530		A284T	284	ENSP00000237530_A2	2	2	0	0	0	0	0	0	0	0	0
ENSP00000237530:V546L:rs61731019	NPILWNVADLVIK	ENSP00000237530	rs61731019	V546L	546	ENSP00000237530_rs6	1	0	0	0	0	0	0	0	0	0	1
ENSP00000238379:G146E:rs1043836	LEGILEGLGLR	ENSP00000238379	rs1043836	G146E	146	ENSP00000238379_rs1	25	3	3	4	3	2	1	3	0	3	3
ENSP00000239690:L252F:rs2980619	SFTFVQAGQDLEENMDEDISEK	ENSP00000239690	rs2980619	L252F	252	ENSP00000239690_rs2	1	0	0	0	0	0	1	0	0	0	0
ENSP00000240123:I556T:rs2449331	SPADPTDLGGQTSPR	ENSP00000240123	rs2449331	I556T	556	ENSP00000240123_rs2	13	1	4	1	1	0	2	2	0	0	2
ENSP00000243326:V1362M:rs2123465	AATMENAVLLETNTVEEK	ENSP00000243326	rs2123465	V1362M	1362	ENSP00000243326_rs2	1	0	0	0	0	0	0	0	0	0	1
ENSP00000243326:N2021Y:rs2444257	NYEEMMIGEAM	ENSP00000243326	rs2444257	N2021Y	2021	ENSP00000243326_rs2	1	1	0	0	0	0	0	0	0	0	0
ENSP00000243346:S16L:rs1048135	EHLPDEFIKDEQNK	ENSP00000243346	rs1048135	S16L	16	ENSP00000243346_rs1	1	0	0	0	0	0	0	0	0	1	0
ENSP00000246024:G303R:rs2076015	SEANDQGPPREDGVTR	ENSP00000246024	rs2076015	G303R	303	ENSP00000246024_rs2	1	0	0	0	0	0	1	0	0	0	0
ENSP00000246043:T1033A:	AMEALAAAEQACK	ENSP00000246043		T1033A	1033	ENSP00000246043_rs1	3	2	1	0	0	0	0	0	0	0	0
ENSP00000246043:T1033A:	AMEALAAAEQACK	ENSP00000246043		T1033A	1033	ENSP00000246043_rs1	1	1	0	0	0	0	0	0	0	0	0
ENSP00000246635:A187V:rs9891361	LAVDDFR	ENSP00000246635	rs9891361	A187V	187	ENSP00000246635_T3	18	0	0	0	3	0	0	0	0	0	15
ENSP00000246635:T322M:	TEIMELR	ENSP00000246635		T322M	322	ENSP00000246635_T3	1	0	0	0	0	1	0	0	0	0	0
ENSP00000246747:V141A:	EALELDSIR	ENSP00000246747		V141A	141	ENSP00000246747_V1	12	0	0	0	4	4	0	0	0	2	2
ENSP00000246957:R307G:rs13926	DVGEWQHEEFYR	ENSP00000246957	rs13926	R307G	307	ENSP00000246957_rs1	13	3	4	2	2	0	0	0	2	0	0
ENSP00000246957:D395E:rs1136948	GVVDSEEIPLNLSR	ENSP00000246957	rs1136948	D395E	395	ENSP00000246957_rs1	17	0	0	0	5	0	0	0	6	0	6
ENSP00000246957:R307G:rs13926	DVGEWQHEEFYR	ENSP00000246957	rs13926	R307G	307	ENSP00000246957_rs1	10	4	3	0	3	0	0	0	0	0	0
ENSP00000247001:K589N:	EGEGLGSEGQGINNPVNK	ENSP00000247001		K589N	589	ENSP00000247001_K5	1	0	0	0	1	0	0	0	0	0	0
ENSP00000248125:M635T:rs2286469	AEGPVAVVVNGHTEGPAPAR	ENSP00000248125	rs2286469	M635T	635	ENSP00000248125_rs2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000248958:M203T:	ATEGIFIKPSVEPSAGHDEL	ENSP00000248958		M203T	203	ENSP00000248958_M2	5	0	0	0	1	4	0	0	0	0	0
ENSP00000249364:R4Q:rs2290228	MDLQQFLM	ENSP00000249364	rs2290228	R4Q	4	ENSP00000249364_rs2	1	0	0	0	0	0	0	1	0	0	0
ENSP00000251691:V563M:	VLETEAVDQPDVMQR	ENSP00000251691		V563M	563	ENSP00000251691_V5	2	0	0	0	0	0	2	0	0	0	0
ENSP00000251810:V115L:	FSQELQVPEAR	ENSP00000251810		V115L	115	ENSP00000251810_V1	2	1	1	0	0	0	0	0	0	0	0
ENSP00000252244:D348Y:	SLDMYSIIAEVK	ENSP00000252244		D348Y	348	ENSP00000252244_D3	2	0	0	0	0	0	0	2	0	0	0
ENSP00000252244:L347M:	SLDMYSIIAEVK	ENSP00000252244		L347M	347	ENSP00000252244_D3	2	0	0	0	0	0	0	2	0	0	0
ENSP00000252889:S788N:rs438363	HYPLMFCHVAGNPDRDM	ENSP00000252889	rs438363	S788N	788	ENSP00000252889_rs3	1	0	0	0	0	1	0	0	0	0	0
ENSP00000252996:I632L:	LEAEDFTSR	ENSP00000252996		I632L	632	ENSP00000252996_I63	2	0	1	1	0	0	0	0	0	0	0

ENSP00000253023:G171D:	GDYIGSTYFER	ENSP00000253023		G171D	171	ENSP00000253023_G1	9	0	6	3	0	0	0	0	0	0	0
ENSP00000253237:R319Q:rs2302951	QEPFLLSGGDDGALK	ENSP00000253237	rs2302951	R319Q	319	ENSP00000253237_rs2	9	2	0	2	1	0	0	0	4	0	0
ENSP00000253247:L265V:	NGVAVTALDQDHVAVLGSPLAASK	ENSP00000253247		L265V	265	ENSP00000253247_L2	1	0	0	0	0	0	1	0	0	0	0
ENSP00000253332:E1600D:rs3823310	ADSQDAGQETEKEGEDPQASAQDETPI	ENSP00000253332	rs3823310	E1600D	1600	ENSP00000253332_rs1	9	7	0	0	0	0	0	0	0	0	2
ENSP00000253332:K216Q:rs3734799	KDEGEGAAGAGDHQDPSLGAGEAASK	ENSP00000253332	rs3734799	K216Q	216	ENSP00000253332_rs1	4	3	0	0	0	0	0	0	0	0	1
ENSP00000253332:K216Q:rs3734799	DEGEGAAGAGDHQDPSLGAGEAASK	ENSP00000253332	rs3734799	K216Q	216	ENSP00000253332_rs1	1	1	0	0	0	0	0	0	0	0	0
ENSP00000253332:E1600D:rs3823310	EGEDPQASAQDETPITSAK	ENSP00000253332	rs3823310	E1600D	1600	ENSP00000253332_rs1	6	5	0	0	0	0	0	0	0	0	1
ENSP00000253332:E1600D:rs3823310	EGEDPQASAQDETPITSAK	ENSP00000253332	rs3823310	E1600D	1600	ENSP00000253332_rs1	1	1	0	0	0	0	0	0	0	0	0
ENSP00000253332:E1600D:rs3823310	ADSQDAGQETEKEGED	ENSP00000253332	rs3823310	E1600D	1600	ENSP00000253332_rs1	1	1	0	0	0	0	0	0	0	0	0
ENSP00000253452:H123Q:	QYVYGPLPQSFDK	ENSP00000253452		H123Q	123	ENSP00000253452_H1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000253692:I696V:rs1138454	GQGQSVQMSGAVK	ENSP00000253692	rs1138454	I696V	696	ENSP00000253692_rs1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000254508:R786L:rs2280084	NPLLDLAAYDQEGR	ENSP00000254508	rs2280084	R786L	786	ENSP00000254508_rs3	30	0	1	2	0	6	4	6	6	0	5
ENSP00000254508:R786L:rs2280084	NPLLDLAAYDQEGR	ENSP00000254508	rs2280084	R786L	786	ENSP00000254508_rs3	4	0	0	0	0	1	1	0	1	0	1
ENSP00000254718:F35L:	ELLDFFWDIAKPEQETR	ENSP00000254718		F35L	35	ENSP00000254718_F3	2	0	0	0	0	0	0	0	0	0	2
ENSP00000256031:L72M:	DCEVVLMRTTDEFK	ENSP00000256031		L72M	72	ENSP00000256031_L7	1	0	1	0	0	0	0	0	0	0	0
ENSP00000256496:V89A:	GANAIVYMIDAADR	ENSP00000256496		V89A	89	ENSP00000256496_V8	3	0	0	0	3	0	0	0	0	0	0
ENSP00000257191:T128P:rs1785934	TSDPALCPLIVSAAADSAVR	ENSP00000257191	rs1785934	T128P	128	ENSP00000257191_rs1	1	1	0	0	0	0	0	0	0	0	0
ENSP00000258243:K858E:	FAEAGPEGIEPR	ENSP00000258243		K858E	858	ENSP00000258243_rs3	3	0	0	0	0	0	1	0	2	0	0
ENSP00000258455:V241M:	LLTSQCGAAEEEFMQR	ENSP00000258455		V241M	241	ENSP00000258455_V2	1	0	0	0	0	0	0	1	0	0	0
ENSP00000258531:E82V:	EPLEDGDPVDDR	ENSP00000258531		E82V	82	ENSP00000258531_R3	1	0	1	0	0	0	0	0	0	0	0
ENSP00000258643:S234P:rs842381	VLPQELVDLPLVK	ENSP00000258643	rs842381	S234P	234	ENSP00000258643_rs8	13	1	2	2	0	2	1	2	1	1	1
ENSP00000259034:V44A:	VDFPTAIGMAVER	ENSP00000259034		V44A	44	ENSP00000259034_V4	2	0	0	0	0	0	2	0	0	0	0
ENSP00000260051:S367I:	ELIAALQDK	ENSP00000260051		S367I	367	ENSP00000260051_S3	2	0	0	0	0	0	2	0	0	0	0
ENSP00000260197:Q1074E:rs1699107	NNTCVKEENTCLR	ENSP00000260197	rs1699107	Q1074E	1074	ENSP00000260197_rs1	2	0	0	0	0	0	0	1	0	1	0
ENSP00000260324:V74A:	VGAENVAIAEPSER	ENSP00000260324		V74A	74	ENSP00000260324_V7	4	0	0	0	0	0	0	0	4	0	0
ENSP00000260753:E490D:rs17484219	VCVPDTLNSSQDK	ENSP00000260753	rs17484219	E490D	490	ENSP00000260753_rs1	1	1	0	0	0	0	0	0	0	0	0
ENSP00000261413:G284D:rs3209157	EALDVLDAVLK	ENSP00000261413	rs3209157	G284D	284	ENSP00000261413_rs3	14	0	1	3	0	0	0	0	6	0	4
ENSP00000261416:L62S:rs820878	PGPALWPLPLSVK	ENSP00000261416	rs820878	L62S	62	ENSP00000261416_rs8	7	0	0	1	0	1	2	1	0	2	0
ENSP00000261497:K35E:	VDNWEQNLR	ENSP00000261497		K35E	35	ENSP00000261497_K3	1	0	1	0	0	0	0	0	0	0	0
ENSP00000261590:R773K:rs2278792	DMAGAQAAAVALNEEFLK	ENSP00000261590	rs2278792	R773K	773	ENSP00000261590_rs2	10	2	1	1	3	0	0	0	2	0	1
ENSP00000261590:R773K:rs2278792	DMAGAQAAAVALNEEFLK	ENSP00000261590	rs2278792	R773K	773	ENSP00000261590_rs2	6	2	0	1	2	0	0	0	1	0	0
ENSP00000261623:V174A:rs1049254	KKPSEEEAAAAAGGPPGGPQVNPIPVTI	ENSP00000261623	rs1049254	V174A	174	ENSP00000261623_rs1	8	1	0	0	2	0	2	3	0	0	0
ENSP00000261660:A19D:rs3748976	TLDAFPAEK	ENSP00000261660	rs3748976	A19D	19	ENSP00000261660_rs1	2	0	0	0	0	0	1	0	0	0	1
ENSP00000261758:D62A:	DYNDAAMAR	ENSP00000261758		D62A	62	ENSP00000261758_D6	1	0	1	0	0	0	0	0	0	0	0
ENSP00000261817:V17A:rs2230681	QSGGSSQAGAVTVSDVQELMR	ENSP00000261817	rs2230681	V17A	17	ENSP00000261817_rs2	6	0	1	0	0	3	0	2	0	0	0
ENSP00000261817:V17A:rs2230681	QSGGSSQAGAVTVSDVQELMR	ENSP00000261817	rs2230681	V17A	17	ENSP00000261817_rs2	3	0	1	1	0	1	0	0	0	0	0
ENSP00000261817:V17A:rs2230681	QSGGSSQAGAVTVSDVQELMR	ENSP00000261817	rs2230681	V17A	17	ENSP00000261817_rs2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000261817:V17A:rs2230681	QSGGSSQAGAVTVSDVQELMR	ENSP00000261817	rs2230681	V17A	17	ENSP00000261817_rs2	1	1	0	0	0	0	0	0	0	0	0
ENSP00000261817:V17A:rs2230681	QSGGSSQAGAVTVSDVQELMR	ENSP00000261817	rs2230681	V17A	17	ENSP00000261817_rs2	1	0	0	0	0	0	1	0	0	0	0
ENSP00000261839:E1075K:rs3825801	QVKTISEFK	ENSP00000261839	rs3825801	E1075K	1075	ENSP00000261839_rs3	1	1	0	0	0	0	0	0	0	0	0
ENSP00000262056:G428E:	TGSESSQTETSTTSSR	ENSP00000262056		G428E	428	ENSP00000262056_G4	1	0	0	1	0	0	0	0	0	0	0
ENSP00000262093:P275T:	GDTYPQEVSATVQK	ENSP00000262093		P275T	275	ENSP00000262093_P2	2	0	0	0	0	0	2	0	0	0	0
ENSP00000262105:L650M:rs762679	FDLIFLMLDPQDEAYDRR	ENSP00000262105	rs762679	L650M	650	ENSP00000262105_rs7	1	0	0	0	0	0	0	0	0	0	1
ENSP00000262265:G10E:rs2293013	LLGLELSEAEAIGADSAR	ENSP00000262265	rs2293013	G10E	10	ENSP00000262265_rs1	3	1	1	0	0	0	0	0	0	0	1
ENSP00000262265:M9L:rs2293012	LLGLELSEAEAIGADSAR	ENSP00000262265	rs2293012	M9L	9	ENSP00000262265_rs1	3	1	1	0	0	0	0	0	0	0	1
ENSP00000262315:P928L:rs2294451	STAVLSAGDTAPEQDSVER	ENSP00000262315	rs2294451	P928L	928	ENSP00000262315_rs2	1	0	0	0	0	0	0	0	1	0	0
ENSP00000262753:M349L:rs363774	EELGHLQNDLTSLENDK	ENSP00000262753	rs363774	M349L	349	ENSP00000262753_rs3	6	0	0	0	0	0	0	2	2	2	0
ENSP00000262753:M349L:rs363774	EELGHLQNDLTSLENDK	ENSP00000262753	rs363774	M349L	349	ENSP00000262753_rs3	1	0	0	0	0	0	0	0	0	1	0
ENSP00000262887:N576Y:rs2682557	YVTAFNGELEDYMSDR	ENSP00000262887	rs2682557	N576Y	576	ENSP00000262887_rs2	1	0	0	0	0	0	0	0	0	1	0
ENSP00000263036:K322E:rs523747	LSEAELMK	ENSP00000263036	rs523747	K322E	322	ENSP00000263036_rs5	6	1	1	0	0	0	1	1	0	0	2
ENSP00000263202:P130A:rs17744624	FQPQSADFLDITNPK	ENSP00000263202	rs17744624	P130A	130	ENSP00000263202_rs1	1	0	0	0	0	0	0	0	1	0	0
ENSP00000263239:T94S:rs1052637	STVLSNGEAAMQSSNSESK	ENSP00000263239	rs1052637	T94S	94	ENSP00000263239_rs1	2	1	0	0	0	1	0	0	0	0	0
ENSP00000263239:T94S:rs1052637	STVLSNGEAAMQSSNSESK	ENSP00000263239	rs1052637	T94S	94	ENSP00000263239_rs1	1	0	0	0	0	0	0	1	0	0	0
ENSP00000263239:P547A:	VALSEFDFSWSK	ENSP00000263239		P547A	547	ENSP00000263239_P5	2	0	0	0	0	0	0	0	0	0	2
ENSP00000263245:S355R:	YNDDSDDSYFTSSSR	ENSP00000263245		S355R	355	ENSP00000263245_S3	3	0	0	0	1	2	0	0	0	0	0
ENSP00000263247:Q275E:rs17496046	LDLDEDYR	ENSP00000263247	rs17496046	Q275E	275	ENSP00000263247_rs1	2	0	0	0	0	0	0	0	0	0	2
ENSP00000263273:R367C:	AQCLSQETEALGR	ENSP00000263273		R367C	367	ENSP00000263273_D6	1	0	0	1	0	0	0	0	0	0	0
ENSP00000263378:H458Q:rs2058322	TVEDLDGLIQQIYR	ENSP00000263378	rs2058322	H458Q	458	ENSP00000263378_rs2	6	1	0	1	1	0	0	2	0	0	1
ENSP00000263378:H458Q:rs2058322	TVEDLDGLIQQIYR	ENSP00000263378	rs2058322	H458Q	458	ENSP00000263378_rs2	2	0	0	0	1	0	0	1	0	0	0
ENSP00000263635:N251S:rs12466551	SGSSLEWNKDGSLR	ENSP00000263635	rs12466551	N251S	251	ENSP00000263635_rs1	1	0	0	0	0	1	0	0	0	0	0
ENSP00000263646:P18T:	GPVYIGELTQDFLR	ENSP00000263646		P18T	18	ENSP00000263646_P1	3	0	0	0	0	0	3	0	0	0	0
ENSP00000263663:E462D:rs1820965	QFSTLVDSTATAGKK	ENSP00000263663	rs1820965	E462D	462	ENSP00000263663_rs1	3	0	0	0	0	1	0	1	0	0	1
ENSP00000263663:V282I:rs396190	TIEVGTFLDLPR	ENSP00000263663	rs396190	V282I	282	ENSP00000263663_rs1	2	1	0	0	0	0	1	0	0	0	0
ENSP00000263816:I4210L:rs4667591	LESAWMNGEDR	ENSP00000263816	rs4667591	I4210L	4210	ENSP00000263816_rs4	1	0	0	0	0	0	0	1	0	0	0
ENSP00000263897:L154S:rs414528	QSAAELDLVLQR	ENSP00000263897	rs414528	L154S	154	ENSP00000263897_rs4	1	0	0	0	1	0	0	0	0	0	0
ENSP00000264263:V215I:rs2303909	GIIDLIEER	ENSP00000264263	rs2303909	V215I	215	ENSP00000264263_rs2	35	0	5	4	8	0	3	6	9	0	0
ENSP00000264380:S696N:rs10932258	KMNSCIK	ENSP00000264380	rs10932258	S696N	696	ENSP00000264380_rs1	1	0	0	0	0	0	0	0	0	1	0
ENSP00000264451:T97A:rs2581423	VPSFETAEGIGAELK	ENSP00000264451	rs2581423	T97A	97	ENSP00000264451_rs1	7	1	0	0	2	1	2	0	0	0	1
ENSP00000264451:T97A:rs2581423	VEKVPSFETAEGIGAELK	ENSP00000264451	rs2581423	T97A	97	ENSP00000264451_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000264705:E2194A:	VNEISVAVDSDPR	ENSP00000264705		E2194A	2194	ENSP00000264705_E21	3	0	0	0	0	0	0	0	0	0	3
ENSP00000264758:S617C:rs4963	GCEENLDEAR	ENSP00000264758	rs4963	S617C	617	ENSP00000264758_rs4	1	0	0	1	0	0	0	0	0	0	0
ENSP00000264758:S617C:rs4963	QKGCEENLDEAR	ENSP00000264758	rs4963	S617C	617	ENSP00000264758_rs4	1	0	0	1	0	0	0	0	0	0	0
ENSP00000264926:R302Q:rs373572	SAAEIVQEIENIEK	ENSP00000264926	rs373572	R302Q	302	ENSP00000264926_rs3	1	0	0	1	0	0	0	0	0	0	0
ENSP00000264926:R302Q:rs373572	SAAEIVQEIENIEK	ENSP00000264926	rs373572	R302Q	302	ENSP00000264926_rs3	1	0	0	1	0	0	0	0	0	0	0
ENSP00000264932:V657I:rs6962	TLNEADCATIPPAIR	ENSP00000264932	rs6962	V657I	657	ENSP00000264932_rs6	3	0	2	1	0	0	0	0	0	0	0
ENSP00000264954:K66N:	VNLEEQLK	ENSP00000264954		K66N	66	ENSP00000264954_K6	2	0	1	1	0	0	0	0	0	0	0
ENSP00000264954:K66N:	VNLEEQLKETVEK	ENSP00000264954		K66N	66	ENSP00000264954_K6	1	0	1	0	0	0	0	0	0	0	0
ENSP00000265056:R227H:	ENHESLVVNYEDLAAR	ENSP00000265056		R227H	227	ENSP00000265056_R2	4	0	0	0	0	0	0	0	0	0	4
ENSP00000265056:R227H:	ENHESLVVNYEDLAAR	ENSP00000265056		R227H	227	ENSP00000265056_R2	1	0	0	0	0	0	0	0	0	0	1
ENSP00000265168:L145P:rs4956145	FAENPKAGDEFVEK	ENSP00000265168	rs4956145	L145P	145	ENSP00000265168_rs1	5	0	0	2	1	0	0	0	0	0	2
ENSP00000265168:K186E:	VENELFK	ENSP00000265168		K186E	186	ENSP00000265168_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000265304:T144M:	QATTIIADNIIFLSDQMK	ENSP00000265304		T144M	144	ENSP00000265304_T1	2	0	0	0	0	0	0	0	0	0	2
ENSP00000265304:T144M:	QATTIIADNIIFLSDQMK	ENSP00000265304		T144M	144	ENSP00000265304_T1	2	0	0	0	0	0	0	0	0	0	2
ENSP00000265304:T144M:	QATTIIADNIIFLSDQMK	ENSP00000265304		T144M	144	ENSP00000265304_T1	2	0	0	0	0	0	0	0	0	0	2
ENSP00000265304:T144M:	QATTIIADNIIFLSDQMK	ENSP00000265304		T144M	144	ENSP00000265304_T1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000265304:T144M:	QATTIIADNIIFLSDQMK	ENSP00000265304		T144M	144	ENSP00000265304_T1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000265322:F297L:rs9288513	KMKETLKEK	ENSP00000265322	rs9288513	F297L	297	ENSP00000265322_rs9	1	0	0	0	0	0	0	0	1	0	0
ENSP00000265384:A906T:	MSYLTTMGADYLSCDSR	ENSP00000265384		A906T	906	ENSP00000265384_rs2	1	0	1	0	0	0	0	0	0	0	0
ENSP00000265384:D482E:rs2309428	YQEEPPAPQPK	ENSP00000265384	rs2309428	D482E	482	ENSP00000265384_rs2	2	0	0	0	1	0	0	0	0	1	0
ENSP00000265447:R230C:rs1049550	GFGTDEQAIIDCLGSCSNK	ENSP00000265447	rs1049550	R230C	230	ENSP00000265447_rs1	4	2	0	0	0	0	2	0	0	0	0
ENSP00000265447:R230C:rs1049550	GFGTDEQAIIDCLGSCSNK	ENSP00000265447	rs1049550	R230C	230	ENSP00000265447_rs1	2	1	0	0	0	0	1	0	0	0	0
ENSP00000265447:I278V:	TPVLFDVYEIK	ENSP00000265447		I278V	278	ENSP00000265447_I27	10	1	4	5	0	0	0	0	0	0	0
ENSP00000265564:R169Q:rs34512144	VQVLEDEEGSK	ENSP00000265564	rs34512144	R169Q	169	ENSP00000265564_rs3	1	0	0	0	0	0	1	0	0	0	0
ENSP00000265729:E94D:	DMSGTMGFNDFK	ENSP00000265729		E94D	94	ENSP00000265729_E9	2	0	0	0	0	0	2	0	0	0	0
ENSP00000265729:E94D:	DMSGTMGFNDFK	ENSP00000265729		E94D	94	ENSP00000265729_E9	2	0	0	0	0	0	2	0	0	0	0
ENSP00000265729:E94D:	DMSGTMGFNDFK	ENSP00000265729		E94D	94	ENSP00000265729_E9	1	0	0	0	0	0	1	0	0	0	0
ENSP00000265729:E94D:	DMSGTMGFNDFK	ENSP00000265729		E94D	94	ENSP00000265729_E9	1	0	0	0	0	0	1	0	0	0	0
ENSP00000265807:L52M:	EREAAMERKESMPVKPRPK	ENSP00000265807		L52M	52	ENSP00000265807_L5	1	0	0	1	0	0	0	0	0	0	0
ENSP00000265963:T503M:	FQVMKLCPFQEK	ENSP00000265963		T503M	503	ENSP00000265963_T5	1	0	0	0	1	0	0	0	0	0	0
ENSP00000266070:T1568A:rs910148	LAAETGEGEGEPLSR	ENSP00000266070	rs910148	T1568A	1568	ENSP00000266070_rs9	11	0	3	0	0	1	0	3	0	2	2
ENSP00000266070:P1220Q:rs6011441	LQQEEADVPAYPK	ENSP00000266070	rs6011441	P1220Q	1220	ENSP00000266070_rs1	2	0	0	0	0	0	2	0	0	0	0
ENSP00000266732:Q599E:rs17459334	AMQADISEAAQILSSDPSR	ENSP00000266732	rs17459334	Q599E	599	ENSP00000266732_rs1	3	0	0	0	0	0	0	0	0	0	3
ENSP00000266732:Q599E:rs17459334	AMQADISEAAQILSSDPSR	ENSP00000266732	rs17459334	Q599E	599	ENSP00000266732_rs1	2	0	0	0	0	0	0	0	0	0	2
ENSP00000266732:Q599E:rs17459334	AMQADISEAAQILSSDPSR	ENSP00000266732	rs17459334	Q599E	599	ENSP00000266732_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000266732:Q599E:rs17459334	AMQADISEAAQILSSDPSR	ENSP00000266732	rs17459334	Q599E	599	ENSP00000266732_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000266839:M202L:	VVPLVQLGETDANVAK	ENSP00000266839		M202L	202	ENSP00000266839_M2	3	0	0	0	0	0	0	0	0	0	3

ENSP00000266839:M202L:	VVPLVQLGETDANVAK	ENSP00000266839		M202L	202	ENSP00000266839_M2	1	0	0	0	0	0	0	0	0	0	1
ENSP00000267622:G1827S:rs1051340	REEMEQLFHDDQGSVTR	ENSP00000267622	rs1051340	G1827S	1827	ENSP00000267622_rs1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000267884:P124A:rs7535	AAAAAAAAAPAAAATAATTAATTAATA	ENSP00000267884	rs7535	P124A	124	ENSP00000267884_rs7	2	0	0	0	0	0	1	0	1	0	0
ENSP00000267884:P124A:rs7535	AAAAAAAAAPAAAATAATTAATTAATA	ENSP00000267884	rs7535	P124A	124	ENSP00000267884_rs7	1	0	0	0	0	1	0	0	0	0	0
ENSP00000267950:T171I:rs1801591	GISFDAAATSGGSASSEK	ENSP00000267950	rs1801591	T171I	171	ENSP00000267950_rs1	10	4	3	3	0	0	0	0	0	0	0
ENSP00000268097:I436V:rs1800431	DFYVVEPLAFEGTPEQK	ENSP00000268097	rs1800431	I436V	436	ENSP00000268097_rs1	18	1	3	2	1	4	0	2	1	1	3
ENSP00000268097:I436V:rs1800431	DFYVVEPLAFEGTPEQK	ENSP00000268097	rs1800431	I436V	436	ENSP00000268097_rs1	3	0	0	0	1	1	0	1	0	0	0
ENSP00000268206:K711R:rs2292071	VDMVNEEIGR	ENSP00000268206	rs2292071	K711R	711	ENSP00000268206_rs2	2	0	0	0	0	0	2	0	0	0	0
ENSP00000268482:L440M:	DATSDMAIIAR	ENSP00000268482		L440M	440	ENSP00000268482_L4	4	0	2	2	0	0	0	0	0	0	0
ENSP00000268704:N730D:rs35749032	LQALADALLEK	ENSP00000268704	rs35749032	N730D	730	ENSP00000268704_rs3	1	0	0	0	0	0	0	0	0	0	1
ENSP00000269122:Q1142H:	ADDPSSYMEVVHAANTSGNWEELVK	ENSP00000269122		Q1142H	1142	ENSP00000269122_Q1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000269243:K1621N:	NMEIDLK	ENSP00000269243		K1621N	1621	ENSP00000269243_R1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000269305:P309S:	ALSNNTSSSPQPKK	ENSP00000269305		P309S	309	ENSP00000269305_P3	2	0	0	0	0	0	0	0	0	0	2
ENSP00000269349:V146I:	ACIGGTNIGEDIR	ENSP00000269349		V146I	146	ENSP00000269349_V1	2	0	2	0	0	0	0	0	0	0	0
ENSP00000271385:E265D:rs267745	AIYPNDGFLK	ENSP00000271385	rs267745	E265D	265	ENSP00000271385_rs2	3	0	0	1	0	0	0	2	0	0	0
ENSP00000271385:T1124N:rs2281959	SNDREEEEEMDDEAIIAAWR	ENSP00000271385	rs2281959	T1124N	1124	ENSP00000271385_rs2	1	0	0	0	0	0	0	0	1	0	0
ENSP00000271630:G290S:rs13294	DILTIDISR	ENSP00000271630	rs13294	G290S	290	ENSP00000271630_rs3	4	0	0	0	0	0	0	0	4	0	0
ENSP00000272163:S154N:rs2230419	FNLSQESSYIATQY	ENSP00000272163	rs2230419	S154N	154	ENSP00000272163_rs2	2	0	0	0	0	2	0	0	0	0	0
ENSP00000273359:I251V:rs17429033	DDVVPWHTSMQVADR	ENSP00000273359	rs17429033	I251V	251	ENSP00000273359_rs1	1	0	0	0	0	0	0	1	0	0	0
ENSP00000273406:V9L:rs1107413	LADGGGAGGTFQPYLDTLR	ENSP00000273406	rs1107413	V9L	9	ENSP00000273406_rs1	6	0	0	0	0	6	0	0	0	0	0
ENSP00000274311:L221M:rs1499280	EQFCDYMFQQAVK	ENSP00000274311	rs1499280	L221M	221	ENSP00000274311_rs1	3	0	0	0	0	0	1	1	1	0	0
ENSP00000274311:L221M:rs1499280	EQFCDYMFQQAVK	ENSP00000274311	rs1499280	L221M	221	ENSP00000274311_rs1	1	0	0	0	0	1	0	0	0	0	0
ENSP00000274364:L629F:rs2455230	ESSWVTPESCFYK	ENSP00000274364	rs2455230	L629F	629	ENSP00000274364_rs2	2	0	0	0	0	2	0	0	0	0	0
ENSP00000274364:D527E:rs2431352	LDEIQQAVDEANVDEDR	ENSP00000274364	rs2431352	D527E	527	ENSP00000274364_rs2	1	0	0	0	1	0	0	0	0	0	0
ENSP00000274364:K532E:rs2909888	LDEIQQAVDEANVDEDR	ENSP00000274364	rs2909888	K532E	532	ENSP00000274364_rs2	1	0	0	0	1	0	0	0	0	0	0
ENSP00000274364:I724V:rs2431363	QTFIDNTDSVVK	ENSP00000274364	rs2431363	I724V	724	ENSP00000274364_rs2	8	0	0	0	3	3	0	0	0	2	0
ENSP00000275603:D298N:	GINPFSLDALSK	ENSP00000275603		D298N	298	ENSP00000275603_D2	1	0	0	0	0	1	0	0	0	0	0
ENSP00000276530:I127V:	VIEITVYEDR	ENSP00000276530		I127V	127	ENSP00000276530_I12	1	0	0	0	1	0	0	0	0	0	0
ENSP00000278359:C76Y:rs1977420	IQPEDMFVYDINEK	ENSP00000278359	rs1977420	C76Y	76	ENSP00000278359_rs1	5	0	0	0	0	3	1	0	0	1	0
ENSP00000278359:C76Y:rs1977420	IQPEDMFVYDINEK	ENSP00000278359	rs1977420	C76Y	76	ENSP00000278359_rs1	5	0	0	0	0	2	2	0	0	1	0
ENSP00000278456:E872D:rs4752904	YTYDDFK	ENSP00000278456	rs4752904	E872D	872	ENSP00000278456_rs4	1	0	0	0	0	0	0	0	1	0	0
ENSP00000279146:Q228K:rs641081	EQPGSPEWIQLDK	ENSP00000279146	rs641081	Q228K	228	ENSP00000279146_rs6	10	2	0	0	0	0	2	2	3	1	0
ENSP00000279146:G219V:	EQPVSPEWIQLDK	ENSP00000279146		G219V	219	ENSP00000279146_G2	2	0	0	2	0	0	0	0	0	0	0
ENSP00000279146:Q228K:rs641081	EQPVSPEWIQLDK	ENSP00000279146	rs641081	Q228K	228	ENSP00000279146_G2	2	0	0	2	0	0	0	0	0	0	0
ENSP00000281111:Q565E:	DSPLQGSGQQNSEAGQR	ENSP00000281111		Q565E	565	ENSP00000281111_Q5	1	0	1	0	0	0	0	0	0	0	0
ENSP00000281537:I778V:rs7179270	EAVQQQQNQLVWVSEGK	ENSP00000281537	rs7179270	I778V	778	ENSP00000281537_rs7	3	1	0	0	1	0	0	0	1	0	0
ENSP00000281537:I778V:rs7179270	EAVQQQQNQLVWVSEGK	ENSP00000281537	rs7179270	I778V	778	ENSP00000281537_rs7	1	0	0	0	1	0	0	0	0	0	0
ENSP00000282050:I223V:rs2228436	TSIAVDTIINQK	ENSP00000282050	rs2228436	I223V	223	ENSP00000282050_rs2	3	1	2	0	0	0	0	0	0	0	0
ENSP00000282992:A444V:	KDLGRSDAREGVEHER	ENSP00000282992		A444V	444	ENSP00000282992_A4	1	0	0	1	0	0	0	0	0	0	0
ENSP00000285718:S139G:	QDDGSSSASPSVQGAPR	ENSP00000285718		S139G	139	ENSP00000285718_S1	6	1	2	1	1	0	0	0	0	0	1
ENSP00000285718:S139G:	QDDGSSSASPSVQGAPR	ENSP00000285718		S139G	139	ENSP00000285718_S1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000286067:I535L:rs3829856	NQSSDSSSACLELK	ENSP00000286067	rs3829856	I535L	535	ENSP00000286067_rs3	2	0	0	0	0	0	0	0	0	0	2
ENSP00000286398:S867L:rs11554260	SYESQIEVMAAEVAKNKELVNK	ENSP00000286398	rs11554260	S867L	867	ENSP00000286398_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000286788:A447D:	FAEAFEDIPR	ENSP00000286788		A447D	447	ENSP00000286788_A4	20	0	8	12	0	0	0	0	0	0	0
ENSP00000287022:N88K:	YEEEKFYLEPYLK	ENSP00000287022		N88K	88	ENSP00000287022_N8	2	2	0	0	0	0	0	0	0	0	0
ENSP00000290846:E137G:	TSLEDEGVFEQK	ENSP00000290846		E137G	137	ENSP00000290846_E1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000292205:K427R:rs2229857	NTNSVPETAPAAIPETR	ENSP00000292205	rs2229857	K427R	427	ENSP00000292205_rs2	3	2	0	0	0	0	1	0	0	0	0
ENSP00000292304:G604V:	SVGGSGVGSFGDNLVTR	ENSP00000292304		G604V	604	ENSP00000292304_G6	1	0	1	0	0	0	0	0	0	0	0
ENSP00000293217:P27L:	DSASFNPELLTHILDGSLEK	ENSP00000293217		P27L	27	ENSP00000293217_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000293217:P27L:	ERDSASFNPELLTHILDGSLEK	ENSP00000293217		P27L	27	ENSP00000293217_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000295006:D22E:rs25655	DREAAEGLGSHER	ENSP00000295006	rs25655	D22E	22	ENSP00000295006_rs2	1	0	0	0	0	0	0	0	0	0	1
ENSP00000295006:K568Q:rs17599	RQDIQSDGFSIETCK	ENSP00000295006	rs17599	K568Q	568	ENSP00000295006_rs2	2	0	0	0	0	1	0	0	1	0	0
ENSP00000295006:K568Q:rs17599	QDIQSDGFSIETCK	ENSP00000295006	rs17599	K568Q	568	ENSP00000295006_rs2	1	0	0	0	1	0	0	0	0	0	0
ENSP00000295926:L46M:	MYSEVSLTIDHSLIPEER	ENSP00000295926		L46M	46	ENSP00000295926_L4	1	0	0	0	0	0	1	0	0	0	0
ENSP00000295974:A378T:	NTPHPDDDDSCSINSDPEAK	ENSP00000295974		A378T	378	ENSP00000295974_A3	2	0	2	0	0	0	0	0	0	0	0
ENSP00000296181:Y766N:	NEMASNPLYR	ENSP00000296181		Y766N	766	ENSP00000296181_Y7	1	0	0	0	0	0	0	0	1	0	0
ENSP00000296289:R246Q:	GQGITGVEDK	ENSP00000296289		R246Q	246	ENSP00000296289_R2	3	0	0	0	0	0	0	0	0	0	3
ENSP00000296289:D200E:	LGQSDPAPLQHQMEIYQK	ENSP00000296289		D200E	200	ENSP00000296289_R2	1	0	0	0	0	0	0	0	1	0	0
ENSP00000296464:I601T:rs35518193	QLGQDLLNSYTENEGK	ENSP00000296464	rs35518193	I601T	601	ENSP00000296464_rs1	2	0	2	0	0	0	0	0	0	0	0
ENSP00000296474:S1195G:rs7433231	GMEYLAEQK	ENSP00000296474	rs7433231	S1195G	1195	ENSP00000296474_rs1	1	0	0	0	0	0	0	0	1	0	0
ENSP00000296474:S1195G:rs7433231	GMEYLAEQK	ENSP00000296474	rs7433231	S1195G	1195	ENSP00000296474_rs1	1	1	0	0	0	0	0	0	0	0	0
ENSP00000296802:V224E:	GTVIEVNESELGLVTQGGK	ENSP00000296802		V224E	224	ENSP00000296802_V2	1	0	0	0	0	0	0	1	0	0	0
ENSP00000296913:T35N:rs9352000	GAPMDPNESPAAPEAALPK	ENSP00000296913	rs9352000	T35N	35	ENSP00000296913_rs9	3	0	0	0	0	0	3	0	0	0	0
ENSP00000296913:T35N:rs9352000	GAPMDPNESPAAPEAALPK	ENSP00000296913	rs9352000	T35N	35	ENSP00000296913_rs9	2	0	0	0	0	0	2	0	0	0	0
ENSP00000297135:F330L:rs2269970	STMPTPGNTAALRASLWTNM	ENSP00000297135	rs2269970	F330L	330	ENSP00000297135_rs2	1	0	0	0	0	0	1	0	0	0	0
ENSP00000297440:V632A:rs4720951	LFSILSTALLR	ENSP00000297440	rs4720951	V632A	632	ENSP00000297440_S3	4	0	0	1	0	0	1	1	0	0	1
ENSP00000298310:S257C:rs3100906	GYIIQKREIKPCLEADK	ENSP00000298310	rs3100906	S257C	257	ENSP00000298310_rs3	1	0	0	0	0	0	1	0	0	0	0
ENSP00000298700:D288E:rs2227310	ELEIMQILTR	ENSP00000298700	rs2227310	D288E	288	ENSP00000298700_rs2	8	3	1	0	1	0	0	1	2	0	0
ENSP00000298746:R167K:rs7099565	ATDTLDSTGK	ENSP00000298746	rs7099565	R167K	167	ENSP00000298746_rs3	3	0	1	0	1	0	1	0	0	0	0
ENSP00000300648:Y2155D:rs3864938	IIIEDLLEATR	ENSP00000300648	rs3864938	Y2155D	2155	ENSP00000300648_rs3	38	3	4	2	5	3	4	4	8	2	3
ENSP00000300737:P619L:	SHSLSSPDPDTPSPVGDSR	ENSP00000300737		P619L	619	ENSP00000300737_D5	1	0	1	0	0	0	0	0	0	0	0
ENSP00000301286:V52A:rs4807597	EAVSSGVTGAMDMAK	ENSP00000301286	rs4807597	V52A	52	ENSP00000301286_rs7	1	0	0	0	0	0	0	0	0	1	0
ENSP00000301659:V128L:rs7212938	ALETLQERK	ENSP00000301659	rs7212938	V128L	128	ENSP00000301659_rs7	1	0	0	0	0	0	0	0	1	0	0
ENSP00000301810:H198Q:rs61095322	GCFQAEIVPVTTTVQDDK	ENSP00000301810	rs61095322	H198Q	198	ENSP00000301810_rs6	2	0	0	0	0	0	0	2	0	0	0
ENSP00000303222:H119Q:	EVSSSFDQVIK	ENSP00000303222		H119Q	119	ENSP00000303222_H1	8	0	5	3	0	0	0	0	0	0	0
ENSP00000303279:V831A:	SCQTALVEILDVIAR	ENSP00000303279		V831A	831	ENSP00000303279_V8	2	1	1	0	0	0	0	0	0	0	0
ENSP00000303279:V831A:	SCQTALVEILDVIAR	ENSP00000303279		V831A	831	ENSP00000303279_V8	1	0	1	0	0	0	0	0	0	0	0
ENSP00000303486:L1301M:	TMQPPDIYSIVIEGER	ENSP00000303486		L1301M	1301	ENSP00000303486_L1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000303525:L70M:rs2877380	EHDVQNTFEEMEK	ENSP00000303525	rs2877380	L70M	70	ENSP00000303525_rs2	1	0	0	0	0	0	0	0	1	0	0
ENSP00000303623:P17A:rs3027956	GLAAAEATANGGLALASIEDQGAAAGG	ENSP00000303623	rs3027956	P17A	17	ENSP00000303623_rs3	5	0	0	0	0	0	0	0	0	0	5
ENSP00000303623:V512L:rs3027961	SELPLDPLPLPTEEGNPLLK	ENSP00000303623	rs3027961	V512L	512	ENSP00000303623_rs3	7	0	1	3	0	2	0	0	0	1	0
ENSP00000303623:V512L:rs3027961	PLPLPTEEGNPLLK	ENSP00000303623	rs3027961	V512L	512	ENSP00000303623_rs3	7	0	3	1	0	1	0	0	0	2	0
ENSP00000303623:V512L:rs3027961	SELPLDPLPLPTEEGNPLLK	ENSP00000303623	rs3027961	V512L	512	ENSP00000303623_rs3	1	0	1	0	0	0	0	0	0	0	0
ENSP00000304350:W927R:	ITDAYLDQYLR	ENSP00000304350		W927R	927	ENSP00000304350_W	5	0	5	0	0	0	0	0	0	0	0
ENSP00000305193:V260M:rs2305458	LSPQDPSEDVSSMDPLK	ENSP00000305193	rs2305458	V260M	260	ENSP00000305193_rs2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000305442:A121V:	MQLVAESLQEADK	ENSP00000305442		A121V	121	ENSP00000305442_A1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000305560:G195R:rs1334576	KMVEDRQSGDLEK	ENSP00000305560	rs1334576	G195R	195	ENSP00000305560_rs2	5	1	0	1	0	0	0	0	2	1	0
ENSP00000305653:R385Q:	GMQALGVTEDR	ENSP00000305653		R385Q	385	ENSP00000305653_R3	5	0	0	0	0	0	2	0	0	0	3
ENSP00000305653:R385Q:	GMQALGVTEDR	ENSP00000305653		R385Q	385	ENSP00000305653_R3	2	0	0	0	0	0	1	0	0	0	1
ENSP00000305692:H199R:rs1042393	YEVPLETPR	ENSP00000305692	rs1042393	H199R	199	ENSP00000305692_rs1	12	4	4	2	0	0	0	1	0	0	1
ENSP00000305839:M300V:rs6556276	ADPVPLESMDSASTGK	ENSP00000305839	rs6556276	M300V	300	ENSP00000305839_rs6	1	1	0	0	0	0	0	0	0	0	0
ENSP00000306123:V320M:	DKLEPEAPALALPM	ENSP00000306123		V320M	320	ENSP00000306123_rs8	1	0	0	1	0	0	0	0	0	0	0
ENSP00000306473:M21T:rs6598679	TGWAVEQELASLEK	ENSP00000306473	rs6598679	M21T	21	ENSP00000306473_rs6	2	0	0	1	0	0	1	0	0	0	0
ENSP00000306881:L211V:rs8018720	VPVTQATR	ENSP00000306881	rs8018720	L211V	211	ENSP00000306881_rs8	1	0	0	0	0	0	1	0	0	0	0
ENSP00000306920:C521R:rs4302331	ILTDWTIFPLDTEDAVR	ENSP00000306920	rs4302331	C521R	521	ENSP00000306920_S5	2	0	0	0	0	0	0	1	0	1	0
ENSP00000307288:E329D:	QIADEDFYEK	ENSP00000307288		E329D	329	ENSP00000307288_E3	2	0	1	0	0	0	0	0	1	0	0
ENSP00000308495:G12V:	LVVVGAVGVGK	ENSP00000308495		G12V	12	ENSP00000308495_G1	1	0	0	0	0	0	0	0	1	0	0
ENSP00000309262:R600W:	SSLWSWR	ENSP00000309262		R600W	600	ENSP00000309262_R6	1	0	0	0	0	1	0	0	0	0	0
ENSP00000309539:G543D:	NLHQSGFSLSDAQIDDNIPR	ENSP00000309539		G543D	543	ENSP00000309539_G5	1	0	0	1	0	0	0	0	0	0	0
ENSP00000309643:R108Q:	ILVLDDTNHEQER	ENSP00000309643		R108Q	108	ENSP00000309643_R1	2	0	0	0	0	0	2	0	0	0	0
ENSP00000309643:R108Q:	ILVLDDTNHEQER	ENSP00000309643		R108Q	108	ENSP00000309643_R1	1	0	0	0	0	0	1	0	0	0	0
ENSP00000310966:K259T:rs735482	GTETFEPEDK	ENSP00000310966	rs735482	K259T	259	ENSP00000310966_rs7	1	0	0	0	0	0	0	0	0	0	1
ENSP00000311550:G357D:rs2061690	GPDGVCLSGDR	ENSP00000311550	rs2061690	G357D	357	ENSP00000311550_rs2	1	0	0	0	0	0	0	0	1	0	0
ENSP00000311572:A27S:rs1053959	TSELPPLK	ENSP00000311572	rs1053959	A27S	27	ENSP00000311572_rs1	1	0	0	0	0	0	0	1	0	0	0
ENSP00000311746:S50A:rs3745535	LDPEAYGAPCAR	ENSP00000311746	rs3745535	S50A	50	ENSP00000311746_rs2	4	0	0	0	0	0	0	0	0	4	0
ENSP00000311930:T154M:rs1130426	PQGTFASQVMLEGDK	ENSP00000311930	rs1130426	T154M	154	ENSP00000311930_rs1	3	0	0	0	2	0	0	0	1	0	0

ENSP00000312042:S61A:rs11891776	AACLESAQEPAGAWGNK	ENSP00000312042	rs11891776	S61A	61	ENSP00000312042_rs1	2	1	0	0	0	0	0	0	0	1	0
ENSP00000312606:N52S:rs2229540	HIDCAAIYGSEPEIGEALK	ENSP00000312606	rs2229540	N52S	52	ENSP00000312606_rs2	1	0	1	0	0	0	0	0	0	0	0
ENSP00000312664:A398V:	VCDMHVADMLVK	ENSP00000312664		A398V	398	ENSP00000312664_A3	2	2	0	0	0	0	0	0	0	0	0
ENSP00000313540:P662L:	AGPAEEGLSGPMEVLR	ENSP00000313540		P662L	662	ENSP00000313540_R2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000313540:P662L:	AGPAEEGLSGPMEVLR	ENSP00000313540		P662L	662	ENSP00000313540_R2	1	0	1	0	0	0	0	0	0	0	0
ENSP00000314349:G1393A:rs45491898	GMGTVEGADQSNPK	ENSP00000314349	rs45491898	G1393A	1393	ENSP00000314349_R4	4	4	0	0	0	0	0	0	0	0	0
ENSP00000314349:G1393A:rs45491898	GMGTVEGADQSNPK	ENSP00000314349	rs45491898	G1393A	1393	ENSP00000314349_R4	1	1	0	0	0	0	0	0	0	0	0
ENSP00000314491:A408T:	DATGLECKPQPL	ENSP00000314491		A408T	408	ENSP00000314491_A4	2	0	1	1	0	0	0	0	0	0	0
ENSP00000314491:R415Q:	DATGLECKPQPL	ENSP00000314491		R415Q	415	ENSP00000314491_A4	2	0	1	1	0	0	0	0	0	0	0
ENSP00000314724:V148L:rs2194816	LNATEEMLQQELLSR	ENSP00000314724	rs2194816	V148L	148	ENSP00000314724_rs2	8	0	1	1	2	0	0	1	0	0	3
ENSP00000314724:V148L:rs2194816	LNATEEMLQQELLSR	ENSP00000314724	rs2194816	V148L	148	ENSP00000314724_rs2	7	0	0	1	1	2	0	1	0	0	2
ENSP00000314724:V148L:rs2194816	LNATEEMLQQELLSR	ENSP00000314724	rs2194816	V148L	148	ENSP00000314724_rs2	5	0	0	1	2	0	0	0	0	0	2
ENSP00000314724:V148L:rs2194816	LNATEEMLQQELLSR	ENSP00000314724	rs2194816	V148L	148	ENSP00000314724_rs2	2	0	0	1	0	0	0	0	0	0	1
ENSP00000315397:D279N:rs13508	EAPETDTSPSLWNVEFAK	ENSP00000315397	rs13508	D279N	279	ENSP00000315397_rs1	1	0	0	0	0	0	0	0	1	0	0
ENSP00000315434:S724G:rs743580	SSVVGAGEGR	ENSP00000315434	rs743580	S724G	724	ENSP00000315434_rs7	1	0	0	0	0	0	1	0	0	0	0
ENSP00000315630:Q505E:rs415895	EQALQEAMEQLEELELER	ENSP00000315630	rs415895	Q505E	505	ENSP00000315630_rs4	1	0	1	0	0	0	0	0	0	0	0
ENSP00000315650:R310C:	EIESSPQYCLR	ENSP00000315650		R310C	310	ENSP00000315650_R3	9	0	4	5	0	0	0	0	0	0	0
ENSP00000315768:V133A:	AQLEQGEPALETPVESQQHEIESR	ENSP00000315768		V133A	133	ENSP00000315768_V1	1	1	0	0	0	0	0	0	0	0	0
ENSP00000316032:E1661K:rs34446357	GFLEDLAPPK	ENSP00000316032	rs34446357	E1661K	1661	ENSP00000316032_rs3	1	0	1	0	0	0	0	0	0	0	0
ENSP00000316638:S64P:rs9690787	PAGPGAPEAAGTEASSEEVGIAEAGPEP	ENSP00000316638	rs9690787	S64P	64	ENSP00000316638_rs9	4	2	0	0	0	2	0	0	0	0	0
ENSP00000316879:H582N:	EDKINNAENIQPGEQK	ENSP00000316879		H582N	582	ENSP00000316879_rs1	1	0	0	0	0	0	0	1	0	0	0
ENSP00000316879:Y958C:	MDQCFNQMEK	ENSP00000316879		Y958C	958	ENSP00000316879_rs2	2	0	2	0	0	0	0	0	0	0	0
ENSP00000317399:E236D:	VGTDLLDEEITK	ENSP00000317399		E236D	236	ENSP00000317399_E2	2	0	0	0	2	0	0	0	0	0	0
ENSP00000317992:I300V:rs3748597	MVVVWSTGEESLR	ENSP00000317992	rs3748597	I300V	300	ENSP00000317992_rs3	2	0	0	0	0	1	1	0	0	0	0
ENSP00000318494:A14V:	ELSDLVR	ENSP00000318494		A14V	14	ENSP00000318494_A1	1	0	0	0	0	0	1	0	0	0	0
ENSP00000318687:R265C:	ALLCLYQECEK	ENSP00000318687		R265C	265	ENSP00000318687_R2	2	1	1	0	0	0	0	0	0	0	0
ENSP00000318690:N249S:rs7560262	DIDLSCGSGSSK	ENSP00000318690	rs7560262	N249S	249	ENSP00000318690_rs6	1	0	0	0	0	0	1	0	0	0	0
ENSP00000318690:T594A:rs6722682	VILEEHSACENEVSK	ENSP00000318690	rs6722682	T594A	594	ENSP00000318690_rs6	1	0	0	0	0	0	0	0	0	0	1
ENSP00000318697:G71C:	AALVDLEPCTMDSVR	ENSP00000318697		G71C	71	ENSP00000318697_G7	5	0	4	1	0	0	0	0	0	0	0
ENSP00000318697:G71C:	AALVDLEPCTMDSVR	ENSP00000318697		G71C	71	ENSP00000318697_G7	3	0	1	2	0	0	0	0	0	0	0
ENSP00000318966:A310T:	LQKPVEIAEDTTLEETLVK	ENSP00000318966		A310T	310	ENSP00000318966_A3	1	0	1	0	0	0	0	0	0	0	0
ENSP00000319141:S266N:rs10455	SDSELNNEVAAR	ENSP00000319141	rs10455	S266N	266	ENSP00000319141_rs1	4	0	1	0	2	0	0	0	0	0	1
ENSP00000319141:S266N:rs10455	GSMPAYSGNNMDKSDSELNNEVAAR	ENSP00000319141	rs10455	S266N	266	ENSP00000319141_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000319141:S266N:rs10455	GSMPAYSGNNMDKSDSELNNEVAAR	ENSP00000319141	rs10455	S266N	266	ENSP00000319141_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000319233:A733V:	TPYGVSIFQSK	ENSP00000319233		A733V	733	ENSP00000319233_A7	1	0	1	0	0	0	0	0	0	0	0
ENSP00000319690:R135W:	DYYDWMYSYPAR	ENSP00000319690		R135W	135	ENSP00000319690_R1	10	10	0	0	0	0	0	0	0	0	0
ENSP00000319814:V184L:rs707555	MGTPVLEALGDGEFVK	ENSP00000319814	rs707555	V184L	184	ENSP00000319814_rs7	5	0	0	0	0	0	0	0	5	0	0
ENSP00000319814:V184L:rs707555	MGTPVLEALGDGEFVK	ENSP00000319814	rs707555	V184L	184	ENSP00000319814_rs7	3	0	0	0	0	0	0	0	3	0	0
ENSP00000319814:V184L:rs707555	MGTPVLEALGDGEFVK	ENSP00000319814	rs707555	V184L	184	ENSP00000319814_rs7	1	0	0	0	0	0	0	0	1	0	0
ENSP00000320168:S303N:rs2521998	EHVMNEVDTNK	ENSP00000320168	rs2521998	S303N	303	ENSP00000320168_rs2	1	0	0	0	0	0	0	0	1	0	0
ENSP00000320168:S303N:rs2521998	EHVMNEVDTNK	ENSP00000320168	rs2521998	S303N	303	ENSP00000320168_rs2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000320168:S303N:rs2521998	EHVMNEVDTNKDR	ENSP00000320168	rs2521998	S303N	303	ENSP00000320168_rs2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000320168:S303N:rs2521998	NEVDTNKDRLVTLEEFLKATEK	ENSP00000320168	rs2521998	S303N	303	ENSP00000320168_rs2	1	0	0	0	0	0	1	0	0	0	0
ENSP00000320516:A391V:	LLDTVDDMLANDIVR	ENSP00000320516		A391V	391	ENSP00000320516_A3	4	0	4	0	0	0	0	0	0	0	0
ENSP00000320516:A391V:	LLDTVDDMLANDIVR	ENSP00000320516		A391V	391	ENSP00000320516_A3	3	0	3	0	0	0	0	0	0	0	0
ENSP00000321269:N9D:ENSSNP1147354	TEEKGDGK	ENSP00000321269	ENSSNP114	N9D	9	ENSP00000321269_EN	2	0	2	0	0	0	0	0	0	0	0
ENSP00000321449:V88I:rs11553441	LLSTCGLVQSIELQEKPDLAESPK	ENSP00000321449	rs11553441	V88I	88	ENSP00000321449_rs1	2	1	0	1	0	0	0	0	0	0	0
ENSP00000321746:T381A:rs7690296	ISNSAAYSGSVAPANSALGQTQPSDQD	ENSP00000321746	rs7690296	T381A	381	ENSP00000321746_rs9	1	0	0	0	0	0	0	0	0	0	1
ENSP00000322180:H376R:rs1055130	QTIGALLTKYSRSSM	ENSP00000322180	rs1055130	H376R	376	ENSP00000322180_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000322446:P55S:rs12801000	YESQEPLAGQESPLSLATR	ENSP00000322446	rs12801000	P55S	55	ENSP00000322446_rs3	1	1	0	0	0	0	0	0	0	0	0
ENSP00000322926:H644Y:rs61730892	YSEALEALENGIK	ENSP00000322926	rs61730892	H644Y	644	ENSP00000322926_rs6	4	0	0	0	0	0	0	0	4	0	0
ENSP00000323856:T4539M:	FLEVQYLTGGLIEPDMPGR	ENSP00000323856		T4539M	4539	ENSP00000323856_T4	3	0	0	0	0	0	0	0	0	0	3
ENSP00000323856:T4539M:	FLEVQYLTGGLIEPDMPGR	ENSP00000323856		T4539M	4539	ENSP00000323856_T4	2	0	0	0	0	0	0	0	0	0	2
ENSP00000323856:T4539M:	FLEVQYLTGGLIEPDMPGR	ENSP00000323856		T4539M	4539	ENSP00000323856_T4	2	0	0	0	0	0	0	0	0	0	2
ENSP00000323856:T4539M:	FLEVQYLTGGLIEPDMPGR	ENSP00000323856		T4539M	4539	ENSP00000323856_T4	1	0	0	0	0	0	0	0	0	0	1
ENSP00000323856:G3490A:rs35261863	TLLQASGCLAGIYLEDTK	ENSP00000323856	rs35261863	G3490A	3490	ENSP00000323856_T4	4	0	0	0	0	0	0	0	3	0	1
ENSP00000323856:G3490A:rs35261863	TLLQASGCLAGIYLEDTK	ENSP00000323856	rs35261863	G3490A	3490	ENSP00000323856_T4	3	0	0	0	0	0	0	0	2	0	1
ENSP00000323889:T185A:	ACSPASLSQASADLEATLR	ENSP00000323889		T185A	185	ENSP00000323889_rs2	2	0	0	0	0	0	1	0	0	0	1
ENSP00000323889:T185A:	ACSPASLSQASADLEATLR	ENSP00000323889		T185A	185	ENSP00000323889_rs2	2	0	0	0	0	0	1	0	0	0	1
ENSP00000323889:V89G:rs7212260	EPPADGWTPPAR	ENSP00000323889	rs7212260	V89G	89	ENSP00000323889_rs2	1	0	0	0	0	0	1	0	0	0	0
ENSP00000324173:T453I:	SQIFSIASDNQPTVTIK	ENSP00000324173		T453I	453	ENSP00000324173_T4	1	0	1	0	0	0	0	0	0	0	0
ENSP00000324549:G820S:rs7170637	YLTLDSFDAMFR	ENSP00000324549	rs7170637	G820S	820	ENSP00000324549_rs7	2	0	0	0	0	0	2	0	0	0	0
ENSP00000324549:G820S:rs7170637	YLTLDSFDAMFR	ENSP00000324549	rs7170637	G820S	820	ENSP00000324549_rs7	1	0	0	0	0	0	1	0	0	0	0
ENSP00000325017:Q83E:rs714774	SIDPGLKEDTLEFLIK	ENSP00000325017	rs714774	Q83E	83	ENSP00000325017_rs7	4	0	1	1	0	2	0	0	0	0	0
ENSP00000325017:Q83E:rs714774	SIDPGLKEDTLEFLIK	ENSP00000325017	rs714774	Q83E	83	ENSP00000325017_rs7	1	0	0	0	0	0	0	0	1	0	0
ENSP00000325355:E891G:rs7503373	LSSVSGPSPEPPPLDGSPGPK	ENSP00000325355	rs7503373	E891G	891	ENSP00000325355_rs7	1	0	0	0	0	1	0	0	0	0	0
ENSP00000325548:G139S:	GSTDDKGPVASWINALEAYQK	ENSP00000325548		G139S	139	ENSP00000325548_G1	2	0	0	0	0	0	1	0	0	0	1
ENSP00000325785:V951M:rs204718	SSEEMKR	ENSP00000325785	rs204718	V951M	951	ENSP00000325785_rs2	1	0	0	0	0	1	0	0	0	0	0
ENSP00000325946:H139R:	SDLVNEEATGQFR	ENSP00000325946		H139R	139	ENSP00000325946_H1	10	0	0	0	10	0	0	0	0	0	0
ENSP00000326381:M307V:	DFTVSALHGDVDQK	ENSP00000326381		M307V	307	ENSP00000326381_M3	1	0	0	0	0	0	1	0	0	0	0
ENSP00000326381:M307V:	DFTVSALHGDVDQK	ENSP00000326381		M307V	307	ENSP00000326381_M3	1	0	0	0	0	0	1	0	0	0	0
ENSP00000326411:C160Y:rs2270962	YVGNFGNSSGEVDTK	ENSP00000326411	rs2270962	C160Y	160	ENSP00000326411_rs3	1	0	0	0	0	0	1	0	0	0	0
ENSP00000326563:A256T:rs6865472	LMDNSTPQSEGGTLK	ENSP00000326563	rs6865472	A256T	256	ENSP00000326563_rs6	4	0	1	0	0	1	0	0	1	1	0
ENSP00000326563:S1201N:rs7706614	SEEPLKTDSSASNNNSELK	ENSP00000326563	rs7706614	S1201N	1201	ENSP00000326563_rs6	1	0	0	0	1	0	0	0	0	0	0
ENSP00000326563:A256T:rs6865472	LMDNSTPQSEGGTLKAVK	ENSP00000326563	rs6865472	A256T	256	ENSP00000326563_rs6	1	1	0	0	0	0	0	0	0	0	0
ENSP00000327054:V224A:	LVEADSSR	ENSP00000327054		V224A	224	ENSP00000327054_V2	6	0	4	2	0	0	0	0	0	0	0
ENSP00000327054:V224A:	LVEADSSRQQEYDFK	ENSP00000327054		V224A	224	ENSP00000327054_V2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000327054:A237T:	MTQALEELR	ENSP00000327054		A237T	237	ENSP00000327054_A2	3	1	2	0	0	0	0	0	0	0	0
ENSP00000327209:C774R:rs1628172	DSLMSQAPISNQQAEVTPTGR	ENSP00000327209	rs1628172	C774R	774	ENSP00000327209_rs1	1	0	0	0	0	1	0	0	0	0	0
ENSP00000328062:V901I:rs1663564	LGITPEGQSYLDQFR	ENSP00000328062	rs1663564	V901I	901	ENSP00000328062_rs1	8	1	1	0	1	1	2	0	1	1	0
ENSP00000328062:N1158D:	TSDGDLSDSTVSADPVVK	ENSP00000328062		N1158D	1158	ENSP00000328062_rs1	3	0	2	1	0	0	0	0	0	0	0
ENSP00000329161:M604V:rs2627223	LNEGSSAMANGVEEKEPEAPEM	ENSP00000329161	rs2627223	M604V	604	ENSP00000329161_rs3	8	0	1	1	2	0	0	2	2	0	0
ENSP00000329161:M604V:rs2627223	LNEGSSAMANGVEEK	ENSP00000329161	rs2627223	M604V	604	ENSP00000329161_rs3	3	1	0	1	0	0	0	1	0	0	0
ENSP00000329161:M604V:rs2627223	LNEGSSAMANGVEEKEPEAPEM	ENSP00000329161	rs2627223	M604V	604	ENSP00000329161_rs3	1	0	1	0	0	0	0	0	0	0	0
ENSP00000329161:M604V:rs2627223	LNEGSSAMANGVEEKEPEAPEM	ENSP00000329161	rs2627223	M604V	604	ENSP00000329161_rs3	1	0	0	0	0	0	0	0	0	0	1
ENSP00000329399:P166R:	EMKKNPMTNYTTVRR	ENSP00000329399		P166R	166	ENSP00000329399_Q1	7	0	0	0	3	1	0	0	1	1	1
ENSP00000329399:Q167R:	EMKKNPMTNYTTVRR	ENSP00000329399		Q167R	167	ENSP00000329399_Q1	7	0	0	0	3	1	0	0	1	1	1
ENSP00000330017:S105P:rs11546280	IQDVGLVPMGGVMPGAVPAAAAQEA	ENSP00000330017	rs11546280	S105P	105	ENSP00000330017_rs1	2	0	0	0	2	0	0	0	0	0	0
ENSP00000330101:Q305E:	DVDAAFMNKVELEAK	ENSP00000330101		Q305E	305	ENSP00000330101_E4	1	0	0	0	0	0	0	0	0	0	1
ENSP00000330587:A14T:	MDPNCSCEAGDSCTCAGSCK	ENSP00000330587		A14T	14	ENSP00000330587_G1	7	2	0	0	0	0	5	0	0	0	0
ENSP00000330587:G11D:	MDPNCSCEAGDSCTCAGSCK	ENSP00000330587		G11D	11	ENSP00000330587_G1	7	2	0	0	0	0	5	0	0	0	0
ENSP00000330587:A14T:	MDPNCSCEAGDSCTCAGSCK	ENSP00000330587		A14T	14	ENSP00000330587_G1	1	0	0	0	0	0	1	0	0	0	0
ENSP00000330587:G11D:	MDPNCSCEAGDSCTCAGSCK	ENSP00000330587		G11D	11	ENSP00000330587_G1	1	0	0	0	0	0	1	0	0	0	0
ENSP00000330587:A14T:	MDPNCSCEAGDSCTCAGSCK	ENSP00000330587		A14T	14	ENSP00000330587_G1	1	0	0	0	0	0	1	0	0	0	0
ENSP00000330587:G11D:	MDPNCSCEAGDSCTCAGSCK	ENSP00000330587		G11D	11	ENSP00000330587_G1	1	0	0	0	0	0	1	0	0	0	0
ENSP00000330836:P123S:rs2274217	HASSGSFLSSANEHLK	ENSP00000330836	rs2274217	P123S	123	ENSP00000330836_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000331487:A539T:	NEELTQTWK	ENSP00000331487		A539T	539	ENSP00000331487_A5	1	0	1	0	0	0	0	0	0	0	0
ENSP00000331678:R277P:	GVGGAVPGAVLEPVAPAPSVR	ENSP00000331678		R277P	277	ENSP00000331678_R2	1	0	0	0	0	1	0	0	0	0	0
ENSP00000331679:N17D:	VIDEEYK	ENSP00000331679		N17D	17	ENSP00000331679_N1	1	1	0	0	0	0	0	0	0	0	0
ENSP00000331901:A254V:	AAVPAPEEEMDECEQALAAEPK	ENSP00000331901		A254V	254	ENSP00000331901_A2	7	0	7	0	0	0	0	0	0	0	0
ENSP00000331901:A254V:	AAVPAPEEEMDECEQALAAEPK	ENSP00000331901		A254V	254	ENSP00000331901_A2	2	0	2	0	0	0	0	0	0	0	0
ENSP00000331901:A254V:	AAVPAPEEEMDECEQALAAEPK	ENSP00000331901		A254V	254	ENSP00000331901_A2	1	0	1	0	0	0	0	0	0	0	0
ENSP00000331901:A254V:	KAAVPAPEEEMDECEQALAAEPK	ENSP00000331901		A254V	254	ENSP00000331901_A2	7	0	7	0	0	0	0	0	0	0	0
ENSP00000331901:A254V:	KAAVPAPEEEMDECEQALAAEPK	ENSP00000331901		A254V	254	ENSP00000331901_A2	2	0	2	0	0	0	0	0	0	0	0
ENSP00000331983:G1202S:rs1012899	LGNDAVSQDSSSPALSSVER	ENSP00000331983	rs1012899	G1202S	1202	ENSP00000331983_rs1	2	0	0	0	0	0	0	0	0	1	1
ENSP00000332013:S61R:rs1291212	KSRLLAALDEERPGR	ENSP00000332013	rs1291212	S61R	61	ENSP00000332013_rs1	1	0	0	0	0	0	1	0	0	0	0

ENSP00000332373:A215D:	DLNIVDQEGSLLGK	ENSP00000332373		A215D	215	ENSP00000332373_rs4	1	1	0	0	0	0	0	0	0	0	0
ENSP00000332887:I47V:rs14115	AFDQGADAIYDHVNEGK	ENSP00000332887	rs14115	I47V	47	ENSP00000332887_rs1	8	0	0	0	0	0	4	4	0	0	0
ENSP00000332887:I47V:rs14115	AFDQGADAIYDHVNEGK	ENSP00000332887	rs14115	I47V	47	ENSP00000332887_rs1	2	0	0	0	0	0	1	1	0	0	0
ENSP00000333393:N272S:rs34873284	QSQHEELQNVR	ENSP00000333393	rs34873284	N272S	272	ENSP00000333393_rs3	1	1	0	0	0	0	0	0	0	0	0
ENSP00000333664:E172D:rs156265	LMEKDKAR	ENSP00000333664	rs156265	E172D	172	ENSP00000333664_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000334040:R46Q:	KVQTEEKKAPRR	ENSP00000334040		R46Q	46	ENSP00000334040_R4	1	1	0	0	0	0	0	0	0	0	0
ENSP00000334156:T1568A:	QLWGLLIEEAEK	ENSP00000334156		T1568A	1568	ENSP00000334156_D1	1	0	0	1	0	0	0	0	0	0	0
ENSP00000334156:T1568A:	QLWGLLIEEAEKR	ENSP00000334156		T1568A	1568	ENSP00000334156_D1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000334451:S299R:rs5992495	LPDGQLQVTWEDR	ENSP00000334451	rs5992495	S299R	299	ENSP00000334451_E17	1	0	0	0	0	0	1	0	0	0	0
ENSP00000334612:T264S:rs42942	AGEGSYALDSESCMEK	ENSP00000334612	rs42942	T264S	264	ENSP00000334612_rs4	7	0	1	0	0	0	0	0	2	0	4
ENSP00000334612:T264S:rs42942	AGEGSYALDSESCMEK	ENSP00000334612	rs42942	T264S	264	ENSP00000334612_rs4	6	0	1	2	0	0	0	0	1	0	2
ENSP00000335372:E176D:	EDEMKR	ENSP00000335372		E176D	176	ENSP00000335372_E17	2	0	0	0	1	0	0	0	0	1	0
ENSP00000336824:C552Y:rs805657	DVISNTSDVIGTYEAADVAQK	ENSP00000336824	rs805657	C552Y	552	ENSP00000336824_rs8	3	1	0	0	0	0	2	0	0	0	0
ENSP00000336824:C552Y:rs805657	DVISNTSDVIGTYEAADVAQK	ENSP00000336824	rs805657	C552Y	552	ENSP00000336824_rs8	1	0	0	0	0	0	1	0	0	0	0
ENSP00000336922:S105P:rs12702	KEDLELIMTEMEIPR	ENSP00000336922	rs12702	S105P	105	ENSP00000336922_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000336927:T125I:	AGTNGETTIQGLDGLSER	ENSP00000336927		T125I	125	ENSP00000336927_T1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000336927:T125I:	GVVPLAGTNGETTIQGLDGLSER	ENSP00000336927		T125I	125	ENSP00000336927_T1	9	0	5	4	0	0	0	0	0	0	0
ENSP00000336927:T125I:	GVVPLAGTNGETTIQGLDGLSER	ENSP00000336927		T125I	125	ENSP00000336927_T1	6	0	3	3	0	0	0	0	0	0	0
ENSP00000336927:D196G:rs3112557	YASICQQNGIVPIVEPEILPDGGHDLK	ENSP00000336927	rs3112557	D196G	196	ENSP00000336927_T1	5	0	4	1	0	0	0	0	0	0	0
ENSP00000336994:R75Q:	QGPAPQDQAGPGGAPR	ENSP00000336994		R75Q	75	ENSP00000336994_R7	1	1	0	0	0	0	0	0	0	0	0
ENSP00000337159:I192T:rs2544600	EQQNDTSSELQNR	ENSP00000337159	rs2544600	I192T	192	ENSP00000337159_rs2	1	0	1	0	0	0	0	0	0	0	0
ENSP00000337518:Q91E:rs2584625	VVTLQEDITTER	ENSP00000337518	rs2584625	Q91E	91	ENSP00000337518_rs2	6	0	1	0	1	0	3	0	1	0	0
ENSP00000337541:V1037I:	LAAQESSEAEDMSIPR	ENSP00000337541		V1037I	1037	ENSP00000337541_M2	3	0	0	1	0	0	0	0	0	0	2
ENSP00000337907:K322R:rs2997211	RSFRLSRKDK	ENSP00000337907	rs2997211	K322R	322	ENSP00000337907_rs2	1	0	0	0	0	0	0	1	0	0	0
ENSP00000338200:V2139I:rs1250209	GATYNIIVEALK	ENSP00000338200	rs1250209	V2139I	2139	ENSP00000338200_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000338477:V157M:	ITGEAFMQFASQELAEK	ENSP00000338477		V157M	157	ENSP00000338477_V1	5	0	1	4	0	0	0	0	0	0	0
ENSP00000338477:V157M:	ITGEAFMQFASQELAEK	ENSP00000338477		V157M	157	ENSP00000338477_V1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000338576:I1048V:rs2269529	DLEAHVDSANK	ENSP00000338576	rs2269529	I1048V	1048	ENSP00000338576_rs2	3	0	0	0	3	0	0	0	0	0	0
ENSP00000339529:R574Q:	ISDQDLNQMR	ENSP00000339529		R574Q	574	ENSP00000339529_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000340281:E174D:	LQDDFENR	ENSP00000340281		E174D	174	ENSP00000340281_E17	6	0	2	3	0	0	0	0	1	0	0
ENSP00000340427:G63D:	DAGTGLSEVR	ENSP00000340427		G63D	63	ENSP00000340427_G6	4	0	0	0	0	0	0	0	4	0	0
ENSP00000340510:A1007V:rs2075639	AQVDEVLQLR	ENSP00000340510	rs2075639	A1007V	1007	ENSP00000340510_rs2	5	0	3	2	0	0	0	0	0	0	0
ENSP00000340510:Q1573E:rs2037912	ENLQLETR	ENSP00000340510	rs2037912	Q1573E	1573	ENSP00000340510_rs2	2	0	0	0	0	0	0	0	0	2	0
ENSP00000340691:A107V:	VGGEESQFEMDI	ENSP00000340691		A107V	107	ENSP00000340691_A1	5	5	0	0	0	0	0	0	0	0	0
ENSP00000341085:V221G:rs909713	EEEVSLQGINTR	ENSP00000341085	rs909713	V221G	221	ENSP00000341085_V1	23	3	4	1	2	2	2	2	3	3	1
ENSP00000341085:C572R:	SSLPAMSDARSDLLSAIR	ENSP00000341085		C572R	572	ENSP00000341085_V1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000341085:H564R:	SSLPAMSDARSDLLSAIR	ENSP00000341085		H564R	564	ENSP00000341085_V1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000341085:I560M:	SSLPAMSDARSDLLSAIR	ENSP00000341085		I560M	560	ENSP00000341085_V1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000341085:V221G:rs909713	VTQLDPKEEEVSLQGINTR	ENSP00000341085	rs909713	V221G	221	ENSP00000341085_V1	5	1	1	0	0	0	1	1	0	0	1
ENSP00000341085:P192R:	YAEDIFGELFTQANTFASR	ENSP00000341085		P192R	192	ENSP00000341085_V1	1	0	0	0	0	0	0	1	0	0	0
ENSP00000341597:G122S:rs2578377	AETSLGIPSPSEISTEVK	ENSP00000341597	rs2578377	G122S	122	ENSP00000341597_rs2	1	0	0	0	0	0	0	0	1	0	0
ENSP00000341781:S2802G:rs1890908	DKVPSLTTYEGGDLNNTLEDLR	ENSP00000341781	rs1890908	S2802G	2802	ENSP00000341781_rs1	1	0	0	0	0	0	0	0	0	1	0
ENSP00000342070:K209E:	CSEICEPGYSPTYK	ENSP00000342070		K209E	209	ENSP00000342070_K2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000342112:M1113T:rs7986131	YLDQIGNTTSSQR	ENSP00000342112	rs7986131	M1113T	1113	ENSP00000342112_A9	1	0	0	1	0	0	0	0	0	0	0
ENSP00000342321:I903V:rs25673	LLESGDLSMSSVK	ENSP00000342321	rs25673	I903V	903	ENSP00000342321_rs3	4	0	0	0	0	0	0	2	2	0	0
ENSP00000342321:I903V:rs25673	LLESGDLSMSSVK	ENSP00000342321	rs25673	I903V	903	ENSP00000342321_rs3	2	0	0	0	0	0	0	0	2	0	0
ENSP00000342379:P327Q:rs3744137	AEHMETNAVGPSQSSDTR	ENSP00000342379	rs3744137	P327Q	327	ENSP00000342379_rs3	1	0	0	0	0	1	0	0	0	0	0
ENSP00000342905_3048:CTTTTTTTT>CT	SSKPAAKKR	ENSP00000342905;ENSP00000360662;ENSP000003793				ENSP00000342905_30	2	0	0	0	2	0	0	0	0	0	0
ENSP00000343377:N326T:rs2815413	LRIMAVKTSEVMAQLTESRQSILK	ENSP00000343377	rs2815413	N326T	326	ENSP00000343377_rs2	1	0	0	0	0	0	0	0	1	0	0
ENSP00000343809:D243G:	KPEDVLDDDGAGSAPLK	ENSP00000343809		D243G	243	ENSP00000343809_D2	4	0	4	0	0	0	0	0	0	0	0
ENSP00000343809:D243G:	KPEDVLDDDGAGSAPLK	ENSP00000343809		D243G	243	ENSP00000343809_D2	1	0	1	0	0	0	0	0	0	0	0
ENSP00000343809:D243G:	RKPEDVLDDDGAGSAPLK	ENSP00000343809		D243G	243	ENSP00000343809_D2	4	0	4	0	0	0	0	0	0	0	0
ENSP00000343885:K282N:rs13787	NCNGGAINCTNVQISDSPFR	ENSP00000343885	rs13787	K282N	282	ENSP00000343885_rs1	1	0	0	0	0	0	0	0	1	0	0
ENSP00000344167:I779M:rs61751477	VMGTAVAR	ENSP00000344167	rs61751477	I779M	779	ENSP00000344167_rs6	1	0	0	0	0	1	0	0	0	0	0
ENSP00000344418:C57R:rs1059832	DSLEEGELRDHRM	ENSP00000344418	rs1059832	C57R	57	ENSP00000344418_E64	1	0	0	1	0	0	0	0	0	0	0
ENSP00000344707:R169W:	WKPEDVLDDDDAGSAPLK	ENSP00000344707		R169W	169	ENSP00000344707_R1	2	0	0	0	2	0	0	0	0	0	0
ENSP00000344832:C229G:rs11207440	ELSGLPSGPSAGSGPPPPPPGPPPPPVST	ENSP00000344832	rs11207440	C229G	229	ENSP00000344832_rs1	1	0	0	0	0	0	0	1	0	0	0
ENSP00000344832:C236G:rs6665926	ELSGLPSGPSAGSGPPPPPPGPPPPPVST	ENSP00000344832	rs6665926	C236G	236	ENSP00000344832_rs1	1	0	0	0	0	0	0	1	0	0	0
ENSP00000344832:C247G:rs6665936	ELSGLPSGPSAGSGPPPPPPGPPPPPVST	ENSP00000344832	rs6665936	C247G	247	ENSP00000344832_rs1	1	0	0	0	0	0	0	1	0	0	0
ENSP00000344832:I245S:rs6665933	ELSGLPSGPSAGSGPPPPPPGPPPPPVST	ENSP00000344832	rs6665933	I245S	245	ENSP00000344832_rs1	1	0	0	0	0	0	0	1	0	0	0
ENSP00000344848:A4240T:	AGTLSITEFADMLSGNTGGFR	ENSP00000344848		A4240T	4240	ENSP00000344848_A4	1	1	0	0	0	0	0	0	0	0	0
ENSP00000344848:S3933N:	FLEGTNCIAGVFVDATK	ENSP00000344848		S3933N	3933	ENSP00000344848_S3	3	0	1	2	0	0	0	0	0	0	0
ENSP00000344848:S3933N:	FLEGTNCIAGVFVDATK	ENSP00000344848		S3933N	3933	ENSP00000344848_S3	1	0	0	1	0	0	0	0	0	0	0
ENSP00000345445:I345V:rs8418	FYLGGPTSVR	ENSP00000345445	rs8418	I345V	345	ENSP00000345445_rs3	5	0	1	1	1	0	0	1	0	0	1
ENSP00000345731:R278Q:rs1134986	VNDCILQVNEVDVR	ENSP00000345731	rs1134986	R278Q	278	ENSP00000345731_rs1	2	2	0	0	0	0	0	0	0	0	0
ENSP00000345931:A82V:rs2307040	IDVDKDGFVTEGELK	ENSP00000345931	rs2307040	A82V	82	ENSP00000345931_rs2	2	0	1	1	0	0	0	0	0	0	0
ENSP00000345931:A82V:rs2307040	IDVDKDGFVTEGELK	ENSP00000345931	rs2307040	A82V	82	ENSP00000345931_rs2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000345931:A82V:rs2307040	IVDKIDVDK	ENSP00000345931	rs2307040	A82V	82	ENSP00000345931_rs2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000346196:D415N:rs10595	LEAEGEAMEDAAAPGNDR	ENSP00000346196	rs10595	D415N	415	ENSP00000346196_rs1	17	0	3	0	3	2	1	0	4	2	2
ENSP00000346196:D415N:rs10595	LEAEGEAMEDAAAPGNDR	ENSP00000346196	rs10595	D415N	415	ENSP00000346196_rs1	2	0	0	0	1	1	0	0	0	0	0
ENSP00000346223:M182V:rs3736946	ADIAVVICDTPQK	ENSP00000346223	rs3736946	M182V	182	ENSP00000346223_rs3	4	4	0	0	0	0	0	0	0	0	0
ENSP00000346250:H407D:rs3982642	ATSQGGDLMSDLFNK	ENSP00000346250	rs3982642	H407D	407	ENSP00000346250_Q5	17	2	5	1	1	2	2	2	2	0	0
ENSP00000346250:H407D:rs3982642	ATSQGGDLMSDLFNK	ENSP00000346250	rs3982642	H407D	407	ENSP00000346250_Q5	2	0	0	0	0	0	0	1	1	0	0
ENSP00000346542:V367M:rs2289247	NSLEFFTMLAQR	ENSP00000346542	rs2289247	V367M	367	ENSP00000346542_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000346542:V367M:rs2289247	NSLEFFTMLAQR	ENSP00000346542	rs2289247	V367M	367	ENSP00000346542_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000346634:A201V:rs6425977	DSRPSQAAGDNQGDEVK	ENSP00000346634	rs6425977	A201V	201	ENSP00000346634_rs6	18	1	5	2	0	1	2	1	1	3	2
ENSP00000346634:A201V:rs6425977	PSQAAGDNQGDEVKEQTFSGGTSQDT	ENSP00000346634	rs6425977	A201V	201	ENSP00000346634_rs6	9	1	2	2	0	0	1	0	0	2	1
ENSP00000346634:A201V:rs6425977	DSRPSQAAGDNQGDEVKEQTFSGGTS	ENSP00000346634	rs6425977	A201V	201	ENSP00000346634_rs6	5	1	1	0	0	1	1	0	0	1	0
ENSP00000346634:A201V:rs6425977	PSQAAGDNQGDEVK	ENSP00000346634	rs6425977	A201V	201	ENSP00000346634_rs6	3	0	0	0	0	0	1	1	0	1	0
ENSP00000346634:A201V:rs6425977	DSRPSQAAGDNQGDEVK	ENSP00000346634	rs6425977	A201V	201	ENSP00000346634_rs6	2	0	1	0	0	0	0	0	0	1	0
ENSP00000346874:K63N:	VEEVLSGNLFDR	ENSP00000346874		K63N	63	ENSP00000346874_K6	4	0	2	2	0	0	0	0	0	0	0
ENSP00000347164:T87M:rs2228203	MMPTVLYDVQELR	ENSP00000347164	rs2228203	T87M	87	ENSP00000347164_rs2	9	0	0	4	0	0	0	0	5	0	0
ENSP00000347164:T87M:rs2228203	MMPTVLYDVQELR	ENSP00000347164	rs2228203	T87M	87	ENSP00000347164_rs2	8	0	0	3	0	0	0	0	5	0	0
ENSP00000347164:T87M:rs2228203	MMPTVLYDVQELR	ENSP00000347164	rs2228203	T87M	87	ENSP00000347164_rs2	6	0	0	1	0	0	0	0	5	0	0
ENSP00000347164:T87M:rs2228203	MMPTVLYDVQELR	ENSP00000347164	rs2228203	T87M	87	ENSP00000347164_rs2	3	0	0	2	0	0	1	0	0	0	0
ENSP00000347164:T87M:rs2228203	MMPTVLYDVQELR	ENSP00000347164	rs2228203	T87M	87	ENSP00000347164_rs2	2	0	0	1	0	0	0	0	1	0	0
ENSP00000347164:T87M:rs2228203	MMPTVLYDVQELR	ENSP00000347164	rs2228203	T87M	87	ENSP00000347164_rs2	2	0	0	1	0	0	0	0	1	0	0
ENSP00000347164:T87M:rs2228203	MMPTVLYDVQELR	ENSP00000347164	rs2228203	T87M	87	ENSP00000347164_rs2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000347444:V150A:rs2045732	DKGNSAGVK	ENSP00000347444	rs2045732	V150A	150	ENSP00000347444_rs2	1	0	0	0	0	0	1	0	0	0	0
ENSP00000347495:A53V:	AVAGEDYK	ENSP00000347495		A53V	53	ENSP00000347495_A5	1	0	1	0	0	0	0	0	0	0	0
ENSP00000347626:R235C:rs11550029	VAMLEENGECVLMEGK	ENSP00000347626	rs11550029	R235C	235	ENSP00000347626_rs1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000348062:E333D:rs2228067	MVNSNLASVDELKEIDVEVR	ENSP00000348062	rs2228067	E333D	333	ENSP00000348062_rs2	6	0	0	0	0	0	6	0	0	0	0
ENSP00000348062:E333D:rs2228067	MVNSNLASVDELKEIDVEVR	ENSP00000348062	rs2228067	E333D	333	ENSP00000348062_rs2	3	0	0	0	0	0	3	0	0	0	0
ENSP00000348062:E333D:rs2228067	MVNSNLASVDELK	ENSP00000348062	rs2228067	E333D	333	ENSP00000348062_rs2	2	0	0	0	0	0	2	0	0	0	0
ENSP00000348097:G790D:rs3740526	VEAGLDSGPCR	ENSP00000348097	rs3740526	G790D	790	ENSP00000348097_rs3	3	1	0	0	0	1	0	1	0	0	0
ENSP00000348128:V1041L:rs7070135	LEVENVMKR	ENSP00000348128	rs7070135	V1041L	1041	ENSP00000348128_A2	3	0	1	1	0	0	0	0	1	0	0
ENSP00000348380:L346F:rs1048013	LTPVSAQFQDIEGK	ENSP00000348380	rs1048013	L346F	346	ENSP00000348380_S97	8	0	1	1	1	0	0	0	3	1	1
ENSP00000348380:S97L:	TLDPFETMLK	ENSP00000348380		S97L	97	ENSP00000348380_S97	20	1	3	1	3	3	0	2	4	2	1
ENSP00000348380:S97L:	TLDPFETMLK	ENSP00000348380		S97L	97	ENSP00000348380_S97	2	0	0	0	0	0	0	0	2	0	0
ENSP00000348580:L64F:	DISEASVFDAYVFPK	ENSP00000348580		L64F	64	ENSP00000348580_L64	4	0	0	0	4	0	0	0	0	0	0
ENSP00000348580:L64F:	DISEASVFDAYVFPK	ENSP00000348580		L64F	64	ENSP00000348580_L64	1	0	0	0	1	0	0	0	0	0	0
ENSP00000348762:R175Q:rs2839158	ILGVGPDDPDLVQAR	ENSP00000348762	rs2839158	R175Q	175	ENSP00000348762_rs2	3	0	0	0	0	0	3	0	0	0	0
ENSP00000348877:I208T:rs8191371	TLAQLNPESSLFITASK	ENSP00000348877	rs8191371	I208T	208	ENSP00000348877_rs8	2	0	0	0	0	0	0	0	1	0	1
ENSP00000348965:R2243S:	ALESLEGVEGVAHIIDPK	ENSP00000348965		R2243S	2243	ENSP00000348965_R2	3	0	0	0	0	0	3	0	0	0	0
ENSP00000348965:R2243S:	ALESLEGVEGVAHIIDPK	ENSP00000348965		R2243S	2243	ENSP00000348965_R2	1	0	0	0	0	0	1	0	0	0	0
ENSP00000349391:I803M:	VAPEEHPMLLTEAPLNPK	ENSP00000349391		I803M	803	ENSP00000349391_I80	7	4	0	2	0	0	0	0	0	1	0

ENSP00000349467:R91Q:rs11541171	EAFQVFDKDGNGYISAAELR	ENSP00000349467	rs11541171	R91Q	91	ENSP00000349467_rs1	4	0	0	0	0	0	4	0	0	0	0
ENSP00000349819:V1471M:rs12632456	GLVEPVNMVDNGDGTHTVTYTPSQEG	ENSP00000349819	rs12632456	V1471M	1471	ENSP00000349819_rs1	1	0	0	0	0	0	0	0	0	1	0
ENSP00000349819:D1157N:rs1131356	VGEAGLLSVNCSEAGPGALGLEAVSDS	ENSP00000349819	rs1131356	D1157N	1157	ENSP00000349819_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000349878:P201L:rs4399146	NSTLSEPGSGR	ENSP00000349878	rs4399146	P201L	201	ENSP00000349878_rs4	1	0	0	0	0	0	0	1	0	0	0
ENSP00000349960:R177C:	AILCLDLAGR	ENSP00000349960		R177C	177	ENSP00000349960_R1	3	1	1	1	0	0	0	0	0	0	0
ENSP00000351052:R363H:rs11556924	SWDSSSPVDHPEPEAASPTTR	ENSP00000351052	rs11556924	R363H	363	ENSP00000351052_rs1	2	0	1	1	0	0	0	0	0	0	0
ENSP00000351100:C151R:rs2530245	AHGAPINSLLLVDENVLATGDDTGGIR	ENSP00000351100	rs2530245	C151R	151	ENSP00000351100_rs2	1	0	0	0	1	0	0	0	0	0	0
ENSP00000351177:A890V:	EIFDIAFPDEQAEVLAVER	ENSP00000351177		A890V	890	ENSP00000351177_A8	1	1	0	0	0	0	0	0	0	0	0
ENSP00000351596:L437V:rs17084873	DYVQAEK	ENSP00000351596	rs17084873	L437V	437	ENSP00000351596_rs2	1	0	0	0	0	0	0	1	0	0	0
ENSP00000352137:E309D:rs3747965	DLDEDANGITDDGKEINEK	ENSP00000352137	rs3747965	E309D	309	ENSP00000352137_rs3	1	0	0	0	0	0	0	1	0	0	0
ENSP00000352288:R1593Q:	VWHLVQPTDEVDEGK	ENSP00000352288		R1593Q	1593	ENSP00000352288_R1	1	0	0	1	0	0	0	0	0	0	0
ENSP00000352320:A212G:	DATDVGDEGGFAPNILENK	ENSP00000352320		A212G	212	ENSP00000352320_G2	47	7	2	2	4	7	4	5	5	5	6
ENSP00000352320:G206D:	DATDVGDEGGFAPNILENK	ENSP00000352320		G206D	206	ENSP00000352320_G2	47	7	2	2	4	7	4	5	5	5	6
ENSP00000352320:G210E:	DATDVGDEGGFAPNILENK	ENSP00000352320		G210E	210	ENSP00000352320_G2	47	7	2	2	4	7	4	5	5	5	6
ENSP00000352320:A212G:	DATDVGDEGGFAPNILENK	ENSP00000352320		A212G	212	ENSP00000352320_G2	8	2	1	0	0	2	0	1	1	0	1
ENSP00000352320:G206D:	DATDVGDEGGFAPNILENK	ENSP00000352320		G206D	206	ENSP00000352320_G2	8	2	1	0	0	2	0	1	1	0	1
ENSP00000352320:G210E:	DATDVGDEGGFAPNILENK	ENSP00000352320		G210E	210	ENSP00000352320_G2	8	2	1	0	0	2	0	1	1	0	1
ENSP00000352320:A212G:	DATDVGDEGGFAPNILENKEGLELLK	ENSP00000352320		A212G	212	ENSP00000352320_G2	1	0	0	0	0	0	0	0	1	0	0
ENSP00000352320:G206D:	DATDVGDEGGFAPNILENKEGLELLK	ENSP00000352320		G206D	206	ENSP00000352320_G2	1	0	0	0	0	0	0	0	1	0	0
ENSP00000352320:G210E:	DATDVGDEGGFAPNILENKEGLELLK	ENSP00000352320		G210E	210	ENSP00000352320_G2	1	0	0	0	0	0	0	0	1	0	0
ENSP00000352320:A212G:	YGKDATDVGDEGGFAPNILENK	ENSP00000352320		A212G	212	ENSP00000352320_G2	8	0	2	2	1	1	1	1	0	0	0
ENSP00000352320:G206D:	YGKDATDVGDEGGFAPNILENK	ENSP00000352320		G206D	206	ENSP00000352320_G2	8	0	2	2	1	1	1	1	0	0	0
ENSP00000352320:G210E:	YGKDATDVGDEGGFAPNILENK	ENSP00000352320		G210E	210	ENSP00000352320_G2	8	0	2	2	1	1	1	1	0	0	0
ENSP00000352584:N313D:rs4728329	ACNVLQSSHLEDYPFDAEY	ENSP00000352584	rs4728329	N313D	313	ENSP00000352584_rs4	4	0	0	0	0	3	0	0	0	1	0
ENSP00000353224:G142S:rs3817672	LDSTDFTSTIK	ENSP00000353224	rs3817672	G142S	142	ENSP00000353224_rs3	40	4	0	0	3	5	4	6	7	4	7
ENSP00000353224:G142S:rs3817672	LSEKLDSTDFTSTIK	ENSP00000353224	rs3817672	G142S	142	ENSP00000353224_rs3	9	0	0	0	1	2	0	3	0	2	1
ENSP00000353224:G142S:rs3817672	LDSTDFTSTIK	ENSP00000353224	rs3817672	G142S	142	ENSP00000353224_rs3	1	0	0	0	0	0	0	0	0	0	1
ENSP00000353224:G142S:rs3817672	KLSEKLDSTDFTSTIK	ENSP00000353224	rs3817672	G142S	142	ENSP00000353224_rs3	1	0	0	0	0	0	0	1	0	0	0
ENSP00000353231:A4852T:rs587404	LETMNQCWESVLQK	ENSP00000353231	rs587404	A4852T	4852	ENSP00000353231_rs5	2	0	0	0	0	0	1	0	0	0	1
ENSP00000353231:S5172T:rs668556	TLLPEDTQK	ENSP00000353231	rs668556	S5172T	5172	ENSP00000353231_rs5	1	0	0	0	0	0	1	0	0	0	0
ENSP00000354040:E452A:	LEALEKEEELR	ENSP00000354040		E452A	452	ENSP00000354040_E4	2	0	0	0	0	0	2	0	0	0	0
ENSP00000354045:R891L:rs1132274	LTAEFEEAQTSACLLQEELEK	ENSP00000354045	rs1132274	R891L	891	ENSP00000354045_rs1	1	0	0	0	0	0	0	1	0	0	0
ENSP00000354436:A463T:	QHTAVLEEGVLDPK	ENSP00000354436		A463T	463	ENSP00000354436_P1	2	0	0	1	0	0	0	0	1	0	0
ENSP00000354532:G51S:rs1049564	LTQAQIFDYSEIPNFPR	ENSP00000354532	rs1049564	G51S	51	ENSP00000354532_rs1	6	0	1	1	0	1	3	0	0	0	0
ENSP00000354532:G51S:rs1049564	LTQAQIFDYSEIPNFPR	ENSP00000354532	rs1049564	G51S	51	ENSP00000354532_rs1	3	0	0	1	0	1	1	0	0	0	0
ENSP00000354532:G51S:rs1049564	IFDYSEIPNFPR	ENSP00000354532	rs1049564	G51S	51	ENSP00000354532_rs1	1	0	0	0	0	0	1	0	0	0	0
ENSP00000354558:Y1151C:	LTESLDFTDCASR	ENSP00000354558		Y1151C	1151	ENSP00000354558_Y1	1	0	0	0	0	0	0	1	0	0	0
ENSP00000354681:S158N:rs7624750	ALPNSEDLVK	ENSP00000354681	rs7624750	S158N	158	ENSP00000354681_rs7	8	2	0	0	0	0	3	0	0	0	3
ENSP00000354681:A192V:rs34307082	DFFTSGSPEETVFR	ENSP00000354681	rs34307082	A192V	192	ENSP00000354681_rs7	1	1	0	0	0	0	0	0	0	0	0
ENSP00000354681:S420T:	EGCTVSPETITLNVK	ENSP00000354681		S420T	420	ENSP00000354681_rs7	1	1	0	0	0	0	0	0	0	0	0
ENSP00000354718:R574C:rs2061824	SCEESADAPVDQNSVVIPAAAK	ENSP00000354718	rs2061824	R574C	574	ENSP00000354718_rs2	2	0	0	0	0	0	0	0	1	1	0
ENSP00000354718:R574C:rs2061824	SCEESADAPVDQNSVVIPAAAK	ENSP00000354718	rs2061824	R574C	574	ENSP00000354718_rs2	1	0	0	0	0	0	0	0	0	1	0
ENSP00000354737:M17I:rs3177253	DFENSINQVK	ENSP00000354737	rs3177253	M17I	17	ENSP00000354737_A3	6	0	0	0	2	0	0	4	0	0	0
ENSP00000354752:V454A:	MVDVVEKEDANEAIR	ENSP00000354752		V454A	454	ENSP00000354752_V4	1	0	0	0	0	0	1	0	0	0	0
ENSP00000354752:V454A:	MVDVVEKEDANEAIR	ENSP00000354752		V454A	454	ENSP00000354752_V4	1	0	0	0	0	0	1	0	0	0	0
ENSP00000354812:T130R:rs6478854	TVEGEFR	ENSP00000354812	rs6478854	T130R	130	ENSP00000354812_rs2	3	0	0	1	0	0	1	0	0	0	1
ENSP00000354876:G131A:	MLPPLFLEPADLR	ENSP00000354876		G131A	131	ENSP00000354876_G1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000354876:G131A:	MLPPLFLEPADLR	ENSP00000354876		G131A	131	ENSP00000354876_G1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000355124:A60G:rs4602	FVSSSSSGGYGGGYGGVLTASDGLLAG	ENSP00000355124	rs4602	A60G	60	ENSP00000355124_rs4	21	2	0	2	11	3	0	2	0	1	0
ENSP00000355124:A60G:rs4602	FVSSSSSGGYGGGYGGVLTASDGLLAG	ENSP00000355124	rs4602	A60G	60	ENSP00000355124_rs4	15	1	0	1	5	3	0	4	0	1	0
ENSP00000355124:A60G:rs4602	SSSSGGYGGGYGGVLTASDGLLAGNEK	ENSP00000355124	rs4602	A60G	60	ENSP00000355124_rs4	10	1	1	1	3	0	0	2	0	2	0
ENSP00000355124:A60G:rs4602	VSSSSSGGYGGGYGGVLTASDGLLAGN	ENSP00000355124	rs4602	A60G	60	ENSP00000355124_rs4	1	0	0	0	1	0	0	0	0	0	0
ENSP00000355124:A60G:rs4602	VSSSSSGGYGGGYGGVLTASDGLLAGN	ENSP00000355124	rs4602	A60G	60	ENSP00000355124_rs4	1	0	0	0	1	0	0	0	0	0	0
ENSP00000355151:R942P:rs2522943	YSLIDPSSAPELLR	ENSP00000355151	rs2522943	R942P	942	ENSP00000355151_rs2	2	0	1	0	0	1	0	0	0	0	0
ENSP00000355299:G19D:rs2274432	GDSEPTPGCSGLGPDGVR	ENSP00000355299	rs2274432	G19D	19	ENSP00000355299_rs2	9	2	2	2	0	0	1	2	0	0	0
ENSP00000355465:S1638G:	LVCGGENDNHGQIANLPSAVTSDQK	ENSP00000355465		S1638G	1638	ENSP00000355465_rs4	1	0	0	0	0	1	0	0	0	0	0
ENSP00000355541:E2017G:rs2275687	AGALMMPLVDQLENR	ENSP00000355541	rs2275687	E2017G	2017	ENSP00000355541_rs2	18	1	2	2	3	2	2	1	1	1	3
ENSP00000355541:N1694S:rs2275689	NFGAENPDPFVPVLSTAVK	ENSP00000355541	rs2275689	N1694S	1694	ENSP00000355541_rs2	22	3	1	1	2	4	5	2	1	2	1
ENSP00000355541:N1967D:rs1126627	PFADTLDQVNISK	ENSP00000355541	rs1126627	N1967D	1967	ENSP00000355541_rs2	2	0	0	0	0	0	0	1	0	1	0
ENSP00000355541:M607V:rs2794763	VVINNDDTESAEMK	ENSP00000355541	rs2794763	M607V	607	ENSP00000355541_rs2	4	0	0	0	2	1	0	1	0	0	0
ENSP00000355541:E2017G:rs2275687	AGALMMPLVDQLENR	ENSP00000355541	rs2275687	E2017G	2017	ENSP00000355541_rs2	9	0	0	0	0	1	1	1	2	3	1
ENSP00000355541:N1694S:rs2275689	PFVPVLSTAVK	ENSP00000355541	rs2275689	N1694S	1694	ENSP00000355541_rs2	1	0	0	0	1	0	0	0	0	0	0
ENSP00000355541:E2017G:rs2275687	AGALMMPLVDQLENR	ENSP00000355541	rs2275687	E2017G	2017	ENSP00000355541_rs2	7	1	0	0	2	0	1	2	0	0	1
ENSP00000355541:E2017G:rs2275687	AGALMMPLVDQLENR	ENSP00000355541	rs2275687	E2017G	2017	ENSP00000355541_rs2	4	1	0	0	0	0	0	0	0	1	2
ENSP00000355541:E2017G:rs2275687	AGALMMPLVDQLENR	ENSP00000355541	rs2275687	E2017G	2017	ENSP00000355541_rs2	2	0	0	0	1	0	1	0	0	0	0
ENSP00000355541:E2017G:rs2275687	AGALMMPLVDQLENR	ENSP00000355541	rs2275687	E2017G	2017	ENSP00000355541_rs2	1	0	0	0	0	0	1	0	0	0	0
ENSP00000355890:A1227S:	FAGGDYTTTIESFISASGR	ENSP00000355890		A1227S	1227	ENSP00000355890_P1	1	0	0	1	0	0	0	0	0	0	0
ENSP00000355922:N2396D:rs3748697	SEKEDLTNELQKEQER	ENSP00000355922	rs3748697	N2396D	2396	ENSP00000355922_rs3	1	0	0	1	0	0	0	0	0	0	0
ENSP00000356272:T132M:rs3734800	RHFSSVSM	ENSP00000356272	rs3734800	T132M	132	ENSP00000356272_rs3	1	0	0	0	0	0	1	0	0	0	0
ENSP00000356282:K337E:rs4128458	NLPSLAEQGASDPPTVASR	ENSP00000356282	rs4128458	K337E	337	ENSP00000356282_rs4	13	3	0	0	0	0	0	4	5	0	1
ENSP00000356282:K337E:rs4128458	NLPSLAEQGASDPPTVASR	ENSP00000356282	rs4128458	K337E	337	ENSP00000356282_rs4	4	1	0	0	0	0	0	0	3	0	0
ENSP00000356290:L537I:	EFSEIQIAR	ENSP00000356290		L537I	537	ENSP00000356290_L5	6	0	0	0	0	0	6	0	0	0	0
ENSP00000356348:V120I:rs4816	ELVDDSINNVR	ENSP00000356348	rs4816	V120I	120	ENSP00000356348_rs4	32	4	5	4	4	4	0	0	4	5	2
ENSP00000357214_949:AA>AACA	GEETVLGGGTR	ENSP00000357214			949	ENSP00000357214_94	2	0	1	0	1	0	0	0	0	0	0
ENSP00000357214_949:AA>AACA	QQQEEEDLNLEDRGEETVLGGGTR	ENSP00000357214			949	ENSP00000357214_94	1	0	0	0	0	0	0	0	1	0	0
ENSP00000357535:T75I:rs1049951	IFEEDPAVGAIVLTGGDK	ENSP00000357535	rs1049951	T75I	75	ENSP00000357535_A2	74	9	10	2	12	0	13	10	9	4	5
ENSP00000357535:T75I:rs1049951	IFEEDPAVGAIVLTGGDK	ENSP00000357535	rs1049951	T75I	75	ENSP00000357535_A2	37	5	5	1	4	0	5	6	6	2	3
ENSP00000357597_529:TCACCACC>TCA	ESAEVVVK	ENSP00000357597			529	ENSP00000357597_52	1	0	0	1	0	0	0	0	0	0	0
ENSP00000357641:N39S:rs2071498	YENESLQSGR	ENSP00000357641	rs2071498	N39S	39	ENSP00000357641_rs2	16	2	4	2	2	0	1	1	1	1	2
ENSP00000357642:D2400G:rs10082391	FTQTSGETTDADKEPAGEGK	ENSP00000357642	rs10082391	D2400G	2400	ENSP00000357642_rs2	4	0	0	0	0	0	0	0	0	4	0
ENSP00000357642:T2360P:rs1050767	IPCESPPLEVVDTTASPK	ENSP00000357642	rs1050767	T2360P	2360	ENSP00000357642_rs2	1	0	0	0	0	0	0	0	0	1	0
ENSP00000357642:K2857E:rs8473	SQPAASTLESESVQR	ENSP00000357642	rs8473	K2857E	2857	ENSP00000357642_rs2	1	1	0	0	0	0	0	0	0	0	0
ENSP00000357642:E137D:rs11016076	SSFSSDPDESDGIPLK	ENSP00000357642	rs11016076	E137D	137	ENSP00000357642_rs2	1	0	0	0	0	0	0	0	0	1	0
ENSP00000357643:L2559M:	ALEDMVDFK	ENSP00000357643		L2559M	2559	ENSP00000357643_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000357643:G1226V:rs41306015	AQALEDLAVFK	ENSP00000357643	rs41306015	G1226V	1226	ENSP00000357643_rs1	5	0	0	0	3	0	0	0	2	0	0
ENSP00000357823:Q126H:	LLPHGLAVYASPENKK	ENSP00000357823		Q126H	126	ENSP00000357823_rs8	1	0	0	1	0	0	0	0	0	0	0
ENSP00000358140:R589C:	LESLNIQCEKEELEQR	ENSP00000358140		R589C	589	ENSP00000358140_R5	5	0	0	0	0	0	5	0	0	0	0
ENSP00000358241:V316M:rs6593795	AMDSATAPDK	ENSP00000358241	rs6593795	V316M	316	ENSP00000358241_rs6	1	0	0	0	0	0	0	0	0	1	0
ENSP00000358241:V316M:rs6593795	AMDSATAPDK	ENSP00000358241	rs6593795	V316M	316	ENSP00000358241_rs6	1	0	0	0	1	0	0	0	0	0	0
ENSP00000358293:T85I:rs1061159	TDIGSENSEQIANFPSGNFAK	ENSP00000358293	rs1061159	T85I	85	ENSP00000358293_rs7	1	0	0	0	1	0	0	0	0	0	0
ENSP00000358485:R477Q:rs34625170	VPGFADDPTELACQVVDTK	ENSP00000358485	rs34625170	R477Q	477	ENSP00000358485_rs4	1	0	1	0	0	0	0	0	0	0	0
ENSP00000358549:V235M:rs35862137	LELGDMQALSLWQK	ENSP00000358549	rs35862137	V235M	235	ENSP00000358549_rs3	1	1	0	0	0	0	0	0	0	0	0
ENSP00000358640:D490E:rs1049434	DTEGGPKEEESPV	ENSP00000358640	rs1049434	D490E	490	ENSP00000358640_rs1	21	2	5	1	5	0	4	3	0	1	0
ENSP00000358640:D490E:rs1049434	AAESPDQKDTEGGPKEEESPV	ENSP00000358640	rs1049434	D490E	490	ENSP00000358640_rs1	17	1	0	4	3	0	3	2	2	2	0
ENSP00000358640:D490E:rs1049434	AAESPDQKDTEGGPK	ENSP00000358640	rs1049434	D490E	490	ENSP00000358640_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000358727:A140D:rs4925	EDYDGLKEEFR	ENSP00000358727	rs4925	A140D	140	ENSP00000358727_rs4	1	0	0	0	1	0	0	0	0	0	0
ENSP00000358812:L1499I:	AGLSEEDDSIVDVYYR	ENSP00000358812		L1499I	1499	ENSP00000358812_rs2	2	0	1	1	0	0	0	0	0	0	0
ENSP00000358812:L1499I:	KAGLSEEDDSIVDVYYR	ENSP00000358812		L1499I	1499	ENSP00000358812_rs2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000359000:E504D:	LMDIITVENPK	ENSP00000359000		E504D	504	ENSP00000359000_E5	1	0	0	0	0	0	1	0	0	0	0
ENSP00000359291:A271D:	GGQGDPDVPAQQPADPSTPER	ENSP00000359291		A271D	271	ENSP00000359291_A2	1	0	1	0	0	0	0	0	0	0	0
ENSP00000359491:S525T:rs6122315	PAGPAGDEPAETPSETPGPSPAGPTR	ENSP00000359491	rs6122315	S525T	525	ENSP00000359491_rs5	1	0	0	0	0	0	1	0	0	0	0
ENSP00000359491:E524K:rs35813009	PAGPAGDEPAK	ENSP00000359491	rs35813009	E524K	524	ENSP00000359491_rs3	3	0	2	1	0	0	0	0	0	0	0
ENSP00000359665:V113M:	NEFPEDPEFEAMVR	ENSP00000359665		V113M	113	ENSP00000359665_V1	1	0	0	0	0	0	1	0	0	0	0
ENSP00000359688:S9G:rs2292191	MAKAGDKSGSSGKKSLKR	ENSP00000359688	rs2292191	S9G	9	ENSP00000359688_rs2	1	0	0	0	0	1	0	0	0	0	0
ENSP00000360198:G1178S:rs1056513	ANKITSNQNQDTQEKKEK	ENSP00000360198	rs1056513	G1178S	1178	ENSP00000360198_rs2	1	0	1	0	0	0	0	0	0	0	0
ENSP00000360269:D216E:rs14008	AAGEVDIGDAAYYFER	ENSP00000360269	rs14008	D216E	216	ENSP00000360269_rs1	3	0	0	0	0	0	0	0	0	0	3

ENSP00000360541:M647V:rs1799822	ALEDVFDALEGK	ENSP00000360541	rs1799822	M647V	647	ENSP00000360541_rs1	11	3	0	0	6	0	0	0	0	0	2
ENSP00000360593:G46W:	LVDYLEWIR	ENSP00000360593		G46W	46	ENSP00000360593_rs4	2	0	2	0	0	0	0	0	0	0	0
ENSP00000360936:A116T:	EMDQTMAANTQK	ENSP00000360936		A116T	116	ENSP00000360936_rs7	2	0	2	0	0	0	0	0	0	0	0
ENSP00000360936:A116T:	EMDQTMAANTQK	ENSP00000360936		A116T	116	ENSP00000360936_rs7	1	0	1	0	0	0	0	0	0	0	0
ENSP00000360936:A116T:	EMDQTMAANTQK	ENSP00000360936		A116T	116	ENSP00000360936_rs7	1	0	1	0	0	0	0	0	0	0	0
ENSP00000361092:T175M:rs886089	KAEEAMEAQEVVEATPEGACTEPR	ENSP00000361092	rs886089	T175M	175	ENSP00000361092_rs8	4	2	0	0	2	0	0	0	0	0	0
ENSP00000361226:I726V:rs306547	SEYSSGMEADVAK	ENSP00000361226	rs306547	I726V	726	ENSP00000361226_rs3	4	1	0	0	0	0	3	0	0	0	0
ENSP00000361226:I726V:rs306547	SEYSSGMEADVAK	ENSP00000361226	rs306547	I726V	726	ENSP00000361226_rs3	3	1	0	0	0	1	1	0	0	0	0
ENSP00000361883:C228G:rs11207440	ELSGLPSGPSAGSGPPPPPPGPPPPPVS	ENSP00000361883	rs11207440	C228G	228	ENSP00000361883_rs6	6	1	1	0	0	2	0	0	0	2	0
ENSP00000361883:C235G:rs6665926	ELSGLPSGPSAGSGPPPPPPGPPPPPVS	ENSP00000361883	rs6665926	C235G	235	ENSP00000361883_rs6	6	1	1	0	0	2	0	0	0	2	0
ENSP00000361883:C246G:rs6665936	ELSGLPSGPSAGSGPPPPPPGPPPPPVS	ENSP00000361883	rs6665936	C246G	246	ENSP00000361883_rs6	6	1	1	0	0	2	0	0	0	2	0
ENSP00000361883:I244S:rs6665933	ELSGLPSGPSAGSGPPPPPPGPPPPPVS	ENSP00000361883	rs6665933	I244S	244	ENSP00000361883_rs6	6	1	1	0	0	2	0	0	0	2	0
ENSP00000361883:Y248D:rs6665937	ELSGLPSGPSAGSGPPPPPPGPPPPPVS	ENSP00000361883	rs6665937	Y248D	248	ENSP00000361883_rs6	6	1	1	0	0	2	0	0	0	2	0
ENSP00000362010:R215C:	GFGTDEQAIVDVVANCSNDQR	ENSP00000362010		R215C	215	ENSP00000362010_R2	1	0	0	1	0	0	0	0	0	0	0
ENSP00000362463:E111A:rs4746	ATLELTHNWGTEDDATQSYHNGNSDPI	ENSP00000362463	rs4746	E111A	111	ENSP00000362463_rs4	3	1	0	0	0	0	1	0	1	0	0
ENSP00000362656:L317V:rs583134	LEQNLSGEEHVQELLK	ENSP00000362656	rs583134	L317V	317	ENSP00000362656_rs5	2	0	0	0	0	1	0	0	1	0	0
ENSP00000362656:L317V:rs583134	LEQNLSGEEHVQELLK	ENSP00000362656	rs583134	L317V	317	ENSP00000362656_rs5	1	0	0	1	0	0	0	0	0	0	0
ENSP00000362900:G356S:rs2230678	SRSRSKSKDKRKSRKRSR	ENSP00000362900	rs2230678	G356S	356	ENSP00000362900_rs2	1	1	0	0	0	0	0	0	0	0	0
ENSP00000362900:G356S:rs2230678	SRSKSKDKRKSR	ENSP00000362900	rs2230678	G356S	356	ENSP00000362900_rs2	1	0	0	0	0	0	0	0	0	1	0
ENSP00000363055:R187G:rs2241666	TGTQQELDGVFQK	ENSP00000363055	rs2241666	R187G	187	ENSP00000363055_rs2	1	0	0	0	0	0	0	0	0	1	0
ENSP00000363435:A1601P:	LQDIITPLEER	ENSP00000363435		A1601P	1601	ENSP00000363435_A1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000363642:I406V:	VTLFSDSKPLGSEDVDNQGLMMPK	ENSP00000363642		I406V	406	ENSP00000363642_I40	1	1	0	0	0	0	0	0	0	0	0
ENSP00000363761_3050:GAAAAAAAAA	KQILGGGGKYK	ENSP00000363761			3050	ENSP00000363761_30	1	1	0	0	0	0	0	0	0	0	0
ENSP00000363827:I3264V:	LEGDTLVIPR	ENSP00000363827		I3264V	3264	ENSP00000363827_I32	3	0	0	0	0	0	0	3	0	0	0
ENSP00000363891_3216:AATGATGA>AA	DGVIGLNPLPDVQVNDLR	ENSP00000363891			3216	ENSP00000363891_32	1	0	0	0	0	0	0	0	0	0	1
ENSP00000363952:L443I:	TEVIQIEDTLAQVR	ENSP00000363952		L443I	443	ENSP00000363952_L4	4	0	2	2	0	0	0	0	0	0	0
ENSP00000363952:L443I:	TEVIQIEDTLAQVR	ENSP00000363952		L443I	443	ENSP00000363952_L4	2	0	0	2	0	0	0	0	0	0	0
ENSP00000363999:L127F:rs8131	DVFDFYNVPIQDR	ENSP00000363999	rs8131	L127F	127	ENSP00000363999_rs8	1	0	0	0	0	0	0	0	0	0	1
ENSP00000364194:G165S:rs11538302	KGDGGGASGGGGGGGSGGGGSGGG	ENSP00000364194	rs11538302	G165S	165	ENSP00000364194_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000364354:S345T:rs709683	TSSSEDGSMGSFSEK	ENSP00000364354	rs709683	S345T	345	ENSP00000364354_rs7	1	0	0	0	0	0	0	1	0	0	0
ENSP00000364375:P759S:rs1661715	RMDESVR	ENSP00000364375	rs1661715	P759S	759	ENSP00000364375_rs1	3	0	0	0	1	0	0	0	0	1	1
ENSP00000364403:M4867L:rs12584	VLGIYTFTKRVALEELENK	ENSP00000364403	rs12584	M4867L	4867	ENSP00000364403_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000364403:D169Y:	TLSYVEDQK	ENSP00000364403		D169Y	169	ENSP00000364403_rs1	2	0	2	0	0	0	0	0	0	0	0
ENSP00000364794:V440L:	NNDLCYWVPELLR	ENSP00000364794		V440L	440	ENSP00000364794_V4	2	0	0	0	0	0	0	0	0	0	2
ENSP00000364912:L1091P:rs848209	LGEPAGESVENQEVQSK	ENSP00000364912	rs848209	L1091P	1091	ENSP00000364912_rs8	1	0	0	1	0	0	0	0	0	0	0
ENSP00000364986:R140Q:rs11580170	QIQEAYEK	ENSP00000364986	rs11580170	R140Q	140	ENSP00000364986_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000365045:H311D:	DLYTNTVLSGGTTMYPGIADR	ENSP00000365045		H311D	311	ENSP00000365045_H3	11	0	0	0	0	3	3	0	0	2	3
ENSP00000365045:H311D:	DLYTNTVLSGGTTMYPGIADR	ENSP00000365045		H311D	311	ENSP00000365045_H3	6	0	0	0	0	2	0	1	0	1	2
ENSP00000365045:H311D:	DLYTNTVLSGGTTMYPGIADR	ENSP00000365045		H311D	311	ENSP00000365045_H3	2	0	0	0	0	0	0	0	0	1	1
ENSP00000365045:H311D:	DLYTNTVLSGGTTMYPGIADR	ENSP00000365045		H311D	311	ENSP00000365045_H3	1	0	0	0	0	0	1	0	0	0	0
ENSP00000365522:K201R:	DVTLFEGR	ENSP00000365522		K201R	201	ENSP00000365522_K2	1	0	0	0	0	0	1	0	0	0	0
ENSP00000365637:E788D:	IEVDAVR	ENSP00000365637		E788D	788	ENSP00000365637_Q1	1	0	0	1	0	0	0	0	0	0	0
ENSP00000365912:M994L:rs12876018	EAQKMAQLLVVLGKIINLK	ENSP00000365912	rs12876018	M994L	994	ENSP00000365912_rs1	2	0	0	0	0	0	0	0	1	1	0
ENSP00000366863:T1147M:rs9600455	NMLPDMNTSEMEK	ENSP00000366863	rs9600455	T1147M	1147	ENSP00000366863_rs9	1	0	0	0	0	0	0	1	0	0	0
ENSP00000366871:D981E:	EYEAGQLYGLEK	ENSP00000366871		D981E	981	ENSP00000366871_H4	5	0	3	2	0	0	0	0	0	0	0
ENSP00000366927:V253M:rs4878199	EAGFPPGVVNIITGYGPTAGAAIAQHMI	ENSP00000366927	rs4878199	V253M	253	ENSP00000366927_rs2	2	1	0	1	0	0	0	0	0	0	0
ENSP00000366927:R107L:rs2073478	LLNLLADLVER	ENSP00000366927	rs2073478	R107L	107	ENSP00000366927_rs2	41	5	3	5	4	6	5	2	5	4	2
ENSP00000366927:V253M:rs4878199	EAGFPPGVVNIITGYGPTAGAAIAQHMI	ENSP00000366927	rs4878199	V253M	253	ENSP00000366927_rs2	1	0	0	0	0	1	0	0	0	0	0
ENSP00000367263:H187Y:	YELTEISNVDVETQSGK	ENSP00000367263		H187Y	187	ENSP00000367263_rs5	2	0	1	0	0	0	0	0	1	0	0
ENSP00000367265:L580V:	GVLDDLRNDLDR	ENSP00000367265		L580V	580	ENSP00000367265_L5	2	0	0	0	2	0	0	0	0	0	0
ENSP00000367434:S1227L:	LLSDLLPPSTGTFQEAQSR	ENSP00000367434		S1227L	1227	ENSP00000367434_S1	2	1	0	0	0	0	1	0	0	0	0
ENSP00000367715:S221G:rs2274305	LPYGELLFDK	ENSP00000367715	rs2274305	S221G	221	ENSP00000367715_rs2	7	0	0	0	1	0	0	3	0	3	0
ENSP00000367727:A547V:rs7535528	SLDVLGWEER	ENSP00000367727	rs7535528	A547V	547	ENSP00000367727_rs7	1	1	0	0	0	0	0	0	0	0	0
ENSP00000367992:G190E:rs9778	AFSEYLGTDQSK	ENSP00000367992	rs9778	G190E	190	ENSP00000367992_H2	9	0	5	4	0	0	0	0	0	0	0
ENSP00000368699:S83N:rs1921	CDEPLNILVR	ENSP00000368699	rs1921	S83N	83	ENSP00000368699_rs1	11	0	2	2	1	2	0	0	0	4	0
ENSP00000369317:I384L:	QEIAELNR	ENSP00000369317		I384L	384	ENSP00000369317_R3	1	0	0	0	0	0	0	0	0	0	1
ENSP00000369318:L344I:	DALFCSCLSDIIR	ENSP00000369318		L344I	344	ENSP00000369318_rs3	1	0	0	1	0	0	0	0	0	0	0
ENSP00000370460:N390S:	EDQTLALLSQFK	ENSP00000370460		N390S	390	ENSP00000370460_rs7	1	0	1	0	0	0	0	0	0	0	0
ENSP00000370526:G424S:rs35143646	LAGSEVPQDR	ENSP00000370526	rs35143646	G424S	424	ENSP00000370526_rs3	7	0	0	0	0	0	0	3	3	1	0
ENSP00000370589:V576A:rs5856	EEPVSSGPEEAAGK	ENSP00000370589	rs5856	V576A	576	ENSP00000370589_rs2	5	0	0	0	2	0	3	0	0	0	0
ENSP00000370589:M475T:rs6753	LAALALASSENSSSTPEECEETSEKPK	ENSP00000370589	rs6753	M475T	475	ENSP00000370589_rs2	25	4	4	4	5	4	0	0	2	2	0
ENSP00000370589:A456V:	LAVLALASSENSSSTPEECEETSEKPK	ENSP00000370589		A456V	456	ENSP00000370589_rs5	3	0	0	0	0	0	3	0	0	0	0
ENSP00000370589:M475T:rs6753	LAVLALASSENSSSTPEECEETSEKPK	ENSP00000370589	rs6753	M475T	475	ENSP00000370589_rs5	3	0	0	0	0	0	3	0	0	0	0
ENSP00000370718:S228P:rs11553051	HDPIPAADTFEDLSDVEGGGSEPTQR	ENSP00000370718	rs11553051	S228P	228	ENSP00000370718_S5	1	1	0	0	0	0	0	0	0	0	0
ENSP00000370736:R42L:	GPDEDLSHLNK	ENSP00000370736		R42L	42	ENSP00000370736_R4	1	0	1	0	0	0	0	0	0	0	0
ENSP00000370736:T220S:	LLNGPGDVETGSSITVPQK	ENSP00000370736		T220S	220	ENSP00000370736_T2	2	0	0	0	0	0	0	2	0	0	0
ENSP00000370968:Q8E:rs3809849	DPAEPMSPGEATQSGAR	ENSP00000370968	rs3809849	Q8E	8	ENSP00000370968_R9	13	4	2	2	0	0	1	0	0	0	4
ENSP00000370968:M1208L:rs9905742	KSEDGTPAEDGTPAATGGSQPPSLGR	ENSP00000370968	rs9905742	M1208L	1208	ENSP00000370968_R9	5	0	3	1	0	0	0	0	1	0	0
ENSP00000370968:Q8E:rs3809849	DPAEPMSPGEATQSGAR	ENSP00000370968	rs3809849	Q8E	8	ENSP00000370968_R9	4	1	1	0	0	0	1	0	0	0	1
ENSP00000370968:D1194G:	SEDGTPAEGGTPAATGGSQPPSMGR	ENSP00000370968		D1194G	1194	ENSP00000370968_D1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000370968:M1208L:rs9905742	SEDGTPAEDGTPAATGGSQPPSLGR	ENSP00000370968	rs9905742	M1208L	1208	ENSP00000370968_R9	2	0	1	1	0	0	0	0	0	0	0
ENSP00000370968:Q8E:rs3809849	DPAEPMSPGEATQSGARPADR	ENSP00000370968	rs3809849	Q8E	8	ENSP00000370968_R9	2	1	0	0	0	0	0	0	0	0	1
ENSP00000370968:M1208L:rs9905742	SEDGTPAEDGTPAATGGSQPPSLGR	ENSP00000370968	rs9905742	M1208L	1208	ENSP00000370968_R9	1	0	1	0	0	0	0	0	0	0	0
ENSP00000370968:Q8E:rs3809849	DPAEPMSPGEATQSGARPADR	ENSP00000370968	rs3809849	Q8E	8	ENSP00000370968_R9	1	0	0	0	0	0	1	0	0	0	0
ENSP00000370968:Q8E:rs3809849	DPAEPMSPGEATQSGAR	ENSP00000370968	rs3809849	Q8E	8	ENSP00000370968_R9	1	0	0	0	0	0	0	0	0	0	1
ENSP00000371152:I109V:rs1049874	VMQVVDEK	ENSP00000371152	rs1049874	I109V	109	ENSP00000371152_rs1	11	1	0	2	3	2	0	2	0	0	1
ENSP00000371152:I109V:rs1049874	VMQVVDEK	ENSP00000371152	rs1049874	I109V	109	ENSP00000371152_rs1	1	0	0	0	0	1	0	0	0	0	0
ENSP00000371419:L1550P:rs1822135	DDSIPCFLEVK	ENSP00000371419	rs1822135	L1550P	1550	ENSP00000371419_rs7	8	1	0	0	0	3	0	0	3	1	0
ENSP00000371419:A1656P:rs7571	MDDPSISR	ENSP00000371419	rs7571	A1656P	1656	ENSP00000371419_rs7	1	0	0	0	0	0	0	0	1	0	0
ENSP00000371705:K142M:	EAGITEMVVFEQTK	ENSP00000371705		K142M	142	ENSP00000371705_K1	3	0	0	0	0	0	0	0	0	0	3
ENSP00000371705:K142M:	EAGITEMVVFEQTK	ENSP00000371705		K142M	142	ENSP00000371705_K1	2	0	0	0	0	0	0	0	0	0	2
ENSP00000371882:R282K:	SLTNDWKDHLAVK	ENSP00000371882		R282K	282	ENSP00000371882_T2	1	0	1	0	0	0	0	0	0	0	0
ENSP00000372199:V1791L:rs3761342	WVFGLLR	ENSP00000372199	rs3761342	V1791L	1791	ENSP00000372199_rs3	1	1	0	0	0	0	0	0	0	0	0
ENSP00000372221:I319V:rs1455555	GVALSNVVHK	ENSP00000372221	rs1455555	I319V	319	ENSP00000372221_rs2	1	0	0	0	0	1	0	0	0	0	0
ENSP00000372805:R181Q:	ILALAQNK	ENSP00000372805		R181Q	181	ENSP00000372805_R1	3	1	1	1	0	0	0	0	0	0	0
ENSP00000372819:T369A:rs1130838	GGSCSQAASSNSAQGSDESLIACK	ENSP00000372819	rs1130838	T369A	369	ENSP00000372819_rs1	3	0	0	0	1	0	0	0	0	2	0
ENSP00000372819:C356S:	GGSCSQAASSNSAQGSDESLIACK	ENSP00000372819		C356S	356	ENSP00000372819_rs1	3	0	0	0	1	0	0	0	0	2	0
ENSP00000372819:C356S:	GGSCSQAASSNSAQGSDESLIACK	ENSP00000372819		C356S	356	ENSP00000372819_rs1	1	0	0	0	0	0	0	0	0	1	0
ENSP00000372819:Y123F:	MFGCDLGPDGR	ENSP00000372819		Y123F	123	ENSP00000372819_rs1	6	0	0	0	0	1	0	2	0	3	0
ENSP00000372819:Y123F:	MFGCDLGPDGR	ENSP00000372819		Y123F	123	ENSP00000372819_rs1	6	1	0	0	0	0	0	0	1	4	0
ENSP00000372819:T369A:rs1130838	GGSCSQAASSNSAQGSDESLIACK	ENSP00000372819	rs1130838	T369A	369	ENSP00000372819_rs1	1	0	0	0	0	0	0	0	0	1	0
ENSP00000373317:P714L:rs3864017	DGGLVTSQESGQK	ENSP00000373317	rs3864017	P714L	714	ENSP00000373317_rs3	2	0	1	1	0	0	0	0	0	0	0
ENSP00000373933:R1482Q:	LEEVQQPPPR	ENSP00000373933		R1482Q	1482	ENSP00000373933_R1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000374611:P173A:rs7141532	LSLQNILNGLGAAAAACHR	ENSP00000374611	rs7141532	P173A	173	ENSP00000374611_rs3	1	0	0	0	0	0	0	0	0	0	1
ENSP00000375309:W235R:	EVQPRAQKIAEHRRK	ENSP00000375309		W235R	235	ENSP00000375309_rs3	1	0	0	0	1	0	0	0	0	0	0
ENSP00000375309:F207L:rs3993295	LLGHWEEAAHDLALACK	ENSP00000375309	rs3993295	F207L	207	ENSP00000375309_rs3	7	0	1	0	1	2	2	0	0	0	1
ENSP00000375309:V124A:rs3993298	VAAIEALNDGELQK	ENSP00000375309	rs3993298	V124A	124	ENSP00000375309_rs3	120	10	10	8	12	13	16	14	18	10	9
ENSP00000375309:V124A:rs3993298	VAAIEALNDGELQK	ENSP00000375309	rs3993298	V124A	124	ENSP00000375309_rs3	17	3	5	1	0	1	3	2	2	0	0
ENSP00000375503:V704A:	PSADPELALALR	ENSP00000375503		V704A	704	ENSP00000375503_rs1	1	1	0	0	0	0	0	0	0	0	0
ENSP00000375503:Q722R:	RAAAASAAEAGIATTGTEDSDDALLK	ENSP00000375503		Q722R	722	ENSP00000375503_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000375881:I89L:rs13026692	LGPELPLAMDR	ENSP00000375881	rs13026692	I89L	89	ENSP00000375881_rs1	6	0	0	0	6	0	0	0	0	0	0
ENSP00000375881:I89L:rs13026692	DKLGPELPLAMDR	ENSP00000375881	rs13026692	I89L	89	ENSP00000375881_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000375881:I89L:rs13026692	LGPELPLAMDR	ENSP00000375881	rs13026692	I89L	89	ENSP00000375881_rs1	1	0	0	0	1	0	0	0	0	0	0
ENSP00000376008:A150D:	YFVEAGDMAVR	ENSP00000376008		A150D	150	ENSP00000376008_R2	7	0	4	3	0	0	0	0	0	0	0
ENSP00000376008:A150D:	YFVEAGDMAVR	ENSP00000376008		A150D	150	ENSP00000376008_R2	5	0	4	1	0	0	0	0	0	0	0
ENSP00000376176:R16G:	MGCGAARALASVLCLGRNAAM	ENSP00000376176		R16G	16	ENSP00000376176_R1	1	0	0	0	0	0	0	0	1	0	0

ENSP00000376363:A229V:	LMQGFNEDMVIEAQQK	ENSP00000376363		A229V	229	ENSP00000376363_A22	2	0	0	0	0	0	2	0	0	0	0
ENSP00000376363:A229V:	LMQGFNEDMVIEAQQK	ENSP00000376363		A229V	229	ENSP00000376363_A22	1	0	0	0	0	0	1	0	0	0	0
ENSP00000376363:A229V:	LMQGFNEDMVIEAQQK	ENSP00000376363		A229V	229	ENSP00000376363_A22	1	0	0	0	0	0	1	0	0	0	0
ENSP00000376636:L468I:	SIDPENSETELER	ENSP00000376636		L468I	468	ENSP00000376636_L46	1	0	0	0	0	0	1	0	0	0	0
ENSP00000376763:T1079A:	FDVNASAVQVLIEHIGNLDR	ENSP00000376763		T1079A	1079	ENSP00000376763_T10	2	0	0	2	0	0	0	0	0	0	0
ENSP00000377642:D140G:	EFAGSLGIPFLETSAK	ENSP00000377642		D140G	140	ENSP00000377642_D14	2	0	2	0	0	0	0	0	0	0	0
ENSP00000377914:Q52E:rs11557674	QLLESAHK	ENSP00000377914	rs11557674	Q52E	52	ENSP00000377914_rs1	1	0	0	1	0	0	0	0	0	0	0
ENSP00000378370:A328T:rs3736238	IGEAEATVIEAMGK	ENSP00000378370	rs3736238	A328T	328	ENSP00000378370_rs3	3	0	0	0	3	0	0	0	0	0	0
ENSP00000378370:A328T:rs3736238	IGEAEATVIEAMGK	ENSP00000378370	rs3736238	A328T	328	ENSP00000378370_rs3	1	0	0	0	1	0	0	0	0	0	0
ENSP00000378729:N55S:	LSQIGVENTEESR	ENSP00000378729		N55S	55	ENSP00000378729_N55	2	0	0	0	2	0	0	0	0	0	0
ENSP00000379780:E180D:	MFVLDDADEMLSR	ENSP00000379780		E180D	180	ENSP00000379780_E18	1	0	1	0	0	0	0	0	0	0	0
ENSP00000381351:A990P:	FKMPSFGVSAPGRSIEASVDVSPPK	ENSP00000381351		A990P	990	ENSP00000381351_rs9	1	0	0	0	1	0	0	0	0	0	0
ENSP00000381351:P989S:	FKMPSFGVSAPGRSIEASVDVSPPK	ENSP00000381351		P989S	989	ENSP00000381351_rs9	1	0	0	0	1	0	0	0	0	0	0
ENSP00000382241:N1018S:rs7940077	SISGESATSESEFTLGGDDSGVSMNPAR	ENSP00000382241	rs7940077	N1018S	1018	ENSP00000382241_rs1	1	0	0	0	0	1	0	0	0	0	0
ENSP00000382392:T538M:	LVPMGLDFGQEGFTR	ENSP00000382392		T538M	538	ENSP00000382392_E68	2	0	0	0	2	0	0	0	0	0	0
ENSP00000382695_3732:ATTTTT>ATTTT	RPKSESQGNATKM	ENSP00000382695			3732	ENSP00000382695_373	1	0	0	0	1	0	0	0	0	0	0
ENSP00000383244:A73E:rs1050409	EPWVEQEGPEYWDR	ENSP00000383244	rs1050409	A73E	73	ENSP00000383244_rs1	1	0	0	0	0	0	0	0	0	1	0
ENSP00000383362:A36S:rs5748469	VSVVDYVEPSPQGTR	ENSP00000383362	rs5748469	A36S	36	ENSP00000383362_rs1	4	0	0	0	0	0	0	1	0	3	0
ENSP00000384176:T310I:	DMELPIEK	ENSP00000384176		T310I	310	ENSP00000384176_rs1	4	0	3	0	0	0	0	0	1	0	0
ENSP00000384176:T310I:	DMELPIEKEVALVK	ENSP00000384176		T310I	310	ENSP00000384176_rs1	1	0	1	0	0	0	0	0	0	0	0
ENSP00000384455:I193T:	LGGTTDDCELVEGLVLTQK	ENSP00000384455		I193T	193	ENSP00000384455_I19	5	0	3	2	0	0	0	0	0	0	0
ENSP00000384455:I193T:	LGGTTDDCELVEGLVLTQK	ENSP00000384455		I193T	193	ENSP00000384455_I19	3	0	2	1	0	0	0	0	0	0	0
ENSP00000385139:R79G:	ALANVNIGSLICNVGAGGPAPAAGAAP	ENSP00000385139		R79G	79	ENSP00000385139_L11	2	0	0	0	0	2	0	0	0	0	0
ENSP00000385139:L110F:	KEESKESDDDMGFGLFD	ENSP00000385139		L110F	110	ENSP00000385139_L11	1	0	0	0	0	1	0	0	0	0	0
ENSP00000386006:K17M:	EMEDKVTSPEK	ENSP00000386006		K17M	17	ENSP00000386006_K17	1	0	0	0	1	0	0	0	0	0	0
ENSP00000386423:P150A:rs4832242	FLEENADPSASEIR	ENSP00000386423	rs4832242	P150A	150	ENSP00000386423_rs4	3	0	0	0	1	1	0	0	1	0	0
ENSP00000386465:N70S:rs11559078	SQDKDVSEGETSDGVR	ENSP00000386465	rs11559078	N70S	70	ENSP00000386465_rs1	1	0	0	1	0	0	0	0	0	0	0
ENSP00000386756:L248I:	GLGTDDNTIIR	ENSP00000386756		L248I	248	ENSP00000386756_M2	14	0	8	6	0	0	0	0	0	0	0
ENSP00000386813:A852V:rs11542286	SVVSDVPEELDFLVPK	ENSP00000386813	rs11542286	A852V	852	ENSP00000386813_rs1	1	0	0	0	0	0	0	0	0	0	1
ENSP00000387272:A280D:	SLGGNDELSDTFLEMK	ENSP00000387272		A280D	280	ENSP00000387272_C14	2	0	1	1	0	0	0	0	0	0	0

S12 CO-EXPRESSION MODULE GENES

Cluster	Ensembl Gene ID	Associated Gene	GO Term Accession (	GO Term Name (bp)	Class
40	ENSG00000178921	PFAS	GO:0006164	purine nucleotide biosynthetic process	DNA/RNA synthesis & repair
40	ENSG00000204842	ATXN2	GO:0016070	RNA metabolic process	DNA/RNA synthesis & repair
40	ENSG00000109606	DHX15	GO:0006397	mRNA processing	DNA/RNA synthesis & repair
40	ENSG00000083520	DIS3	GO:0006364	rRNA processing	DNA/RNA synthesis & repair
42	ENSG00000126814	TRMT5	GO:0008033	tRNA processing	DNA/RNA synthesis & repair
42	ENSG00000120800	UTP20	GO:0006364	rRNA processing	DNA/RNA synthesis & repair
56	ENSG00000138772	ANXA3	GO:0051054	positive regulation of DNA metabolic process	DNA/RNA synthesis & repair
75	ENSG00000135336	ORC3L	GO:0006260	DNA replication	DNA/RNA synthesis & repair
75	ENSG00000020922	MRE11A	GO:0006281	DNA repair	DNA/RNA synthesis & repair
75	ENSG00000104320	NBN	GO:0006302	double-strand break repair	DNA/RNA synthesis & repair
75	ENSG00000113522	RAD50	GO:0006281	DNA repair	DNA/RNA synthesis & repair
129	ENSG00000116560	SFPQ	GO:0006281	DNA repair	DNA/RNA synthesis & repair
156	ENSG00000095002	MSH2	GO:0006281	DNA repair	DNA/RNA synthesis & repair
156	ENSG00000104413	ESRP1	GO:0043484	regulation of RNA splicing	DNA/RNA synthesis & repair
40	ENSG00000114480	GBE1	GO:0005975	carbohydrate metabolic process	Metabolism process
40	ENSG00000082212	ME2	GO:0006108	malate metabolic process	Metabolism process
40	ENSG00000146085	MUT	GO:0008152	metabolic process	Metabolism process
40	ENSG00000178057	NDUFAF3	GO:0032981	mitochondrial respiratory chain complex I assembly	Metabolism process
40	ENSG00000152256	PDK1	GO:0006006	glucose metabolic process	Metabolism process
40	ENSG00000185875	THNSL1	GO:0008152	metabolic process	Metabolism process
42	ENSG00000110955	ATP5B	GO:0006091	generation of precursor metabolites and energy	Metabolism process
42	ENSG00000069998	CECR5	GO:0008152	metabolic process	Metabolism process
42	ENSG00000115419	GLS	GO:0006541	glutamine metabolic process	Metabolism process
42	ENSG00000083720	OXCT1	GO:0008152	metabolic process	Metabolism process
54	ENSG00000159228	CBR1	GO:0008152	metabolic process	Metabolism process
54	ENSG00000159231	CBR3	GO:0008152	metabolic process	Metabolism process
54	ENSG00000095321	CRAT	GO:0006091	generation of precursor metabolites and energy	Metabolism process
108	ENSG00000122873	CISD1	GO:0043457	regulation of cellular respiration	Metabolism process
129	ENSG00000100889	PCK2	GO:0006094	gluconeogenesis	Metabolism process
156	ENSG00000150768	DLAT	GO:0008152	metabolic process	Metabolism process
40	ENSG00000162191	UBXN1	GO:0043161	proteasomal ubiquitin-dependent protein catabolic process	Protein turnover/folding/transport
40	ENSG00000104325	DECR1	GO:0051289	protein homotetramerization	Protein turnover/folding/transport
40	ENSG00000126602	TRAP1	GO:0006457	protein folding	Protein turnover/folding/transport
40	ENSG00000140598	EFTUD1	GO:0006412	translation	Protein turnover/folding/transport
40	ENSG00000079805	DNM2	GO:0006892	post-Golgi vesicle-mediated transport	Protein turnover/folding/transport
54	ENSG00000105402	NAPA	GO:0006886	intracellular protein transport	Protein turnover/folding/transport
54	ENSG00000138297	TIMM23	GO:0015031	protein transport	Protein turnover/folding/transport
56	ENSG00000176978	DPP7	GO:0006508	proteolysis	Protein turnover/folding/transport
56	ENSG00000120694	HSPH1	GO:0006986	response to unfolded protein	Protein turnover/folding/transport
56	ENSG00000072274	TFRC	GO:0006508	proteolysis	Protein turnover/folding/transport
56	ENSG00000074695	LMAN1	GO:0006457	protein folding	Protein turnover/folding/transport
56	ENSG00000165813	C10orf118	GO:0006412	translation	Protein turnover/folding/transport
75	ENSG00000173486	FKBP2	GO:0006457	protein folding	Protein turnover/folding/transport
108	ENSG00000004478	FKBP4	GO:0006457	protein folding	Protein turnover/folding/transport
129	ENSG00000147475	ERLIN2	GO:0030433	ER-associated protein catabolic process	Protein turnover/folding/transport
129	ENSG00000106077	ABHD11	GO:0006886	intracellular protein transport	Protein turnover/folding/transport
152	ENSG00000147010	SH3KBP1	GO:0006897	endocytosis	Protein turnover/folding/transport
156	ENSG00000109501	WFS1	GO:0022417	protein maturation by protein folding	Protein turnover/folding/transport
40	ENSG00000111530	CAND1	GO:0045449	regulation of transcription	Transcription regulation
40	ENSG00000079805	DNM2	GO:0045449	regulation of transcription	Transcription regulation
42	ENSG00000067334	DNTTIP2	GO:0045449	regulation of transcription	Transcription regulation
42	ENSG00000121390	PSPC1	GO:0045449	regulation of transcription	Transcription regulation
54	ENSG00000088992	TESC	GO:0043193	positive regulation of gene-specific transcription	Transcription regulation
56	ENSG00000138772	ANXA3	GO:0051091	positive regulation of transcription factor activity	Transcription regulation
56	ENSG00000117713	ARID1A	GO:0045449	regulation of transcription	Transcription regulation
75	ENSG00000155508	CNOT8	GO:0006355	regulation of transcription, DNA-dependent	Transcription regulation
108	ENSG00000132382	MYBBP1A	GO:0006355	regulation of transcription, DNA-dependent	Transcription regulation
129	ENSG00000116560	SFPQ	GO:0045449	regulation of transcription	Transcription regulation
40	ENSG00000114023	FAM162A			Unmapped
42	ENSG00000079819	EPB41L2			Unmapped
54	ENSG00000180921	FAM83H			Unmapped
54	ENSG00000008394	MGST1			Unmapped
54	ENSG00000176422	SPRYD4			Unmapped
56	ENSG00000175866	BAIAP2			Unmapped
56	ENSG00000177106	EPS8L2			Unmapped
56	ENSG00000167468	GPX4			Unmapped
75	ENSG00000166145	SPINT1			Unmapped
108	ENSG00000178425	NT5DC1			Unmapped
108	ENSG00000124570	SERPINB6			Unmapped
108	ENSG00000138279	ANXA7			Unmapped
129	ENSG00000010278	CD9			Unmapped
129	ENSG00000184897	H1FX			Unmapped
152	ENSG00000057019	DCBLD2			Unmapped
152	ENSG00000147065	MSN			Unmapped
152	ENSG00000147394	ZNF185			Unmapped
156	ENSG00000163686	ABHD6			Unmapped
156	ENSG00000117868	FAM62B			Unmapped