

Table S1: Orthologous groups (Og) present in Human and *Nasonia*, but not *Drosophila*. Each protein has a BLASTP E-value of the human protein to *Nasonia* at least 10^5 lower than to *Drosophila*. If there are multiple Human entries in an orthologous group, the annotation was taken from a single member. Species abbreviations: *H. sap.* = *Homo sapiens*, *D. pul.* = *Daphnia pulex*, *P. hum.* = *Pediculus humanus*, *A. mel.* = *Apis mellifera*, *N. vit.* = *Nasonia vitripennis*, *T. cas.* = *Tribolium castaneum*, *D. mel.* = *Drosophila melanogaster*.

Og id	<i>H. sap.</i>	<i>D. pul.</i>	<i>P. hum.</i>	<i>A. mel.</i>	<i>N. vit.</i>	<i>T. cas.</i>	<i>D. mel.</i>	Human ensembl	Human gene name	<i>Nasonia</i>	Honeybee	Human annotation
5278	1	1	0	1	1	1	0	ENSP00000337850	KPTN	gij156541582 ref XP_001600052.1	GB19358-PA	Kaptin (Actin-associated protein 2E4) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y664]
10396	2	0	0	0	1	1	0	ENSP00000234195	FAM82A1	lcl hmm324184		Regulator of microtubule dynamics protein 2 (RMD-2)(hRMD-2)(Protein FAM82A1) [Source:UniProtKB/Swiss-Prot;Acc:Q96LZ7]
10394	1	0	0	1	1	0	0	ENSP00000371901		gij156544478 ref XP_001601506.1	GB13015-PA	
1160	1	1	1	1	1	1	0	ENSP00000255305	XPO4	gij156553500 ref XP_001600727.1	GB19206-PA	Exportin-4 (Exp4) [Source:UniProtKB/Swiss-Prot;Acc:Q9C0E2]
10529	1	1	0	1	1	1	0	ENSP00000283882	CFDP1	gij156548797 ref XP_001605111.1	GB10848-PA	Craniofacial development protein 1 (Bucentaur) [Source:UniProtKB/Swiss-Prot;Acc:Q9UEE9]
7908	1	1	1	0	1	1	0	ENSP00000284202	IMPACT	gij156537982 ref XP_001608188.1		Protein IMPACT (Imprinted and ancient gene protein homolog) [Source:UniProtKB/Swiss-Prot;Acc:Q9P2X3]
295	1	1	1	1	1	1	0	ENSP00000282516	NIPBL	gij156555041 ref XP_001603650.1	GB14597-PA	Nipped-B-like protein (Delangin)(SCC2 homolog) [Source:UniProtKB/Swiss-Prot;Acc:Q6KC79]
3543	2	1	0	1	1	0	0	ENSP00000353557	SLC35F1	gij156548900 ref XP_001606609.1	GB16009-PA	Solute carrier family 35 member F1 [Source:UniProtKB/Swiss-Prot;Acc:Q5T1Q4]
7017	1	1	1	1	1	0	0	ENSP00000369402	IFT74	gij156537688 ref XP_001607903.1	GB17359-PA	Intraflagellar transport protein 74 homolog (Coiled-coil domain-containing protein 2)(Capillary morphogenesis protein 1)(CMG-1) [Source:UniProtKB/Swiss-Prot;Acc:Q96LB3]
1610	1	1	1	1	1	1	0	ENSP00000245157	BBS2	gij156549494 ref XP_001604585.1	GB16076-PA	Bardet-Biedl syndrome 2 protein [Source:UniProtKB/Swiss-Prot;Acc:Q9BXC9]
9514	1	1	1	1	1	0	0	ENSP00000332823	NR2C2AP	gij156553659 ref XP_001601204.1	GB14900-PA	Nuclear receptor 2C2-associated protein (TR4 orphan receptor-associated 16 kDa protein)

												[Source:UniProtKB/Swiss-Prot;Acc:Q86WQ0]
1323	1	1	1	1	1	1	0	ENSP00000348089	ERCC6	gij 156553964 ref XP_001602814.1	GB14810-PA	DNA excision repair protein ERCC-6 (EC 3.6.1.-)(ATP-dependent helicase ERCC6)(Cockayne syndrome protein CSB) [Source:UniProtKB/Swiss-Prot;Acc:Q03468]
3967	1	0	1	1	1	1	0	ENSP00000347532	KIAA1598	gij 156541020 ref XP_001602956.1	GB14291-PA	Shootin-1 [Source:UniProtKB/Swiss-Prot;Acc:A0MZ66]
585	1	1	1	1	1	1	0	ENSP00000309457	VPS41	lcl hmm251174	GB16155-PA	Vacuolar protein sorting-associated protein 41 homolog (S53) [Source:UniProtKB/Swiss-Prot;Acc:P49754]
10571	2	1	1	2	1	0	0	ENSP00000318546	SLC14A1	gij 156548644 ref XP_001601729.1	GB11439-PA	Urea transporter, erythrocyte [Source:UniProtKB/Swiss-Prot;Acc:Q13336]
8639	1	2	1	1	1	1	0	ENSP00000278612	NPAT	lcl hmm560054	GB10434-PA	Protein NPAT (Nuclear protein of the ataxia telangiectasia mutated locus)(Nuclear protein of the ATM locus)(p220) [Source:UniProtKB/Swiss-Prot;Acc:Q14207]
7170	1	1	1	1	1	1	0	ENSP00000355623	C1orf198	gij 156537093 ref XP_001602567.1	GB16150-PA	Uncharacterized protein C1orf198 [Source:UniProtKB/Swiss-Prot;Acc:Q9H425]
9076	1	1	1	0	1	1	0	ENSP00000359368	RPAP2	gij 156555420 ref XP_001605680.1		RNA polymerase II-associated protein 2 [Source:UniProtKB/Swiss-Prot;Acc:Q8IXW5]
11151	2	0	0	1	1	0	0	ENSP00000370813	IGF2	lcl hmm434314	GB17332-PA	Insulin-like growth factor II Precursor (IGF-II)(Somatomedin-A) [Contains Insulin-like growth factor II Ala-25 Del] [Source:UniProtKB/Swiss-Prot;Acc:P01344]
7860	1	1	1	0	2	1	0	ENSP00000219431	MPG	gij 156552949 ref XP_001603093.1		DNA-3-methyladenine glycosylase (EC 3.2.2.21)(3-methyladenine DNA glycosidase)(ADPG)(3-alkyladenine DNA glycosylase)(N-methylpurine-DNA glycosylase) [Source:UniProtKB/Swiss-Prot;Acc:P29372]
10838	1	0	0	1	1	0	0	ENSP00000307093	MAP6	lcl hmm237234	GB30547-PA	Microtubule-associated protein 6 (MAP-6)(Stable tubule-only polypeptide)(STOP) [Source:UniProtKB/Swiss-Prot;Acc:Q96JE9]
11347	1	1	0	0	1	0	0	ENSP00000252602	MRPL34	gij 156540682 ref XP_001599742.1		39S ribosomal protein L34, mitochondrial Precursor (L34mt)(MRP-L34) [Source:UniProtKB/Swiss-Prot;Acc:Q9BQ48]
9921	1	1	1	0	1	1	0	ENSP00000216027	HSCB	lcl hmm384844		Co-chaperone protein HscB, mitochondrial Precursor (DnaJ homolog subfamily C member 20)(Hsc20) [Source:UniProtKB/Swiss-Prot;Acc:Q8IWL3]

9997	1	0	1	1	1	1	0	ENSP00000339834	SNRNP48	Icl hmm180314	GB10307-PA	U11/U12 small nuclear ribonucleoprotein 48 kDa protein (U11/U12 snRNP 48 kDa protein)(U11/U12-48K) [Source:UniProtKB/Swiss-Prot;Acc:Q6IEG0] Inositol-tetrakisphosphate 1-kinase (EC 2.7.1.134)(Inositol-triphosphate 5/6-kinase)(EC 2.7.1.159)(Inositol 1,3,4-trisphosphate 5/6-kinase)(Ins(1,3,4)P(3) 5/6-kinase) [Source:UniProtKB/Swiss-Prot;Acc:Q13572]
6169	1	1	1	1	1	1	0	ENSP00000308468	ITPK1	gij 156541272 ref XP_001601429.1	GB12674-PA	Uncharacterized protein C20orf72 [Source:UniProtKB/Swiss-Prot;Acc:Q9BQP7]
9331	1	1	1	1	1	0	0	ENSP00000366939	C20orf72	gij 156537361 ref XP_001606585.1	GB13553-PA	Sodium channel and clathrin linker 1 (Sodium channel-associated protein 1) [Source:UniProtKB/Swiss-Prot;Acc:Q96NL6]
6022	1	0	1	1	1	1	0	ENSP00000281142	SCLT1	gij 156548226 ref XP_001607124.1	GB15712-PA	Steroid receptor RNA activator 1 (Steroid receptor RNA activator protein)(SRAP) [Source:UniProtKB/Swiss-Prot;Acc:Q9HD15]
10278	1	1	1	1	1	0	0	ENSP00000337513	SRA1	gij 156553450 ref XP_001601505.1	GB15995-PA	Semenogelin-1 Precursor (Semenogelin I)(SGI) [Contains Alpha-inhibin-92;Alpha-inhibin-31;Seminal basic protein] [Source:UniProtKB/Swiss-Prot;Acc:P04279]
9240	2	2	1	1	1	0	0	ENSP00000361867	SEMG1	Icl hmm518944	GB19005-PA	Transmembrane protein 151A [Source:UniProtKB/Swiss-Prot;Acc:Q8N4L1]
2916	2	0	0	1	1	0	0	ENSP00000326244	TMEM151A	gij 156538348 ref XP_001604658.1	GB12211-PA	Myosin-le (Myosin-lc) [Source:UniProtKB/Swiss-Prot;Acc:Q12965]
909	2	1	1	1	1	0	0	ENSP00000288235	MYO1E	gij 156549716 ref XP_001605612.1	GB18825-PA	Malonyl-CoA decarboxylase, mitochondrial Precursor (MCD)(EC 4.1.1.9) [Source:UniProtKB/Swiss-Prot;Acc:Q95822]
4165	1	1	1	1	1	0	0	ENSP00000262430	MLYCD	gij 156542578 ref XP_001603767.1	GB12048-PA	ADP-ribosylation factor-like protein 2-binding protein (ARF-like 2-binding protein)(Binder of ARF2 protein 1) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y2Y0]
9189	2	1	1	1	1	1	0	ENSP00000219204	ARL2BP	gij 156537472 ref XP_001607175.1	GB16745-PA	Beta-adrenergic receptor kinase 1 (Beta-ARK-1)(EC 2.7.11.15)(G-protein coupled receptor kinase 2) [Source:UniProtKB/Swiss-Prot;Acc:P25098]
834	2	1	1	1	1	1	0	ENSP00000312262	ADRBK1	gij 156546725 ref XP_001604700.1	GB15959-PA	Coiled-coil domain-containing protein 111 [Source:UniProtKB/Swiss-Prot;Acc:Q96LW4]
5598	1	1	1	1	1	0	0	ENSP00000313816	CCDC111	gij 156554423 ref XP_001603706.1	GB15999-PA	IQ domain-containing protein H (Testis development protein NYD-SP5) [Source:UniProtKB/Swiss-Prot;Acc:Q86VS3]
11549	1	0	0	0	1	0	0	ENSP00000336861	IQCH	Icl hmm116724		

11269	1	0	1	0	1	0	0	ENSP00000292586	C5orf45	Icl hmm600924		UPF0544 protein C5orf45 [Source:UniProtKB/Swiss-Prot;Acc:Q6NTE8]
5887	1	1	0	0	1	0	0	ENSP00000252505	ALLC	gij156555578 ref XP_001605000.1		Probable allantoinase (EC 3.5.3.4)(Allantoate amidinohydrolase) [Source:UniProtKB/Swiss-Prot;Acc:Q8N6M5]
9667	1	1	1	1	1	0	0	ENSP00000357863	GTF3C6	Icl hmm560804	GB13242-PA	General transcription factor 3C polypeptide 6 (Transcription factor IIIc subunit 6)(TFIIIC 35 kDa subunit)(TFIIIC35) [Source:UniProtKB/Swiss-Prot;Acc:Q969F1]
1336	1	1	1	1	1	1	0	ENSP00000356641	RFWD2	gij156541783 ref XP_001602143.1	GB30493-PA_2	E3 ubiquitin-protein ligase RFWD2 (EC 6.3.2.-)(RING finger and WD repeat domain protein 2)(Constitutive photomorphogenesis protein 1 homolog)(hCOP1)(RING finger protein 200) [Source:UniProtKB/Swiss-Prot;Acc:Q8NHV2]
10836	1	1	0	1	1	0	0	ENSP00000279392	HIRIP3	Icl hmm377104	GB20028-PA	HIRA-interacting protein 3 [Source:UniProtKB/Swiss-Prot;Acc:Q9BW71]
1805	1	1	1	1	1	1	0	ENSP00000289094	ARMC8	gij156548892 ref XP_001606553.1	GB15266-PA	Armadillo repeat-containing protein 8 [Source:UniProtKB/Swiss-Prot;Acc:Q8IUR7]
4028	2	0	1	1	1	1	0	ENSP00000335064	XKR5	Icl hmm230444	GB19767-PA	XK-related protein 5 [Source:UniProtKB/Swiss-Prot;Acc:Q6UX68]
822	1	1	1	1	1	1	0	ENSP00000038176	NSMAF	gij156544199 ref XP_001606594.1	GB17342-PA	Protein FAN (Factor associated with neutral sphingomyelinase activation)(Factor associated with N-SMase activation) [Source:UniProtKB/Swiss-Prot;Acc:Q92636]
2541	1	1	1	1	1	1	0	ENSP00000263119	CABIN1	Icl hmm50974	GB11760-PA	Calcineurin-binding protein cabin-1 (Calcineurin inhibitor)(CAIN) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y6J0]
11249	1	1	0	1	1	0	0	ENSP00000288607	PSMG3	Icl hmm94104	GB30382-PA	Proteasome assembly chaperone 3 (PAC-3)(hPAC3) [Source:UniProtKB/Swiss-Prot;Acc:Q9BT73]
56	1	1	1	1	1	1	0	ENSP00000300648	GCN1L1	gij156553177 ref XP_001602416.1	GB17415-PA	Translational activator GCN1 (GCN1-like protein 1)(HsGCN1) [Source:UniProtKB/Swiss-Prot;Acc:Q92616]
2896	1	2	0	0	1	1	0	ENSP00000360316	DHCR24	gij156537446 ref XP_001607022.1		24-dehydrocholesterol reductase Precursor (EC 1.3.1.-)(3-beta-hydroxysterol delta-24-reductase)(Seladin-1)(Diminuto/dwarf1 homolog) [Source:UniProtKB/Swiss-Prot;Acc:Q15392]
946	1	1	0	1	1	1	0	ENSP00000356130	RIPK5	Icl hmm106304	GB11994-PA	Receptor-interacting serine/threonine-protein kinase 5 (EC 2.7.11.1)(Dusty protein kinase)(Dusty PK)(RIP-homologous

																			kinase)(Sugen kinase 496) [Source:UniProtKB/Swiss-Prot;Acc:Q6XUX3]
1039	1	1	1	1	2	1	0	ENSP00000355759	PARP1	gij156546727 ref XP_001604797.1	GB12373-PA							Poly [ADP-ribose] polymerase 1 (PARP-1)(EC 2.4.2.30)(ADPRT)(NAD(+) ADP-ribosyltransferase 1)(Poly[ADP-ribose] synthetase 1) [Source:UniProtKB/Swiss-Prot;Acc:P09874]	
521	1	1	1	1	1	1	0	ENSP00000343362	ANKFY1	gij156550919 ref XP_001602962.1	GB19019-PA							Ankyrin repeat and FYVE domain-containing protein 1 (Ankyrin repeats hooked to a zinc finger motif) [Source:UniProtKB/Swiss-Prot;Acc:Q9P2R3]	
7760	2	1	1	1	1	1	0	ENSP00000315731	METRNL	gij156536953 ref XP_001608246.1	GB18213-PA							Meteorin-like protein Precursor [Source:UniProtKB/Swiss-Prot;Acc:Q641Q3]	
11818	1	0	1	1	1	0	0	ENSP00000300035	KIAA0101	gij156544534 ref XP_001607698.1	GB15056-PA							PCNA-associated factor (p15PAF)(Overexpressed in anaplastic thyroid carcinoma 1)(OEATC-1)(Hepatitis C virus NS5A-transactivated protein 9)(HCV NS5A-transactivated protein 9) [Source:UniProtKB/Swiss-Prot;Acc:Q15004]	
10012	2	1	0	0	1	1	0	ENSP00000334463	LYPD6	lcl hmm130624								Ly6/PLAUR domain-containing protein 6 Precursor [Source:UniProtKB/Swiss-Prot;Acc:Q86Y78]	
1597	2	1	1	1	1	1	0	ENSP00000347088	LARGE	gij156552489 ref XP_001602136.1	GB19437-PA							Glycosyltransferase-like protein LARGE1 (EC 2.4.-.)(Acetylglucosaminyltransferase-like 1A) [Source:UniProtKB/Swiss-Prot;Acc:O95461]	
1741	1	1	1	1	1	1	0	ENSP00000374305		gij156548310 ref XP_001602686.1	GB15947-PA								
11110	1	0	1	1	1	1	0	ENSP00000348815	HYLS1	lcl hmm86264	GB18612-PA							Hydrolethalus syndrome protein 1 [Source:UniProtKB/Swiss-Prot;Acc:Q96M11]	
9560	1	1	1	1	1	1	0	ENSP00000297533	TMUB1	gij156551025 ref XP_001601406.1	GB12469-PA							Transmembrane and ubiquitin-like domain-containing protein 1 (Ubiquitin-like protein SB144) [Source:UniProtKB/Swiss-Prot;Acc:Q9BVT8]	
8198	1	1	0	1	1	1	0	ENSP00000342322	TM7SF3	gij156555696 ref XP_001602858.1	GB18341-PA							Transmembrane 7 superfamily member 3 Precursor (Seven span transmembrane protein) [Source:UniProtKB/Swiss-Prot;Acc:Q9NS93]	
10105	1	1	0	1	1	0	0	ENSP00000270257	GEMIN7	lcl hmm622184	GB16350-PA							Gem-associated protein 7 (Gemin-7)(SIP3) [Source:UniProtKB/Swiss-Prot;Acc:Q9H840]	

9260	1	1	1	2	1	2	0	ENSP00000317998	RPP40	gij156547599 ref XP_001603266.1	GB15598-PA	Ribonuclease P protein subunit p40 (RNaseP protein p40)(EC 3.1.26.5)(RNase P subunit 1) [Source:UniProtKB/Swiss-Prot;Acc:O75818]
2751	2	1	1	0	1	1	0	ENSP00000277165	FAM120A	gij156542550 ref XP_001599308.1		Constitutive coactivator of PPAR-gamma-like protein 1 (Protein FAM120A) [Source:UniProtKB/Swiss-Prot;Acc:Q9NZB2]
10728	1	0	0	1	1	0	0	ENSP00000355299	TSEN15	gij156550323 ref XP_001599107.1	GB17375-PA	tRNA-splicing endonuclease subunit Sen15 (tRNA-intron endonuclease Sen15)(HsSen15) [Source:UniProtKB/Swiss-Prot;Acc:Q8WW01]
11808	2	1	0	1	1	1	0	ENSP00000362816		lcl hmm141234	GB16929-PA	
1012	1	1	1	1	1	1	0	ENSP00000367192	RNF207	gij156544417 ref XP_001607532.1	GB19065-PA	RING finger protein 207 [Source:UniProtKB/Swiss-Prot;Acc:Q6ZRF8]
7984	2	1	1	1	1	1	0	ENSP00000260867	TIMM23	gij156551370 ref XP_001602964.1	GB15335-PA	Mitochondrial import inner membrane translocase subunit Tim23 [Source:UniProtKB/Swiss-Prot;Acc:O14925]
8160	1	0	0	1	1	1	0	ENSP00000334594	SLC10A7	gij156542215 ref XP_001600389.1	GB13961-PA	Sodium/bile acid cotransporter 7 (Na(+)/bile acid cotransporter 7)(Solute carrier family 10 member 7) [Source:UniProtKB/Swiss-Prot;Acc:Q0GE19]
5309	1	1	1	1	1	1	0	ENSP00000301773	RAB3IL1	gij156552252 ref XP_001606545.1	GB14997-PA	Guanine nucleotide exchange factor for Rab3A (Rab3A-interacting-like protein 1)(Rabin3-like 1) [Source:UniProtKB/Swiss-Prot;Acc:Q8TBN0]
3014	1	1	1	1	1	1	0	ENSP00000260403	TMEM62	gij156551111 ref XP_001603328.1	GB14805-PA	Transmembrane protein 62 [Source:UniProtKB/Swiss-Prot;Acc:Q0P6H9]
5757	1	1	1	0	1	1	0	ENSP00000354497	MTMR15	gij156543241 ref XP_001606613.1		Coiled-coil domain-containing protein MTMR15 [Source:UniProtKB/Swiss-Prot;Acc:Q9Y2M0]
11069	1	1	0	1	1	0	0	ENSP00000341324	SRFBP1	gij156550059 ref XP_001605276.1	GB14431-PA	Serum response factor-binding protein 1 (SRF-dependent transcription regulation-associated protein)(p49/STRAP) [Source:UniProtKB/Swiss-Prot;Acc:Q8NEF9]
9177	1	0	0	1	1	1	0	ENSP00000303182	COMMD8	gij156551227 ref XP_001604228.1	GB11000-PA	COMM domain-containing protein 8 [Source:UniProtKB/Swiss-Prot;Acc:Q9NX08]
9706	1	1	0	1	1	1	0	ENSP00000255784	CCDC134	gij156546026 ref XP_001608011.1	GB30472-PA	Coiled-coil domain-containing protein 134 Precursor [Source:UniProtKB/Swiss-Prot;Acc:Q9H6E4]
3716	1	0	1	1	1	0	0	ENSP00000353028	0	lcl hmm76494	GB13666-PA	Uncharacterized protein FLJ35848 [Source:UniProtKB/Swiss-Prot;Acc:A2RUB1]
3411	1	1	1	1	1	1	0	ENSP00000369497	BRCA2	lcl hmm296144	GB17004-PA	Breast cancer type 2 susceptibility protein (Fanconi anemia group D1 protein)

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																	Cob(I)yrinic acid a,c-diamide
8608	1	1	1	1	1	1	0	ENSP00000266839	MMAB	gij156553954 ref XP_001602577.1	GB13846-PA						adenosyltransferase, mitochondrial Precursor (EC 2.5.1.17)(Cob(I)alamin adenosyltransferase)(Methylmalonic aciduria type B protein) [Source:UniProtKB/Swiss-Prot;Acc:Q96EY8]
1640	1	1	1	1	1	1	0	ENSP00000297338	RAD21	gij156550247 ref XP_001602260.1	GB13290-PA						Double-strand-break repair protein rad21 homolog (hHR21)(Nuclear matrix protein 1)(NXP-1)(SCC1 homolog) [Source:UniProtKB/Swiss-Prot;Acc:O60216]
8640	1	1	0	1	1	1	0	ENSP00000364683	BAMBI	lcl hmm186414	GB11544-PA						BMP and activin membrane-bound inhibitor homolog Precursor (Putative transmembrane protein NMA)(Non-metastatic gene A protein) [Source:UniProtKB/Swiss-Prot;Acc:Q13145]
11932	1	0	0	0	1	0	0	ENSP00000373249	TMEM42	gij156548562 ref XP_001605953.1							Transmembrane protein 42 [Source:UniProtKB/Swiss-Prot;Acc:Q69YG0]
222	2	1	1	1	1	1	0	ENSP00000355589	SIPA1L2	gij156543573 ref XP_001603800.1	GB18175-PA						Signal-induced proliferation-associated 1-like protein 2 (SIPA1-like protein 2) [Source:UniProtKB/Swiss-Prot;Acc:Q9P2F8]
907	1	1	1	1	1	1	0	ENSP00000265872	CCAR1	gij156550661 ref XP_001605185.1	GB15310-PA						Cell division cycle and apoptosis regulator protein 1 (Cell cycle and apoptosis regulatory protein 1)(CARP-1)(Death inducer with SAP domain) [Source:UniProtKB/Swiss-Prot;Acc:Q81X12]
4883	1	0	2	0	94	5	0	ENSP00000331538	RTL1	lcl hmm355124							Retrotransposon-like protein 1 (Retrotransposon-derived protein PEG11)(Paternally expressed gene 11 protein)(Mammalian retrotransposon derived protein 1) [Source:UniProtKB/Swiss-Prot;Acc:A6NKG5]
5072	1	1	1	1	1	1	0	ENSP00000320116	0	gij156537221 ref XP_001605079.1	GB11546-PA						PKHD domain-containing transmembrane protein FLJ22222 (EC 1.14.--) [Source:UniProtKB/Swiss-Prot;Acc:Q6PK18]
10144	1	1	0	1	1	0	0	ENSP00000301559		lcl hmm612344	GB18694-PA						
11264	1	1	0	0	1	0	0	ENSP00000367049	C13orf37	lcl hmm524514							UPF0582 protein C13orf37 [Source:UniProtKB/Swiss-Prot;Acc:Q08AG7]
7523	2	0	1	1	1	1	0	ENSP00000308873	CCDC74B	lcl hmm316594	GB18788-PA						Coiled-coil domain-containing protein 74B [Source:UniProtKB/Swiss-Prot;Acc:Q96LY2]

9762	1	0	1	1	1	1	0	ENSP00000308597	DLEC1	Icl hmm66104	GB13863-PA	Deleted in lung and esophageal cancer protein 1 (Deleted in lung cancer protein 1)(DLC-1) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y238] Serine/threonine-protein phosphatase 2A regulatory subunit B" subunit gamma (Protein phosphatase subunit G5PR)(Rhabdomyosarcoma antigen MU-RMS-40.6A)(Rhabdomyosarcoma antigen Mu-RMS-40.6C) [Source:UniProtKB/Swiss-Prot;Acc:Q969Q6]
2099	1	1	1	1	1	1	0	ENSP00000261475	PPP2R3C	gij 156547127 ref XP_001602978.1	GB10687-PA	Sortilin-related receptor Precursor (Sorting protein-related receptor containing LDLR class A repeats)(SorLA)(SorLA-1)(Low-density lipoprotein receptor relative with 11 ligand-binding repeats)(LDLR relative with 11 ligand-binding repeats)(LR11) [Source:UniProtKB/Swiss-Prot;Acc:Q92673]
103	1	1	1	1	1	1	0	ENSP00000260197	SORL1	gij 156538441 ref XP_001606252.1	GB16556-PA	Zinc finger CCHC domain-containing protein 24 [Source:UniProtKB/Swiss-Prot;Acc:Q8N2G6]
7386	1	0	0	1	1	1	0	ENSP00000361411	ZCCHC24	gij 156542895 ref XP_001601055.1	GB18745-PA	Mediator of RNA polymerase II transcription subunit 21 (Mediator complex subunit 21)(RNA polymerase II holoenzyme component SRB7)(RNAPII complex component SRB7)(hSrb7) [Source:UniProtKB/Swiss-Prot;Acc:Q13503]
9283	1	1	1	1	1	1	0	ENSP00000282892	MED21	gij 156543346 ref XP_001607813.1	GB17156-PA	Pentatricopeptide repeat-containing protein 2 [Source:UniProtKB/Swiss-Prot;Acc:Q8WV60]
8424	1	1	1	1	1	1	0	ENSP00000370013	PTCD2	gij 156547942 ref XP_001604675.1	GB10176-PA	Protein BRE (Brain and reproductive organ-expressed protein)(BRCA1/BRCA2-containing complex subunit 45) [Source:UniProtKB/Swiss-Prot;Acc:Q9NXR7]
9541	1	1	0	1	1	1	0	ENSP00000368953	BRE	gij 156538911 ref XP_001601059.1	GB14281-PA	cAMP-dependent protein kinase inhibitor alpha (cAMP-dependent protein kinase inhibitor, muscle/brain isoform)(PKI-alpha) [Source:UniProtKB/Swiss-Prot;Acc:P61925]
11430	2	1	1	1	1	1	0	ENSP00000336552	PKIA	Icl hmm360104	GB15380-PA	Oxidative stress-induced growth inhibitor 1 (Pregnancy-induced growth inhibitor OKL38)(Ovary, kidney and liver protein 38)(huOKL38) [Source:UniProtKB/Swiss-Prot;Acc:Q9UJX0]
4044	2	1	1	1	1	2	0	ENSP00000343376	OSGIN1	gij 156550093 ref XP_001605628.1	GB12425-PA	

8090	1	1	0	0	1	0	0	ENSP00000351619	PBLD	Icl hmm20944		Phenazine biosynthesis-like domain-containing protein (EC 5.1.-.)(MAWD-binding protein)(Unknown protein 32 from 2D-page of liver tissue) [Source:UniProtKB/Swiss-Prot;Acc:P30039]
2688	1	1	1	1	1	1	0	ENSP00000264499	BBS7	gij156551998 ref XP_001603197.1	GB18131-PA	Bardet-Biedl syndrome 7 protein (BBS2-like protein 1) [Source:UniProtKB/Swiss-Prot;Acc:Q8IWZ6]
10779	1	1	0	0	1	0	0	ENSP00000216756	0	gij156546821 ref XP_001606176.1		Cyclin-dependent kinase 2-interacting protein [Source:UniProtKB/Swiss-Prot;Acc:Q9BW66]
5276	1	1	0	1	1	0	0	ENSP00000155674	CECR5	gij156540059 ref XP_001599613.1	GB19864-PA	Cat eye syndrome critical region protein 5 Precursor [Source:UniProtKB/Swiss-Prot;Acc:Q9BXW7]
9804	1	0	1	1	1	1	0	ENSP00000309830	RPL38	gij156544536 ref XP_001607713.1	GB14397-PA	60S ribosomal protein L38 [Source:UniProtKB/Swiss-Prot;Acc:P63173]
276	1	1	1	2	1	1	0	ENSP00000340375	C1orf84	gij156554495 ref XP_001604865.1	GB15663-PA	Uncharacterized protein C1orf84 [Source:UniProtKB/Swiss-Prot;Acc:Q8NAY9]
6380	1	1	1	1	1	1	0	ENSP00000308316		gij156542044 ref XP_001601329.1	GB13843-PA	
3515	1	1	0	1	1	1	0	ENSP00000228799	ITFG2	gij156554980 ref XP_001602607.1	GB16530-PA	Integrin-alpha FG-GAP repeat-containing protein 2 [Source:UniProtKB/Swiss-Prot;Acc:Q969R8]
5361	1	1	0	1	1	1	0	ENSP00000281141	CDC123	gij156550406 ref XP_001599958.1	GB12989-PA	Cell division cycle protein 123 homolog (Protein D123)(HT-1080)(PZ32) [Source:UniProtKB/Swiss-Prot;Acc:O75794]
450	1	1	1	1	3	1	0	ENSP00000185162	PSME4	gij156543136 ref XP_001605678.1	GB17067-PA	Proteasome activator complex subunit 4 (Proteasome activator PA200) [Source:UniProtKB/Swiss-Prot;Acc:Q14997]
5301	4	3	1	1	1	1	0	ENSP00000360454	ENPP4	gij156550253 ref XP_001602371.1	GB15187-PA	Ectonucleotide pyrophosphatase/phosphodiesterase family member 4 Precursor (E-NPP4)(NPP-4)(EC 3.1.-.-) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y6X5]
10456	13	1	1	0	1	0	0	ENSP00000369776	0	gij156542383 ref XP_001600752.1		Putative WBSCR19-like protein 4 [Source:UniProtKB/Swiss-Prot;Acc:Q3ZCS2]
5740	1	1	0	1	1	0	0	ENSP00000373593		gij156537690 ref XP_001607905.1	GB12165-PA	
9363	1	0	1	1	1	0	0	ENSP00000291577	C21orf33	gij156537560 ref XP_001607623.1	GB14440-PA	ES1 protein homolog, mitochondrial Precursor (Protein KNP-1)(Protein GT335) [Source:UniProtKB/Swiss-Prot;Acc:P30042]
8162	1	0	1	1	1	0	0	ENSP00000260246	C11orf70	gij156548456 ref XP_001605128.1	GB19146-PA	Uncharacterized protein C11orf70 [Source:UniProtKB/Swiss-Prot;Acc:Q9BRQ4]
9376	2	1	1	2	1	1	0	ENSP00000331298	FAM100B	gij156538403 ref XP_001605749.1	GB15800-PA	Protein FAM100B [Source:UniProtKB/Swiss-

5853	1	1	0	1	1	1	0	ENSP00000296666	PRRC1	gij156550528 ref XP_001602431.1	GB12995-PA	Prot;Acc:Q8IYN6] Protein PPRC1 [Source:UniProtKB/Swiss-Prot;Acc:Q96M27]
8705	1	1	1	1	1	1	0	ENSP00000253789	PSMC3IP	gij156554142 ref XP_001599231.1	GB14884-PA	Homologous-pairing protein 2 homolog (Proteasome 26S ATPase subunit 3-interacting protein)(PSMC3-interacting protein)(Tat-binding protein 1-interacting protein)(TBP-1-interacting protein)(Nuclear receptor coactivator GT198) [Source:UniProtKB/Swiss-Prot;Acc:Q9P2W1]
5704	3	1	0	1	1	1	0	ENSP00000347649	0	gij156538663 ref XP_001607724.1	GB16476-PA	Synaptonemal complex protein SC65 (Nucleolar autoantigen No55) [Source:UniProtKB/Swiss-Prot;Acc:Q92791]
11032	1	0	0	1	1	1	0	ENSP00000282120	TGOLN2	gij156545374 ref XP_001606258.1	GB12325-PA	Trans-Golgi network integral membrane protein 2 Precursor (Trans-Golgi network protein TGN51)(TGN46)(TGN48)(TGN38 homolog) [Source:UniProtKB/Swiss-Prot;Acc:O43493]
7351	1	1	1	1	1	1	0	ENSP00000297632	TMEM65	gij156552525 ref XP_001599373.1	GB14088-PA	Transmembrane protein 65 [Source:UniProtKB/Swiss-Prot;Acc:Q6PI78]
5092	1	1	1	1	1	1	0	ENSP00000362273	ADPRHL2	gij156549146 ref XP_001607700.1	GB12677-PA	Poly(ADP-ribose) glycohydrolase ARH3 (EC 3.2.1.143)(ADP-ribosylhydrolase 3)([Protein ADP-ribosylarginine] hydrolase-like protein 2) [Source:UniProtKB/Swiss-Prot;Acc:Q9NX46]
5787	1	1	1	1	1	1	0	ENSP00000370316	GPR143	lcl hmm219254	GB19170-PA	G-protein coupled receptor 143 (Ocular albinism type 1 protein) [Source:UniProtKB/Swiss-Prot;Acc:P51810]
11007	1	0	0	0	1	0	0	ENSP00000342015	COX19	gij156544019 ref XP_001608061.1		Cytochrome c oxidase assembly protein COX19 (hCOX19) [Source:UniProtKB/Swiss-Prot;Acc:Q49B96]
6596	2	1	1	1	1	1	0	ENSP00000358886	ATXN7L2	lcl hmm855174	GB12221-PA	Ataxin-7-like protein 2 [Source:UniProtKB/Swiss-Prot;Acc:Q5T6C5]
2853	1	27	0	1	1	1	0	ENSP00000328187	FBXO21	gij156546078 ref XP_001601019.1	GB10738-PA	F-box only protein 21 [Source:UniProtKB/Swiss-Prot;Acc:O94952]
11111	1	1	0	1	1	1	0	ENSP00000204307	NDUFB2	gij156551027 ref XP_001602083.1	GB16200-PA	NADH dehydrogenase [ubiquinone] 1 beta subcomplex subunit 2, mitochondrial Precursor (NADH-ubiquinone oxidoreductase AGGG subunit)(Complex I-AGGG)(CI-AGGG) [Source:UniProtKB/Swiss-Prot;Acc:O95178]
4954	1	0	0	1	1	0	0	ENSP00000321539	C6orf170	lcl hmm342774	GB15654-PA	Transmembrane protein C6orf170 [Source:UniProtKB/Swiss-Prot;Acc:Q96NH3]

9341	1	1	0	1	1	1	0	ENSP00000325398	TPRKB	gij156548066 ref XP_001606178.1	GB11680-PA	TP53RK-binding protein (PRPK-binding protein) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y3C4]
4965	1	1	1	1	4	1	0	ENSP00000272418	MRPS5	lcl hmm202794	GB11718-PA	28S ribosomal protein S5, mitochondrial (S5mt)(MRP-S5) [Source:UniProtKB/Swiss-Prot;Acc:P82675]
855	3	1	1	1	1	1	0	ENSP00000320968	AMOTL1	gij156552061 ref XP_001604499.1	GB30477-PA	Angiomotin-like protein 1 [Source:UniProtKB/Swiss-Prot;Acc:Q8IY63]
10391	1	1	0	1	3	1	0	ENSP00000368941		gij156545156 ref XP_001602949.1	GB10273-PA	
10210	1	1	1	1	1	0	0	ENSP00000355574	C1orf31	gij156541242 ref XP_001601428.1	GB30108-PA	Uncharacterized protein C1orf31 [Source:UniProtKB/Swiss-Prot;Acc:Q5JTJ3]
11898	1	0	0	0	18	0	0	ENSP00000206466	0	gij156540870 ref XP_001600443.1		K1305_HUMAN Isoform 2 of Q9P2P1 - Homo sapiens (Human) [Source:UniprotKB/SpliceVariant;Acc:Q9P2P1-2]
11107	2	1	1	1	1	1	0	ENSP00000296121	KIAA1143	gij15655368 ref XP_001605048.1	GB15297-PA	Uncharacterized protein KIAA1143 [Source:UniProtKB/Swiss-Prot;Acc:Q96AT1]
6294	1	0	1	1	1	1	0	ENSP00000373657	C17orf85	gij156543162 ref XP_001605907.1	GB19227-PA	Uncharacterized protein C17orf85 (Protein ELG) [Source:UniProtKB/Swiss-Prot;Acc:Q53F19]
2625	1	1	1	1	1	1	0	ENSP00000216080	LMF2	gij156551350 ref XP_001602516.1	GB19750-PA	Lipase maturation factor 2 (Transmembrane protein 112B)(Transmembrane protein 153) [Source:UniProtKB/Swiss-Prot;Acc:Q9BU23]
289	3	1	1	1	1	0	0	ENSP00000274364	IQGAP2	gij156555179 ref XP_001603513.1	GB12265-PA	Ras GTPase-activating-like protein IQGAP2 [Source:UniProtKB/Swiss-Prot;Acc:Q13576]
7527	2	1	1	1	1	1	0	ENSP00000262817	TMEM59L	lcl hmm138764	GB18603-PA	Transmembrane protein 59-like Precursor (Brain-specific membrane-anchored protein) [Source:UniProtKB/Swiss-Prot;Acc:Q9UK28]
7837	2	1	0	1	1	1	0	ENSP00000331718	CAV3	gij156538022 ref XP_001599609.1	GB12638-PA	Caveolin-3 (M-caveolin) [Source:UniProtKB/Swiss-Prot;Acc:P56539]
10678	1	1	1	0	1	1	0	ENSP00000281950	GEMIN6	gij156543489 ref XP_001601860.1		Gem-associated protein 6 (Gemin-6)(SIP2) [Source:UniProtKB/Swiss-Prot;Acc:Q8WXD5]
6295	5	1	1	1	3	1	0	ENSP00000292853	FBXO27	gij156541483 ref XP_001600314.1	GB13415-PA	F-box only protein 27 (F-box/G-domain protein 5) [Source:UniProtKB/Swiss-Prot;Acc:Q8NI29]
9175	1	1	1	1	1	0	0	ENSP00000372482	SNRNP25	gij156545358 ref XP_001606078.1	GB17387-PA	U11/U12 small nuclear ribonucleoprotein 25 kDa protein (U11/U12 snRNP 25 kDa protein)(U11/U12-25K)(Minus-99 protein) [Source:UniProtKB/Swiss-Prot;Acc:Q9BV90]
11473	1	0	0	0	1	0	0	ENSP00000349923	LAGE3	gij156554579 ref XP_001601948.1		L antigen family member 3 (Protein ITBA2)(Protein ESO-3)

													[Source:UniProtKB/Swiss-Prot;Acc:Q14657]
9010	1	1	0	1	1	0	0	ENSP00000348527	CENPL	gij156544746 ref XP_001605964.1	GB13804-PA	Centromere protein L (CENP-L)(Interphase centromere complex protein 33)	[Source:UniProtKB/Swiss-Prot;Acc:Q8N0S6]
11175	1	0	0	1	1	0	0	ENSP00000363360	C9orf80	gij156538717 ref XP_001607825.1	GB17966-PA	Uncharacterized protein C9orf80	[Source:UniProtKB/Swiss-Prot;Acc:Q9NRY2]
898	2	1	0	1	1	1	0	ENSP00000369572		gij156550510 ref XP_001602057.1	GB14246-PA		
6167	2	1	1	1	7	2	0	ENSP00000356526	NPL	lcl hmm528924	GB17289-PA	N-acetylneuraminate lyase (NALase)(EC 4.1.3.3)(N-acetylneuraminic acid aldolase)(N-acetylneuraminate pyruvate-lyase)(Sialic acid lyase)(Sialate lyase)(Sialate-pyruvate lyase)(Sialic acid aldolase)	[Source:UniProtKB/Swiss-Prot;Acc:Q9BXD5]
10161	1	1	1	0	1	1	0	ENSP00000355753	C1orf95	gij156555065 ref XP_001604078.1		Uncharacterized membrane protein C1orf95	[Source:UniProtKB/Swiss-Prot;Acc:Q69YW2]
3688	1	1	1	3	1	1	0	ENSP00000220763	0	gij156548648 ref XP_001601839.1	GB10860-PA	Plasma glutamate carboxypeptidase Precursor (EC 3.4.17.-)	[Source:UniProtKB/Swiss-Prot;Acc:Q9Y646]
540	2	1	1	1	1	1	0	ENSP00000301819	TTC21A	gij156550412 ref XP_001600082.1	GB10762-PA	Tetratricopeptide repeat protein 21A (TPR repeat protein 21A)(Stress-inducible protein 2)	[Source:UniProtKB/Swiss-Prot;Acc:Q8NDW8]
1373	1	1	1	1	1	1	0	ENSP00000262294	TRIM37	gij156545255 ref XP_001604793.1	GB18563-PA	Tripartite motif-containing protein 37 (Mulibrey nanism protein)	[Source:UniProtKB/Swiss-Prot;Acc:Q94972]
1216	1	1	1	1	1	1	0	ENSP00000318641	INTS3	gij156552553 ref XP_001599283.1	GB10488-PA	Integrator complex subunit 3 (Int3)	[Source:UniProtKB/Swiss-Prot;Acc:Q68E01]
5865	1	1	1	1	1	1	0	ENSP00000318604	MAF1	gij156545034 ref XP_001600371.1	GB10178-PA	Repressor of RNA polymerase III transcription MAF1 homolog	[Source:UniProtKB/Swiss-Prot;Acc:Q9H063]
1327	1	0	1	1	1	1	0	ENSP00000326921	ZFYVE1	gij156551702 ref XP_001602132.1	GB12334-PA	Zinc finger FYVE domain-containing protein 1 (Double FYVE-containing protein 1)(Tandem FYVE fingers-1)(SR3)	[Source:UniProtKB/Swiss-Prot;Acc:Q9HBF4]
2759	1	1	1	1	1	1	0	ENSP00000303928	KIAA0232	gij156538295 ref XP_001603647.1	GB14152-PB	Uncharacterized protein KIAA0232	[Source:UniProtKB/Swiss-Prot;Acc:Q92628]
7632	2	1	1	1	1	1	0	ENSP00000359819	MOSPD1	gij156550707 ref XP_001605788.1	GB10407-PA	Motile sperm domain-containing protein 1	[Source:UniProtKB/Swiss-Prot;Acc:Q9UJG1]

10031	2	0	0	1	1	1	0	ENSP00000344215	TP53INP1	lcl hmm736814	GB16701-PA	Tumor protein p53-inducible nuclear protein 1 (p53-dependent damage-inducible nuclear protein 1)(p53DINP1)(Stress-induced protein) [Source:UniProtKB/Swiss-Prot;Acc:Q96A56]
11493	1	0	0	0	1	0	0	ENSP00000285116	C18orf24	gij 156541574 ref XP_001599814.1		Spindle and kinetochore-associated protein 1 [Source:UniProtKB/Swiss-Prot;Acc:Q96BD8]
8682	2	0	1	1	1	0	0	ENSP00000295493	FAM175A	lcl hmm502624	GB13867-PA	Protein FAM175A (Coiled-coil domain-containing protein 98) [Source:UniProtKB/Swiss-Prot;Acc:Q6UWZ7]
3271	2	1	1	1	1	1	0	ENSP00000301694	NARFL	gij 156545553 ref XP_001605725.1	GB14880-PA	Nuclear prelamin A recognition factor-like protein (Protein related to Narf)(Iron-only hydrogenase-like protein 1)(IOP1) [Source:UniProtKB/Swiss-Prot;Acc:Q9H6Q4]
9373	1	2	0	1	1	1	0	ENSP00000349148	NUDT1	gij 156549628 ref XP_001604070.1	GB18817-PA	7,8-dihydro-8-oxoguanine triphosphatase (EC 3.1.6.)(8-oxo-dGTPase)(Nucleoside diphosphate-linked moiety X motif 1)(Nudix motif 1) [Source:UniProtKB/Swiss-Prot;Acc:P36639]
7049	1	1	0	1	2	1	0	ENSP00000311486	C12orf66	lcl hmm396884	GB18837-PA	UPF0536 protein C12orf66 [Source:UniProtKB/Swiss-Prot;Acc:Q96MD2]
7403	2	1	1	1	1	1	0	ENSP00000349929	SDCCAG3	gij 156542626 ref XP_001604640.1	GB16877-PA	Serologically defined colon cancer antigen 3 (Antigen NY-CO-3) [Source:UniProtKB/Swiss-Prot;Acc:Q96C92]
9091	1	1	0	1	1	1	0	ENSP00000285697	C16orf87	gij 156549216 ref XP_001600922.1	GB10775-PA	UPF0547 protein C16orf87 [Source:UniProtKB/Swiss-Prot;Acc:Q6PH81]
9235	1	1	1	1	1	1	0	ENSP00000282032	C11orf46	gij 156542701 ref XP_001603286.1	GB18943-PA	Uncharacterized protein C11orf46 [Source:UniProtKB/Swiss-Prot;Acc:Q8N8R7]
11157	1	0	0	1	1	1	0	ENSP00000296333	PIGX	gij 156544339 ref XP_001607308.1	GB11139-PA	Phosphatidylinositol-glycan biosynthesis class X protein Precursor (PIG-X) [Source:UniProtKB/Swiss-Prot;Acc:Q8TBF5]
10671	6	2	1	1	2	0	0	ENSP00000314910	DKK3	gij 156554669 ref XP_001605660.1	GB10334-PA	Dickkopf-related protein 3 Precursor (Dickkopf-3)(Dkk-3)(hDkk-3) [Source:UniProtKB/Swiss-Prot;Acc:Q9UBP4]
5126	1	1	0	1	1	1	0	ENSP00000361219	GTF3C4	lcl hmm860274	GB30324-PA	General transcription factor 3C polypeptide 4 (EC 2.3.1.48)(Transcription factor IIIC subunit delta)(TF3C-delta)(TFIIIC 90 kDa subunit)(TFIIIC 90) [Source:UniProtKB/Swiss-Prot;Acc:Q9UKN8]
383	1	1	0	1	1	0	0	ENSP00000355536	0	lcl hmm266204	GB14131-PA	MTR protein Fragment [Source:UniProtKB/TrEMBL;Acc:Q96B84]

5026	1	2	0	1	4	5	0	ENSP00000267568	PTGR2	gij156549977 ref XP_001603755.1	GB17125-PA	Prostaglandin reductase 2 (PRG-2)(EC 1.3.1.48)(15-oxoprostaglandin 13-reductase)(Zinc-binding alcohol dehydrogenase domain-containing protein 1) [Source:UniProtKB/Swiss-Prot;Acc:Q8N8N7]
6504	1	1	1	1	1	1	0	ENSP00000347433	APCDD1	lcl hmm668214	GB19320-PA	Protein APCDD1 Precursor (Adenomatous polyposis coli down-regulated 1 protein) [Source:UniProtKB/Swiss-Prot;Acc:Q8J025]
3575	1	1	1	1	1	1	0	ENSP00000347583	C19orf28	gij156544662 ref XP_001605086.1	GB13971-PA	Uncharacterized MFS-type transporter C19orf28 [Source:UniProtKB/Swiss-Prot;Acc:Q6NUT3]
10874	1	0	1	1	2	0	0	ENSP00000369257	RPGRIP1L	lcl hmm40564	GB18807-PA	Protein fantom (RPGR-interacting protein 1-like protein)(RPGRIP1-like protein) [Source:UniProtKB/Swiss-Prot;Acc:Q68CZ1]
8120	1	1	1	1	1	0	0	ENSP00000263655	CNRIP1	gij156537522 ref XP_001607470.1	GB13357-PA	CB1 cannabinoid receptor-interacting protein 1 (CRIP-1) [Source:UniProtKB/Swiss-Prot;Acc:Q96F85]
3903	1	1	2	1	1	1	0	ENSP00000310493	DAK	gij156545523 ref XP_001607196.1	GB13058-PA	Dihydroxyacetone kinase (DHA kinase)(EC 2.7.1.29)(Glycerone kinase) [Source:UniProtKB/Swiss-Prot;Acc:Q3LXA3]
978	1	1	1	1	1	1	0	ENSP00000253693	CAPN7	gij156545277 ref XP_001605193.1	GB19619-PA	Calpain-7 (EC 3.4.22.-)(PalB homolog)(PalBH) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y6W3]
2773	2	1	1	1	1	1	0	ENSP00000276893	UHRF2	gij156545123 ref XP_001602205.1	GB16860-PA	E3 ubiquitin-protein ligase UHRF2 (EC 6.3.2.-)(Ubiquitin-like PHD and RING finger domain-containing protein 2)(Ubiquitin-like-containing PHD and RING finger domains protein 2)(Np95/ICBP90-like RING finger protein)(Np95-like RING finger protein)(Nuclear zinc finger protein Np97)(RING finger protein 107) [Source:UniProtKB/Swiss-Prot;Acc:Q96PU4]
122	2	1	1	1	1	1	0	ENSP00000348349	MYO9A	gij156548458 ref XP_001605165.1	GB13249-PA	Myosin-Ixa (Unconventional myosin-9a) [Source:UniProtKB/Swiss-Prot;Acc:B2RTY4]
4729	2	0	1	1	1	1	0	ENSP00000359980		gij156550297 ref XP_001603274.1	GB13338-PA	
6750	1	1	2	1	1	0	0	ENSP00000344779	RHBDD1	lcl hmm224144	GB13403-PA	Rhomboid domain-containing protein 1 (EC 3.4.21.-) [Source:UniProtKB/Swiss-Prot;Acc:Q8TEB9]
2740	2	2	1	1	1	2	0	ENSP00000264852	SIDT1	gij156554659 ref XP_001605484.1	GB14331-PA	SID1 transmembrane family member 1 Precursor [Source:UniProtKB/Swiss-Prot;Acc:Q9NXL6]

7826	2	1	0	1	1	0	0	ENSP00000319009	TMEM45A	gij156552386 ref XP_001602779.1	GB10755-PA	Transmembrane protein 45A (DNA polymerase-transactivated protein 4)(Dermal papilla-derived protein 7) [Source:UniProtKB/Swiss-Prot;Acc:Q9NWC5]
7189	3	1	1	1	1	1	0	ENSP00000349215		gij156552400 ref XP_001600472.1	GB16952-PA	
9951	2	1	0	0	1	2	0	ENSP00000369647	AVP	gij156543816 ref XP_001606547.1		Vasopressin-neurophysin 2-copeptin Precursor (AVP-NPII) [Contains Arg-vasopressin;Neurophysin 2(Neurophysin-II);Copeptin] [Source:UniProtKB/Swiss-Prot;Acc:P01185]
10619	1	1	1	0	1	1	0	ENSP00000342889	POLR2K	gij156540278 ref XP_001599352.1		DNA-directed RNA polymerases I, II, and III subunit RPABC4 (RNA polymerases I, II, and III subunit ABC4)(DNA-directed RNA polymerase II subunit K)(RPB10alpha)(DNA-directed RNA polymerases I, II, and III 7.0 kDa polypeptide)(RPB7.0)(ABC10-alpha) [Source:UniProtKB/Swiss-Prot;Acc:P53803]
10951	1	1	0	0	1	0	0	ENSP00000353971	C8orf41	lcl hmm192174		Uncharacterized protein C8orf41 [Source:UniProtKB/Swiss-Prot;Acc:Q6NXR4]
7137	1	0	0	1	1	0	0	ENSP00000348523	CDC47L	gij156541652 ref XP_001602151.1	GB15370-PA	Cell division cycle-associated 7-like protein (Protein JPO2)(Transcription factor RAM2) [Source:UniProtKB/Swiss-Prot;Acc:Q96GN5]
11574	2	0	0	0	1	1	0	ENSP00000195656	LYRM2	gij156548170 ref XP_001606901.1		LYR motif-containing protein 2 [Source:UniProtKB/Swiss-Prot;Acc:Q9NU23]
9508	1	1	1	1	1	1	0	ENSP00000368979		gij156544512 ref XP_001606186.1	GB10591-PA	
4041	1	1	1	1	1	0	0	ENSP00000347748	GPR175	gij156542590 ref XP_001604004.1	GB15386-PA	Integral membrane protein GPR175 [Source:UniProtKB/Swiss-Prot;Acc:Q86W33]
2977	3	1	2	2	1	2	0	ENSP00000262675	TTC39A	gij156547921 ref XP_001604359.1	GB14199-PA	Tetratricopeptide repeat protein 39A (TPR repeat protein 39A)(Differentially expressed in MCF7 with estradiol protein 6)(DEME-6) [Source:UniProtKB/Swiss-Prot;Acc:Q5SRH9]
9869	2	2	1	1	1	0	0	ENSP00000358320	POLR3GL	gij156549113 ref XP_001607617.1	GB11733-PA	DNA-directed RNA polymerase III subunit RPC7-like (RNA polymerase III subunit C7-like)(DNA-directed RNA polymerase III subunit G-like) [Source:UniProtKB/Swiss-Prot;Acc:Q9BT43]
5620	2	1	1	1	1	1	0	ENSP00000349071		gij156539889 ref XP_001600861.1	GB16372-PA	
584	1	1	1	2	2	0	0	ENSP00000352516	DNMT1	gij156541588 ref XP_001600175.1	GB15130-PA	DNA (cytosine-5)-methyltransferase 1 (Dnmt1)(EC 2.1.1.37)(MCMT)(DNA methyltransferase Hsal)(DNA MTase Hsal)(M.Hsal)(CXXC-type zinc finger protein

9) [Source:UniProtKB/Swiss-Prot;Acc:P26358]

1287	1	1	1	1	1	1	0	ENSP00000256858	KIAA1468	gij156555664 ref XP_001603957.1	GB12520-PA	LisH domain and HEAT repeat-containing protein KIAA1468 [Source:UniProtKB/Swiss-Prot;Acc:Q9P260]
4141	1	1	1	1	1	1	0	ENSP00000204566	SPG21	gij156549766 ref XP_001606216.1	GB18983-PA	Maspardin (Spastic paraplegia 21 autosomal recessive Mast syndrome protein)(Acid cluster protein 33) [Source:UniProtKB/Swiss-Prot;Acc:Q9NZD8]
8336	1	1	1	1	1	0	0	ENSP00000342254	C15orf61	gij156548842 ref XP_001605715.1	GB19834-PA	Uncharacterized protein C15orf61 Precursor [Source:UniProtKB/Swiss-Prot;Acc:A6NNL5]
2588	2	1	1	1	1	1	0	ENSP00000349978	NXN	gij156544401 ref XP_001607483.1	GB13462-PA	Nucleoredoxin (EC 1.8.1.8) [Source:UniProtKB/Swiss-Prot;Acc:Q6DKJ4]
6977	1	1	1	1	1	0	0	ENSP00000354553	C1orf85	gij156550047 ref XP_001605131.1	GB11270-PA	Uncharacterized protein C1orf85 Precursor [Source:UniProtKB/Swiss-Prot;Acc:Q8WWB7]
10769	1	0	0	1	1	1	0	ENSP00000256441	MRPS36	gij156544506 ref XP_001605248.1	GB12057-PA	28S ribosomal protein S36, mitochondrial (S36mt)(MRP-S36) [Source:UniProtKB/Swiss-Prot;Acc:P82909]
7878	1	0	1	1	1	1	0	ENSP00000373948	C7orf63	gij156555750 ref XP_001602412.1	GB30079-PA	Uncharacterized protein C7orf63 [Source:UniProtKB/Swiss-Prot;Acc:A5D8W1]
10233	1	0	1	1	1	0	0	ENSP00000297203	C7orf62	gij156543473 ref XP_001601590.1	GB19991-PA	Uncharacterized protein C7orf62 [Source:UniProtKB/Swiss-Prot;Acc:Q8TBZ9]
9123	1	1	1	1	1	0	0	ENSP00000351786		gij156545356 ref XP_001606065.1	GB13392-PA	
9727	1	0	0	1	1	0	0	ENSP00000373479	SEPP1	lcl hmm390774	GB18803-PA	Selenoprotein P Precursor (SeP) [Source:UniProtKB/Swiss-Prot;Acc:P49908]
6358	1	1	1	1	1	1	0	ENSP00000318024	FAM82B	gij156546322 ref XP_001606351.1	GB17462-PA	Regulator of microtubule dynamics protein 1 (RMD-1)(hRMD-1)(Protein FAM82B) [Source:UniProtKB/Swiss-Prot;Acc:Q96DB5]
7494	1	0	1	1	1	1	0	ENSP00000263773	FNBP4	gij156553502 ref XP_001600758.1	GB14016-PA	Formin-binding protein 4 (Formin-binding protein 30) [Source:UniProtKB/Swiss-Prot;Acc:Q8N3X1]
10300	1	1	1	1	1	1	0	ENSP00000265260	PCNP	gij156542805 ref XP_001607576.1	GB19611-PA	PEST proteolytic signal-containing nuclear protein (PEST-containing nuclear protein)(PCNP) [Source:UniProtKB/Swiss-Prot;Acc:Q8WW12]
8600	1	1	1	1	1	0	0	ENSP00000263681	POLD3	gij156541980 ref XP_001599516.1	GB18289-PA	DNA polymerase delta subunit 3 (DNA polymerase delta subunit p66) [Source:UniProtKB/Swiss-Prot;Acc:Q15054]

5528	1	1	1	1	1	1	0	ENSP00000364011	CCDC40	gij156545531 ref XP_001607230.1	GB13336-PA	Coiled-coil domain-containing protein 40 [Source:UniProtKB/Swiss-Prot;Acc:Q4G0X9]
6207	1	1	1	0	1	1	0	ENSP00000268719	C17orf39	gij156555095 ref XP_001604415.1		Uncharacterized protein C17orf39 [Source:UniProtKB/Swiss-Prot;Acc:Q8IVV7]
9287	1	1	0	0	1	0	0	ENSP00000228345	RAD52	lcl hmm186924		DNA repair protein RAD52 homolog [Source:UniProtKB/Swiss-Prot;Acc:P43351]
4012	2	1	1	1	1	1	0	ENSP00000315137	SGPP2	gij156550121 ref XP_001605890.1	GB10126-PA	Sphingosine-1-phosphate phosphatase 2 (SPPase2)(Spp2)(Sphingosine-1-phosphatase 2)(hSPP2)(EC 3.1.3.-) [Source:UniProtKB/Swiss-Prot;Acc:Q8IWX5]
9477	1	1	1	1	1	0	0	ENSP00000276569	ARMC1	lcl hmm333014	GB18050-PA	Armadillo repeat-containing protein 1 [Source:UniProtKB/Swiss-Prot;Acc:Q9NVT9]
583	1	0	0	1	2	1	0	ENSP00000341942	ATP13A5	gij156540854 ref XP_001601963.1	GB14481-PA	Probable cation-transporting ATPase 13A5 (EC 3.6.3.-)(P5-ATPase isoform 5) [Source:UniProtKB/Swiss-Prot;Acc:Q4VNC0]
9459	1	2	0	1	1	0	0	ENSP00000365550	GKAP1	gij156539593 ref XP_001599760.1	GB19992-PA	G kinase-anchoring protein 1 (cGMP- dependent protein kinase-anchoring protein of 42 kDa) [Source:UniProtKB/Swiss- Prot;Acc:Q5VSY0]
7115	1	1	1	1	1	1	0	ENSP00000296441	CCDC51	lcl hmm71144	GB15997-PA	Coiled-coil domain-containing protein 51 [Source:UniProtKB/Swiss-Prot;Acc:Q96ER9]
11091	2	0	0	1	1	0	0	ENSP00000363322	CDC26	gij156538370 ref XP_001605188.1	GB30521-PA	Anaphase-promoting complex subunit CDC26 (Cell division cycle protein 26 homolog) [Source:UniProtKB/Swiss-Prot;Acc:Q8NHZ8]
2578	1	0	1	1	1	1	0	ENSP00000313346	ENOSF1	gij156538499 ref XP_001607023.1	GB10793-PA	Mitochondrial enolase superfamily member 1 (Antisense RNA to thymidylate synthase)(rTS) [Source:UniProtKB/Swiss-Prot;Acc:Q7L5Y1]
9593	1	1	0	0	1	1	0	ENSP00000333490	PRHOXNB	gij156550817 ref XP_001600870.1		Putative 2-oxo-4-hydroxy-4-carboxy-5- ureidoimidazole decarboxylase (OHCU decarboxylase)(EC 4.-.-)(Parahox neighbor) [Source:UniProtKB/Swiss-Prot;Acc:A6NGE7]
4592	1	1	0	2	1	1	0	ENSP00000341662	TMEM195	gij156552018 ref XP_001603646.1	GB12597-PA	Transmembrane protein 195 [Source:UniProtKB/Swiss-Prot;Acc:Q6ZNB7]
1390	1	1	1	1	1	1	0	ENSP00000287394	ATAD2	gij156555233 ref XP_001603905.1	GB16942-PA	ATPase family AAA domain-containing protein 2 [Source:UniProtKB/Swiss-Prot;Acc:Q6PL18]
5606	1	1	1	1	1	1	0	ENSP00000353698	C2orf24	lcl hmm50054	GB17269-PA	Uncharacterized protein C2orf24 [Source:UniProtKB/Swiss-Prot;Acc:Q9BV87]

5366	1	1	1	0	1	1	0	ENSP00000319979	B3GNTL1	gij156553865 ref XP_001600747.1		UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase-like protein 1 (Beta3Gn-T-like protein 1)(BGN-T-like protein 1)(Beta3GnTL1)(Beta1,3-N-acetylglucosaminyltransferase-like protein 1)(EC 2.4.1.-)(Beta3Gn-T8)(BGN-T-8) [Source:UniProtKB/Swiss-Prot;Acc:Q67FW5]
969	3	3	1	1	1	1	0	ENSP00000366275	CNNM4	gij156551509 ref XP_001605401.1	GB16205-PA	Metal transporter CNNM4 (Cyclin-M4)(Ancient conserved domain-containing protein 4) [Source:UniProtKB/Swiss-Prot;Acc:Q6P4Q7]
6644	1	0	1	1	1	1	0	ENSP00000325290	GSG2	gij156555442 ref XP_001605930.1	GB13461-PA	Serine/threonine-protein kinase haspin (EC 2.7.11.1)(Haploid germ cell-specific nuclear protein kinase)(H-haspin)(Germ cell-specific gene 2 protein) [Source:UniProtKB/Swiss-Prot;Acc:Q8TF76]
10801	1	1	0	0	1	1	0	ENSP00000355008	0	gij156542755 ref XP_001600851.1		Selenoprotein M Precursor (SelM) [Source:UniProtKB/Swiss-Prot;Acc:Q8WWX9]
8538	1	1	1	1	1	1	0	ENSP00000240488	MND1	gij156548482 ref XP_001605511.1	GB19139-PA	Meiotic nuclear division protein 1 homolog [Source:UniProtKB/Swiss-Prot;Acc:Q9BWT6]
8786	1	1	0	0	8	0	0	ENSP00000356850	POGK	lcl hmm36134		Pogo transposable element with KRAB domain [Source:UniProtKB/Swiss-Prot;Acc:Q9P215]
10092	1	1	1	0	1	0	0	ENSP00000362018	CENPI	gij156541550 ref XP_001604088.1		Centromere protein I (CENP-I)(Interphase centromere complex protein 19)(Follicle-stimulating hormone primary response protein)(FSH primary response protein 1)(Leucine-rich primary response protein 1) [Source:UniProtKB/Swiss-Prot;Acc:Q92674]
7387	1	1	1	0	1	0	0	ENSP00000351417	OMA1	gij156542534 ref XP_001599000.1		Metalloendopeptidase OMA1, mitochondrial Precursor (EC 3.4.24.-)(Metalloprotease-related protein 1)(MPRP-1) [Source:UniProtKB/Swiss-Prot;Acc:Q96E52]
378	1	1	1	1	1	0	0	ENSP00000281513	0	gij156548110 ref XP_001606503.1	GB17371-PA	Neuroblastoma-amplified gene protein [Source:UniProtKB/Swiss-Prot;Acc:A2RRP1]
8572	1	0	1	1	1	1	0	ENSP00000342641	LRRC27	lcl hmm283104	GB13682-PA	Leucine-rich repeat-containing protein 27 [Source:UniProtKB/Swiss-Prot;Acc:Q9C0I9]
4200	1	0	1	1	1	0	0	ENSP00000005279	AP1GBP1	lcl hmm1035024	GB16652-PA	AP1 subunit gamma-binding protein 1 (Gamma-synergin) [Source:UniProtKB/Swiss-Prot;Acc:Q9UMZ2]
7326	1	0	0	0	1	0	0	ENSP00000361000	LIPK	gij156552248 ref XP_001606528.1		Lipase member K Precursor (EC 3.1.1.-)(Lipase-like abhydrolase domain-containing

													protein 2) [Source:UniProtKB/Swiss-Prot;Acc:Q5VXJ0]
1913	3	1	1	1	1	1	0	ENSP00000243967	C20orf95	gij156538635 ref XP_001607660.1	GB11016-PA	Rho GTPase-activating protein 18-like [Source:UniProtKB/Swiss-Prot;Acc:Q5TG30]	
8892	1	1	1	1	1	1	0	ENSP00000368931	CCDC112	gij156555043 ref XP_001603680.1	GB11656-PA	Coiled-coil domain-containing protein 112 (Mutated in bladder cancer protein 1) [Source:UniProtKB/Swiss-Prot;Acc:Q8NEF3]	
7747	1	0	0	1	1	0	0	ENSP00000302085	RAB24	gij156555586 ref XP_001605175.1	GB10740-PA	Ras-related protein Rab-24 [Source:UniProtKB/Swiss-Prot;Acc:Q969Q5]	
3331	1	0	1	1	2	8	0	ENSP00000317842	CES2	gij156554345 ref XP_001603542.1	GB11064-PA	Carboxylesterase 2 Precursor (CE-2)(hCE-2)(EC 3.1.1.1) [Source:UniProtKB/Swiss-Prot;Acc:O00748]	
1471	1	0	1	1	1	1	0	ENSP00000283249	ITGB6	gij156538655 ref XP_001607704.1	GB12005-PA	Integrin beta-6 Precursor [Source:UniProtKB/Swiss-Prot;Acc:P18564]	
3169	4	0	1	1	1	1	0	ENSP00000340914	SYT3	gij156552505 ref XP_001602728.1	GB11288-PA	Synaptotagmin-3 (Synaptotagmin III)(SytlIII) [Source:UniProtKB/Swiss-Prot;Acc:Q9BQG1]	
6142	1	0	1	1	1	1	0	ENSP00000238856	AFTPH	lcl hmm180614	GB19736-PA	Aftphilin [Source:UniProtKB/Swiss-Prot;Acc:Q6ULP2]	
4976	2	1	1	1	1	1	0	ENSP00000275162	RLBP1L2	gij156553917 ref XP_001601854.1	GB10991-PA	Retinaldehyde-binding protein 1-like protein 2 [Source:UniProtKB/Swiss-Prot;Acc:Q5SYC1]	
2638	2	1	1	1	1	1	0	ENSP00000351981	SGMS2	gij156555247 ref XP_001604236.1	GB20079-PA	Phosphatidylcholine:ceramide cholinephosphotransferase 2 (EC 2.7.8.27)(Sphingomyelin synthase 2) [Source:UniProtKB/Swiss-Prot;Acc:Q8NHU3]	
9355	1	1	0	1	1	0	0	ENSP00000331369	BOLA3	gij156542317 ref XP_001599467.1	GB16636-PA	BolA-like protein 3 [Source:UniProtKB/Swiss-Prot;Acc:Q53S33]	
7591	1	0	0	0	1	1	0	ENSP00000286424	TMBIM4	gij156547974 ref XP_001605147.1		Transmembrane BAX inhibitor motif-containing protein 4 (Z-protein)(Protein S1R) [Source:UniProtKB/Swiss-Prot;Acc:Q9HC24]	
3881	2	1	1	2	1	1	0	ENSP00000334040	RSBN1L	gij156537942 ref XP_001608161.1	GB19221-PA	Round spermatid basic protein 1-like protein [Source:UniProtKB/Swiss-Prot;Acc:Q6PCB5]	
535	2	0	1	1	1	1	0	ENSP00000355155	GRIN3A	gij156537580 ref XP_001607685.1	GB19334-PA	Glutamate [NMDA] receptor subunit 3A Precursor (N-methyl-D-aspartate receptor subtype NR3A)(NMDAR-L) [Source:UniProtKB/Swiss-Prot;Acc:Q8TCU5]	
10215	1	6	1	1	1	1	0	ENSP00000362578	RNF8	lcl hmm302214	GB14186-PA	E3 ubiquitin-protein ligase RNF8 (EC 6.3.2.-)(RING finger protein 8) [Source:UniProtKB/Swiss-Prot;Acc:O76064]	

7087	1	0	24	2	2	16	0	ENSP00000373354	SETMAR	Icl hmm422794	GB18848-PA	Histone-lysine N-methyltransferase SETMAR (EC 2.1.1.43)(SET domain and mariner transposase fusion gene-containing protein)(Metnase)(Hsmar1) [Includes Histone-lysine N-methyltransferase;Mariner transposase Hsmar1] [Source:UniProtKB/Swiss-Prot;Acc:Q53H47]
3536	7	2	1	1	1	2	0	ENSP00000327246	VIPR1	gij 15655430 ref XP_001605780.1	GB10993-PA	Vasoactive intestinal polypeptide receptor 1 Precursor (VIP-R-1)(Pituitary adenylate cyclase-activating polypeptide type II receptor)(PACAP type II receptor)(PACAP-R-2) [Source:UniProtKB/Swiss-Prot;Acc:P32241]
10004	2	0	1	1	1	0	0	ENSP00000261369	SNX24	gij 156545535 ref XP_001607242.1	GB16203-PA	Sorting nexin-24 [Source:UniProtKB/Swiss-Prot;Acc:Q9Y343]
5930	2	1	0	1	1	1	0	ENSP00000348300	BTG4	gij 156544720 ref XP_001605736.1	GB16183-PA	Protein BTG4 (BTG family member 4)(Protein PC3b) [Source:UniProtKB/Swiss-Prot;Acc:Q9NY30]
8458	2	0	1	1	1	1	0	ENSP00000361036	LHFPL1	Icl hmm334344	GB13500-PA	Lipoma HMGIC fusion partner-like 1 protein Precursor [Source:UniProtKB/Swiss-Prot;Acc:Q86W10]
3578	1	5	1	1	1	1	0	ENSP00000372152	C21orf63	Icl hmm756344	GB15278-PA	Uncharacterized protein C21orf63 Precursor (SUE21) [Source:UniProtKB/Swiss-Prot;Acc:P58658]
5261	2	1	1	0	1	0	0	ENSP00000361275	PLK3	gij 156551766 ref XP_001602402.1		Serine/threonine-protein kinase PLK3 (EC 2.7.11.21)(Polo-like kinase 3)(PLK-3)(Cytokine-inducible serine/threonine-protein kinase)(FGF-inducible kinase)(Proliferation-related kinase) [Source:UniProtKB/Swiss-Prot;Acc:Q9H4B4]
8873	1	0	2	0	1	0	0	ENSP00000252134	0	gij 156547409 ref XP_001604380.1		Uncharacterized protein KIAA0819 [Source:UniProtKB/Swiss-Prot;Acc:O94909]
5164	1	1	0	1	1	1	0	ENSP00000349026		gij 156553312 ref XP_001599758.1	GB12963-PA	
7925	1	3	1	1	1	1	0	ENSP00000371407		Icl hmm230574	GB19752-PA	
1736	1	1	1	1	1	1	0	ENSP00000298215	SLC16A9	gij 156544836 ref XP_001606814.1	GB19547-PA	Monocarboxylate transporter 9 (MCT 9)(Solute carrier family 16 member 9) [Source:UniProtKB/Swiss-Prot;Acc:Q7RTY1]
7117	1	1	1	1	1	1	0	ENSP00000285243	ANKRD40	Icl hmm328844	GB12328-PA	Ankyrin repeat domain-containing protein 40 [Source:UniProtKB/Swiss-Prot;Acc:Q6AI12]

3073	1	1	1	1	1	1	0	ENSP00000216420	CGRRF1	gij156546492 ref XP_001607415.1	GB16054-PA	Cell growth regulator with RING finger domain protein 1 (Cell growth regulatory gene 19 protein)(RING finger protein 197) [Source:UniProtKB/Swiss-Prot;Acc:Q99675]
5923	1	1	0	0	1	0	0	ENSP00000255078	IGHMBP2	gij156545483 ref XP_001606966.1		DNA-binding protein SMUBP-2 (EC 3.6.1.-)(ATP-dependent helicase IGHMBP2)(Immunoglobulin mu-binding protein 2)(SMUBP-2)(Glial factor 1)(GF-1) [Source:UniProtKB/Swiss-Prot;Acc:P38935]
8028	2	1	0	1	1	1	0	ENSP00000367743	TSPAN7	gij156544163 ref XP_001606234.1	GB20150-PA	Tetraspanin-7 (Tspan-7)(Transmembrane 4 superfamily member 2)(Cell surface glycoprotein A15)(T-cell acute lymphoblastic leukemia-associated antigen 1)(TALLA-1)(Membrane component, X chromosome, surface marker 1)(CD231 antigen) [Source:UniProtKB/Swiss-Prot;Acc:P41732]
4170	2	1	0	1	1	0	0	ENSP00000275230	SLC2A12	gij156541266 ref XP_001601229.1	GB14222-PA	Solute carrier family 2, facilitated glucose transporter member 12 (Glucose transporter type 12)(GLUT-12) [Source:UniProtKB/Swiss-Prot;Acc:Q8TD20]
6214	3	1	0	0	1	1	0	ENSP00000356094	AVPR1B	gij156552858 ref XP_001600203.1		Vasopressin V1b receptor (AVPR V1b)(V1bR)(Vasopressin V3 receptor)(AVPR V3)(Antidiuretic hormone receptor 1b) [Source:UniProtKB/Swiss-Prot;Acc:P47901]
1674	1	1	1	1	1	1	0	ENSP00000314228		gij156544040 ref XP_001604642.1	GB17167-PA	
4458	2	2	2	1	1	1	0	ENSP00000354033	PCGF2	gij156547031 ref XP_001601096.1	GB12807-PA	Polycomb group RING finger protein 2 (DNA-binding protein Mel-18)(RING finger protein 110)(Zinc finger protein 144) [Source:UniProtKB/Swiss-Prot;Acc:P35227]
8033	1	0	1	1	1	1	0	ENSP00000265191	NME5	gij156537464 ref XP_001607141.1	GB19270-PA	Nucleoside diphosphate kinase homolog 5 (NDP kinase homolog 5)(NDK-H 5)(nm23-H5)(Testis-specific nm23 homolog)(Inhibitor of p53-induced apoptosis-beta)(IPIA-beta) [Source:UniProtKB/Swiss-Prot;Acc:P56597]
2011	2	2	1	1	1	0	0	ENSP00000319388	MAMDC4	lcl hmm1604384	GB19455-PA	Apical endosomal glycoprotein Precursor (MAM domain-containing protein 4) [Source:UniProtKB/Swiss-Prot;Acc:Q6UXC1]
3469	2	1	1	1	1	1	0	ENSP00000216639	VRK1	gij156543118 ref XP_001605504.1	GB17381-PA	Serine/threonine-protein kinase VRK1 (EC 2.7.11.1)(Vaccinia-related kinase 1) [Source:UniProtKB/Swiss-Prot;Acc:Q99986]
1532	4	1	1	1	1	1	0	ENSP00000245255	PIWIL1	gij156545187 ref XP_001603582.1	GB19389-PA	Piwi-like protein 1 [Source:UniProtKB/Swiss-

10457	1	0	2	1	1	1	0	ENSP00000313752	SSNA1	gij156548366 ref XP_001603832.1	GB13090-PA	Prot;Acc:Q96J94] Sjogren syndrome nuclear autoantigen 1 (Nuclear autoantigen of 14 kDa) [Source:UniProtKB/Swiss-Prot;Acc:Q43805] Eukaryotic translation initiation factor 2-alpha kinase 1 (EC 2.7.11.1)(Heme-regulated eukaryotic initiation factor eIF-2-alpha kinase)(Hemin-sensitive initiation factor 2- alpha kinase)(Heme-regulated inhibitor)(Heme-controlled repressor)(HCR) [Source:UniProtKB/Swiss-Prot;Acc:Q9BQI3] E3 ubiquitin-protein ligase LRSAM1 (EC 6.3.2.-)(Leucine-rich repeat and sterile alpha motif-containing protein 1)(Tsg101-associated ligase)(hTAL) [Source:UniProtKB/Swiss- Prot;Acc:Q6UWE0]
7360	1	1	1	1	1	1	0	ENSP00000199389	EIF2AK1	gij156544195 ref XP_001606580.1	GB11419-PA	
2954	1	1	2	1	1	2	0	ENSP00000362421	LRSAM1	gij156555459 ref XP_001606144.1	GB10378-PA	
9367	1	1	1	1	1	1	0	ENSP00000342583		lcl hmm124744	GB13076-PA	
6527	1	1	2	1	2	1	0	ENSP00000260947	BARD1	gij156552299 ref XP_001600685.1	GB30533-PA	BRCA1-associated RING domain protein 1 (BARD-1) [Source:UniProtKB/Swiss- Prot;Acc:Q99728]
9994	1	1	1	1	2	1	0	ENSP00000224809		gij156546255 ref XP_001605428.1	GB16517-PA	
7656	1	0	1	1	1	1	0	ENSP00000217958	PSMD10	gij156549103 ref XP_001607594.1	GB16525-PA	26S proteasome non-ATPase regulatory subunit 10 (26S proteasome regulatory subunit p28)(Gankyrin) [Source:UniProtKB/Swiss-Prot;Acc:O75832]
614	2	0	1	1	2	1	0	ENSP00000288168	HYDIN2	lcl hmm456944	GB12690-PA	Hydrocephalus-inducing protein homolog [Source:UniProtKB/Swiss-Prot;Acc:Q4G0P3]
2207	1	1	1	1	1	1	0	ENSP00000358649	SNX14	gij156548019 ref XP_001605625.1	GB19651-PA	Sorting nexin-14 [Source:UniProtKB/Swiss- Prot;Acc:Q9Y5W7]
7613	1	1	1	1	1	0	0	ENSP00000295612	EIF4E3	gij156548400 ref XP_001604382.1	GB11249-PA	Eukaryotic translation initiation factor 4E type 3 (eIF-4E type 3)(eIF4E type 3)(eIF4E-3)(eIF- 4E3) [Source:UniProtKB/Swiss- Prot;Acc:Q8N5X7]
5776	1	1	1	1	1	1	0	ENSP00000373300	METTL6	gij156553094 ref XP_001599343.1	GB18182-PA	Methyltransferase-like protein 6 (EC 2.1.1.-) [Source:UniProtKB/Swiss-Prot;Acc:Q8TCB7]
10160	3	1	1	1	1	0	0	ENSP00000346191	0	gij156538056 ref XP_001607135.1	GB30491-PA_3	MSTP149 [Source:UniProtKB/TrEMBL;Acc:Q7Z2R2]
8782	1	4	1	1	1	0	0	ENSP00000292588		gij156537980 ref XP_001608187.1	GB12289-PA	
6007	1	1	0	1	1	1	0	ENSP00000320898	RNF168	gij156546841 ref XP_001606394.1	GB11306-PA	RING finger protein 168 [Source:UniProtKB/Swiss-Prot;Acc:Q8IYW5]

7492	1	2	1	1	1	1	0	ENSP00000360593	C1orf163	gij156538226 ref XP_001602064.1	GB16651-PA	Hcp beta-lactamase-like protein C1orf163 [Source:UniProtKB/Swiss-Prot;Acc:Q96BR5]
1339	1	0	0	1	2	1	0	ENSP00000350866	WDSUB1	lcl hmm163284	GB11781-PA	WD repeat, SAM and U-box domain- containing protein 1 [Source:UniProtKB/Swiss-Prot;Acc:Q8N9V3]
8667	3	0	1	1	1	1	0	ENSP00000184183	ROPN1	gij156554613 ref XP_001604836.1	GB18155-PA	Ropporin-1A (Rhopilin-associated protein 1A)(Cancer/testis antigen 91)(CT91) [Source:UniProtKB/Swiss-Prot;Acc:Q9HAT0]
1423	3	0	1	1	1	1	0	ENSP00000373937	PRTG	gij156552031 ref XP_001603842.1	GB19939-PA	Protogenin Precursor (Protein Shen-Dan) [Source:UniProtKB/Swiss-Prot;Acc:Q2VWP7]
1803	2	1	1	1	1	1	0	ENSP00000264381	BCHE	gij156546050 ref XP_001600458.1	GB18414-PA	Cholinesterase Precursor (EC 3.1.1.8)(Acylcholine acylhydrolase)(Choline esterase II)(Butyrylcholine esterase)(Pseudocholinesterase) [Source:UniProtKB/Swiss-Prot;Acc:P06276]
9850	2	8	0	0	1	0	0	ENSP00000331787	METTL7A	gij156550265 ref XP_001602596.1		Methyltransferase-like protein 7A Precursor (EC 2.1.1.-)(Protein AAM-B) [Source:UniProtKB/Swiss-Prot;Acc:Q9H8H3]
9266	1	1	1	0	1	0	0	ENSP00000350353	C12orf72	gij156548135 ref XP_001606653.1		UPF0516 protein C12orf72 [Source:UniProtKB/Swiss-Prot;Acc:Q8IXQ9]
9141	2	0	1	1	1	0	0	ENSP00000368864		gij156550532 ref XP_001602483.1	GB18523-PA	
5763	1	1	1	1	1	1	0	ENSP00000337196	OGFOD1	gij156543699 ref XP_001605634.1	GB12847-PA	2-oxoglutarate and iron-dependent oxygenase domain-containing protein 1 (EC 1.14.11.-) (Termination and polyadenylation 1 homolog) [Source:UniProtKB/Swiss-Prot;Acc:Q8N543]
4122	1	1	1	1	1	1	0	ENSP00000357464		gij156552780 ref XP_001600103.1	GB20145-PA	
8052	1	1	1	1	1	1	0	ENSP00000327583	RANBP1	gij156544622 ref XP_001604197.1	GB19461-PA	Ran-specific GTPase-activating protein (Ran- binding protein 1)(RanBP1) [Source:UniProtKB/Swiss-Prot;Acc:P43487]
9527	1	0	0	1	1	1	0	ENSP00000315682	THAP4	gij156543368 ref XP_001608216.1	GB11305-PA	THAP domain-containing protein 4 [Source:UniProtKB/Swiss-Prot;Acc:Q8WY91]
4982	1	0	0	1	1	0	0	ENSP00000365105	TLL9	gij156548910 ref XP_001606697.1	GB17456-PA	Probable tubulin polyglutamylase TLL9 (EC 6.-.-.)(Tubulin--tyrosine ligase-like protein 9) [Source:UniProtKB/Swiss-Prot;Acc:Q3SXZ7]
9513	1	0	0	0	1	0	0	ENSP00000260257	FDXACB1	gij156543595 ref XP_001604150.1		Ferredoxin-fold anticodon-binding domain- containing protein LOC91893 [Source:UniProtKB/Swiss-Prot;Acc:Q9BRP7]
3166	1	0	1	1	1	1	0	ENSP00000306324	PWWP2B	lcl hmm496624	GB30527-PA	PWWP domain-containing protein 2B [Source:UniProtKB/Swiss-Prot;Acc:Q6NUJ5]

5587	2	0	1	0	1	1	0	ENSP00000315630	0	gij156544353 ref XP_001607345.1		Switch-associated protein 70 (SWAP-70) [Source:UniProtKB/Swiss-Prot;Acc:Q9UH65]
6298	2	0	1	1	1	1	0	ENSP00000221566	SGTA	gij156541496 ref XP_001601120.1	GB10757-PA	Small glutamine-rich tetratricopeptide repeat-containing protein alpha (Alpha-SGT)(Vpu-binding protein)(UBP) [Source:UniProtKB/Swiss-Prot;Acc:O43765] Nucleolar protein of 40 kDa (pNO40)(Zinc finger CCHC domain-containing protein 17)(Putative S1 RNA-binding domain protein)(PS1D protein)(Pnn-interacting nucleolar protein) [Source:UniProtKB/Swiss-Prot;Acc:Q9NP64]
9793	1	0	0	0	1	0	0	ENSP00000343557	ZCCHC17	gij156551017 ref XP_001600416.1		Prolyl 3-hydroxylase 2 Precursor (EC 1.14.11.7)(Leprecan-like protein 1)(Myxoid liposarcoma-associated protein 4) [Source:UniProtKB/Swiss-Prot;Acc:Q8IVL5]
7147	1	0	0	1	1	0	0	ENSP00000316881	LEPREL1	lcl hmm1118624	GB11108-PA	Leucine-rich repeat-containing protein 51 [Source:UniProtKB/Swiss-Prot;Acc:Q96E66]
9546	1	0	2	1	1	1	0	ENSP00000289488	LRRC51	gij156552205 ref XP_001606195.1	GB17830-PA	Probable tubulin polyglutamylase TTL2 (EC 6.-.-.-)(Tubulin--tyrosine ligase-like protein 2)(Testis-specific protein NYD-TSPG) [Source:UniProtKB/Swiss-Prot;Acc:Q9BWW7]
2713	1	0	1	1	1	1	0	ENSP00000239587	TTL2	gij156542865 ref XP_001600453.1	GB17923-PA	
8402	1	0	2	1	1	1	0	ENSP00000373807		gij156551145 ref XP_001604073.1	GB13306-PA	Fanconi anemia group J protein (Protein FACJ)(EC 3.6.1.-)(ATP-dependent RNA helicase BRIP1)(BRCA1-interacting protein C-terminal helicase 1)(BRCA1-interacting protein 1)(BRCA1-associated C-terminal helicase 1) [Source:UniProtKB/Swiss-Prot;Acc:Q9BX63]
3533	1	2	0	1	1	0	0	ENSP00000259008	BRIP1	gij156549736 ref XP_001605873.1	GB13205-PA	Ras-related protein Rab-28 (Rab-26) [Source:UniProtKB/Swiss-Prot;Acc:P51157]
6223	1	0	1	1	1	0	0	ENSP00000340079	RAB28	gij156543810 ref XP_001606519.1	GB19675-PA	Survival of motor neuron-related-splicing factor 30 (SMN-related protein)(30 kDa splicing factor SMNrp)(Survival motor neuron domain-containing protein 1) [Source:UniProtKB/Swiss-Prot;Acc:O75940]
7732	1	1	1	1	1	1	0	ENSP00000358616	SMNDC1	gij156542881 ref XP_001600754.1	GB10318-PA	Serine/threonine-protein kinase DCLK2 (EC 2.7.11.1)(Doublecortin-like and CAM kinase-like 2)(Doublecortin-like kinase 2) [Source:UniProtKB/Swiss-Prot;Acc:Q8N568]
2074	2	1	1	2	1	1	0	ENSP00000296550	DCLK2	gij156548886 ref XP_001606514.1	GB12930-PA	

5526	2	1	0	1	1	1	0	ENSP00000256117	E2F5	Icl hmm82104	GB14882-PA	Transcription factor E2F5 (E2F-5) [Source:UniProtKB/Swiss-Prot;Acc:Q15329]
8578	1	0	0	1	1	0	0	ENSP00000347834	FBXL3	Icl hmm248534	GB19733-PA	F-box/LRR-repeat protein 3 (F-box and leucine-rich repeat protein 3A)(F-box/LRR-repeat protein 3A) [Source:UniProtKB/Swiss-Prot;Acc:Q9UKT7]
4780	1	0	1	1	1	0	0	ENSP00000368826	LYCAT	gij 156547591 ref XP_001603121.1	GB18996-PA	Lysocardiolipin acyltransferase (EC 2.3.1.51)(EC 2.3.1.-)(Acyl-CoA:lysocardiolipin acyltransferase 1)(1-AGP acyltransferase 8)(1-AGPAT 8) [Source:UniProtKB/Swiss-Prot;Acc:Q6UWP7]
6275	1	0	1	1	1	1	0	ENSP00000369549		gij 156544377 ref XP_001607405.1	GB15147-PA	
9182	1	2	0	0	1	0	0	ENSP00000340836	OSTF1	gij 156554210 ref XP_001600595.1		Osteoclast-stimulating factor 1 [Source:UniProtKB/Swiss-Prot;Acc:Q92882]
4791	2	1	0	1	1	0	0	ENSP00000347134	NET1	gij 156548052 ref XP_001605987.1	GB19542-PA	Neuroepithelial cell-transforming gene 1 protein (p65 Net1 proto-oncogene)(Rho guanine nucleotide exchange factor 8) [Source:UniProtKB/Swiss-Prot;Acc:Q7Z628]
196	1	1	1	1	1	1	0	ENSP00000368678	AGRN	Icl hmm184704	GB19330-PA	Agrin Precursor [Source:UniProtKB/Swiss-Prot;Acc:O00468]
5305	4	0	4	1	1	1	0	ENSP00000350387	HYAL2	Icl hmm126624	GB18543-PA	Hyaluronidase-2 Precursor (Hyal-2)(EC 3.2.1.35)(Hyaluronoglucosaminidase-2)(LUCA-2) [Source:UniProtKB/Swiss-Prot;Acc:Q12891]
10135	1	0	0	0	1	0	0	ENSP00000368648	SLC30A6	gij 156550596 ref XP_001604119.1		Zinc transporter 6 (ZnT-6)(Solute carrier family 30 member 6) [Source:UniProtKB/Swiss-Prot;Acc:Q6NXT4]
7776	1	1	1	1	1	1	0	ENSP00000354969		gij 156552466 ref XP_001601351.1	GB10886-PA	
5155	1	2	1	1	1	1	0	ENSP00000366748	AUP1	gij 156540746 ref XP_001602032.1	GB13805-PA	Ancient ubiquitous protein 1 Precursor [Source:UniProtKB/Swiss-Prot;Acc:Q9Y679]
5074	1	1	0	1	1	1	0	ENSP00000247706	ABHD8	gij 156548434 ref XP_001604877.1	GB10951-PA	Abhydrolase domain-containing protein 8 (EC 3.-.-) [Source:UniProtKB/Swiss-Prot;Acc:Q96113]
9402	1	1	0	0	7	6	0	ENSP00000352920	ZMYM1	Icl hmm62214		Zinc finger MYM-type protein 1 [Source:UniProtKB/Swiss-Prot;Acc:Q5SVZ6]
6149	2	1	1	1	1	1	0	ENSP00000255681	MACROD1	gij 156544520 ref XP_001607170.1	GB11117-PA	MACRO domain-containing protein 1 (Protein LRP16) [Source:UniProtKB/Swiss-Prot;Acc:Q9BQ69]
4377	1	0	1	1	1	1	0	ENSP00000359894	MBNL3	gij 156543054 ref XP_001604553.1	GB13919-PA	Muscleblind-like protein 3 (Muscleblind-like X-linked protein)(Cys3His CCG1-required protein)(Protein HCHCR)

Gene ID	Chr	Start	End	Strand	Transcript ID	Gene Name	RefSeq ID	GenBank ID	Description			
7128	2	1	1	0	1	1	0	ENSP00000336655	STRADA	gij156537884 ref XP_001608122.1	[Source:UniProtKB/Swiss-Prot;Acc:Q9NUK0]	
9857	1	0	0	1	1	0	0	ENSP00000258417	ARMC9	lcl hmm314864	GB18120-PA	STE20-related adapter protein (STRAD alpha)(Serologically defined breast cancer antigen NY-BR-96) [Source:UniProtKB/Swiss-Prot;Acc:Q7RTN6]
9567	1	0	0	0	1	0	0	ENSP00000306760	LRRC45	gij156552982 ref XP_001603807.1		LisH domain-containing protein ARMC9 (Melanoma/melanocyte specific protein KU-MEL-1)(NS21) [Source:UniProtKB/Swiss-Prot;Acc:Q7Z3E5]
5023	1	1	1	1	1	1	0	ENSP00000364405	ZNF367	gij156551758 ref XP_001602220.1	GB17171-PA	Leucine-rich repeat-containing protein 45 [Source:UniProtKB/Swiss-Prot;Acc:Q96CN5]
5567	1	1	1	1	1	1	0	ENSP00000369218	RBM17	gij156542185 ref XP_001599827.1	GB13651-PA	Zinc finger protein 367 (C2H2 zinc finger protein ZFF29) [Source:UniProtKB/Swiss-Prot;Acc:Q7RTV3]
1311	2	1	0	1	1	1	0	ENSP00000364218	CORO2A	gij156550141 ref XP_001606043.1	GB20076-PA	Splicing factor 45 (45 kDa-splicing factor)(RNA-binding motif protein 17) [Source:UniProtKB/Swiss-Prot;Acc:Q96I25]
5589	1	1	2	0	2	0	0	ENSP00000338945	RBAK	lcl hmm565104		Coronin-2A (WD repeat-containing protein 2)(IR10) [Source:UniProtKB/Swiss-Prot;Acc:Q92828]
2331	2	1	1	1	1	1	0	ENSP00000267197	SETD1B	gij156552069 ref XP_001604610.1	GB15744-PA	RB-associated KRAB zinc finger protein (RB-associated KRAB repressor)(hRbAK)(Zinc finger protein 769) [Source:UniProtKB/Swiss-Prot;Acc:Q9NYW8]
6721	1	1	1	1	1	1	0	ENSP00000272930	UBE2F	gij156543917 ref XP_001607128.1	GB17675-PA	Histone-lysine N-methyltransferase SETD1B (EC 2.1.1.43)(SET domain-containing protein 1B)(hSET1B)(Lysine N-methyltransferase 2G) [Source:UniProtKB/Swiss-Prot;Acc:Q9UPS6]
7616	1	1	0	1	1	0	0	ENSP00000373348		gij156545892 ref XP_001606737.1	GB14468-PA	NEDD8-conjugating enzyme UBE2F (EC 6.3.2.-)(Ubiquitin-conjugating enzyme E2 F)(NEDD8 protein ligase UBE2F)(NEDD8 carrier protein UBE2F)(NEDD8-conjugating enzyme 2) [Source:UniProtKB/Swiss-Prot;Acc:Q969M7]
8354	1	2	0	0	6	16	0	ENSP00000305533	THAP9	lcl hmm204634		THAP domain-containing protein 9 [Source:UniProtKB/Swiss-Prot;Acc:Q9H5L6]
2270	1	1	1	1	1	2	0	ENSP00000322900		gij156541108 ref XP_001601278.1	GB13366-PA	
9242	2	0	0	0	1	0	0	ENSP00000323246	E2F7	gij156554321 ref XP_001602883.1		Transcription factor E2F7 (E2F-7)

2492	2	1	1	1	1	1	0	ENSP00000275364	GNA12	gij156541322 ref XP_001600076.1	GB12482-PA	[Source:UniProtKB/Swiss-Prot;Acc:Q96AV8] Guanine nucleotide-binding protein alpha-12 subunit (G alpha-12) [Source:UniProtKB/Swiss-Prot;Acc:Q03113]
4416	1	3	1	1	1	1	0	ENSP00000371555		gij156538579 ref XP_001607471.1	GB15205-PA	
5231	1	0	0	1	1	1	0	ENSP00000320797	TUBD1	gij156555869 ref XP_001603341.1	GB16674-PA	Tubulin delta chain (Delta-tubulin) [Source:UniProtKB/Swiss-Prot;Acc:Q9UJT1]
6112	1	0	0	0	1	1	0	ENSP00000357651	TUBE1	gij156548932 ref XP_001606879.1		Tubulin epsilon chain (Epsilon-tubulin) [Source:UniProtKB/Swiss-Prot;Acc:Q9UJT0]
4968	3	1	2	2	1	1	0	ENSP00000267974	NCOA2	lcl hmm344804	GB30063-PA	Nuclear receptor coactivator 2 (NCoA-2)(Transcriptional intermediary factor 2) [Source:UniProtKB/Swiss-Prot;Acc:Q15596]
5448	2	1	0	1	1	2	0	ENSP00000362810	HCRTR1	gij156547671 ref XP_001604582.1	GB10679-PA	Orexin receptor type 1 (Ox1r)(Hypocretin receptor type 1) [Source:UniProtKB/Swiss-Prot;Acc:O43613]
5439	1	0	1	1	1	1	0	ENSP00000354684	UBE2J1	gij156550173 ref XP_001602750.1	GB11530-PA	Ubiquitin-conjugating enzyme E2 J1 (EC 6.3.2.19)(Non-canonical ubiquitin-conjugating enzyme 1)(NCUBE1)(Yeast ubiquitin-conjugating enzyme UBC6 homolog E)(HSUBC6e) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y385]
8004	1	2	1	0	1	1	0	ENSP0000007264	RPUSD1	gij156538671 ref XP_001607742.1		RNA pseudouridylation synthase domain-containing protein 1 (Ribosomal large subunit pseudouridine synthase C-like protein) [Source:UniProtKB/Swiss-Prot;Acc:Q9UJJ7]
8060	1	2	1	1	1	1	0	ENSP00000266529	ZCRB1	gij156537512 ref XP_001607424.1	GB12416-PA	Zinc finger CCHC-type and RNA-binding motif-containing protein 1 (U11/U12 small nuclear ribonucleoprotein 31 kDa protein)(U11/U12 snRNP 31 kDa protein)(U11/U12-31K) [Source:UniProtKB/Swiss-Prot;Acc:Q8TBF4]
2128	1	1	1	0	1	1	0	ENSP00000356468	IVNS1ABP	gij156546793 ref XP_001605813.1		Influenza virus NS1A-binding protein (NS1-binding protein)(NS1-BP)(Aryl hydrocarbon receptor-associated protein 3) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y6Y0]
2210	1	1	0	1	1	1	0	ENSP00000332818	SV2B	gij156553847 ref XP_001600421.1	GB17151-PA	Synaptic vesicle glycoprotein 2B [Source:UniProtKB/Swiss-Prot;Acc:Q7L112]
4153	1	0	0	1	1	0	0	ENSP00000278379	SLC1A2	gij156548694 ref XP_001602624.1	GB16377-PA	Excitatory amino acid transporter 2 (Sodium-dependent glutamate/aspartate transporter 2)(Glutamate/aspartate transporter II)(Solute carrier family 1 member 2) [Source:UniProtKB/Swiss-Prot;Acc:P43004]

3405	1	1	1	1	1	1	0	ENSP00000348848	WDR45	gij156549346 ref XP_001601516.1	GB13774-PA	WD repeat domain phosphoinositide-interacting protein 4 (WIPI-4)(WD repeat-containing protein 45) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y484]
3583	2	1	0	1	1	0	0	ENSP00000219320	SLC38A7	gij156543949 ref XP_001607294.1	GB19602-PA	Putative sodium-coupled neutral amino acid transporter 7 [Source:UniProtKB/Swiss-Prot;Acc:Q9NVC3]
7666	1	1	1	1	1	1	0	ENSP00000261263	RAB21	gij156547415 ref XP_001604485.1	GB13478-PA	Ras-related protein Rab-21 [Source:UniProtKB/Swiss-Prot;Acc:Q9UL25]
6242	1	1	1	1	1	1	0	ENSP00000295952	SLMAP	gij156539502 ref XP_001600584.1	GB11803-PA	Sarcolemmal membrane-associated protein (Sarcolemmal-associated protein) [Source:UniProtKB/Swiss-Prot;Acc:Q14BN4]
4586	2	1	1	1	1	1	0	ENSP00000285124	PPP4R1	gij156547387 ref XP_001603911.1	GB15727-PA	Serine/threonine-protein phosphatase 4 regulatory subunit 1 [Source:UniProtKB/Swiss-Prot;Acc:Q8TF05]
1294	1	0	1	1	1	0	0	ENSP00000364346	ZNF341	gij156554248 ref XP_001601448.1	GB15420-PA	Zinc finger protein 341 [Source:UniProtKB/Swiss-Prot;Acc:Q9BYN7]
2837	1	0	1	1	1	1	0	ENSP00000314396	0	gij156549909 ref XP_001602056.1	GB16612-PA	TPR repeat-containing protein LOC90826 [Source:UniProtKB/Swiss-Prot;Acc:Q6P2P2]
7164	1	1	1	1	1	1	0	ENSP00000298834	AMBRA1	lcl hmm480804	GB18974-PA	activating molecule in beclin-1-regulated autophagy [Source:RefSeq peptide;Acc:NP_060219]
6428	1	1	1	1	1	1	0	ENSP00000346599	STYX	gij156537261 ref XP_001605594.1	GB12357-PA	Serine/threonine/tyrosine-interacting protein (Protein tyrosine phosphatase-like protein) [Source:UniProtKB/Swiss-Prot;Acc:Q8WUJ0]
1364	2	0	0	1	1	0	0	ENSP00000358253	FAM160B1	gij156538376 ref XP_001605312.1	GB10217-PB	UPF0518 protein FAM160B1 [Source:UniProtKB/Swiss-Prot;Acc:Q5W0V3]
6157	4	1	1	2	1	1	0	ENSP00000346511	COL2A1	gij156552024 ref XP_001603734.1	GB16236-PA	Collagen alpha-1(II) chain Precursor (Alpha-1 type II collagen) [Contains Chondrocalcin] [Source:UniProtKB/Swiss-Prot;Acc:P02458]
6657	1	1	1	1	1	1	0	ENSP00000314733	TOLLIP	gij156541862 ref XP_001600167.1	GB17961-PA	Toll-interacting protein [Source:UniProtKB/Swiss-Prot;Acc:Q9H0E2]
2239	1	1	1	1	1	0	0	ENSP00000336606	RAD54B	gij156549903 ref XP_001601964.1	GB12667-PA	DNA repair and recombination protein RAD54B (EC 3.6.1.-)(RAD54 homolog B) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y620]
7636	1	1	1	1	1	1	0	ENSP00000328641	BRCC3	gij156548284 ref XP_001605872.1	GB15160-PA	BRCA1/BRCA2-containing complex subunit 3 [Source:UniProtKB/Swiss-Prot;Acc:P46736]
4365	2	1	1	1	1	1	0	ENSP00000359410	ABHD7	gij156545507 ref XP_001607070.1	GB14679-PA	Abhydrolase domain-containing protein 7 (Epoxide hydrolase-related protein) [Source:UniProtKB/Swiss-Prot;Acc:Q8IU55]

1496	1	1	0	1	2	1	0	ENSP00000362485	GARNL3	Icl hmm63104	GB10533-PA	GTPase-activating Rap/Ran-GAP domain-like protein 3 [Source:UniProtKB/Swiss-Prot;Acc:Q5VWW2]
5934	1	0	1	1	1	1	0	ENSP00000265421	POLB	gij 156554335 ref XP_001603281.1	GB18972-PA	DNA polymerase beta (EC 2.7.7.7)(EC 4.2.99.-) [Source:UniProtKB/Swiss-Prot;Acc:P06746]
1357	1	0	1	1	1	1	0	ENSP00000293303	KLHL10	gij 156547703 ref XP_001605004.1	GB12199-PA	Kelch-like protein 10 [Source:UniProtKB/Swiss-Prot;Acc:Q6JEL2]
1517	1	3	0	0	2	2	0	ENSP00000360819	ZNF1	gij 156554246 ref XP_001601379.1		NFX1-type zinc finger-containing protein 1 [Source:UniProtKB/Swiss-Prot;Acc:Q9P2E3]
7661	2	0	0	0	1	0	0	ENSP00000327611	KCNK12	gij 156550097 ref XP_001605657.1		Potassium channel subfamily K member 12 (Tandem pore domain halothane-inhibited potassium channel 2)(THIK-2) [Source:UniProtKB/Swiss-Prot;Acc:Q9HB15]
2940	2	1	1	1	1	1	0	ENSP00000304429	SNX7	gij 156554601 ref XP_001604661.1	GB15978-PA	Sorting nexin-7 [Source:UniProtKB/Swiss-Prot;Acc:Q9UNH6]
2470	2	1	1	1	1	1	0	ENSP00000356761	PDE7B	gij 156540461 ref XP_001599769.1	GB18545-PA	cAMP-specific 3',5'-cyclic phosphodiesterase 7B (EC 3.1.4.17) [Source:UniProtKB/Swiss-Prot;Acc:Q9NP56]
1550	1	1	1	1	1	1	0	ENSP00000260283	ARHGAP20	gij 156548300 ref XP_001602479.1	GB14721-PA	Rho GTPase-activating protein 20 (Rho-type GTPase-activating protein 20) [Source:UniProtKB/Swiss-Prot;Acc:Q9P2F6]
424	1	1	0	1	2	1	0	ENSP00000313420	PRKDC	Icl hmm396474	GB11176-PA	DNA-dependent protein kinase catalytic subunit (DNA-PK catalytic subunit)(DNA-PKcs)(EC 2.7.11.1)(DNPK1)(p460) [Source:UniProtKB/Swiss-Prot;Acc:P78527]
7470	1	2	1	1	1	1	0	ENSP00000296215	SNIP1	Icl hmm238844	GB14184-PA	Smad nuclear-interacting protein 1 [Source:UniProtKB/Swiss-Prot;Acc:Q8TAD8]
3547	1	1	1	1	1	1	0	ENSP00000260327	CTDSPL2	gij 156545617 ref XP_001603378.1	GB14843-PA	CTD small phosphatase-like protein 2 (CTDSP-like 2)(EC 3.1.3.-) [Source:UniProtKB/Swiss-Prot;Acc:Q05D32]
1021	1	1	1	1	1	1	0	ENSP00000365009	DNAJC16	gij 156552000 ref XP_001603228.1	GB19523-PA	DnaJ homolog subfamily C member 16 Precursor [Source:UniProtKB/Swiss-Prot;Acc:Q9Y2G8]
4111	2	0	1	1	1	1	0	ENSP00000299606	ZNF143	gij 156549688 ref XP_001605150.1	GB11591-PA	Zinc finger protein 143 (SPH-binding factor) [Source:UniProtKB/Swiss-Prot;Acc:P52747]
5711	1	1	1	1	1	1	0	ENSP00000273158	SLC25A38	gij 156537761 ref XP_001608024.1	GB18717-PA	Solute carrier family 25 member 38 [Source:UniProtKB/Swiss-Prot;Acc:Q96DW6]

4506	1	0	1	2	2	3	0	ENSP00000356825	ADCY10	gij156551413 ref XP_001603973.1	GB17682-PA	Adenylate cyclase type 10 (EC 4.6.1.1)(Adenylate cyclase homolog)(Testicular soluble adenylyl cyclase)(Germ cell soluble adenylyl cyclase)(hsAC)(sAC)(AH-related protein) [Source:UniProtKB/Swiss-Prot;Acc:Q96PN6]
3616	1	0	1	1	1	1	0	ENSP00000367498	LRRC47	gij156545868 ref XP_001606500.1	GB18209-PA	Leucine-rich repeat-containing protein 47 [Source:UniProtKB/Swiss-Prot;Acc:Q8N1G4]
4945	1	1	0	1	1	0	0	ENSP00000344914	DNMBP	lcl hmm318804	GB13871-PA	Dynamin-binding protein (Scaffold protein Tuba) [Source:UniProtKB/Swiss-Prot;Acc:Q6XZF7]
151	1	1	0	1	1	1	0	ENSP00000260766	PLCE1	gij156551664 ref XP_001601048.1	GB14007-PA	1-phosphatidylinositol-4,5-bisphosphate phosphodiesterase epsilon-1 (EC 3.1.4.11)(Phospholipase C-epsilon-1)(PLC-epsilon-1)(Phosphoinositide-specific phospholipase C epsilon-1)(Pancreas-enriched phospholipase C) [Source:UniProtKB/Swiss-Prot;Acc:Q9P212]
6014	1	1	1	1	1	1	0	ENSP00000239893	EXOSC8	gij156553642 ref XP_001600402.1	GB19173-PA	Exosome complex exonuclease RRP43 (EC 3.1.13.-)(Ribosomal RNA-processing protein 43)(Exosome component 8)(p9)(Opa-interacting protein 2) [Source:UniProtKB/Swiss-Prot;Acc:Q96B26]
7274	2	1	1	1	1	1	0	ENSP00000369996	ATXN3L	gij156537528 ref XP_001607490.1	GB19285-PA	Putative ataxin-3-like protein (EC 3.4.22.-)(Machado-Joseph disease protein 1-like) [Source:UniProtKB/Swiss-Prot;Acc:Q9H3M9]
2416	2	1	1	1	1	1	0	ENSP00000368669		gij156550255 ref XP_001602397.1	GB12701-PA	
6821	1	1	1	1	1	1	0	ENSP00000361625	DOLPP1	gij156537478 ref XP_001607218.1	GB14842-PA	Dolichyldiphosphatase 1 (EC 3.6.1.43)(Dolichyl pyrophosphate phosphatase 1) [Source:UniProtKB/Swiss-Prot;Acc:Q86YN1]
1545	1	1	1	1	1	3	0	ENSP00000356817	IQWD1	gij156554367 ref XP_001603976.1	GB12417-PA	Nuclear receptor interaction protein (NRIP)(IQ motif and WD repeat-containing protein 1)(Androgen receptor complex-associated protein)(ARCAP) [Source:UniProtKB/Swiss-Prot;Acc:Q58WW2]
5460	1	0	0	1	1	0	0	ENSP00000072869	ADCK2	gij156552842 ref XP_001600002.1	GB30219-PA	Uncharacterized aarF domain-containing protein kinase 2 (EC 2.7.11.-) [Source:UniProtKB/Swiss-Prot;Acc:Q7Z695]

4353	2	1	0	2	1	1	0	ENSP00000279873	ARID5B	gij156553119 ref XP_001599846.1	GB30238-PA	AT-rich interactive domain-containing protein 5B (ARID domain-containing protein 5B)(Mrf1-like)(Modulator recognition factor 2)(MRF-2) [Source:UniProtKB/Swiss-Prot;Acc:Q14865]
1712	1	1	1	1	1	1	0	ENSP00000304710	TMC7	gij156554970 ref XP_001602441.1	GB18977-PA	Transmembrane channel-like protein 7 [Source:UniProtKB/Swiss-Prot;Acc:Q7Z402]
3460	1	5	2	1	1	1	0	ENSP00000322361	ZNF236	gij156537874 ref XP_001608117.1	GB12171-PA	Zinc finger protein 236 [Source:UniProtKB/Swiss-Prot;Acc:Q9UL36]
1755	1	0	1	1	1	1	0	ENSP00000363948		lcl hmm554374	GB12021-PA	
1035	1	1	1	1	1	1	0	ENSP00000267540	STON2	gij156552371 ref XP_001602404.1	GB17165-PA	Stonin-2 (Stoned B) [Source:UniProtKB/Swiss-Prot;Acc:Q8WXE9]
4394	1	1	1	1	1	1	0	ENSP00000367931	0	gij156547337 ref XP_001602454.1	GB15892-PA	Solute carrier family 35 member E2 [Source:UniProtKB/Swiss-Prot;Acc:Q5CZA4]
937	3	2	0	1	1	1	0	ENSP00000350676	PHF8	gij156548672 ref XP_001602314.1	GB14218-PA	PHD finger protein 8 [Source:UniProtKB/Swiss-Prot;Acc:Q9UUP1]
4536	1	0	1	0	1	1	0	ENSP00000304292	ANKRD27	gij156537644 ref XP_001607835.1		Ankyrin repeat domain-containing protein 27 (VPS9 domain-containing protein) [Source:UniProtKB/Swiss-Prot;Acc:Q96NW4]
5703	1	1	0	1	1	1	0	ENSP00000368564	SIRT5	gij156543239 ref XP_001606605.1	GB12737-PA	NAD-dependent deacetylase sirtuin-5 (EC 3.5.1.-)(SIR2-like protein 5) [Source:UniProtKB/Swiss-Prot;Acc:Q9NXA8]
262	2	1	1	1	1	1	0	ENSP00000363593	SVEP1	lcl hmm388774	GB17310-PA	Sushi, von Willebrand factor type A, EGF and pentraxin domain-containing protein 1 Precursor (Polydom)(Selectin-like osteoblast-derived protein)(SEL-OB)(CCP module-containing protein 22)(Serologically defined breast cancer antigen NY-BR-38) [Source:UniProtKB/Swiss-Prot;Acc:Q4LDE5]
2341	1	1	0	1	1	0	0	ENSP00000283930	0	gij156542321 ref XP_001599586.1	GB13517-PA	C-Maf-inducing protein (c-Mip)(Truncated c-Maf inducing protein)(Tc-Mip) [Source:UniProtKB/Swiss-Prot;Acc:Q8IY22]
1688	1	1	1	1	1	1	0	ENSP00000318727	RECQL	gij156554958 ref XP_001602226.1	GB16722-PA	ATP-dependent DNA helicase Q1 (EC 3.6.1.-)(DNA-dependent ATPase Q1) [Source:UniProtKB/Swiss-Prot;Acc:P46063]
2892	1	1	1	1	1	1	0	ENSP00000357565	ZUFSP	gij156538188 ref XP_001601289.1	GB16490-PA	Zinc finger with UFM1-specific peptidase domain protein [Source:UniProtKB/Swiss-Prot;Acc:Q96AP4]
3129	2	1	1	1	1	1	0	ENSP00000225235	TBC1D12	gij156540744 ref XP_001601968.1	GB11964-PA	TBC1 domain family member 12 [Source:UniProtKB/Swiss-Prot;Acc:O60347]
3792	1	1	1	1	1	1	0	ENSP00000225614	GALK1	gij156540614 ref XP_001600084.1	GB16893-PA	Galactokinase (EC 2.7.1.6)(Galactose kinase) [Source:UniProtKB/Swiss-Prot;Acc:P51570]

1882	1	1	1	1	1	1	0	ENSP00000269384	FOXK2	gij156549152 ref XP_001607710.1	GB20118-PA	Forkhead box protein K2 (Interleukin enhancer-binding factor 1)(Cellular transcription factor ILF-1)(FOXK1) [Source:UniProtKB/Swiss-Prot;Acc:Q01167]
6473	1	1	1	1	1	1	0	ENSP00000316596	SLC38A9	gij156554520 ref XP_001605244.1	GB17211-PA	Putative sodium-coupled neutral amino acid transporter 9 [Source:UniProtKB/Swiss-Prot;Acc:Q8NBW4]
2747	1	1	1	1	1	1	0	ENSP00000311134	C9orf86	lcl hmm537024	GB15772-PA	Putative GTP-binding protein Parf (Partner of ARF) [Source:UniProtKB/Swiss-Prot;Acc:Q3YEC7]
1863	2	1	1	1	1	1	0	ENSP00000299402	APBB1	gij156548372 ref XP_001603939.1	GB14830-PA	Amyloid beta A4 precursor protein-binding family B member 1 (Fe65 protein) [Source:UniProtKB/Swiss-Prot;Acc:O00213]
3013	2	0	0	1	1	1	0	ENSP00000263025	MAPK3	lcl hmm586804	GB15499-PA	Mitogen-activated protein kinase 3 (EC 2.7.11.24)(Extracellular signal-regulated kinase 1)(ERK-1)(Insulin-stimulated MAP2 kinase)(MAP kinase 1)(MAPK 1)(p44-ERK1)(ERT2)(p44-MAPK)(Microtubule-associated protein 2 kinase) [Source:UniProtKB/Swiss-Prot;Acc:P27361]
4939	2	1	1	1	1	1	0	ENSP00000353739	PCMTD1	gij156548131 ref XP_001606631.1	GB14374-PA	Protein-L-isoaspartate O-methyltransferase domain-containing protein 1 [Source:UniProtKB/Swiss-Prot;Acc:Q96MG8]
5689	1	2	1	0	1	1	0	ENSP00000367935		gij156547100 ref XP_001604579.1		
485	1	1	1	1	1	1	0	ENSP00000242044	SNX13	gij156537586 ref XP_001607692.1	GB11899-PA	Sorting nexin-13 (RGS domain- and PHOX domain-containing protein)(RGS-PX1) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y5W8]
5491	1	1	1	1	1	1	0	ENSP00000219638	UBFD1	gij156537231 ref XP_001605168.1	GB17016-PA	Ubiquitin domain-containing protein UBFD1 (Ubiquitin-binding protein homolog) [Source:UniProtKB/Swiss-Prot;Acc:O14562]
3208	1	1	1	1	1	0	0	ENSP00000348462	RNF14	gij156549907 ref XP_001602028.1	GB15902-PA	E3 ubiquitin-protein ligase RNF14 (EC 6.3.2.-)(RING finger protein 14)(Androgen receptor-associated protein 54)(Triad2 protein)(HFB30) [Source:UniProtKB/Swiss-Prot;Acc:Q9UBS8]
3531	1	1	1	1	1	1	0	ENSP00000355964	LPGAT1	gij156541403 ref XP_001600738.1	GB11542-PA	Acyl-CoA:lysophosphatidylglycerol acyltransferase 1 (EC 2.3.1.-) [Source:UniProtKB/Swiss-Prot;Acc:Q92604]
2691	1	0	1	1	1	2	0	ENSP00000288912	WDR66	gij156548332 ref XP_001603183.1	GB20106-PA	WD repeat-containing protein 66 [Source:UniProtKB/Swiss-Prot;Acc:Q8TBY9]

1952	1	1	0	1	1	0	0	ENSP00000334910	PDE2A	gij156539685 ref XP_001600347.1	GB13697-PA	cGMP-dependent 3',5'-cyclic phosphodiesterase (EC 3.1.4.17)(Cyclic GMP-stimulated phosphodiesterase)(CGS-PDE)(cGSPDE) [Source:UniProtKB/Swiss-Prot;Acc:O00408]
4010	1	1	1	1	1	1	0	ENSP00000318351	BCKDHB	gij156551113 ref XP_001603426.1	GB16650-PA	2-oxoisovalerate dehydrogenase subunit beta, mitochondrial Precursor (EC 1.2.4.4)(Branched-chain alpha-keto acid dehydrogenase E1 component beta chain)(BCKDH E1-beta) [Source:UniProtKB/Swiss-Prot;Acc:P21953]
3646	1	0	1	1	1	0	0	ENSP00000343742	C1orf58	gij156537482 ref XP_001607239.1	GB10023-PA	BRO1 domain-containing protein BROX [Source:UniProtKB/Swiss-Prot;Acc:Q5VW32]
2521	2	1	0	1	1	1	0	ENSP00000265846	ADAP1	gij156543614 ref XP_001604416.1	GB13506-PA	Centaurin-alpha-1 (Putative MAPK-activating protein PM25) [Source:UniProtKB/Swiss-Prot;Acc:O75689]
4050	2	1	0	1	1	0	0	ENSP00000328547	DNMT3B	gij156552675 ref XP_001599223.1	GB30166-PA	DNA (cytosine-5)-methyltransferase 3B (Dnmt3b)(EC 2.1.1.37)(DNA methyltransferase HsaIIIB)(DNA MTase HsaIIIB)(M.HsaIIIB) [Source:UniProtKB/Swiss-Prot;Acc:Q9UBC3]
4156	1	1	0	1	1	0	0	ENSP00000307260	TBL2	gij156542787 ref XP_001605440.1	GB18600-PA	Transducin beta-like 2 protein (WS beta-transducin repeats protein)(WS-betaTRP)(Williams-Beuren syndrome chromosomal region 13 protein) [Source:UniProtKB/Swiss-Prot;Acc:Q9Y4P3]
4322	1	1	1	1	1	0	0	ENSP00000284116	GDPD1	gij156544428 ref XP_001607584.1	GB15395-PA	Glycerophosphodiester phosphodiesterase domain-containing protein 1 (EC 3.1.-.-)(Glycerophosphodiester phosphodiesterase 4) [Source:UniProtKB/Swiss-Prot;Acc:Q8N9F7]
3570	1	2	1	1	1	1	0	ENSP00000260952	ASNSD1	gij156547911 ref XP_001604247.1	GB14690-PA	Asparagine synthetase domain-containing protein 1 (HCV NS3-transactivated protein 1) [Source:UniProtKB/Swiss-Prot;Acc:Q9NWL6]
1355	1	1	1	1	1	1	0	ENSP00000340766	SMG7	gij156543150 ref XP_001605792.1	GB14422-PA	Protein SMG7 (SMG-7 homolog)(EST1-like protein C) [Source:UniProtKB/Swiss-Prot;Acc:Q92540]
3451	1	1	1	1	1	1	0	ENSP00000216160	MAP3K7IP1	gij156546094 ref XP_001601363.1	GB18176-PA	Mitogen-activated protein kinase kinase kinase 7-interacting protein 1 (TGF-beta-activated kinase 1-binding protein 1)(TAK1-binding protein 1) [Source:UniProtKB/Swiss-Prot;Acc:Q15750]

1766	6	2	1	1	1	0	0	ENSP00000266482	FGD4	gij156545334 ref XP_001605853.1	GB16605-PA	FYVE, RhoGEF and PH domain-containing protein 4 (Actin filament-binding protein frabin)(FGD1-related F-actin-binding protein)(Zinc finger FYVE domain-containing protein 6) [Source:UniProtKB/Swiss-Prot;Acc:Q96M96]
4527	1	2	1	1	3	1	0	ENSP00000296456	APEH	lcl hmm332944	GB19295-PA	Acylamino-acid-releasing enzyme (AARE)(EC 3.4.19.1)(Acyl-peptide hydrolase)(APH)(Acylaminoacyl-peptidase)(Oxidized protein hydrolase)(OPH) [Source:UniProtKB/Swiss-Prot;Acc:P13798]
5688	1	1	0	0	1	0	0	ENSP00000362224	STK40	gij156549058 ref XP_001607449.1		Serine/threonine-protein kinase 40 (EC 2.7.11.1)(SINK-homologous serine/threonine-protein kinase)(Sugen kinase 495)(SgK495) [Source:UniProtKB/Swiss-Prot;Acc:Q8N2I9]
2307	3	1	1	1	2	1	0	ENSP00000306117	DDX19A	gij156540306 ref XP_001599143.1	GB11621-PA	ATP-dependent RNA helicase DDX19A (EC 3.6.1.-)(DEAD box protein 19A)(DDX19-like protein) [Source:UniProtKB/Swiss-Prot;Acc:Q9NUU7]
533	2	1	1	1	1	1	0	ENSP00000371694	ABR	gij156553970 ref XP_001602910.1	GB19108-PA	Active breakpoint cluster region-related protein [Source:UniProtKB/Swiss-Prot;Acc:Q12979]
3423	1	1	1	1	1	1	0	ENSP00000251775	SNX4	gij156545826 ref XP_001606188.1	GB10550-PA	Sorting nexin-4 [Source:UniProtKB/Swiss-Prot;Acc:O95219]
1991	1	1	1	1	1	1	0	ENSP00000369706		gij156550145 ref XP_001606069.1	GB14858-PA	
2590	1	0	1	1	1	1	0	ENSP00000305924	PPP4R4	lcl hmm276244	GB11078-PA	Uncharacterized protein KIAA1622 [Source:UniProtKB/Swiss-Prot;Acc:Q6NUP7]
2671	1	1	1	1	1	1	0	ENSP00000258821	TTC5	gij156555688 ref XP_001602708.1	GB19566-PA	Tetratricopeptide repeat protein 5 (TPR repeat protein 5) [Source:UniProtKB/Swiss-Prot;Acc:Q8N0Z6]
4315	1	0	0	2	2	1	0	ENSP00000370150	WRNIP1	gij156553266 ref XP_001599519.1	GB13810-PA	ATPase WRNIP1 (Werner helicase-interacting protein 1) [Source:UniProtKB/Swiss-Prot;Acc:Q96S55]
2846	1	1	1	1	1	1	0	ENSP00000345456	PARN	gij156548166 ref XP_001607788.1	GB12931-PA	Poly(A)-specific ribonuclease PARN (EC 3.1.13.4)(Polyadenylate-specific ribonuclease)(Deadenylating nuclease)(Deadenylation nuclease) [Source:UniProtKB/Swiss-Prot;Acc:O95453]
4095	1	1	1	0	1	1	0	ENSP00000225519	SHPK	gij156544327 ref XP_001607277.1		Sedoheptulokinase (SHK)(EC 2.7.1.14)(Carbohydrate kinase-like protein) [Source:UniProtKB/Swiss-Prot;Acc:Q9UHH6]

2838	2	1	0	2	1	0	0	ENSP00000345144	RCBTB2	gij156546048 ref XP_001600404.1	GB16157-PA	RCC1 and BTB domain-containing protein 2 (Regulator of chromosome condensation and BTB domain-containing protein 2)(Chromosome condensation 1-like)(CHC1-L)(RCC1-like G exchanging factor) [Source:UniProtKB/Swiss-Prot;Acc:O95199]
3181	2	1	0	1	1	1	0	ENSP00000334409	GMPR2	gij156547587 ref XP_001603068.1	GB10786-PA	GMP reductase 2 (EC 1.7.1.7)(Guanosine 5'-monophosphate oxidoreductase 2)(Guanosine monophosphate reductase 2) [Source:UniProtKB/Swiss-Prot;Acc:Q9P2T1]
955	2	1	1	1	1	1	0	ENSP00000368462	FSTL5	gij156549290 ref XP_001600134.1	GB18393-PA	Follistatin-related protein 5 Precursor (Follistatin-like 5) [Source:UniProtKB/Swiss-Prot;Acc:Q8N475]
1367	2	1	1	1	1	1	0	ENSP00000342667	RNF19A	gij156538012 ref XP_001608205.1	GB14112-PA	E3 ubiquitin-protein ligase RNF19A (EC 6.3.2.-)(RING finger protein 19A)(Double ring-finger protein)(Dorfin)(p38) [Source:UniProtKB/Swiss-Prot;Acc:Q9NV58]
1354	1	1	1	1	1	1	0	ENSP00000335300	TPCN1	gij156537807 ref XP_001608064.1	GB15710-PA	CDNA FLJ20612 fis, clone KAT05509 [Source:UniProtKB/TrEMBL;Acc:Q9NWT7]
662	5	1	1	2	1	1	0	ENSP00000295713	SRGAP2	gij156543953 ref XP_001607307.1	GB13346-PA	SLIT-ROBO Rho GTPase-activating protein 2 (srGAP2)(Formin-binding protein 2) [Source:UniProtKB/Swiss-Prot;Acc:O75044]
1274	4	1	1	3	1	1	0	ENSP00000371892		gij156538289 ref XP_001603430.1	GB30127-PA	
3044	1	0	1	1	1	1	0	ENSP00000365788	SPAG6	gij156548324 ref XP_001603009.1	GB19953-PA	Sperm-associated antigen 6 (PF16 protein homolog)(Sperm flagellar protein)(Repro-SA-1) [Source:UniProtKB/Swiss-Prot;Acc:O75602]
3969	1	1	1	1	1	1	0	ENSP00000358307	NHLRC2	gij156537684 ref XP_001607897.1	GB30019-PA	NHL repeat-containing protein 2 [Source:UniProtKB/Swiss-Prot;Acc:Q8NBF2]
2885	1	2	1	1	1	1	0	ENSP00000294053	CLPB	gij156548966 ref XP_001607140.1	GB10557-PA	Caseinolytic peptidase B protein homolog (Suppressor of potassium transport defect 3) [Source:UniProtKB/Swiss-Prot;Acc:Q9H078]