

Appendix C

Database derived peptides probed for RII α binding

Table C.1: All database derived peptides probed for RII α binding. Depicted are the block number and position of the peptide (Bl., Pos.) corresponding to Fig. C.1, the peptide sequence, its name or swissprot identifier (SP-ID) and a description (mostly abbreviated, indicated by \dots) provided by the database. A + indicates RII α -binding.

Bl.	Pos.	Sequence	Name	Description
1	A01	+	QIEYLAKQIVDQAIQQA	AKAPis
1	A02	+	QIEYLAKQIPDQAIQQA	AKAPis-p
1	A03	+	KGADLIEEAASRIVDAVIEQVKAAG	Ht31
1	A04	+	KGADLIEEAASRIPDAPIEQVKAAG	Ht31-PP
1	A05	+	PEDAELVRLSKRLVENAVLKAVQQY	AKAP7 δ -wt
1	A06	+	PEDAELVRTSKRLVENAVLKAVQQY	AKAP7 δ -L304T
1	A07	+	PEDAELVRLSKRDVENAVLKAVQQY	AKAP7 δ -L308D
1	A08	+	PEDAELVRLSKRLVENAVEKAVQQY	AKAP7 δ -L314E
1	A09	+	PEDAELVRLSKRLPENAVLKAVQQY	AKAP7 δ -p
1	A10	+	PEDAELVRLSKRLPENAPLKAVQQY	AKAP7 δ -pp
1	A11	+	PEDAELVRLDKRLVENAVLKAVQQY	AKAP7 δ -S305D
1	A12	+	PEDAELVRLAKRLVENAVLKAVQQY	AKAP7 δ -S305A
1	A13	+	PEAAELVRLSKRLVENAVEKAVQQY	AKAP7 δ -L314E/D298A
1	A14	+	PEDAALVRLSKRLVENAVEKAVQQY	AKAP7 δ -L314E/E300A
1	A15	+	PEDAELVRLAKRLVENAVEKAVQQY	AKAP7 δ -L314E/E300A
1	A16	+	PAAAELVRLAKRLVENAVEKAVQQY	AKAP7 δ -L314E/E297A/ D298A/S305A
1	A17	+	PEDAELVRLSKRLVENAVEKAVQAY	AKAP7 δ -L314E/Q319A

**row A
(control
peptides)
identical
for all
blocks**

Bl.	Pos.	Sequence	SP-ID	Description
1	B01	KEAAENSLVAYKAASDIAMTELPPT	143E	14-3-3 protein epsilon (14-3-3E) (Mito...
1	B02	LSSQPTIPVGHAGLVLLGAVITG	1A36	HLA class I histocompatibility antigen...
1	B03	PSSQPTVHIVGHAGLVLLGAVITG	1A23	HLA class I histocompatibility antigen...
1	B04	PSSQPTVPIVGHAGLVLLGAVITG	1A24	HLA class I histocompatibility antigen...
1	B05	PSSQPTIPVGHAGLVLFVAVIAG	1A66	HLA class I histocompatibility antigen...
1	B06	PSSQPTIPVGHAGLVLFVAVIAG	1A33	HLA class I histocompatibility antigen...
1	B07	PSSQPTIPVGHAGLVLFVAVIAG	1A74	HLA class I histocompatibility antigen...
1	B08	PSSQPTIPVGHAGLVLFVAVIAG	1A34	HLA class I histocompatibility antigen...
1	B09	PSSQPTIPVGHAGLVLFVAVIAG	1A68	HLA class I histocompatibility antigen...
1	B10	PSSQPTIPVGHAGLVLLGAVIAG	1A80	HLA class I histocompatibility antigen...
1	B11	EPSSQSTVPIVGVAVLAVLVVVI	1B81	HLA class I histocompatibility antigen...
1	B12	EPSSQSTVPIVGVAVLAVLVVVI	1B82	HLA class I histocompatibility antigen...
1	B13	+ YIALNEDLRSWTAADTA AQISQRKL	1C17	HLA class I histocompatibility antigen...
1	B14	KPSSQSTIPVGVAVLAVLVVVA	1B73	HLA class I histocompatibility antigen...
1	B15	EPSSQPTIPVGVAVLAVLAVLAV	1C16	HLA class I histocompatibility antigen...
1	B16	KPSSQPTIPVGVAVLAVLAVLAV	1C04	HLA class I histocompatibility antigen...
1	B17	EPSSQPTIPVGVAVLAVLAVLAV	1C07	HLA class I histocompatibility antigen...
1	C01	PTIPNLGIVSGPAVLAVLAVLAVLA	1C17	HLA class I histocompatibility antigen...
1	C02	KPSSQPTIPVGVAVLAVLAVLAV	1C18	HLA class I histocompatibility antigen...
1	C03	HGALVQLLQSFMLLAGVLAIVLVQV	209L	CD209 antigen-like protein 1 (Dendriti...
1	C04	+ ISKEHWNPTIVALVYVNLKTLMEMN	2A5A	Serine/threonine protein phosphatase 2...
1	C05	ELVSDANQHVKSALASVIMGLSPIL	2AAA	Serine/threonine protein phosphatase 2...
1	C06	NEVIGIRQLSLSLLPAIVELAEDAK	2AAA	Serine/threonine protein phosphatase 2...
1	C07	PFLTDTIYDEDEVLLALAEQLGTFT	2AAA	Serine/threonine protein phosphatase 2...
1	C08	ELVSDTNQHVKSALASVIMGLSTIL	2AAB	Serine/threonine protein phosphatase 2...
1	C09	PFLTDTIYDEDEVLLALAEQLGNFT	2AAB	Serine/threonine protein phosphatase 2...
1	C10	+ DAPEFHSRYITTVIQRIFYTVNRSW	2ACA	Serine/threonine protein phosphatase 2...
1	C11	+ GSTFQNTYNLKDIAGEAISFASGKI	2ACA	Serine/threonine protein phosphatase 2...
1	C12	+ LSRYNDAQASSRRIERIFSGAVTRG	2ACA	Serine/threonine protein phosphatase 2...
1	C13	+ EASEFHSRYITTVIQRIFYAVNRSW	2ACC	Serine/threonine protein phosphatase 2...
1	C14	+ QSEYSWRKMLSGIAAFLGLLIFLLV	2DOB	HLA class II histocompatibility antige...
1	C15	DAASVSSIQVGVVEALIQSADTLF	3BP1	SH3-domain binding protein 1 (3BP-1).
1	C16	EPEKQPMNAASGAAMSLAGAEKNGL	4F2	4F2 cell-surface antigen heavy chain (...)
1	C17	+ LLLLFWLWGLMGLAGAVVIHVRAPR	4F2	4F2 cell-surface antigen heavy chain (...)
1	D01	AEKVREAIIDEGIAAATIFSPSRDVV	5N1A	Cytosolic 5-nucleotidase IA (EC 3.1.3.
1	D02	PQRVTLTLPLVNAARTVIFVATGEG	6PGL	6-phosphogluconolactonase (EC 3.1.1.31...
1	D03	FIQMLSSGPAWLAIVLLVITISLLPD	A11A	Potential phospholipid-transporting AT...
1	D04	VFAQMLSSVSTWLAHILFISLFP	A11C	Potential phospholipid-transporting AT...
1	D05	ILEYTWLEAVIFLIGHIVANVPEGL	A1A1	Sodium/potassium-transporting ATPase a...
1	D06	YTLTNSNPEITPFLFIHANIPLPL	A1A1	Sodium/potassium-transporting ATPase a...
1	D07	TGVAVFLGVFFFVLSLILGYSWLEA	A1A2	Sodium/potassium-transporting ATPase a...
1	D08	YTLTNSNPEITPFLFIHANIPLPL	A1A2	Sodium/potassium-transporting ATPase a...
1	D09	ILGYTWLEAVIFLIGHIVANVPEGL	A1A3	Sodium/potassium-transporting ATPase a...
1	D10	LLGYGWLEAIIHFLIGHIVANVPEGL	A1A4	Sodium/potassium-transporting ATPase a...
1	D11	YTLTNSNPEITPFLFIHANIPLPL	A1A4	Sodium/potassium-transporting ATPase a...
1	D12	GVTEEAPLKLKSAVHKAVLTIDEKG	A1AT	Alpha-1-antitrypsin precursor (Alpha-1...
1	D13	KLDLYYGTLLKKLAPPVTLTSAEP	A1B1	Adapter-related protein complex 1 beta...
1	D14	TLDDLQTKVNYVVQEAIVIKDIF	A1B1	Adapter-related protein complex 1 beta...
1	D15	PNLLSPLSVALALSHLALGAQNHT	A2AP	Alpha-2-antiplasmin precursor (Alpha-2...
1	D16	TLDDLQTKVNYVVQEAIVIRIDIF	A2B1	Adapter-related protein complex 2 beta...
1	D17	NVVEESARASVSVLGDILGSAMQNT	A2MG	Alpha-2-macroglobulin precursor (Alpha...
1	E01	SISIPVKSADIAPVARLLIYAVLPTG	A2MG	Alpha-2-macroglobulin precursor (Alpha...
1	E02	TQSPHQRQHASDALSPVLAEEFTFRY	A2S3	Amyotrophic lateral sclerosis 2 chromo...
1	E03	SPSMNVVALYVGIAGVVAALIHGI	A33	Cell surface A33 antigen precursor (Gl...
1	E04	STAQLIINTEKTVIGSVLLRELKPV	A3B1	Adapter-related protein complex 3 beta...
1	E05	+ LYFHLAPKAEVGVIAKALVRLLRSH	A3B2	Adapter-related protein complex 3 beta...
1	E06	MLEYLHQSKKEYVIVNLVKGIAELA	A4E1	Adapter-related protein complex 4 epsi...
1	E07	QQGNLLEKRVGYLAVSLFLHESHEL	A4E1	Adapter-related protein complex 4 epsi...
1	E08	+ VKQNVKMSSESQAALPSALKTLQQKL	A4E1	Adapter-related protein complex 4 epsi...
1	E09	+ DPGALGRLGAWALLFFLVTTLLASA	AAAT	Neutral amino acid transporter B(0) (A...
1	E10	+ GQVEEGMNLGLVVFVAVFVVALRK	AAAT	Neutral amino acid transporter B(0) (A...
1	E11	SSVGAAGIPAGGVLTLAHLEAVNL	AAAT	Neutral amino acid transporter B(0) (A...
1	E12	MPAYSGPGSVPGALDYAFASSALYG	AAC2	Alpha-actinin 2 (Alpha actinin skeleta...
1	E13	PWIAKVEEVGRLAAGLAGSLEEQM	AAC3	Alpha-actinin 3 (Alpha actinin skeleta...
1	E14	GITGARNLAVSQVVKAVLDVFEEG	AACT	Alpha-1-antichymotrypsin precursor (AC...
1	E15	GFLVAKQDVLISLLPVYVHLPLVAKA	AASS	Alpha-aminoadipic semialdehyde synthas...
1	E16	EGEYTPGTLVQIFLSVIVGALNLGN	AB11	Bile salt export pump (ATP-binding cas...
1	E17	SNEGLHFSYVFRVISAVVLSATALG	AB11	Bile salt export pump (ATP-binding cas...
1	F01	VAKPVGVVDVINGALESVLSSSSREQ	ABB1	Amyloid beta A4 precursor protein-bind...
1	F02	+ EPTTGMDPKARRFLVNLILDLLIKTG	ABC2	ATP-binding cassette, sub-family A, me...
1	F03	EDWIVTRGLVAMAVEGVVGFLLTIM	ABC2	ATP-binding cassette, sub-family A, me...
1	F04	LDYLLQGTDDVIAIFIIVAMSFVPA	ABC2	ATP-binding cassette, sub-family A, me...
1	F05	LKEVMKTMGLNNAVHVVAVFITGFV	ABC2	ATP-binding cassette, sub-family A, me...
1	F06	LKYGVLMHSHVVIIWFLAVYAVA	ABC2	ATP-binding cassette, sub-family A, me...
1	F07	PWVLAFAEIPFLVLFVIFLLGLRQKK	ABC2	ATP-binding cassette, sub-family A, me...
1	F08	+ RLRGISWKDEARVVKWALEKLELTK	ABC2	ATP-binding cassette, sub-family A, me...
1	F09	WFEVPSAYVFLIVINLFIGITATV	ABC2	ATP-binding cassette, sub-family A, me...

Bl.	Pos.	Sequence	SP-ID	Description
1	F10	IGKNLFAMVVEGVVYFLLTLLVQRH	ABCR	Retinal-specific ATP-binding cassette...
1	F11	IMHGRILHYSDFILFLFLAFSTA	ABCR	Retinal-specific ATP-binding cassette...
1	F12	LIQSLESNPLTKIAWRAAKPLLMGK	ABCR	Retinal-specific ATP-binding cassette...
1	F13	YIGINTFDYLGSLSYVVIAPIFS	ABD4	ATP-binding cassette, sub-family D, me...
1	F14	AYTQSLASVAYLINTLANNVLQML	ABI2	Abl-interactor 2 (Abelson interactor 2...
1	F15	TLSKTKNLRLLILVGRFLMWEEPEI	ABM2	Probable C- <i>ε</i> U editing enzyme APOBEC-2...
1	F16	RYGAAEPHTIAAFLGGAAAEQEVIKI	ABP1	Amyloid protein-binding protein 1 (Amy...
1	F17	NKDDDESPGLYGFLHVIVHSAKGFK	ABR	Active breakpoint cluster region-relat...
1	G01	RVTNDTESDINYLKMALEKIAFLP	ACE	Angiotensin-converting enzyme, somatic...
1	G02	AQQARVQWLLLLFLGIALLVATLGL	ACE	Angiotensin-converting enzyme, somatic...
1	G03	SSVKEDWKYVAMVIDRIFLWFLIIV	ACH2	Neuronal acetylcholine receptor protei...
1	G04	KEIQDDWKYVAMVIDRIFLWVFTLV	ACH3	Neuronal acetylcholine receptor protei...
1	G05	KEVEDDWKYVAMVVDVRFVFLWVFIIV	ACH6	Neuronal acetylcholine receptor protei...
1	G06	IGKYMFLTVMFVIAIIIIVIVINT	ACHA	Acetylcholine receptor protein, alpha...
1	G07	TLSISVLLSLTVFLLVIVELIPSTS	ACHA	Acetylcholine receptor protein, alpha...
1	G08	GLSIFALLTLTVFLLLLADKVPETS	ACHB	Acetylcholine receptor protein, beta c...
1	G09	SGEKTSVAISVLLAQSVFLLISKR	ACHD	Acetylcholine receptor protein, delta...
1	G10	PTTHAMSPRLRHVLELLPRLLGSP	ACHE	Acetylcholine receptor protein, epsilo...
1	G11	QSVSEDKYVAMVIDRFLWVIFV	ACHN	Neuronal acetylcholine receptor protei...
1	G12	NVGHQDVKDVQFAVEQVLQEEHFDA	ACPH	Acylamino-acid-releasing enzyme (EC 3...
1	G13	GMVTHNVPYEGYALPHAIMRLDLAG	ACTS	Actin, alpha skeletal muscle (Alpha-ac...
1	G14	IMPFETNVPAMYVAIQAVLSLYASG	ACTS	Actin, alpha skeletal muscle (Alpha-ac...
1	G15	GVTHTVPIYEGYALPHAILRLDLAG	ACT2	Actin, cytoplasmic 2 (Beta-actin 2).
1	G16	DLVGDSEGLHEVVAFAIHKSDMDL	ACTY	Beta-centractin (Actin-related protei...
1	G17	DLIGEESEGIHEVLVFAIQKSDMDL	ACTZ	Alpha-centractin (Centractin) (Centros...
1	H01	HAPAEQLRASFSVAVPVLANPAATSG	ACY3	Aspartoacylase 2 (EC 3.5.1.15) (Amino...
1	H02	VVLHPRTISLESILAVILAQLLSLSM	AD02	ADAM 2 precursor (A disintegrin and me...
1	H03	PGSAQEKSIERRFLNGLFSLKQPRD	AD13	Protein AD-013 (x0008).
1	H04	GVNMDHSTSLGVASSIAHELGHSL	AD15	ADAM 15 precursor (EC 3.4.24.-) (A dis...
1	H05	TSSLTTGLLLSLLVLLVLMGASY	AD15	ADAM 15 precursor (EC 3.4.24.-) (A dis...
1	H06	SINTFGKFLADNIVGSLVFLIFW	AD17	ADAM 17 precursor (EC 3.4.24.86) (A di...
1	H07	RTVHAGEVGS AEVVKAEVDILKTER	ADA	Adenosine deaminase (EC 3.5.4.4) (A den...
1	H08	QDVKSAGPQSLLASVIAEKSRSPS	ADDB	Beta adducin (Erythrocyte adducin beta...
1	H09	RDLSRITLDAQDVLAVHLVQMAFKYL	AFAD	Afadin (Af-6 protein).
1	H10	VARRNPFVFPATLLTVAVHFEEVAK	AFAM	Afamin precursor (Alpha-albumin) (Alph...
1	H11	AAQANKESSESISIRLLAIVADLY	AFY1	Ankyrin repeat and FYVE domain protei...
1	H12	ESADHLAHEVSLAVFQLAGGIGERP	AGM1	Phosphoacetylglucosamine mutase (EC 5...
1	H13	FNQAAGDAISDMLVIEAILALKGLT	AGM1	Phosphoacetylglucosamine mutase (EC 5...
1	H14	HFDPTTAFRAPDVARALLRQIQVSR	AGRN	Agrin precursor.
1	H15	TVPTTAPSPAPSLVASAFGESGSTD	AGRN	Agrin precursor.
1	H16	QADFVLELDPALAPVVSRELRAL	AIP	AH receptor-interacting protein (AIP).
1	H17	NTDEAQEELAWKIAKMIVSDIMQQA	AK10	A kinase anchor protein 10, mitochondr...
1	I01	EHSQKQVQFAEALATHILSLATEMA	AK11	A-kinase anchor protein 11 (Protein ki...
1	I02	RAFSLKERAISGLANFLVSEALSNA	AK11	A-kinase anchor protein 11 (Protein ki...
1	I03	VKKQIFNTVVARFAADLAEELVFEG	AK11	A-kinase anchor protein 11 (Protein ki...
1	I04	VNLDKKAVALAEKIVAEAEKAEREL	AK11	A-kinase anchor protein 11 (Protein ki...
1	I05	VVKLYAKDLSSEVIEAFIELSQVD	AK11	A-kinase anchor protein 11 (Protein ki...
1	I06	NGILELETKSSKLVQNIQTAVDQF	AK12	A-kinase anchor protein 12 (A-kinase a...
1	I07	TQDKNYEDELTVQVALALVEDVINYA	AK14	A-kinase anchoring protein 14 (Protein...
1	I08	ADDLAEVLRSLKRLVENAVLKAQQY	AK7G	A-kinase anchor protein 7 isoform gamm...
1	I09	HYKETWKALEALVAKGLVQALGLSN	AKA1	Alcohol dehydrogenase [NADP+] (EC 1.1...
1	I10	LVDDPLEYQAGLLVQNAIQQAIAEQ	AKA2	A-kinase anchor protein 2 (Protein kin...
1	I11	WLKSEGDNYSATLLEPAASSLSPDH	AKA2	A-kinase anchor protein 2 (Protein kin...
1	I12	LTDTVQNKQLQAVLQVVAASELNV	AKA3	A-kinase anchor protein 3 (Protein kin...
1	I13	QYETLLIETASSLVKNAIQLSIEQL	AKA5	A-kinase anchor protein 5 (A-kinase an...
1	I14	GLTLGVSSSSGEALTNAAQPSSETV	AKA6	A-kinase anchor protein 6 (Protein kin...
1	I15	GGEDKKETPEEVAADVLAEVITAAV	AKA8	A-kinase anchor protein 8 (A-kinase an...
1	I16	RSNPGTFMRSDPFVPPAASSEPLST	AKA8	A-kinase anchor protein 8 (A-kinase an...
1	I17	ELMLNISSRLQAAVEKLLLEAISETS	AKA9	A-kinase anchor protein 9 (Protein kin...
1	J01	ESFSDWRGELLALQVFLERSVL	AKA9	A-kinase anchor protein 9 (Protein kin...
1	J02	KIVNLQKIVEEKVAAALVSIQLEFA	AKA9	A-kinase anchor protein 9 (Protein kin...
1	J03	LEKQYQEQLLEEVAKVIVSMSIAFA	AKA9	A-kinase anchor protein 9 (Protein kin...
1	J04	EEGLDRNEEIKRAAFQISQVISEA	AKP1	A kinase anchor protein 1, mitochondri...
1	J05	ALPGEQVIVELLHAIITDVEDAKA	AKY1	Ankyrin repeat and MYND domain protei...
1	J06	QKLYLDRNLIAAVPAGFLGLKALR	ALS	Insulin-like growth factor binding pro...
1	J07	KEIKSYLKRIFQLVRFPELPEEG	ALS2	Alsln (Amyotrophic lateral sclerosis p...
1	J08	PEPGYVVTTSSGLLPVLLPRLYPLP	ALS2	Alsln (Amyotrophic lateral sclerosis p...
1	J09	SEHGKPMPSQPLLEAIPNLHSP	ALS2	Alsln (Amyotrophic lateral sclerosis p...
1	J10	PVVLITLLVIVPVVLLAIAIFIRW	AMD	Peptidyl-glycine alpha-amidating mono...
1	J11	YNPTEKAESSEDLVAEIANVVQKDD	AMD	Peptidyl-glycine alpha-amidating mono...
1	J12	GYTHGMHTLAFMAAESLLVTRTAH	AMFR	Autocrine motility factor receptor (EC...
1	J13	SGAHVWGSSAAGLAGGVA AAVLLAL	AMNL	Amnionless protein precursor.
1	J14	VENGPETGGAGRLARALLADVAENG	AMNL	Amnionless protein precursor.
1	J15	AISPWKTYQLVYFLDKILQKSPPLP	AMPB	Aminopeptidase B (EC 3.4.11.6) (Ap-B)...
1	J16	HQNKAAGYTPIMLAALAAVAEAKDMR	AN15	Ankyrin repeat domain protein 15 (Kidn...
1	J17	GGAAGDEAREAAVRAVARLLGPG	ANAG	Alpha-N-acetylglucosaminidase precurs...
1	K01	PVLPAFAGHVPEAVTRVFPQNVTK	ANAG	Alpha-N-acetylglucosaminidase precurs...

Bl.	Pos.	Sequence	SP-ID	Description
1	K02	SFLLAPEDPIFFIIGSLFLRELIKE	ANAG	Alpha-N-acetylglucosaminidase precursor
1	K03	STLLFTHIPAIFVHLHLYEELKLN	ANC1	Anaphase promoting complex subunit 1
1	K04	ELLVAWNTVSTGLVPPAALGLVSSR	ANC2	Anaphase promoting complex subunit 2
1	K05	SEAEQQAGAAALAPEIVIKVEKLD	ANC4	Anaphase promoting complex subunit 4
1	K06	QKLSNDRIRVGEVLSIFFELEADE	ANGT	Angiotensinogen precursor [Contains: A...
1	K07	+ GARSGHQVVEMLLDRAAPILSKTK	ANK3	Ankyrin 3 (ANK-3) (Ankyrin G).
1	K08	+ SRTSSPVKSSFLAPSALKLSTPSS	ANK3	Ankyrin 3 (ANK-3) (Ankyrin G).
1	K09	QAYLEEKRKAELLYQILPHSVAEQ	ANPA	Atrial natriuretic peptide receptor A...
1	K10	+ TSYPSWARVGPVELALAQVKARP	ANPA	Atrial natriuretic peptide receptor A...
1	K11	DSYLFSLTRVRPAIEYALRSVEGNG	ANPC	Atrial natriuretic peptide clearance r...
1	K12	SINKELQNSIIDLLNSVFDQLGSYR	ANRE	Kidney androgen-regulated protein prec...
1	K13	YEIHLTGQAFEVAYQLALQAQKSR	ANS1	Ankyrin repeat and SAM domain protein...
1	K14	AFLEVNEEGSEAAASTAVVIAGRSL	ANT3	Antithrombin-III precursor (ATIII) (PR...
1	K15	+ TIDRETSGNLEQLLAVVKSIRSIP	ANX5	Annexin A5 (Annexin V) (Lipocortin V)...
1	K16	KAMKFGTDEQAIVDVVANRSNDQR	ANX7	Annexin A7 (Annexin VII) (Synexin) (OK...
1	K17	+ AVQNRFHGDAQVALLGLASVIKNTF	ANX9	Annexin A9 (Annexin 31) (Annexin XXXI)...
1	L01	KSMKAGTDEETLIRIVVTRAEVDL	ANXD	Annexin A13 (Annexin XIII) (Annexin, i...
1	L02	FLFWNLYKAPILLALVAGEAAGIM	AOF2	Amine oxidase flavin containing domain...
1	L03	SVVATPHEKIVHILSNVGEIHMKT	APB1	Amyloid beta A4 precursor protein-bind...
1	L04	VFYAEDAQLIAQIQAFAAAYSQF	APB3	Amyloid beta A4 precursor protein-bind...
1	L05	KGRSTERNVSEALASALQLLAREQ	APF	Apolipoprotein F precursor (Apo-F).
1	L06	VSDLEETTTLASFISEVSSAPYWG	APF	Apolipoprotein F precursor (Apo-F).
1	L07	+ PFRYQTTTTERPFIQKLFPRVAADG	APG5	Autophagy protein 5-like (APG5-like).
1	L08	VKLTDVAPVSVFVLVDVVYLVYESK	APL1	Apolipoprotein L1 precursor (Apolipopr...
1	L09	QQVEGTAQEAVSAAGAAAQVVDQA	APM2	Adipose most abundant gene transcript...
1	L10	GPLREDFSLSSSALIGLLVIAVAIA	APP2	Amyloid-like protein 2 precursor (Sper...
1	L11	LSARSRNSAERLLEAVAATAAEEP	APS	SH2 and PH domain-containing adapter p...
1	L12	KGNFFTMLAGSLAVTIAIYVGGNV	AQPA	Aquaporin 10 (Small intestine aquaporin...
1	L13	RNKGVPAGLEPVVVGMLILALGLSM	AQPA	Aquaporin 10 (Small intestine aquaporin...
1	L14	PVVAQAQAQAAVQAAAAQAQAAQAAA	AR3A	AT-rich interactive domain-containing...
1	L15	NLAAAEEGPLEPAVVDVDFNQAWHLF	AR74	Aflatoxin B1 aldehyde reductase member...
1	L16	+ RDRASYEARERHVAERLLMHLEEMQ	ARH1	Rho guanine nucleotide exchange factor...
1	L17	NPDQQHLEEAIIQGIVAEINTKT	ARH3	Rho guanine nucleotide exchange factor...
1	M01	+ EKLKSRPAHLGVFLRYIFSQADPSP	ARHB	Rho guanine nucleotide exchange factor...
1	M02	DTQSLVGSPTRIAPHIIGAEEDDDF	ARHC	Rho guanine nucleotide exchange factor...
1	M03	FEVSDTMSAVLQVATGVISTLQIHQ	ARLY	Argininosuccinate lyase (EC 4.3.2.1) (...)
1	M04	VKDIKAVAPANTAVQVIAPPERKIS	ARM1	Actin related protein M1.
1	M05	TKLHVAGRDITELLMQLLLASGHTF	ARM2	Actin related protein M2 (Actin-relate...
1	M06	MFESFNVPGLYIAVQAVLALAASWT	ARP3	Actin-like protein 3 (Actin-related pr...
1	M07	+ NNTEKTVKKIKAFVEQVANVVLYSS	ARRS	S-arrestin (Retinal S-antigen) (48 kDa...
1	M08	+ EINVERDEKLKLVLDKLLLYLRIVH	ARS2	Arsenite-resistance protein 2.
1	M09	PGVTHELASSDLLPTLAALAGAPL	ARSA	Arylsulfatase A precursor (EC 3.1.6.8)...
1	M10	YAVPDKINQADYALDAAVTLLEFYE	ART1	Adipocyte-derived leucine aminopeptida...
1	M11	+ ELLQSETDKVVRVAIAALRNLSLDR	ARVC	Armadillo repeat protein deleted in ve...
1	M12	+ LVASSQSVREAKAASHVLQTVVWSYK	ARVC	Armadillo repeat protein deleted in ve...
1	M13	+ EFKTLSEEEIEKVLKNIFNISLQRK	ARY1	Arylamine N-acetyltransferase 1 (EC 2...
1	M14	+ EPKTLTEEEVEEVLKNIFKISLGRN	ARY2	Arylamine N-acetyltransferase 2 (EC 2...
1	M15	PLHEAVVQPIQILEIVLDASYKTL	AS15	Ankyrin repeat and SOCS box protein 15...
1	M16	+ VINLIQGTPISRILVALLVRLGLGTEK	ASB8	Ankyrin repeat and SOCS box protein 8...
1	M17	LVVETLLDEEKRVQALMQSLNML	ASML	N-acetylserotonin O-methyltransferase...
1	N01	LLLDASLEGEFDLVQRIIYEVEDFS	ASP1	Apoptosis stimulating of p53 protein 1...
1	N02	+ GSAAMAASSVSVLSSFLKLYRKP	AT7A	Copper-transporting ATPase 1 (EC 3.6.3...
1	N03	PIQQFADKLSGYFVPFVFSIATL	AT7A	Copper-transporting ATPase 1 (EC 3.6.3...
1	N04	IVLATSIAYVSLVILVVAEAKAE	AT7B	Copper-transporting ATPase 2 (EC 3.6.3...
1	N05	PIQLADRFSGYFVPIIIMSTLTL	AT7B	Copper-transporting ATPase 2 (EC 3.6.3...
1	N06	EGEETITAFVEPFVILLILIANAV	ATA1	Sarcoplasmic/endoplasmic reticulum cal...
1	N07	FRGAIYYFKIAVALAVAIIPEGLPA	ATA1	Sarcoplasmic/endoplasmic reticulum cal...
1	N08	EGEETITAFVEPFVILLILVANAV	ATA2	Sarcoplasmic/endoplasmic reticulum cal...
1	N09	IRGAIYYFKIAVALAVAIIPEGLPA	ATA2	Sarcoplasmic/endoplasmic reticulum cal...
1	N10	EGEETTTAFVEPLVIMLILVANAV	ATA3	Sarcoplasmic/endoplasmic reticulum cal...
1	N11	LRGAVVYFKIAVALAVAIIPEGLPA	ATA3	Sarcoplasmic/endoplasmic reticulum cal...
1	N12	LWELVLEQFEDLLVRILLALVLSF	ATA3	Sarcoplasmic/endoplasmic reticulum cal...
1	N13	AVQIGKAGLLMSAITVILVLYFVI	ATB1	Plasma membrane calcium-transporting A...
1	N14	QLVWEALQDVTLLILEIAIIVSLGL	ATB1	Plasma membrane calcium-transporting A...
1	N15	AVQIGKAGLVMSAITVILVLYFTV	ATB2	Plasma membrane calcium-transporting A...
1	N16	QLVWEALQDVTLLILEIAIIVSLGL	ATB2	Plasma membrane calcium-transporting A...
1	N17	AVQIGKAGLVMSAITVILVLYFVI	ATB3	Plasma membrane calcium-transporting A...
1	O01	QLVWEALQDVTLLILEIAIIVSLGL	ATB3	Plasma membrane calcium-transporting A...
1	O02	AGWIEGAAILFSVIVLVVTAFNW	ATB4	Plasma membrane calcium-transporting A...
1	O03	ELVWEALQDVTLLILEIAIIVSLGL	ATB4	Plasma membrane calcium-transporting A...
1	O04	RQIPSPDVFLPKVLDLIVNGISNS	ATB4	Plasma membrane calcium-transporting A...
1	O05	LFDPSPNLLASQLLSGAIPQIPASS	ATBF	Alpha-fetoprotein enhancer binding pro...
1	O06	EDAVSIATAVLVVTVAFIQEYRSE	ATC4	Probable calcium-transporting ATPase K...
1	O07	IGFLRNHMFYLSVGLSILGLAVIY	ATC4	Probable calcium-transporting ATPase K...
1	O08	NLGALDLLFLTGLASSVFIKSELLK	ATC4	Probable calcium-transporting ATPase K...
1	O09	+ PRSVRDITLSRALILKILMSAHH	ATC4	Probable calcium-transporting ATPase K...
1	O10	YLDQFKNPLILLLLGSALVSVLTKE	ATC4	Probable calcium-transporting ATPase K...

Bl.	Pos.	Sequence	SP-ID	Description
1	O11	NEKTPIAIEIEHFVDIAGLAILFG	ATHA	Potassium-transporting ATPase alpha ch...
1	O12	+ EWTGYTAFFVGLVQQIADLIIRKT	ATHL	Potassium-transporting ATPase alpha ch...
1	O13	NEKTPIAIEIEHFVHIVAGVAVSIG	ATHL	Potassium-transporting ATPase alpha ch...
1	O14	+ ADDQGGHPLLKMLLHLLAFSSAATG	ATIP	ATR-interacting protein (ATM and Rad3...
1	O15	+ GLGGAWAFVLRDVIYTLIHYNQRP	ATM	Serine-protein kinase ATM (EC 2.7.1.37...
1	O16	QIDHFLFISNLPFIVVELLMTLHEPA	ATM	Serine-protein kinase ATM (EC 2.7.1.37...
1	O17	LNALFVQGRETRLVLEVAQHLGEST	ATPB	ATP synthase beta chain, mitochondrial...
2	B01	SASLPPAQLLLRAAPTAVHPVRDYA	ATPB	ATP synthase beta chain, mitochondrial...
2	B02	ALYSIIQYFSVTLTLYSILSNLGDFO	ATY3	Probable cation-transporting ATPase 3...
2	B03	+ STDEYYYALAIIVMSIVSIVSSLY	ATY3	Probable cation-transporting ATPase 3...
2	B04	EVTYEPPPTAPTLTTLVLAISLLPIG	AVRB	Activin receptor type IIB precursor (E...
2	B05	KIQEVKEQVRTGLLVALLVGLSIVI	B3A2	Anion exchange protein 2 (Non-erythro...
2	B06	KSPFPVWMMVASLLPAILVFLIFIM	B3A2	Anion exchange protein 2 (Non-erythro...
2	B07	RVIGDFGVPIAILIMVLDYSIEDT	B3A2	Anion exchange protein 2 (Non-erythro...
2	B08	ARPPPPWMMVA AAVPALLVLILIFM	B3A3	Anion exchange protein 3 (Neuronal ban...
2	B09	EKTEGLMGVSELIVSTAVLGVLFSL	B3A3	Anion exchange protein 3 (Neuronal ban...
2	B10	RIIGDFGIPISILVMVLDYSITDT	B3A3	Anion exchange protein 3 (Neuronal ban...
2	B11	YLTGRVWVGLWLWVFLALVA AEGS	B3A3	Anion exchange protein 3 (Neuronal ban...
2	B12	EKTRNQMGVSELLISTAVQGILFAL	B3AT	Band 3 anion transport protein (Anion...
2	B13	PIWMMFASALPALLVFLIFLESQI	B3AT	Band 3 anion transport protein (Anion...
2	B14	QIQEVKEQRISGLLVAVLVGLSILM	B3AT	Band 3 anion transport protein (Anion...
2	B15	VGRVWIGFWLILLVVLVAFEGSPL	B3AT	Band 3 anion transport protein (Anion...
2	B16	STNASTPQSVSSVHYLAMALFQIE	BA1A	Bromodomain adjacent to zinc finger do...
2	B17	+ APQRKTNPDLAVMRLA ALEQNV E	BA2A	Bromodomain adjacent to zinc finger do...
2	C01	AVSPTTSPAVSLVSPAASPEISPE	BA2A	Bromodomain adjacent to zinc finger do...
2	C02	PAVFSVSPASSAVLPAVLEVPILT	BA2A	Bromodomain adjacent to zinc finger do...
2	C03	ALERKSDNPLDIATRLADLERNIE	BA2B	Bromodomain adjacent to zinc finger do...
2	C04	VPQNEKATSAQPAAVEAKPVDFFPS	BA2B	Bromodomain adjacent to zinc finger do...
2	C05	+ MGALARALLPLLAQWLLRAAPELA	BAE2	Beta secretase 2 precursor (EC 3.4.23.
2	C06	+ TLLRLPQKVFDAVVEAVARASLIP	BAE2	Beta secretase 2 precursor (EC 3.4.23.
2	C07	LHVTSQQGSSEPVVQDLAQVVEEVI	BAG1	BAG-family molecular chaperone regulat...
2	C08	SLVKGNLSRVLEALWELLQAILQA	BAP3	BAP1-associated protein 3 (BAP3).
2	C09	LVRSHLAALWPFVLGIVAEVLVLT	BASI	Basigin precursor (CD147 antigen) (Leu...
2	C10	APGAAGGEAPKAAEAAAAPAESAA	BASP	Brain acid soluble protein 1 (BASP1 pr...
2	C11	LSPEFFTSVVQGLSSLLGSLGARA	BAT3	Large proline-rich protein BAT3 (HLA-B...
2	C12	MQGEQQLLSEAVSRAAKAAGARP	BAT3	Large proline-rich protein BAT3 (HLA-B...
2	C13	LYLSVKQGEQKQVILMLLDNLDPNF	BAT8	Histone-lysine N-methyltransferase, H3...
2	C14	YFGFTWQTVTIFVAGVLTASLTIW	BAXA	Apoptosis regulator BAX, membrane isof...
2	C15	TSNDTIHRAVLFAEGIFTGESHVV	BBS2	Bardet-Biedl syndrome 2 protein.
2	C16	+ DASYSLILEVQTAINVLIQSDVPI	BBS2	Bardet-Biedl syndrome 7 protein (BBS2...
2	C17	+ EKEEVPEGMEEA AVASVLPARELQ	BC13	Bcl-2-like 13 protein (Mill protein) (...
2	D01	KSILLFGAAAVAILAVAIGVALAL	BC13	Bcl-2-like 13 protein (Mill protein) (...
2	D02	EPLVQDLQA AAVAVQSAVHELLEFA	BCA1	CRK-associated substrate (p130Cas) (Br...
2	D03	VAGPGREPLELEVAVEALARLQQGV	BCA1	CRK-associated substrate (p130Cas) (Br...
2	D04	PKKEGLAPPSPLVSDLLSELNISE	BCD2	Cytoskeleton-like bicaudal D protein h...
2	D05	VTKQSYMESVVTFLQDVVPQAYSGT	BCS3	Breast carcinoma amplified sequence 3...
2	D06	+ SHELRKILSLQLLSILQNA GPIF	BIG1	Brefeldin A-inhibited guanine nucleoti...
2	D07	+ SHREAWTNLLLF LTKVKISDNRF	BIG1	Brefeldin A-inhibited guanine nucleoti...
2	D08	SIGETSSQSVVAVDRIFTGSTRLD	BIG1	Brefeldin A-inhibited guanine nucleoti...
2	D09	SHELRSKVVSLQLLSVLQNA GPVF	BIG2	Brefeldin A-inhibited guanine nucleoti...
2	D10	SVGETSSQSVVAVDRIFTGSTRLD	BIG2	Brefeldin A-inhibited guanine nucleoti...
2	D11	SKHISKPVQEPLVLPVFGNLNSVM	BIR1	Baculoviral IAP repeat-containing prot...
2	D12	LTTGENYKTVNDIVSALLNAEDEKR	BIR2	Baculoviral IAP repeat-containing prot...
2	D13	LATGENYRLVNDVLVDLLNAEDEIR	BIR3	Baculoviral IAP repeat-containing prot...
2	D14	ANDANSAARARRLAQEAVTLSTSLP	BIR6	Baculoviral IAP repeat-containing prot...
2	D15	GLSSGTVGEASTALSSAAQVALQSL	BIR6	Baculoviral IAP repeat-containing prot...
2	D16	+ HQSNKGYSLASLLAKVAAGKEKSSN	BIR6	Baculoviral IAP repeat-containing prot...
2	D17	+ LIQTSSTEQLRTHRYLLDTLLSLL	BIR6	Baculoviral IAP repeat-containing prot...
2	E01	LSNSGVLESLLNLLDNLSP LQPQL	BIR6	Baculoviral IAP repeat-containing prot...
2	E02	+ RGNLPTSGNISGFIRRLFLQMLLED	BIR6	Baculoviral IAP repeat-containing prot...
2	E03	VLDIPMISWVVMVLSRLLDYVATVE	BIR6	Baculoviral IAP repeat-containing prot...
2	E04	+ LTFHLPHHVLSIASAIVNELKKIN	BIR6	Baculoviral IAP repeat-containing prot...
2	E05	ADLFNLTLEKAVIDFLVKHLSSELL	BKL5	BTB and kelch domain containing protei...
2	E06	LRYFNPDQENALIAIANWSELAS	BKL5	BTB and kelch domain containing protei...
2	E07	+ GAVYKGLSDERPVAVKVFSFANRQN	BMR2	Bone morphogenetic protein receptor ty...
2	E08	SGPDPLSSTSSSLYPLIKLAVEAT	BMR2	Bone morphogenetic protein receptor ty...
2	E09	FNKSEKYISENIVLDIFFEALNYE	BNA1	Amiloride-sensitive cation channel 1,...
2	E10	FNKSEQYIGENILVLDIFFEVLNYE	BNA2	Amiloride-sensitive cation channel 2,...
2	E11	DVSPLLRYMLPHLVSIHHVTGEE	BP28	Protein BAP28.
2	E12	GGPEILKGLEERLETVLGVISAVA	BP28	Protein BAP28.
2	E13	LSKNGEWYEVVKIAADILIKEEILS	BP28	Protein BAP28.
2	E14	+ LTKISLKNNDHLLASLLFEEYISY	BP28	Protein BAP28.
2	E15	+ LVQLVDTLGA EKFLWILLILFQY	BP28	Protein BAP28.
2	E16	QLRVLLAFYASTIVSALVAEDVSD	BP28	Protein BAP28.
2	E17	+ RLTSLLKTLATTLAPRVLP AIKKT	BP28	Protein BAP28.
2	F01	VSEVYLLSALAALQKVVETLPHFI	BP28	Protein BAP28.
2	F02	+ PISGQYTSVEDAVLKGVDPEFRIR	BPA1	Bullous pemphigoid antigen 1 isoforms...

Bl.	Pos.	Sequence	SP-ID	Description
2	F03	LKAEQSKKELDKVVTTAIKEETEKV	BPEA	Bullous pemphigoid antigen 1, isoforms...
2	F04	RQAEFHSVHALLEWLAEAEQTLR	BPEA	Bullous pemphigoid antigen 1, isoforms...
2	F05	WAKQHQQRLASALAGLIAKQELLEA	BPEA	Bullous pemphigoid antigen 1, isoforms...
2	F06	+ HKAEKPLRADYLIARVVTVLEKLI	BPL1	Biotin-protein ligase (EC 6.3.4.-) (B...
2	F07	+ ASTLILTPTSKDVLSNLVMISRKKE	BRC2	Breast cancer type 2 susceptibility pr...
2	F08	LEHRPRGNTASLIAVPAVLPSPFTPY	BU1B	Mitotic checkpoint serine/threonine-pr...
2	F09	SPYQVDFGIADLAHLLLFKEHLQV	BU1B	Mitotic checkpoint serine/threonine-pr...
2	F10	VNMEKNPREAPPVVPPLANAISAAL	BUB1	Mitotic checkpoint serine/threonine-pr...
2	F11	LPRLTPWIVAVAVILMVLGLLTIGS	BUTY	Butyrophilin precursor (BT) (Butyroph...
2	F12	+ ENREKVNDAQKLIVGIVVGLLLAAL	C166	CD166 antigen precursor (Activated leu...
2	F13	+ YRNGKVLHPLEGAVVIFFKKEMDPV	C166	CD166 antigen precursor (Activated leu...
2	F14	HGPLVLQLLSFTLLAGLLVQVSKVP	C209	CD209 antigen (Dendritic cell-specific...
2	F15	DSLQQTSMASQAALLEGLELLELLEPRE	C2B2	CD2 antigen cytoplasmic tail-binding p...
2	F16	PHNPPTPPSLDMFAEELAEETEPT	C2B2	CD2 antigen cytoplasmic tail-binding p...
2	F17	+ NITDLGAYKLAEALPSLAASLLRLS	C2TA	MHC class II transactivator (CIITA).
2	G01	+ DFRKKARQSIQGLEAAAFSEELTRS	C3AR	C3a anaphylatoxin chemotactic receptor...
2	G02	KLSEMKKMHEGDLAMALVLDEKDRLL	C5P2	CDK5 regulatory subunit associated pro...
2	G03	QFLDELMELEIFLAQRAVELSEED	C5P3	CDK5 regulatory subunit-associated pro...
2	G04	PGPVLQALPATIFLLFLLSAVYLG	C79A	B-cell antigen receptor complex associ...
2	G05	FDRVNFWSMVNVLVMMVVVSAIQVYVM	CA00	Protein CGI-100 precursor (UNQ397/PRO7...
2	G06	+ SIGLQNFIEAKDFVVKVIDRLSRDE	CA16	Collagen alpha 1(VI) chain precursor.
2	G07	AGAFLDIAEENLAATAAGLAEVPI	CA1E	Collagen alpha 1(XV) chain precursor.
2	G08	+ VKPSSTRGGVLFATIDAFQKVIYLG	CA1E	Collagen alpha 1(XV) chain precursor.
2	G09	+ RLGEQNFHKARRFVEQVARRLTLAR	CA26	Collagen alpha 2(VI) chain precursor.
2	G10	+ SIGYTNFTLEKNFVINVNRLGAIA	CA26	Collagen alpha 2(VI) chain precursor.
2	G11	+ IYDERGARQLGLALGPALGLLDGPF	CA35	Collagen alpha 3(V) chain precursor.
2	G12	+ GSFAWHMNRISVLLLVLAQLRDHS	CABI	Calcineurin-binding protein Cabin 1 (C...
2	G13	+ YKTSVTSADLANLLKRIATVPRTE	CABI	Calcineurin-binding protein Cabin 1 (C...
2	G14	+ HSGFIETEELKNFLKDLLEKANKTV	CABV	Calbindin (Vitamin D-dependent calcium...
2	G15	DFEAKQQYILHVAVTNVVPFEVSLT	CAD1	Epithelial-cadherin precursor (E-cadhe...
2	G16	VEAGLQIPAILGILGILALLLIL	CAD1	Epithelial-cadherin precursor (E-cadhe...
2	G17	DDPYSGHQFSSFLAPEAASGSNFTI	CAD6	Cadherin-6 precursor (Kidney-cadherin)...
2	H01	QSLYHFSVPEDVVLGTAIGRVKAND	CAD8	Cadherin-8 precursor.
2	H02	SPTYLLEVHENAALNSVIGQVTARD	CAD8	Cadherin-8 precursor.
2	H03	APSYIHEVQENAAAGTVVGRVHAKD	CADB	Cadherin-11 precursor (Osteoblast-cadh...
2	H04	ALLAGGTGLSLGALVIVLASALLL	CADF	Muscle-cadherin precursor (M-cadherin)...
2	H05	PLRAGQNILLVLAAMDLAGAEGGFS	CADG	Cadherin-16 precursor (Kidney-specific...
2	H06	SYEAAPSHEVVVVVQSAKLVGPGP	CADG	Cadherin-16 precursor (Kidney-specific...
2	H07	AGHQTGIPTVGMVAVGILLTLLVIG	CADH	Cadherin-17 precursor (Liver-intestine...
2	H08	GVIIDREAFSPPILELLLAEDIGL	CADN	Cadherin-23 precursor (Otocadherin).
2	H09	IQTAQRDLRESQAVYSLILVASDLG	CADN	Cadherin-23 precursor (Otocadherin).
2	H10	VRLPDDMSALQMAIIVLAILLFLAA	CADN	Cadherin-23 precursor (Otocadherin).
2	H11	VRTVVGLDRETTAAYMLILEAIDNG	CADN	Cadherin-23 precursor (Otocadherin).
2	H12	+ TNTQVEGGDEAAFLERLARREERRQ	CALD	Caldesmon (CDM).
2	H13	+ FQLQRPPQNLLRLLRKAVERSMLG	CANB	Calpain 11 (EC 3.4.22.-) (Calcium-acti...
2	H14	EEELNASQLQALLSIALEPARAHT	CANC	Calpain 12 (EC 3.4.22.-).
2	H15	+ LYLRQNSMGLFSALRHALAKESLVG	CANC	Calpain 12 (EC 3.4.22.-).
2	H16	KASQRQFEMEELILELAAQVLEDKG	CAQ1	Calsequestrin, skeletal muscle isoform...
2	H17	+ DKVTKQKQFQLKEIVLELVAQVLEHK	CAQ2	Calsequestrin, cardiac muscle isoform...
2	I01	IKFHLYLVPDALLTKAIDDEEDRF	CAR8	Caspase recruitment domain protein 8 (...)
2	I02	ERSLRPYSLVRPLLVSALRPVLLP	CARA	Caspase recruitment domain protein 10...
2	I03	+ EGFHLLGQPLSHLARLLDTPVWNKG	CARF	Caspase recruitment domain protein 15...
2	I04	+ ELYLRKRHHEPGVADRILRLQETS	CARF	Caspase recruitment domain protein 15...
2	I05	+ LIRSLYEMQEERLARKAARGNLVGH	CARF	Caspase recruitment domain protein 15...
2	I06	+ RLLDLATVKANGLAAFLLQHVQELP	CARF	Caspase recruitment domain protein 15...
2	I07	VGNNGISVGAQALALMLAKNVMLEE	CARF	Caspase recruitment domain protein 15...
2	I08	YTHLRISYNVYLAVYSIAHALDIY	CASR	Extracellular calcium-sensing receptor...
2	I09	+ EGFNFNPLKIEVFVQTLHLAAKSF	CB80	80 kDa nuclear cap binding protein (NC...
2	I10	+ RITQDAQLKSSKVVHKAVLQLN EEG	CBG	Corticosteroid-binding globulin precur...
2	I11	VPDQDELQLSKAAVTALASLYGTK	CBP1	Carboxypeptidase A1 precursor (EC 3.4...
2	I12	+ VKKAPDAEELDKVARLAAKALASVS	CBP4	Carboxypeptidase A4 precursor (EC 3.4...
2	I13	LEPVSNQRELYDLAKDAVEALYKVH	CBP5	Carboxypeptidase A5 precursor (EC 3.4...
2	I14	GNMHGDETVSRQVLIYLARELAAGY	CBPD	Carboxypeptidase D precursor (EC 3.4.1...
2	I15	PHHHTAPAKSPKILPDILKKIGDTP	CBS	Cystathionine beta-synthase (EC 4.2.1.
2	I16	RQMVFVGVVTAIDLLNFVAAQERDQK	CBS	Cystathionine beta-synthase (EC 4.2.1.
2	I17	+ MEQVAHQTTVMQFLELAKSLKVD	CC37	Hsp90 co-chaperone Cdc37 (Hsp90 chaper...
2	J01	APGRQFHGSASSLVEAVLISEGLGQ	CCAC	Voltage-dependent L-type calcium chann...
2	J02	EYLFLLIIFTVEAFKLVIAYGLLFHP	CCAC	Voltage-dependent L-type calcium chann...
2	J03	+ FKITRYWNSLSNLVASLLNSVRSIA	CCAC	Voltage-dependent L-type calcium chann...
2	J04	+ HIPTPGAALSWQAADAARQAKLMG	CCAC	Voltage-dependent L-type calcium chann...
2	J05	NSIIKAMVPLLHIALLVLFVIIYA	CCAD	Voltage-dependent L-type calcium chann...
2	J06	+ NWLTVQDNTANKALLALFTAEMLLK	CCAC	Voltage-dependent L-type calcium chann...
2	J07	PIYNRYRVEISIFFIYIIIIAFFMM	CCAC	Voltage-dependent L-type calcium chann...
2	J08	RTLWTTFIKSFQALPYVALLIVMLF	CCAS	Voltage-dependent L-type calcium chann...
2	J09	YFVTLIIIGSFFVNLNLVGLVLSGEF	CCAC	Voltage-dependent L-type calcium chann...
2	J10	EYAFLLIIFTVETFLKIIAYGLLLHP	CCAD	Voltage-dependent L-type calcium chann...
2	J11	PIYNHRVEISIFFIYIIIIIVAFFMM	CCAD	Voltage-dependent L-type calcium chann...

Bl.	Pos.	Sequence	SP-ID	Description
2	J12	+	PNSSKQTVLSWQAAIDAARQAKAAQ	CCAD Voltage-dependent L-type calcium chann...
2	J13		YEQSKMFNDAMDILNMVFTGVFTVE	CCAD Voltage-dependent L-type calcium chann...
2	J14		YFVSLVIFGSFFVLNLVGLVLSGEF	CCAF Voltage-dependent L-type calcium chann...
2	J15		EYVFLVIFTVETVLKIVAYGLVLHP	CCAF Voltage-dependent L-type calcium chann...
2	J16		FTDAWNTFDALIVVGSIVDIAVTEV	CCAF Voltage-dependent L-type calcium chann...
2	J17		PIYNRYRVEISVFFIVYIIIAFFMM	CCAF Voltage-dependent L-type calcium chann...
2	K01		PSLHIVLNSIMKALVPLLHIALLVL	CCAF Voltage-dependent L-type calcium chann...
2	K02	+	RTLLWTFIKSFQALPYVALLIAMIF	CCAF Voltage-dependent L-type calcium chann...
2	K03		YEQTAPFNyamDILNMVFTGLFTIE	CCAF Voltage-dependent L-type calcium chann...
2	K04		AINFNDNIGYAWIAIFQVITLEGWVD	CCAG Voltage-dependent T-type calcium chann...
2	K05		IYFVSVFLTAQFVLNVVIAVLMKH	CCAG Voltage-dependent T-type calcium chann...
2	K06		LEISNIVFTSLFALEMILLKLLVYGP	CCAG Voltage-dependent T-type calcium chann...
2	K07		LQVGNLGLLFMLFFIFAALGVEL	CCAG Voltage-dependent T-type calcium chann...
2	K08		LPQFDDFIAFFAVEMVVKMAVLCI	CCAG Voltage-dependent T-type calcium chann...
2	K09		PIMNHNPPWMLLYFISFLLIVAFFVL	CCAG Voltage-dependent T-type calcium chann...
2	K10	+	VRHKYNFDNLGQALMSLFLVASKDG	CCAG Voltage-dependent T-type calcium chann...
2	K11		AINFNDNIGYAWIVIFQVITLEGWVE	CCAI Voltage-dependent T-type calcium chann...
2	K12	+	LRVISRAPGLKLVVETLISSLKPIG	CCAI Voltage-dependent T-type calcium chann...
2	K13		LYFVSVFLTAQFVLINVVAVLMKH	CCAI Voltage-dependent T-type calcium chann...
2	K14	+	NYMFTTVFVLEAVLKLVAFGLRRFF	CCAI Voltage-dependent T-type calcium chann...
2	K15		PVTNHNPPWMLLYFISFLLIVSFFVL	CCAI Voltage-dependent T-type calcium chann...
2	K16	+	VGNLGLLFMLFFIYAALGVELFGK	CCAI Voltage-dependent T-type calcium chann...
2	K17	+	VHHKYNFDNLGQALMSLFLVASKDG	CCAI Voltage-dependent T-type calcium chann...
2	L01		ATWFTNFILLFILLSSAALAAEDPI	CCAS Voltage-dependent L-type calcium chann...
2	L02		DVGPYNNRVEMAIFFIYIILIAF	CCAS Voltage-dependent L-type calcium chann...
2	L03	+	FKITKYWTSLSNLVASLLNSIRIA	CCAS Voltage-dependent L-type calcium chann...
2	L04	+	HNQPLWLRQLDIANRVLLSLFTTE	CCAS Voltage-dependent L-type calcium chann...
2	L05		NSFKAMLPFHIALLVLFMVIHYA	CCAS Voltage-dependent L-type calcium chann...
2	L06		WNVFDLIVIGSIIDVILSEIDTFL	CCAS Voltage-dependent L-type calcium chann...
2	L07		YFVTLILLGSFFILNLVGLVLSGEF	CCAS Voltage-dependent L-type calcium chann...
2	L08		YNQSEQMNHISDILNVAFTIITLE	CCAS Voltage-dependent L-type calcium chann...
2	L09		VLYWEHHSSVGFILAVIVPLLLLI	CD1A T-cell surface glycoprotein CD1a precu...
2	L10		ILYWRNPTSIGSIVLAIIVPSLLL	CD1B T-cell surface glycoprotein CD1b precu...
2	L11		GHHSSMNWIALVVIVPLVILIVLVL	CD1C T-cell surface glycoprotein CD1c precu...
2	L12		IRTPQPEWLIILASLLALALILAV	CD44 CD44 antigen precursor (Phagocytic gly...
2	L13		ILHHSTSYNSKALIAFLAFLIIVTS	CD45 Leukocyte common antigen precursor (EC...
2	L14		KIENKESRELMMLPSIVLGILLG	CD6 T-cell differentiation antigen CD6 pre...
2	L15		DDLFSGKLYLIGIAAIVVAVIMIFE	CD81 CD81 antigen (26 kDa cell surface prot...
2	L16		IKVTKYFLFLFNLIFFILGAVILGF	CD82 CD82 antigen (Inducible membrane prote...
2	L17	+	VKSKEEAQHVQRVLAQLLRREAALT	CD93 Complement component C1q receptor prec...
2	M01	+	RVAQDLGLELAELVPRFRVASKTH	CDA1 Protocadherin alpha 1 precursor (PCDH-...
2	M02	+	VFSRRGGGLGARDLLWLLLLAAWEV	CDA1 Protocadherin alpha 1 precursor (PCDH-...
2	M03		ALLAPRAGTAAGAVSELVPSVVGAG	CDA2 Protocadherin alpha 2 precursor (PCDH-...
2	M04	+	RIAQDLGLELEELVPRFRVASKRH	CDA2 Protocadherin alpha 2 precursor (PCDH-...
2	M05	+	RRRGAWTRLLSLLLAWEVGSQ	CDA2 Protocadherin alpha 2 precursor (PCDH-...
2	M06		ALLMPRVGGIGGAVSELVPRSVGAG	CDA3 Protocadherin alpha 3 precursor (PCDH-...
2	M07	+	RIAQDLGLELAELVPRFRVASKRH	CDAD Protocadherin alpha 13 precursor (PCDH-...
2	M08	+	RIAQDLGLELAELVPRFRVASKRG	CDA5 Protocadherin alpha 5 precursor (PCDH-...
2	M09		DLVDVTNEEETNFLELVLRKSLDRE	CDA5 Protocadherin alpha 5 precursor (PCDH-...
2	M10	+	RIAQDLGLELAELVPRFRMASKDR	CDA6 Protocadherin alpha 6 precursor (PCDH-...
2	M11		NGYDPGGRHLLFIILAAWEAGRG	CDA7 Protocadherin alpha 7 precursor (PCDH-...
2	M12	+	PTSNQVQKPLGLVLRKLLDREETPE	CDA9 Protocadherin alpha 9 precursor (PCDH-...
2	M13		MLDVNSKNDENKLVELVLRKSLDRE	CDA8 Protocadherin alpha 8 precursor (PCDH-...
2	M14		ALLASPAGSAGGAVSELVLRVSVAG	CDAA Protocadherin alpha 10 precursor (PCDH-...
2	M15	+	RIAQDLGLELAELVQRLFRVASKRH	CDAA Protocadherin alpha 10 precursor (PCDH-...
2	M16	+	ALLATQAGSAGGAVNKLVRVSVGAG	CDAB Protocadherin alpha 11 precursor (PCDH-...
2	M17	+	RIAQDLGLELAELVQRLFRVASKTH	CDAB Protocadherin alpha 11 precursor (PCDH-...
2	N01		ALLATPAGSAGGAVSELVPRSVGAG	CDAC Protocadherin alpha 12 precursor (PCDH-...
2	N02	+	VIIGPRGPGSQRLLSLLLAWEV	CDAC Protocadherin alpha 12 precursor (PCDH-...
2	N03		NPSTKYLVISLIVLSFLLSVIVI	CDB1 Protocadherin beta 1 precursor (PCDH-b...
2	N04		RYSVAAEMESGSFVANVAKDLGLEV	CDB1 Protocadherin beta 1 precursor (PCDH-b...
2	N05	+	ADRGSPALSSEALVRVLDANDNS	CDB2 Protocadherin beta 2 precursor (PCDH-b...
2	N06	+	HYSVAEETESGSFVANLLKDLGLEI	CDB2 Protocadherin beta 2 precursor (PCDH-b...
2	N07		YLVVALASVSSLFVLLFVAVRL	CDBG Protocadherin beta 16 precursor (PCDH-...
2	N08	+	TDRGSPALSSEALVRVLDANDNS	CDBE Protocadherin beta 14 precursor (PCDH-...
2	N09		INDHSPIFPEREVLLKILENSQPGT	CDB4 Protocadherin beta 4 precursor (PCDH-b...
2	N10		RYSVLEETESGSFVAHLAKDLGLGI	CDB4 Protocadherin beta 4 precursor (PCDH-b...
2	N11		LAKTPQKRQVMFLAILLLWEAGSE	CDB5 Protocadherin beta 5 precursor (PCDH-b...
2	N12		TDRGSPALSSEALVRVLDANDNS	CDB6 Protocadherin beta 6 precursor (PCDH-b...
2	N13		YLVVALASVSSLFVLLFVAVRL	CDBA Protocadherin beta 10 precursor (PCDH-...
2	N14	+	SDRGSPALSSEALVRVLDANDNS	CDB9 Protocadherin beta 9 precursor (PCDH-b...
2	N15		YLVVALASVSSLFVLLFVAVRL	CDB8 Protocadherin beta 8 precursor (PCDH-b...
2	N16		QAFYEVKIRENSILGSLILIVSAWD	CDBB Protocadherin beta 11 precursor (PCDH-...
2	N17		SFSVAEEMQSGSFVGNLAKDLGLKV	CDBB Protocadherin beta 11 precursor (PCDH-...
2	O01		NFLVMEELQSGSFVGNLAKTLGLEV	CDBC Protocadherin beta 12 precursor (PCDH-...
2	O02		QAFYEVKILENSILGSLVVTVSAWD	CDBC Protocadherin beta 12 precursor (PCDH-...
2	O03	+	TDHGSPPALSSEALVRVLDANDNS	CDBC Protocadherin beta 12 precursor (PCDH-...

Bl.	Pos.	Sequence	SP-ID	Description	
2	O04	+	SDHGSPALSSEALVRVVLDANDNS	CDBD	Protocadherin beta 13 precursor (PCDH...
2	O05		HYSVAEETEIGSFVANLARDLGLGV	CDBE	Protocadherin beta 14 precursor (PCDH...
2	O06	+	TDRGFPALSSEALVRVLDANDNS	CDBF	Protocadherin beta 15 precursor (PCDH...
2	O07		YLVVALASVSSFLFVFLFVAVRL	CDBF	Protocadherin beta 15 precursor (PCDH...
2	O08		ALTSPIPENSPEIVVAVFVSDPDS	CDBG	Protocadherin beta 16 precursor (PCDH...
2	O09		LYSVFEEQEESVVGNIADKDLGLAP	CDG4	Protocadherin gamma A4 precursor (PCDH...
2	O10	+	PPQRHPQRSEQVLLLTLLGLTWGAA	CDG6	Protocadherin gamma A6 precursor (PCDH...
2	O11	+	TPRFLKEELEVKILENAAPSSRFPL	CDG6	Protocadherin gamma A6 precursor (PCDH...
2	O12		QTELQFYLVVALALISVFLAVIL	CDGD	Protocadherin gamma B1 precursor (PCDH...
2	O13		QAKLQFYLVVALALISVFLAVIL	CDGE	Protocadherin gamma B2 precursor (PCDH...
2	O14		QAEQLQFHLVVALALISVFLAVIL	CDGF	Protocadherin gamma B3 precursor (PCDH...
2	O15	+	RGPAGQRRMLFLLSLLDQVLSSEP	CDGF	Protocadherin gamma B3 precursor (PCDH...
2	O16		VLVDDRNDNAPLVLYPALGPEGSAL	CDGF	Protocadherin gamma B3 precursor (PCDH...
2	O17		QAEQLQFYLVVALALISVFLVAMIL	CDGG	Protocadherin gamma B4 precursor (PCDH...
3	B01		QAEQLQFYLVVALALISVFLAVIL	CDGI	Protocadherin gamma B6 precursor (PCDH...
3	B02		QAEMQFYLVVALALISVFLAVIL	CDGJ	Protocadherin gamma B7 precursor (PCDH...
3	B03		YLLSLILVSVGFVVVFGVVIIFKV	CDGK	Protocadherin gamma C3 precursor (PCDH...
3	B04		SQPLDREATSHYIHELLASDAGSPS	CDGM	Protocadherin gamma C5 precursor (PCDH...
3	B05	+	SGGSGDEGLASAAARGLVEKVRQLL	CDN5	Cyclin-dependent kinase 4 inhibitor B...
3	B06		LAPAPAPAPVVAAPVAVAVL	CDNC	Cyclin-dependent kinase inhibitor 1C (...)
3	B07		QQGGHPDIEVPFIVRHVVYIEEHG	CE05	Protein C5orf5 (GAP-like protein N61).
3	B08		NALPQENGLSPGAIAGIVIGVVALV	CEA1	Carcinoembryonic antigen-related cell...
3	B09		NAPGLPVGAVAGIVTGVLVGVVALVA	CEA3	Carcinoembryonic antigen-related cell...
3	B10		LPSTHLPNAGILAATHIGSLAAGA	CEAL	Carcinoembryonic antigen-like 1 precu...
3	B11	+	TRMAAESRRVLLLAGRLAAQSLDTS	CENB	Major centromere autoantigen B (Centro...
3	B12	+	MGSEDLGVIPRAIHDIFQKIKKFP	CENE	Centromeric protein E (CENP-E protein)...
3	B13	+	KRGPLLTALSAAVASALHKLHQDL	CEP2	Centrosomal protein 2 (Centrosomal Nek...
3	B14		LKVFNPRRKLFEALLFLVDENESW	CERU	Ceruloplasmin precursor (EC 1.16.3.1)...
3	B15		DGSGTIDAKELKVAMRALGFEPKKE	CET1	Centrin 1 (Caltractin isoform 2).
3	B16		DGTGTIDVKELKVAMRALGFEPKKE	CET2	Centrin 2 (Caltractin isoform 1).
3	B17		PTDIKTVREVTAALQSVFPQAEELGT	CFG5	Protein C6orf165.
3	C01		WTSLQDEITIVVGVLSNLFTHIQPFL	CFG5	Protein C6orf165.
3	C02		YNIRQYEVFLQILSDIITGAQVE	CFG5	Protein C6orf165.
3	C03		AEGTEENLSETSVAGFIVVTSVDLE	CFP1	Pre-mRNA cleavage complex II protein C...
3	C04		YTKRQLLKMHEHLLKVLAFDLTVPT	CGA1	Cyclin A1.
3	C05		IDADPYLKYLPVSIAGAAFHLALYT	CGA2	Cyclin A2 (Cyclin A).
3	C06	+	EYHYVQEKASKLAAASLLALYMKK	CGB3	G2/mitotic-specific cyclin B3.
3	C07		DVKFISNPPSMVAAGSVAAVQQLN	CGD1	G1/S-specific cyclin D1 (PRAD1 oncogen...
3	C08	+	YIDENQDRYIKKLAKVVAIQSVSAW	CGL1	Cytosolic nonspecific dipeptidase (Glu...
3	C09		NIDDTQYLAACKRAIRTVFGTEPDMI	CGL2	Glutamate carboxypeptidase-like protei...
3	C10		AALLVNLFFLLNIVRVLITKLVTH	CGRR	Calcitonin gene-related peptide type 1...
3	C11		SNLYMKAVRATLILVPLLGIEFVLI	CGRR	Calcitonin gene-related peptide type 1...
3	C12		MIYFDRIEIVNVLVFNNAVYDIVKNY	CH02	Protein C8orf2 (UNQ2441/PRO9924/PRO500...
3	C13	+	ANPVEIRGVMLAVDAVIAELKKQS	CH60	60 kDa heat shock protein, mitochondri...
3	C14		KGIHDPTKVVRTALLDAAGVASLLT	CH60	60 kDa heat shock protein, mitochondri...
3	C15		KESMAGNKPANAVLHKVVKQLEELL	CHD4	Chromodomain helicase-DNA-binding prot...
3	C16		LQGMNEYLSSFKVAQYVREEEMGE	CHD4	Chromodomain helicase-DNA-binding prot...
3	C17	+	PVAVRLQMSERNILSRANRAPEPT	CHD4	Chromodomain helicase-DNA-binding prot...
3	D01		GAQKPRQPLEVQALPAALDRVESED	CHD5	Chromodomain helicase-DNA-binding prot...
3	D02		MLYLYKAEILGEAAEKAFEGSPARE	CHD6	Chromodomain-helicase-DNA-binding prot...
3	D03		LLHYRGDENIKGFIVDLISPAENGK	CHD8	Chromodomain-helicase-DNA-binding prot...
3	D04		LRQEVIGDQAEKVLGGAIASEIDIW	CHD8	Chromodomain-helicase-DNA-binding prot...
3	D05		DTHQNVVVTEAGIHPNLIYVIPTI	CHOD	Chondrolectin precursor (Transmembrane...
3	D06		DLYTVEPNARQLVEIAARDIEKLL	CIC2	Dihydropyridine-sensitive L-type, calc...
3	D07		NPSLWYIIGIQFLLLWLVSGSTHRL	CIC2	Dihydropyridine-sensitive L-type, calc...
3	D08		QTLKASMRELLIFFLFIGVILFS	CIK3	Potassium voltage-gated channel subfam...
3	D09	+	ARERERLAHSRRAAARAVAAATAAV	CIK4	Potassium voltage-gated channel subfam...
3	D10		HTLRASMRELLIFFLFIGVILFS	CIK4	Potassium voltage-gated channel subfam...
3	D11		KTLQASMRELLIFFLFIGVILFS	CIK6	Potassium voltage-gated channel subfam...
3	D12		YPSSGSARAIIVSVLVILISIT	CIK5	Potassium voltage-gated channel subfam...
3	D13		FFVLVIFLGSFYLINLILAVVAMAY	CIN2	Sodium channel protein type II alpha s...
3	D14		FRIVEHNWFETFIVFMILLSSGALA	CIN1	Sodium channel protein type I alpha s...
3	D15		HYFTIGWNIFDFVVVILSIVGMFL	CIN2	Sodium channel protein type II alpha s...
3	D16		LFNIGLLFLVFMFIYAFGMSNFAY	CIN9	Sodium channel protein type IX alpha s...
3	D17	+	LKTISVIPGLKTIVGALIQSVKKLS	CIN9	Sodium channel protein type IX alpha s...
3	E01	+	LSRFEGMRVVNALLGAIPSIMNVL	CIN4	Sodium channel protein type IV alpha s...
3	E02	+	LYLTPFNPLRKAIAIKLVHSLFSM	CIN1	Sodium channel protein type I alpha su...
3	E03		VGALGNLTLVLAHIVFIFAVVGMQL	CIN9	Sodium channel protein type IX alpha s...
3	E04	+	LYLTPFNPIRKLAIKLVHSLFSM	CIN2	Sodium channel protein type II alpha s...
3	E05		YKIVEHNWFETFIVFMILLSSGALA	CIN2	Sodium channel protein type II alpha s...
3	E06		YYYFTIGWNIFDFVVVILSIVGMFL	CIN3	Sodium channel protein type III alpha...
3	E07		FFVLVIFLGSFYLVNLLAVVAMAY	CIN3	Sodium channel protein type III alpha...
3	E08		LDFLIVDVSLVSLVANALGYSELGA	CIN3	Sodium channel protein type III alpha...
3	E09	+	LSRFEGMRVVNALLVGAIPSIMNVL	CIN5	Sodium channel protein type V alpha su...
3	E10	+	LYLTPNPNVPRKLAIKLVHSLFSM	CIN3	Sodium channel protein type III alpha...
3	E11		YSIVEHNWFETFIVFMILLSSGALA	CIN3	Sodium channel protein type III alpha...
3	E12		FKIVEHNWFETFIVFMILLSSGALA	CIN4	Sodium channel protein type IV alpha s...

Bl.	Pos.	Sequence	SP-ID	Description
3	E13	LFNIGLLFLVMFIYSIFGMSNFAY	CIN4	Sodium channel protein type IV alpha s...
3	E14	+ LKTITVIPGLKTIVGALIQSVKKLS	CIN4	Sodium channel protein type IV alpha s...
3	E15	QYYFTVGWNIFDFVVVILSIVGLAL	CIN4	Sodium channel protein type IV alpha s...
3	E16	FFMLVIFLGSFYLVNLLAVVAMAY	CIN5	Sodium channel protein type V alpha su...
3	E17	HYFTNSWNIFDFVVVILSIVGTVL	CIN5	Sodium channel protein type V alpha su...
3	F01	LFNIGLLFLVMFIYSIFGMANFAY	CIN5	Sodium channel protein type V alpha su...
3	F02	+ LKTISVISGLKTIVGALIQSVKKLA	CIN5	Sodium channel protein type V alpha su...
3	F03	+ LVVLSPPHPVRRRAAVKILVHSLFNM	CIN5	Sodium channel protein type V alpha su...
3	F04	PGARQRALSAVSVLTSALEELEESR	CIN5	Sodium channel protein type V alpha su...
3	F05	YHIVEHSWFETFIIFMILLSSGALA	CIN5	Sodium channel protein type V alpha su...
3	F06	FFVLVIFVGSFYLVNLLAVVAMAY	CIN8	Sodium channel protein type VIII alpha...
3	F07	FLIVEHNWFETFIIFMILLSSGALA	CIN8	Sodium channel protein type VIII alpha...
3	F08	LFNIGLLFLVMFIYSIFGMSNFAY	CIN8	Sodium channel protein type VIII alpha...
3	F09	+ LYILSPFNLRIRIAIKILIHVSFMS	CIN8	Sodium channel protein type VIII alpha...
3	F10	+ EEQLRLRERELTALKGALKEEVASR	CING	Cingulin.
3	F11	+ NYGKFEKGYLIFVVRFLGVLNQR	CIS1	Cold autoinflammatory syndrome 1 prote...
3	F12	RGPLLTAIFYLAIAGAAIFEVLEE	CIW5	Potassium channel subfamily K member 5...
3	F13	TFNWNWPNAMIFAAATVITIGYGN	CIW5	Potassium channel subfamily K member 5...
3	F14	RALYKVLVTYVFLGLVAMVVLVLTQ	CIW6	Potassium channel subfamily K member 6...
3	F15	+ RGALLAGALAAAYAVLVLGALLVAR	CIW6	Potassium channel subfamily K member 6...
3	F16	SGSANASDPAWDFASALFFASTLIT	CIW6	Potassium channel subfamily K member 6...
3	F17	+ AQKVTRQEREALVVRGVFMKVVPK	CJ11	Protein C10orf11 (CDA017).
3	G01	+ MLRYDVYGGENEVIPEVLRKSHSHF	CJ24	Hypothetical protein C10orf24.
3	G02	+ ERQSAEVQGSALVSRALAAERL	CK13	Protein C11orf13 (HRAS1-related cluste...
3	G03	+ RSGYIEANELKGFSLDLLKCANRYP	CLB2	Calretinin (CR).
3	G04	IAHILPMMVAVILANMVAQSLQPSL	CLC1	Chloride channel protein, skeletal mus...
3	G05	+ VRRKLGEDWIFLVLLGLMALVSW	CLC1	Chloride channel protein, skeletal mus...
3	G06	+ AYIVNYFMYVLWALLFAFLAVSLV	CLC5	Chloride channel protein 5 (ClC-5).
3	G07	GVYSAMWQLALTLILKIVITIFTFG	CLC5	Chloride channel protein 5 (ClC-5).
3	G08	+ LIHSVDAFSGWLLMLLIGLLSGSL	CLC5	Chloride channel protein 5 (ClC-5).
3	G09	TTQLGKYPVIEVLVVTAITAILAFP	CLC5	Chloride channel protein 5 (ClC-5).
3	G10	+ YFPLKTLWRSFFAALVAATLRSIN	CLC5	Chloride channel protein 5 (ClC-5).
3	G11	YVEFHTPWHLFELVFPILLGIFGGL	CLC5	Chloride channel protein 5 (ClC-5).
3	G12	GNGVAGAGEEDPAAAFLAQGESEIA	CLCA	Clathrin light chain A (Lca).
3	G13	ESGAPEAAEEDPAAAFLAQGESEIA	CLCB	Clathrin light chain B (Lcb).
3	G14	ISAYMAAALEFFITLAFFLYATQ	CLF5	Chemokine-like factor super family mem...
3	G15	IFVSTHDRTSAEIAAIVFGFIASF	CLF6	Chemokine-like factor super family mem...
3	G16	RTLPGFLIVAIEIVLGLLVWTLIAGT	CLF8	Chemokine-like factor super family mem...
3	G17	FESFKSFEGLFYFLGSIVNFSQDPD	CLH	Clathrin heavy chain.
3	H01	YINRLDNYDAPDIANIAISNELFEE	CLH	Clathrin heavy chain.
3	H02	FESFKSYKGLFYFLGSIVNFSQDPD	CLH2	Clathrin heavy chain 2 (CLH-22).
3	H03	+ RKKGRESYIETELIFALAKTSRVSE	CLH2	Clathrin heavy chain 2 (CLH-22).
3	H04	SVQSHNNKSVNEALNHLTTEEDYQ	CLH2	Clathrin heavy chain 2 (CLH-22).
3	H05	YISRLDNYDALDIASIVSSALYEE	CLH2	Clathrin heavy chain 2 (CLH-22).
3	H06	YYQDRGYFEELILLEAALGLERAH	CLH2	Clathrin heavy chain 2 (CLH-22).
3	H07	ESSKIPESSDKVAGDIFVEGTNN	CLMN	Calmin.
3	H08	+ FAGSWRGLAFVAVIKAIIDPVLVDM	CLMN	Calmin.
3	H09	ADVWFGLPSPYLVFLIILYEGLLG	CLN3	CLN3 protein (Battenin) (Batten diseas...
3	H10	LHSIHKHLAVALFSLVFLVIGINQ	CLR1	Cadherin EGF LAG seven-pass G-type rec...
3	H11	LKIVTYAAVSLSLAALLVAFVLLSL	CLR1	Cadherin EGF LAG seven-pass G-type rec...
3	H12	RFYYVVGWGPVAVTGLAVGLDPQG	CLR1	Cadherin EGF LAG seven-pass G-type rec...
3	H13	SQEKFLSPLLALFVEGVAAVLSSTTK	CLR1	Cadherin EGF LAG seven-pass G-type rec...
3	H14	TLFGNDVRTAYQLLGHVLQHESWQQ	CLR1	Cadherin EGF LAG seven-pass G-type rec...
3	H15	+ GYFGSDVKVAYQLATRLLAHESTQR	CLR2	Cadherin EGF LAG seven-pass G-type rec...
3	H16	RFYYMLGWGVPVAFITGLAVGLDPEG	CLR2	Cadherin EGF LAG seven-pass G-type rec...
3	H17	+ SPERFLSPLLGLFIQVAATLATTP	CLR2	Cadherin EGF LAG seven-pass G-type rec...
3	I01	AEEFEVRVKENSIVGSVVAQITAVD	CLR3	Cadherin EGF LAG seven-pass G-type rec...
3	I02	LELLAVFTHVVAVSVAALVLTAAI	CLR3	Cadherin EGF LAG seven-pass G-type rec...
3	I03	+ LQEQLYVRRRAALAAARLLDVLFPDD	CLR3	Cadherin EGF LAG seven-pass G-type rec...
3	I04	QYNYQTLVPENEAAGTAVLRVVAQD	CLR3	Cadherin EGF LAG seven-pass G-type rec...
3	I05	RFYHALGWGVPVAVLLGLAVGLDPEG	CLR3	Cadherin EGF LAG seven-pass G-type rec...
3	I06	+ WQERFLSPLLGRFLEGVAAVLAATPA	CLR3	Cadherin EGF LAG seven-pass G-type rec...
3	I07	+ YFSQDVRVTARLLAHLAFESHQGG	CLR3	Cadherin EGF LAG seven-pass G-type rec...
3	I08	HTGIMHWLTELILAMVFAAAIHIDY	CN1A	Calcium/calmodulin-dependent 3,5-cycli...
3	I09	QLERIDKPKALSLLHAADISHPTK	CN1B	Calcium/calmodulin-dependent 3,5-cycli...
3	I10	+ LGSVIDISGLQRAVKEALSAVLPRV	CN2A	cGMP-dependent 3,5-cyclic phosphodiest...
3	I11	+ SFMEHIAMPIYKLLQDLFPKAAELY	CN2A	cGMP-dependent 3,5-cyclic phosphodiest...
3	I12	LVLRLRLGVLMIALTSAVRTVSLIS	CN3A	cGMP-inhibited 3,5-cyclic phosphodiest...
3	I13	+ WVSFSLGSLPSALRPLLSGLVGGGA	CN3B	cGMP-inhibited 3,5-cyclic phosphodiest...
3	I14	VLQSTHVLLATPALDAVFTDLEILA	CN4A	cAMP-specific 3,5-cyclic phosphodieste...
3	I15	VAQSTHVLLSTPALDAVFTDLEILA	CN4B	cAMP-specific 3,5-cyclic phosphodieste...
3	I16	DLKTFQIPADTLATYLLMLEGHYH	CN4C	cAMP-specific 3,5-cyclic phosphodieste...
3	I17	VAQSTHVLLATPALEAVFTDLEILA	CN4C	cAMP-specific 3,5-cyclic phosphodieste...
3	J01	VVQSTHVLLSTPALEAVFTDLEILA	CN4D	cAMP-specific 3,5-cyclic phosphodieste...
3	J02	GKIQNKLTDEILALLAALSHDLD	CN5A	cGMP-specific 3,5-cyclic phosphodieste...
3	J03	SAAEETRELQSLAAAVVPSAQTLK	CN5A	cGMP-specific 3,5-cyclic phosphodieste...
3	J04	SLIFEQQSLEVLKKAATHSFMS	CN5A	cGMP-specific 3,5-cyclic phosphodieste...

Bl.	Pos.	Sequence	SP-ID	Description
3	J05	AAQESSMPVTEALDRVLEILRTTE	CN8A	High-affinity cAMP-specific and IBMX-i...
3	J06	ERIKETLDPIDEVAALIAATIHDVD	CN8A	High-affinity cAMP-specific and IBMX-i...
3	J07	RSIRSKLSENTVIVGVRRVDREE	CN8A	High-affinity cAMP-specific and IBMX-i...
3	J08	AAQENSPVTVAEALDRVLEILRTTE	CN8B	High-affinity cAMP-specific and IBMX-i...
3	J09	ERVKGSLDQLDEVAALIAATVHDVD	CN8B	High-affinity cAMP-specific and IBMX-i...
3	J10	RSIRATNPSEHTVILAVVSRVSDDH	CN8B	High-affinity cAMP-specific and IBMX-i...
3	J11	+ HVYQVRVDAVGLAEAAALGLARANN	CN93	Protein C14orf93 precursor.
3	J12	NPLVDDYVASEGAVQRVLPAYAKQ	CN93	Protein C14orf93 precursor.
3	J13	AAREHESRGVTGAVGEVLRQIPPAV	CNA3	Protein C14orf103 homolog.
3	J14	+ TDMKDMRLEAEAVVNDVLFVAVNNMF	CN129	UPF0279 protein C14orf129 (HSPC210).
3	J15	NELSHKGNAIYNLLPDIHSRLSDPE	CND1	Condensin subunit 1 (Chromosome conden...
3	J16	ILPTIPISLVSFLVERLLHHIIDDN	CND3	Condensin subunit 3 (Chromosome-associ...
3	J17	LLHRLDVENSSSEAVSVLNAFSSIT	CND3	Condensin subunit 3 (Chromosome-associ...
3	K01	MVVYKREPAVERVIEFAAKFVTSFH	CND3	Condensin subunit 3 (Chromosome-associ...
3	K02	+ PKIVGRTKDVKEAVRKLAYQVLAEK	CND3	Condensin subunit 3 (Chromosome-associ...
3	K03	TKALSSLESSHAKDLLVLLNEIL	CND3	Condensin subunit 3 (Chromosome-associ...
3	K04	+ YGPTNFAPINHVARFAAQAAHQGT	CNE1	Copine I.
3	K05	KLQLYGPTNIAPHQKVAKSASEET	CNE4	Copine IV (Copine 8).
3	K06	HYMSPYQLNAYALALTAVGEIHQHY	CNE5	Copine V.
3	K07	QIQLYGPTNVAPIINRAEPAQREQ	CNE6	Copine VI (Neuronal-copine) (N-copine)...
3	K08	RVQLYGPTNVAPIISKVARVAAEE	CNE7	Copine VII.
3	K09	+ LAHLRARLKELAALEAAAKHEELVE	CNG4	Cyclic-nucleotide-gated cation channel...
3	K10	FKIQDRQEAIWLLGLAVRLEYGDN	CNG6	Protein C14orf166 (CGI-99).
3	K11	MPDLYHLLVLELNAVQSLGLLGHND	CNL1	Beta-catenin-like protein 1 (Nuclear a...
3	K12	NDFLTSVVDLIGAAKSLLAWLDRSP	CNR2	Connector enhancer of kinase suppresso...
3	K13	+ EEGGTPEQGVHRLAQLAHLQADR	CNRC	Cone cGMP-specific 3,5-cyclic phosphod...
3	K14	LATPIVVGKEVLAVIMAVNKVNASE	CNRC	Cone cGMP-specific 3,5-cyclic phosphod...
3	K15	PTEGDFHQAIHTLLQVAAFAYQIE	CNTF	Ciliary neurotrophic factor (CNTF).
3	K16	PVTQNMVPSRLLVYIVTGEQTAE	CO5	Complement C5 precursor [Contains: C5a...
3	K17	RILSVKGLLVGEILSAVLSQEGINI	CO5	Complement C5 precursor [Contains: C5a...
3	L01	+ WKGSASTWLTAFALRVLGQVKNKYV	CO5	Complement C5 precursor [Contains: C5a...
3	L02	GEGRAVNITSENLIDDVSLIRGGT	CO9	Complement component C9 precursor.
3	L03	+ DVLPNFFYHSNQVVRMAALEVYVRR	COA1	Acetyl-CoA carboxylase 1 (EC 6.4.1.2)...
3	L04	+ RQVQAEVPGSPFVVRMLAKQSRHLE	COA1	Acetyl-CoA carboxylase 1 (EC 6.4.1.2)...
3	L05	IRFREIAGSLEAALTDVLEDAPAES	COG2	Conserved oligomeric Golgi complex com...
3	L06	LGLQASDIKSFSAALAEVAAAKDQA	COG2	Conserved oligomeric Golgi complex com...
3	L07	LFQASEHVASSPALGDVIFPFSIIIQ	COG5	Conserved oligomeric Golgi complex com...
3	L08	+ SSQFHMATNSSMFLKQAFEGEYPKL	COG5	Conserved oligomeric Golgi complex com...
3	L09	+ VRRLEKRYSSIPVIQIVNEVRQSM	COG8	Conserved oligomeric Golgi complex com...
3	L10	PNLTIQATRAQTLQLQAIYQSWSHL	COH1	Cohen syndrome protein 1.
3	L11	+ TDPDLPPGYVQSLIRRVNIVNI	COH1	Cohen syndrome protein 1.
3	L12	VKLSIWKPYVRTLLIPELLWALLIN	COH1	Cohen syndrome protein 1 homolog (Frag...
3	L13	QLYLDNRKERTLLSELAPSLPSYH	COM2	COMM domain containing protein 2 (My00...
3	L14	HNLMLGDTKEQRILNHVLQHAEPGN	COMT	Catechol O-methyltransferase (EC 2.1.1....
3	L15	MPEAPPLLLAAVLLGLVLLVLLLL	COMT	Catechol O-methyltransferase (EC 2.1.1....
3	L16	SGAPTLSPSLLGLLPAFGILVYLE	CONT	Contactin 1 precursor (Neural cell sur...
3	L17	FDVWSVHSPAGMALSIVLVLAVL	COP2	Probable low-affinity copper uptake pr...
3	M01	+ GDVKSKEALKKVIMILNGEKLPG	COPB	Coatomer beta subunit (Beta-coat prote...
3	M02	KEHPAHERVLQDLVMDILRVLSTPD	COPB	Coatomer beta subunit (Beta-coat prote...
3	M03	PSSAPELQAVRMFADYLAHESRRDS	COPE	Coatomer epsilon subunit (Epsilon-coat...
3	M04	+ TFTLSTIKTLEEAVGNIVKFLGMHP	COPG	Coatomer gamma subunit (Gamma-coat pro...
3	M05	RFELALQLGELKIAVQLAVEAESEQ	COPP	Coatomer beta subunit (Beta-coat prote...
3	M06	TAETFDVAVSEVVEHVIDLETFLQ	COQ3	Hexaprenyldihydroxybenzoate methyltran...
3	M07	+ LLFGAWAGVLGTALSLLIRAEELGQP	COX1	Cytochrome c oxidase polypeptide I (EC...
3	M08	MTQYQTPLFVWSVLITAVLLLSLP	COX1	Cytochrome c oxidase polypeptide I (EC...
3	M09	ISDAQEMETVWVILPAIILVLIAP	COX2	Cytochrome c oxidase polypeptide II (E...
3	M10	+ RFIENRVLENEAVRAAAVSAKAF	CPG2	Coatomer gamma-2 subunit (Gamma-2 coat...
3	M11	TFALSSTKTLEEAVNNITFLGMQP	CPG2	Coatomer gamma-2 subunit (Gamma-2 coat...
3	M12	+ RREATRQGGELPLVKEVLLVALGSR	CPSA	Cleavage and polyadenylation specifici...
3	M13	TQALAVPKPIGGVVVFAVNSLLYLN	CPSA	Cleavage and polyadenylation specifici...
3	M14	LASKATGYPLAFIAAKIALGIPLE	CPSM	Carbamoyl-phosphate synthase [ammonia]...
3	M15	TPQHMEELAEQEIARLVLTDEKSL	CRE3	Cyclic-AMP responsive element binding...
3	M16	AGAEQESGPEEPLVVQLAKTEAESP	CRL2	Cytokine receptor-like factor 2 precur...
3	M17	QFILLAKGTSGSALTALISQVLEAP	CS7B	COP9 signalosome complex subunit 7b (S...
3	N01	LPSLAGDPVAVEALLRAVFGVVVDE	CSD	Cysteine sulfonic acid decarboxylase (...)
3	N02	ASALRILFSSLILISLKFYSLNFQD	CSE1	Importin-alpha re-exporter (Chromosome...
3	N03	LLQAFLEFRGNSNTIASAAAADKIPGLL	CSE1	Importin-alpha re-exporter (Chromosome...
3	N04	+ NATLFTAEEIAPFVEILLTNLFKAL	CSE1	Importin-alpha re-exporter (Chromosome...
3	N05	+ SVNWKHKDAIYLVVTSLSKAQTQK	CSE1	Importin-alpha re-exporter (Chromosome...
3	N06	ESVFHLLVPSVILVLLAVGGLLFYR	CSF1	Macrophage colony stimulating factor-1...
3	N07	LKVLRTAEFAPFVVFIAAPTITPGL	CSKP	Peripheral plasma membrane protein CAS...
3	N08	IGRHFASNSSSVAAILVPFIALII	CSM2	CUB and sushi multiple domains protein...
3	N09	WKVTVSPDYVIALVFNFNLEPGYD	CSM2	CUB and sushi multiple domains protein...
3	N10	GGGGGGGTAMRILGGVISAISEAA	CSS1	Calpain small subunit 1 (CSS1) (Calciu...
3	N11	GGGGGLGGGLGNVLGGLISGAGGGG	CSS1	Calpain small subunit 1 (CSS1) (Calciu...
3	N12	+ QRREGGRNIGGIVGGIVNFISEAA	CSS2	Calpain small subunit 2 (CSS2) (Calciu...
3	N13	+ IEKESQRKSIDPALSMLIKSIKTKT	CT06	Hypothetical protein C20orf6.

Bl.	Pos.	Sequence	SP-ID	Description	
3	N14	+	LDVIYWFRQIIAVVLGVIWGVLP	CT24	Protein C20orf24 (Rab5-interacting pro...
3	N15		GYAQYHHVSSRSLASLILPEEPVHF	CT26	Protein C20orf26.
3	N16		GDLHQASTSSRRALFLAVLSITIGT	CT39	UPF0338 protein C20orf39.
3	N17	+	HRLLSTEWGLPSIVKSLIGAARTKT	CT45	Protein C20orf45 (CGI-107).
3	O01		LTFFFVGEGLSGLPALVALAQGS	CT54	Protein C20orf54.
3	O02		PVAYHLAATLSIVANPLASLVSMFL	CT54	Protein C20orf54.
3	O03		FLGYQWAPILANFVHIIIVLGLFG	CT58	Protein C20orf58.
3	O04		RQQLRSAREVIAVMDVFTDIDIFR	CTC9	Protein C20orf129.
3	O05		IRSALRQEKALSAIADLLTNEHERV	CTD1	Catenin delta-1 (p120 catenin) (p120(c...
3	O06	+	NKSGNRSEKEVRAAAALVQTIWGYK	CTD1	Catenin delta-1 (p120 catenin) (p120(c...
3	O07	+	RHLTQQDPLSEAIVEKLIQSIQKVF	CTDB	Hypothetical protein C20orf132.
3	O08	+	RFVKLAVMGLTVALGAAALAVVKSA	CTE0	TBC1 domain family protein C20orf140.
3	O09		KSLEIRTLAVERLLEPLVTQVTTLV	CTN1	Alpha-1 catenin (102 kDa cadherin-asso...
3	O10	+	SVKRGNMVRAARALLSAVTRLLILA	CTN1	Alpha-1 catenin (102 kDa cadherin-asso...
3	O11		KSLEIRTLTVERLLEPLVTQVTTLV	CTN2	Alpha-2 catenin (Alpha-catenin related...
3	O12	+	SVKRGTMVRAARALLSAVTRLLILA	CTN2	Alpha-2 catenin (Alpha-catenin related...
3	O13		GVVGVAPTGIPAAVEGIVPSAMSL	CTP1	C-terminal binding protein 1 (EC 1.1.1....
3	O14	+	ARENAGPAIVISFLIAALASVLAGL	CTR1	High-affinity cationic amino acid tran...
3	O15		MMQLDQGTWVRFVAVWMLIGFIIFYG	CTR1	High-affinity cationic amino acid tran...
3	O16		VNDRTKTPIIATLASGAVAAMAFLL	CTR1	High-affinity cationic amino acid tran...
3	O17		TGLLALGASESALVTKVFTGVNLLV	CTR3	Cationic amino acid transporter 3 (CAT...
4	B01		DEREQLEETLPLILGLLGLVIMVT	CTX3	Protein C20orf103 precursor.
4	B02		FFGKQLQMVTVPIAPGILKVIAEKT	CU05	Protein C21orf5.
4	B03		KDLQEITQKILEAVGNIAAGSSLEQT	CU05	Protein C21orf5.
4	B04		PLQKLLPSLQAFIVGLLPGLEEGS	CU05	Protein C21orf5.
4	B05	+	VSSAPSVYSVQALSLLAEVLSALL	CU05	Protein C21orf5.
4	B06	+	VYRSDEKEKAVPLISRLLYVFPY	CU05	Protein C21orf5.
4	B07		WSEHPLQIELLKLQVLIVLEHHLG	CU05	Protein C21orf5.
4	B08		TRIRASETGSDEAIKSILEQAKREL	CUT1	CCAAT displacement protein (CDP) (Cut-...
4	B09		ANGTTPASTSEDAIKSILEQARREM	CUT2	Homeobox protein Cux-2 (Cut-like 2) (F...
4	B10		PRIRTPETGSDDAIKSILEQAKKEI	CUT2	Homeobox protein Cux-2 (Cut-like 2).
4	B11		ALPPWLSPWLLALTPLLSSEPPFL	CV03	Protein C22orf3.
4	B12	+	RCPHGQLSPALPLASSVLMMLMSTL	CV03	Protein C22orf3.
4	B13	+	TLRFLHASALLALASGLLAVLLAGL	CV03	Protein C22orf3.
4	B14	+	FPNPRRRLRLQDLADRVDASEDEH	CYA3	Adenylate cyclase type III (EC 4.6.1.1....
4	B15		QVSHMVKLTLMLLVAGAVATINLYA	CYA3	Adenylate cyclase type III (EC 4.6.1.1....
4	B16		SSSSWWTNWVPAISAVAVALMYRL	CYB5	Cytochrome b5.
4	B17	+	LHYYSEREGLQDIVIGIHKTVAAQI	CYG1	Guanylate cyclase soluble, beta-1 chai...
4	C01		KVEPVYFKILSGVILEVVAEEFASD	CYGB	Cytoglobin (Histoglobin) (HGb) (Stella...
4	C02		GDYLGEREELNLAVLHAFVLDLHEFT	CYH2	Cytohesin 2 (ARF nucleotide-binding si...
4	C03		AIIAFEDADLSLVPSALFAAVGTA	D7A1	Aldehyde dehydrogenase family 7 member...
4	C04	+	WKGAPTTSLISAVTKIIAKVLEDN	D7A1	Aldehyde dehydrogenase family 7 member...
4	C05		EKESLTBEEATEFLKQILNGVYYLH	DAK1	Death-associated protein kinase 1 (EC...
4	C06		HEVYENKTDVILILELVAGGELDFD	DAK1	Death-associated protein kinase 1 (EC...
4	C07		RANMTNVFIVSLAVSDLFVALLVMP	DBDR	D(1B) dopamine receptor (D(5) dopamine...
4	C08		EDAQKALQDIENFLEMALPFINYE	DBL	Proto-oncogene DBL (Proto-oncogene MCF...
4	C09		TDIGNSLAHVEHLRLDLASFEEKSG	DBS	Guanine nucleotide exchange factor DBS...
4	C10	+	YVASAFTLAVNIIAKKIVLKEQTS	DCOR	Ornithine decarboxylase (EC 4.1.1.17)...
4	C11	+	LRILRTDALVPLYVGVVAGAALQ	DCUP	Uroporphyrinogen decarboxylase (EC 4.1...
4	C12	+	AEKTDEEEKEDRAAQSLLNKLIRSN	DD19	ATP-dependent RNA helicase DDX19 (DEAD...
4	C13		SINNINEDDEEDVVDLAANSLNKL	DD25	ATP-dependent RNA helicase DDX25 (DEAD...
4	C14	+	DEERRQLIQLRDILKSALQVEQKED	DDF2	Development and differentiation-enhanc...
4	C15		LAVRSVDRSLHIVDFLVQNSGNLD	DDF2	Development and differentiation-enhanc...
4	C16		LGSNQLQSNVSLARDAANLAKEKQ	DDF2	Development and differentiation-enhanc...
4	C17	+	LGHPAAFGRATHAVVRLPESLQGH	DDH1	NG,NG-dimethylarginine dimethylaminohy...
4	D01		FAGPWLLFSEISFISDVVNSSPAL	DDR1	Epithelial discoidin domain receptor 1...
4	D02		MILIPRMLLVFLLLPILSSAKAQV	DDR2	Discoidin domain receptor 2 precursor...
4	D03		EVTTVTVANVGAADNVFTTSVANA	DEAF	Deformed epidermal autoregulatory fact...
4	D04		AAPEQIAADIPEVVVSLAWDESLAP	DEF3	Neutrophil defensin 3 precursor (HNP-3...
4	D05	+	ASFQRKWFVEVAFVAEELVHSEIPAF	DEP5	DEP domain containing protein 5.
4	D06	+	KVAFTGSTVEVGKLIKEAAGKSNLKR	DHA1	Aldehyde dehydrogenase 1A1 (EC 1.2.1.3...
4	D07	+	KIAFTGSTVEVGKLIQEAAGRSNLKR	DHA2	Aldehyde dehydrogenase 1A2 (EC 1.2.1.3...
4	D08	+	EAIKFNRQEKPLALYAFSNSRQVV	DHA8	Aldehyde dehydrogenase 8 (EC 1.2.1.5).
4	D09		ALQRLIQEQEQLVGALAADLHKNE	DHAP	Aldehyde dehydrogenase, dimeric NADP-p...
4	D10	+	PRALLAALWALEAAAGTAAALRIGAFN	DHP1	DNase I homolog protein DHP1 precursor...
4	D11		FTNTGPDNNLDVVISLLAFGVYPNV	DHX9	ATP-dependent RNA helicase A (Nuclear...
4	D12		ILEVNEMLSEALIQNVLKHLPEQK	DIA2	Diaphanous protein homolog 2 (Diaphano...
4	D13	+	RLVSSPPSGVPLALLALLALLALR	DIAC	Di-N-acetylchitobiase precursor (EC 3.
4	D14	+	RVVLKGDVSLKDIIDPAFRASWIAQ	DIAC	Di-N-acetylchitobiase precursor (EC 3.
4	D15	+	FQLPSRQPALSFLGHLLAAQVQAAL	DIS1	Disrupted in schizophrenia 1 protein.
4	D16	+	RLTSEREGLEGLLSKLLVLSRNV	DIS1	Disrupted in schizophrenia 1 protein.
4	D17	+	LIGPKVRITLTKFLPSVFMAMRDN	DJCD	DnaJ homolog subfamily C member 13.
4	E01		LRRVHGAGQVQQLALEVVNVITSNQ	DJCD	DnaJ homolog subfamily C member 13.
4	E02	+	QRPRAPRSALWLLAPPLLRWAPPLL	DLG4	Presynaptic density protein 95 (PSD-95...
4	E03	+	QRLLGRSWSVPVIRHLFAPLKEYF	DM3A	DNA (cytosine-5)-methyltransferase 3A...
4	E04		ESNSVIAQAPPVAQEALKKELETL	DMD	Dystrophin.
4	E05	+	KRKLEDLSSEWKAVNRLQLQELRAKQ	DMD	Dystrophin.

Bl.	Pos.	Sequence	SP-ID	Description
4	E06	VNLDRYQTALEEVVLSWLLSAEDTLQ	DMD	Dystrophin.
4	E07	+ LPARVPRPGLSEALSLLFAVVLRS	DMK	Myotonin-protein kinase (EC 2.7.1.-) (...)
4	E08	PSVSPQDETAEVAVPAAPAAEAEA	DMK	Myotonin-protein kinase (EC 2.7.1.-) (...)
4	E09	+ QRELQALGARAALALGRLQAER	DMN	Desmuslin.
4	E10	+ SARLRMVETLSNLLRSVVALSPPDL	DNL1	DNA ligase I (EC 6.5.1.1) (Polydeoxyri...
4	E11	RLEMKPGPQAQGLVMEAAATHSQGDD	DNMB	Dynamin binding protein (Scaffold prot...
4	E12	APGSVDDEVSRILASKLLHEELALQ	DOC6	Dedicator of cytokinesis protein 6.
4	E13	EGNVEQELRASLAALRLASPEPLVA	DOC6	Dedicator of cytokinesis protein 6.
4	E14	+ ELAEHLNASLAFFLSDLLSLVDRGF	DOC6	Dedicator of cytokinesis protein 6.
4	E15	+ GPFRQQHFLAGLLTELALALEPEA	DOC6	Dedicator of cytokinesis protein 6.
4	E16	+ LRAHGTHPAISTLARSATFVSVTYP	DOC6	Dedicator of cytokinesis protein 6.
4	E17	VMLSEARESVLGAVLKVVLVSLGSA	DOC6	Dedicator of cytokinesis protein 6.
4	F01	EAAFMYSTAVAFVLVLAALQGSA	DOPO	Dopamine beta-monoxygenase precursor...
4	F02	TRAYLDQTVVPILLQGLAVLAKERP	DP30	Dpy-30-like protein.
4	F03	+ IYEPFRYSVNVNQAQQLLEIVQNQR	DPH5	Probable diphthine synthase (EC 2.1.1.
4	F04	+ HIYLYHHAQAHKALFGIFPSQRRA	DPOE	DNA polymerase epsilon, catalytic subu...
4	F05	LSDEKDLTQLFMFARNAFVTLAMMD	DPP2	Dipeptidyl-peptidase II precursor (EC...
4	F06	+ FNWRQAHMQRARFVILRVLLEAGEGL	DPP3	Dipeptidyl-peptidase III (EC 3.4.14.4)...
4	F07	HVLSRPEEVEAEAVNRAITIANQTN	DPY2	Dihydropyrimidinase related protein-2...
4	F08	HVLSRPEELEAEAVFRAITIASQTN	DPY3	Dihydropyrimidinase related protein-3...
4	F09	HTTPKAVEKELNALYDVFLVSVQHW	DRNL	Muscle-specific DNase I-like precursor...
4	F10	MQTDEIGKVAEAAPVHSRALELF	DRP1	Dr1-associated corepressor (Dr1-associ...
4	F11	+ GVILGKWAAILLAILLGSVLLT	DSC3	Desmocollin 3 precursor (Desmocollin 4...
4	F12	MDWSFFRVAVLFIPLVVVEVNSEF	DSG1	Desmoglein 1 precursor (Desmosomal gly...
4	F13	QDVFVGSVEELSAHTLVMKINATD	DSG2	Desmoglein 2 precursor (HDGC).
4	F14	LPFRTTGALAFVIVVILVHGELRIE	DSG3	Desmoglein 3 precursor (130 kDa pemphi...
4	F15	IHVEQSISLLNFLLAFFDPEGHGK	DTNA	Dystrobrevin alpha (Alpha-dystrobrevin...
4	F16	+ PNTELVNRSLEAVLSTIFYQLNCRM	DTNA	Dystrobrevin alpha (Dystrobrevin-alpha...
4	F17	+ RLDEEHRLIARYAARLAAESSSSQP	DTNA	Dystrobrevin alpha (Alpha-dystrobrevin...
4	G01	GWPVLAQLAVGSALFSIVVPLAPG	DUFF	Duffy antigen/chemokine receptor (Fy g...
4	G02	+ LTSVLGILASSTVLFMLFRPLFRWQ	DUFF	Duffy antigen/chemokine receptor (Fy g...
4	G03	+ PQELYESSHIESAINVAIPGIMLR	DUS6	Dual specificity protein phosphatase 6...
4	G04	AEAEAEEWEAESVLTLLQKLRREG	DUS9	Dual specificity protein phosphatase 9...
4	G05	+ SRELYESARIGALSVALPALLRR	DUS9	Dual specificity protein phosphatase 9...
4	G06	DFVTVMKGLDQLLGRVILTEKQEL	DYH5	Ciliary dynein heavy chain 5 (Axonema...
4	G07	GVGSGKQSLTRLASFIAGYVSFQI	DYH5	Ciliary dynein heavy chain 5 (Axonema...
4	G08	KYAAARGLYEHHKFLFTLLTLKIDI	DYH5	Ciliary dynein heavy chain 5 (Axonema...
4	G09	QILHFKSSLVEEAVNELVNMLLDVE	DYH5	Ciliary dynein heavy chain 5 (Axonema...
4	G10	SLLEESQSSLHLVIRQAAANIQETG	DYH5	Ciliary dynein heavy chain 5 (Axonema...
4	G11	AIVDLKLQAEADNFVLKVVQLELLA	DYH9	Ciliary dynein heavy chain 9 (Axonema...
4	G12	+ DYYKKQVAQLKTLITMLIGQLSKGD	DYH9	Ciliary dynein heavy chain 9 (Axonema...
4	G13	EEDLAKAEPALTAQAALNTLNKTN	DYH9	Ciliary dynein heavy chain 9 (Axonema...
4	G14	GAGATREEKVKALLEILERVTD	DYH9	Ciliary dynein heavy chain 9 (Axonema...
4	G15	+ RDFVEEKLGSKYVVGALDFATSFE	DYH9	Ciliary dynein heavy chain 9 (Axonema...
4	G16	VLIENLEESIDPVLGPLLGREVIKK	DYH9	Ciliary dynein heavy chain 9 (Axonema...
4	G17	DFHKKQISQLNTLITLLGELPPGD	DYHB	Ciliary dynein heavy chain 11 (Axonema...
4	H01	EADLLKAEPALVAATAALNTLNRVN	DYHB	Ciliary dynein heavy chain 11 (Axonema...
4	H02	ELGQSTEEKVKNVLDLLEKLPPEEF	DYHB	Ciliary dynein heavy chain 11 (Axonema...
4	H03	ELPALSLGHVSAFLDEILVPLVSNK	DYHB	Ciliary dynein heavy chain 11 (Axonema...
4	H04	+ IGVKFLINEATFLADLLALRLHRVE	DYHB	Ciliary dynein heavy chain 11 (Axonema...
4	H05	LTETLDNYNELNAAMHLVLFEDAMQ	DYHB	Ciliary dynein heavy chain 11 (Axonema...
4	H06	SPVDFLTSQSWSAIKAIAMVEEFRG	DYHB	Ciliary dynein heavy chain 11 (Axonema...
4	H07	SSYFPPTLKDIFLAVENALLEAQDVE	DYHB	Ciliary dynein heavy chain 11 (Axonema...
4	H08	STLELRQLPEESFILKVVQLELLA	DYHB	Ciliary dynein heavy chain 11 (Axonema...
4	H09	ATIMQPYFTSNGLVTKALEHAFQLE	DYHC	Dynein heavy chain, cytosolic (DYHC) (...)
4	H10	+ EGKKKQTNYLRTLINELVKGILPRS	DYHC	Dynein heavy chain, cytosolic (DYHC) (...)
4	H11	+ GPSGSGKSMARVRLKALERLEGVE	DYHC	Dynein heavy chain, cytosolic (DYHC) (...)
4	H12	+ KLVAEDIPLLSLLSDVFPVQYHR	DYHC	Dynein heavy chain, cytosolic (DYHC) (...)
4	H13	+ LLSATELDKIRQALVAIFTHLRKIR	DYHC	Dynein heavy chain, cytosolic (DYHC) (...)
4	H14	VNKAHQANQLYFPAISLIESVRTYE	DYHC	Dynein heavy chain, cytosolic (DYHC) (...)
4	H15	EETAFFVVDVSNIVKEAIESAIGGN	DYLC	Cytoplasmic dynein light chain (T-comp...
4	H16	APLAENEGLLVALEELAFKASEQI	DYNA	Dynactin 1 (150 kDa dynein-associated...
4	H17	GLRGPPPSGIATLVSGIAGEEQQRG	DYNA	Dynactin 1 (150 kDa dynein-associated...
4	I01	EPLEKTPAAVFALEAGLGGVMDDK	DYSF	Dysferlin (Dystrophy associated fer-1...
4	I02	+ WRRFRWAILFIILFILLFLAIFI	DYSF	Dysferlin (Dystrophy associated fer-1...
4	I03	FHYAQLQSNIEAINELLVELEGTM	E2BB	Translation initiation factor eIF-2B b...
4	I04	+ PVRREVTDKEQEFARAARKQLEYQQ	E4L3	Band 4.1-like protein 3 (4.1B) (Differ...
4	I05	+ FPGDILMRMLKMLLPLHISSLITG	EAA2	Excitatory amino acid transporter 2 (S...
4	I06	GTRAMVYVMSTTHAAVGLVILVLA	EAA2	Excitatory amino acid transporter 2 (S...
4	I07	+ KLMVDFFNILEIVMKLVIMIMWYS	EAA2	Excitatory amino acid transporter 2 (S...
4	I08	+ FPGEILMRMLKLIPLHISSMITG	EAA3	Excitatory amino acid transporter 3 (S...
4	I09	DRISTAGYSIPPELLTKLVQIERLDA	EDAR	Tumor necrosis factor receptor superfa...
4	I10	LATALIHAMSTIFIMAIIVLIMF	EDAR	Tumor necrosis factor receptor superfa...
4	I11	DDIVADVVEEVVEGVAGEEDHDD	EDD	Ubiquitin-protein ligase EDD (EC 6.3.
4	I12	+ PFMASVSGRAYPAAITILETAQKIA	EDD	Ubiquitin-protein ligase EDD (EC 6.3.
4	I13	+ RNTFAERLSAVEAIAANISVSSNG	EDD	Ubiquitin-protein ligase EDD (EC 6.3.
4	I14	+ NAAQTPRIPSRLLAILLFLMLLT	EFA5	Ephrin-A5 precursor (EPH-related recep...

Bl.	Pos.	Sequence	SP-ID	Description
4	I15	PSPELMEGPEEDIADKVVFLERRVL	EFER	Rab11 family-interacting protein 3 (Ra...
4	I16	VSWTQFNIIILTVIIIVVLLMGFV	EFL5	Multiple EGF-like-domain protein 5 pre...
4	I17	MEGSPEPPTSASILSVAVREAEKDE	EFL8	Multiple EGF-like-domain protein 8 pre...
4	J01	VRRQEAAGLGEPSLVALVVFALGALTA	EFL9	Multiple EGF-like-domain protein 9 pre...
4	J02	GLKELPMRNLQEIILHGAVRFSNPA	EGFR	Epidermal growth factor receptor precu...
4	J03	NYDLSFLKTIQEVAGYVLIANTVE	EGFR	Epidermal growth factor receptor precu...
4	J04	GMQVSA SMISNEAVVNILSSSPQR	EGLN	Endoglin precursor (CD105 antigen).
4	J05	MVETQQLMRVYGALMWALGKVVGTPT	EHD2	EH-domain containing protein 2.
4	J06	TIINLTHHFSV GALMSAILES LQTA	EIP1	EPM2A-interacting protein 1 (Laforin-i...
4	J07	PGTEGSTLSAPAVLVVAVVVVVV	EK11	Ethanolamine kinase (EC 2.7.1.82) (EKI...
4	J08	STDPSAGTGSQKFLQAIPISSQPMT	ELF1	ETS-related transcription factor Elf-1...
4	J09	HGIVSWDTFVAFIKKIASFVNKSA	ELM1	Engulfment and cell motility protein 1...
4	J10	HGIVSWDMVSIITFIKQIAGYVSPQM	ELM2	Engulfment and cell motility protein 2...
4	J11	VSNQEIQT YAIALINALFLKAPEDK	ELM2	Engulfment and cell motility protein 2...
4	J12	LGLESVTLSSPALGQLVKSEVPLD	ELM3	Engulfment and cell motility protein 3...
4	J13	VMNQQLQTKAMALLTALLQGASPVE	ELM3	Engulfment and cell motility protein 3...
4	J14	YTNSTTEIPEFFPIAPEIALELLMAA	ELOC	Transcription elongation factor B poly...
4	J15	GVEGAPAAPVPPQVAFSAALSRLPSE	EM11	EMILIN 1 precursor (Elastin microfibri...
4	J16	LYLLPTGEIVYFVASVAVLYSVEEQ	EML2	Echinoderm microtubule-associated prot...
4	J17	ESRVQQQEDEITVLKAAALADVLRRL	EML4	Echinoderm microtubule-associated prot...
4	K01	GKDATNVGDEGGFAPNILENSEALE	ENOG	Gamma enolase (EC 4.2.1.11) (2-phospho...
4	K02	APNILENKEALELLKTAIGKAGYS	ENOL	Alpha enolase, lung specific (EC 4.2.1...
4	K03	AGMRLLRMESEELADRVLDDVVERSL	ENP1	Ectonucleoside triphosphate diphosphoh...
4	K04	KNLAILGFSSIIAVIALLAVALGTQ	ENP1	Ectonucleoside triphosphate diphosphoh...
4	K05	LKALYRTPTHIALVLLVLSIVLVLS	ENP3	Ectonucleoside triphosphate diphosphoh...
4	K06	GQFGVGFYS AFLVADKVIIVTSKHNN	ENPL	Endoplasmin precursor (Endoplasmic ret...
4	K07	IKEDDDDKTVLDAVVLFFETATLRS	ENPL	Endoplasmin precursor (94 kDa glucose...
4	K08	VSRGLTGGEIVAVIFGLLLGAALLL	EPA1	Ephrin type-A receptor 1 precursor (EC...
4	K09	PEGSGNLAVIGGVAVGVVLLVLAG	EPA2	Ephrin type-A receptor 2 precursor (EC...
4	K10	NSTVLLVSVSGSVLVVILIAAFVI	EPA4	Ephrin type-A receptor 4 precursor (EC...
4	K11	AVSSEQNPV VIII AVVAVAGTILVF	EPA7	Ephrin type-A receptor 7 precursor (EC...
4	K12	DYKSELREQLPLIAGSAAAGVVFVV	EPB1	Ephrin type-B receptor 1 precursor (EC...
4	K13	KLPLIIGSSAAGLVFLIIVVIAIV	EPB2	Ephrin type-B receptor 2 precursor (EC...
4	K14	ELSSQLPERLSLVIGSILGALAFLL	EPB6	Ephrin type-B receptor 6 precursor (Ty...
4	K15	QSKARRKKWIIIVSVVIVVILVI	EPMO	Epimorphin (Syntaxin 2).
4	K16	SDLPLILTLILVILVLLTVLA	EPOR	Erythropoietin receptor precursor (EPO...
4	K17	FQGIIRRTASELLSSAITEEMLQ	EPPL	Epiplakin (450 kDa epidermal antigen).
4	L01	MYRTHTRRALQTV AQ LILELIEKQE	EPPL	Epiplakin (450 kDa epidermal antigen).
4	L02	PVRNLRLSVEEAVAAGVVGGEIQEK	EPPL	Epiplakin (450 kDa epidermal antigen).
4	L03	SGRAAALRQVVS AVTALVEAAERQP	EPPL	Epiplakin (450 kDa epidermal antigen).
4	L04	TGYDDPYGGEKLLALFQAIGKEVVDR	EPPL	Epiplakin (450 kDa epidermal antigen).
4	L05	TLVLIGKTHLT MALT VIAGLVVIFM	ERB3	Receptor tyrosine-protein kinase erbB...
4	L06	PQHARTPLIAAGVIGGLFIVLIVGL	ERB4	Receptor tyrosine-protein kinase erbB...
4	L07	GVEDTLKALEMGA VEILVYENLDI	ERF1	Eukaryotic peptide chain release facto...
4	L08	AGGPRKTPAPVNALVSHLLVVEPEKL	ERR1	Steroid hormone receptor ERR1 (Estroge...
4	L09	AQRSLPLQDELAF AEDLVLDEEGAR	ERR1	Steroid hormone receptor ERR1 (Estroge...
4	L10	RLQALRLEREYVLLKALALANSDS	ERR1	Steroid hormone receptor ERR1 (Estroge...
4	L11	GESAGGESVSVLVSPLAKNLFHRA	EST1	Liver carboxylesterase 1 precursor (EC...
4	L12	GKVLGK FVSLGEGFQVVAIFLGIPF	EST1	Liver carboxylesterase 1 precursor (EC...
4	L13	TPQKNYNYSIAAILIGVLLTSMMLVA	EV2B	EVI2B protein precursor (Ecotropic vir...
4	L14	ALRPAPALLAPAVLLGAALGLGLGL	EVC	Ellis-van Creveld syndrome protein (DW...
4	L15	QLETQLQEAEQNFISELAALARVPL	EVC	Ellis-van Creveld syndrome protein (DW...
4	L16	NILVTTTQLIPALAKVLLYGLGIVF	EYA1	Eyes absent homolog 1 (EC 3.1.3.48).
4	L17	NVLVTTTQLIPALAKVLLYGLGSVF	EYA2	Eyes absent homolog 2 (EC 3.1.3.48).
4	M01	NVLITTTQLVPALAKVLLYGLGEIF	EYA3	Eyes absent homolog 3 (EC 3.1.3.48).
4	M02	PADEKLQEKAWGAVVPLVGLKPKFY	F49B	Protein FAM49B.
4	M03	GRPLHLVLLSASLAGLLLGESLFI	FA10	Coagulation factor X precursor (EC 3.4...
4	M04	LRHQGPSLSAPHVLGLAALAVHLGE	FACA	Fanconi anemia group A protein (FACA p...
4	M05	SPAPNDWLSAAALHFAIQVREEN	FACA	Fanconi anemia group A protein (FACA p...
4	M06	VEQRKKLSSLEFAQYLLAHSMSFR	FACA	Fanconi anemia group A protein (FACA p...
4	M07	VTVDVLQRMLIFALDALAAGVQEES	FACA	Fanconi anemia group A protein (FACA p...
4	M08	FLFIHFGGWAEMVAEQLLMSAAEPP	FACC	Fanconi anemia group C protein (FACC p...
4	M09	NRLGIESPRSEKLARELLKELRTQV	FACC	Fanconi anemia group C protein (FACC p...
4	M10	QQRAQTMVQVKAVLGHLLAMSRSSS	FACC	Fanconi anemia group C protein (FACC p...
4	M11	SGQSKLNSWIQGVLSHLSALRFDK	FACC	Fanconi anemia group C protein (FACC p...
4	M12	TLEQNNWDLVAINGVIPQENGIL	FAF1	FAS-associated factor 1 (FAF1 protein)...
4	M13	ETRRGAYLNALKIAKLLTIAIGYGH	FAFX	Probable ubiquitin carboxyl-terminal h...
4	M14	GPSASQVLYLTEVVYALLMPAGAPL	FAFX	Probable ubiquitin carboxyl-terminal h...
4	M15	SQAYDNLSLSDHLLRAVLNLLRREV	FAFX	Probable ubiquitin carboxyl-terminal h...
4	M16	WVVPVLPKGELEVLLEAAIDLKSKG	FAFX	Probable ubiquitin carboxyl-terminal h...
4	M17	GPSASQVLYLTEVVYALLMPAGVPL	FAFY	Probable ubiquitin carboxyl-terminal h...
4	N01	HTLKKYFIPVIEIVPHLENTDEE	FAFY	Probable ubiquitin carboxyl-terminal h...
4	N02	WVVPVLPKGELEVLLEAAIDLKSKG	FAFY	Probable ubiquitin carboxyl-terminal h...
4	N03	YLWRVVIQSSDEIANRAIDLLKEIY	FAFY	Probable ubiquitin carboxyl-terminal h...
4	N04	FVRKVVY TILLIQLLVTLAVVALFTF	FAI2	Fas apoptotic inhibitory molecule 2 (L...
4	N05	EEYVPMVKEVGLALRLLATVDETI	FAK1	Focal adhesion kinase 1 (EC 2.7.1.112)...
4	N06	RSNDKVVYENV TGLVKAVIEMSSKIQ	FAK1	Focal adhesion kinase 1 (EC 2.7.1.112)...

Bl.	Pos.	Sequence	SP-ID	Description
4	N07	+ ARTSSAEYNVNNLVSPVLFQEALWH	FAS	Fatty acid synthase (EC 2.3.1.85) [Inc...
4	N08	+ FRYMAQKHKHGKVVVVQVLAEEPVL	FAS	Fatty acid synthase (EC 2.3.1.85) [Inc...
4	N09	MGHPEPASGLDALAKVLLSLEHGLW	FAS	Fatty acid synthase (EC 2.3.1.85) [Inc...
4	N10	+ AVTIHPVTGSISVLNPAFLGLSRKL	FAT2	Protocadherin Fat 2 precursor (hFat2)...
4	N11	IIQATEKTELEALTRVVVHILDQN	FAT2	Protocadherin Fat 2 precursor (hFat2)...
4	N12	IQRGDWQQEQLIITVAVAFHIST	FAT2	Protocadherin Fat 2 precursor (hFat2)...
4	N13	QDPYSTRLENALVGDVILTVSATD	FAT2	Protocadherin Fat 2 precursor (hFat2)...
4	N14	ASSYKGRVYESAAVGSVVLQVTALD	FATH	Cadherin-related tumor suppressor homo...
4	N15	NIGLAEGIGIVFVAGIFLLVVVVF	FATH	Cadherin-related tumor suppressor homo...
4	N16	YDLGIPQKAAWRLLHVVVDANDNP	FATH	Cadherin-related tumor suppressor homo...
4	N17	IKAPREKYWLFPIPLLVVILFAVD	FCEA	High affinity immunoglobulin epsilon r...
4	O01	GSSSPMGIIIVAVVIATAVAIAVA	FCGA	Low affinity immunoglobulin gamma Fc r...
4	O02	APSSSPMGIIIVAVVTGIAVAIAVA	FCGB	Low affinity immunoglobulin gamma Fc r...
4	O03	SPQPWGHMLLWTAVFLAPVAGTPA	FCGB	Low affinity immunoglobulin gamma Fc r...
4	O04	MGVPRPQPWALGLLFLPGLGAE	FCGN	IgG receptor FcRn large subunit p51 pr...
4	O05	RVELESPAKSSVLVVGIVIGVLLLT	FCGN	IgG receptor FcRn large subunit p51 pr...
4	O06	IRKIVPELKSVLADVAIIFSLHP	FCP1	RNA polymerase II subunit A C-terminal...
4	O07	+ PGPAPLRLELRVAAGA AVRIGSVL	FCP1	RNA polymerase II subunit A C-terminal...
4	O08	GSRKAPPLAAALAEAVSLLQTD	FEM2	Ca(2+)/calmodulin-dependent protein ki...
4	O09	VFQFPYVSGEADAASRALTGSEDYL	FEM2	Ca(2+)/calmodulin-dependent protein ki...
4	O10	+ MEEWDYPRIGDILQKLAPFLKMYG	FGD1	Putative Rho/Rac guanine nucleotide ex...
4	O11	SVELTVQQKVFHIANELLQTEKAYV	FGD1	Putative Rho/Rac guanine nucleotide ex...
4	O12	KNPEGQDLRLPQLVDMAAQVAEGMA	FGR	Proto-oncogene tyrosine-protein kinase...
4	O13	+ SGTKKSDFHSQMAVHKLAKSIPLRR	FGR1	Basic fibroblast growth factor recepto...
4	O14	PSQRPTFKQLVEALDKVLLAVSEEY	FGR4	Fibroblast growth factor receptor 4 pr...
4	O15	RYTDIILYASGSLALAVLLLAGLY	FGR4	Fibroblast growth factor receptor 4 pr...
4	O16	VYAQNPSGESQPLVQTAVTNIIDRPK	FINC	Fibronectin precursor (FN) (Cold-insol...
4	O17	+ PSHSLRLPLQLLLLVQAVGRGL	FK10	FK506 binding protein 10 precursor (EC...
5	B01	MRLFLWNAVTLFVTSLIGALIPPEP	FK14	FK506 binding protein 14 precursor (EC...
5	B02	+ DVFIWLGGRKSPRLVRAAALKLQJEL	FLIH	Flightless-I protein homolog.
5	B03	QLPGLTIWQIENFVPLVEEAFHGK	FLIH	Flightless-I protein homolog.
5	B04	GLETGQVQKSAADFVVEAIGTEVGTL	FLNC	Filamin C (Gamma-filamin) (Filamin 2)...
5	B05	NAGPMASPLAGIIGGAVALVFLFL	FLR1	Leucine-rich repeat transmembrane prot...
5	B06	YGDAAKMALVLEALPQIAAKIAAPL	FLT2	Flotillin-2 (Epidermal surface antigen...
5	B07	ALSPNTGQTINLLNPAHSADPEN	FOG2	Zinc finger protein ZFP2 (Zinc finger...
5	B08	VTAISTPDLQWLVPALVSSVAPS	FOS	Proto-oncogene protein c-fos (Cellular...
5	B09	GNWQEIQEKAVEVATVVIQPSVLRA	FPRP	Prostaglandin F2 receptor negative reg...
5	B10	LSQTGASIGSALAAIMLLLVFLVA	FRS1	Extracellular matrix protein FRAS1 pre...
5	B11	+ HRLQLQLVLSGNLIKEAVRRLQRAV	FRT2	GSK-3 binding protein FRAT2 (Frat-2).
5	B12	DMALSDVTEESEIHELVTQVSLGG	FUCO	Tissue alpha-L-fucosidase precursor (E...
5	B13	+ LPHGSLGTSSILAGTALAALQRAA	FUK	L-fucose kinase (EC 2.7.1.52) (Fucokin...
5	B14	ESHTGTSASAPLAAGHIALTLEANK	FURI	Furin precursor (EC 3.4.21.75) (Paired...
5	B15	FYGTSAVATLLFILTAIAFKEKPRY	FVR1	Feline leukemia virus subgroup C recep...
5	B16	YHISIMFYIIGGVATLLILVIVF	FVR2	Feline leukemia virus subgroup C recep...
5	B17	YQATVETTRSAAAALDILNTATRDI	FX30	F-box only protein 30.
5	C01	DIDEESEAEESIAISIAQMEKRL	FXL5	F-box/LRR-repeat protein 5 (F-box and...
5	C02	FHYDYQTLRIGGLVFAVVLFSVGIL	FXY6	FXYD domain-containing ion transport r...
5	C03	SLLVGRDDTSNELVVGHIYRTFT	FYV1	FYVE finger-containing phosphoinositid...
5	C04	IWGASPSYTISSVSVIPIVMI	G101	Probable G protein-coupled receptor GP...
5	C05	NLLVTDLLQISLVAPVWVATSVPLF	G101	Probable G protein-coupled receptor GP...
5	C06	RSTVLVIFLAASFVGNIVLALVLQR	G101	Probable G protein-coupled receptor GP...
5	C07	ANITISDENAEDVAEHILNLINESP	G112	G-protein coupled receptor GPR112.
5	C08	SASISDDMFIQNLADPVVITLQHIG	G112	G-protein coupled receptor GPR112.
5	C09	EHEISSPGSLGAIINILDLLSTVP	G116	Probable G-protein coupled receptor 11...
5	C10	FPGTNLVFHIFAILNVFQGLFILL	G116	Probable G-protein coupled receptor 11...
5	C11	WLNWEDTKALLAFAIPALIIVVVNI	G116	Probable G-protein coupled receptor 11...
5	C12	RSKQVTVMLLSIAIISALLWLPEWV	G151	Probable G protein-coupled receptor 15...
5	C13	SIHNYTIWVSVLVAIWTVASLLPLPE	G151	Probable G protein-coupled receptor 15...
5	C14	YLAFLWDVYSGYLLWEALVYSDYLI	G152	Probable G protein-coupled receptor 15...
5	C15	DNAAQKMQTVTAAVEELLVAAQRQD	G45B	Growth arrest and DNA-damage-inducible...
5	C16	+ PESTARMQGGAGKALHELLSAQRQG	G45G	Growth arrest and DNA-damage-inducible...
5	C17	QLAAAQAQQEQELAADAFKELDDDM	GA2B	Glucosidase II beta subunit precursor...
5	D01	EQKTERMDKVGDALEEVLSKALSQR	GA45	Growth arrest and DNA-damage-inducible...
5	D02	+ PKVDKWSRFLFLAFGLFNIVVWVY	GAAT	Gamma-aminobutyric-acid receptor theta...
5	D03	VSAVQFGNSSTSVLATLAALAEASA	GABB	GA binding protein beta chain (GABP-be...
5	D04	+ RLFTNLKDTSSKVIQSVANYAKGDL	GAK	Cyclin G-associated kinase (EC 2.7.1....
5	D05	+ ESLREVQLEEEAARDLVSKGFRR	GAL1	Galactokinase (EC 2.7.1.6) (Galactose...
5	D06	+ RPFLPYFNVSQQFATFVLKGSFSEI	GALC	Galactocerebrosidase precursor (EC 3.2...
5	D07	EKGGLKNINLIHLTFILVSAILLT	GARP	GARP protein precursor (Garpin) (Glyco...
5	D08	+ NHGMWQTISVEELARNLVIKVNRDA	GAS6	Growth-arrest-specific protein 6 precu...
5	D09	+ AGEDPKVTRAKFFIRDLFLRISTAT	GBAF	Guanine nucleotide-binding protein G(o...
5	D10	FMDKYMHAAGSSDLLSEAIPELKNM	GBF1	Golgi-specific brefeldin A-resistance...
5	D11	LQGVVPMPTLPIILNPALIEATSPV	GBF1	Golgi-specific brefeldin A-resistance...
5	D12	+ PSVFGSNPKAHIAAKTVFHLAHRHG	GBF1	Golgi-specific brefeldin A-resistance...
5	D13	KALEILDKISQPVVVVAIVGLYRTG	GBP4	Guanylate binding protein 4.
5	D14	VEKADNKNDIQIFALALLSSTFVY	GBP5	Interferon-induced guanylate-binding p...
5	D15	ATDQTQNVKVFVDAVTDIIHKNLKD	GBT3	Guanine nucleotide-binding protein G(t...

Bl.	Pos.	Sequence	SP-ID	Description
5	D16	AEGPWGIIIESLAHLGIVVTILLLL	GC5D	G protein-coupled receptor family C gr...
5	D17	+ HGRILFITVLFSSIIIWVWISMLLR	GC5D	G protein-coupled receptor family C gr...
5	E01	+ NVLKDMEKLLKRLQVAARKSQVTL	GCC1	GRIP and coiled-coil domain-containing...
5	E02	DTARHHRRAVILDLLQEALTESGLTS	GCP	Probable O-sialoglycoprotein endopepti...
5	E03	IGTLPASQESAVVEDLLYVLVGVVD	GCP2	Gamma-tubulin complex component 2 (GCP...
5	E04	LVDPNLDLSIRELVHRLPVAASYS	GCP2	Gamma-tubulin complex component 2 (GCP...
5	E05	PVEDITPPRLEALELALRMSTANT	GCP2	Gamma-tubulin complex component 2 (GCP...
5	E06	+ TINKFDKNFSAHLDDLARLSIYST	GCP2	Gamma-tubulin complex component 2 (GCP...
5	E07	+ IINNDTITLAIIVDKLAPRLSQLK	GCP5	Gamma-tubulin complex component 5 (GCP...
5	E08	+ GLLTEKAAAPVMNVHISFSLVKFR	GCP6	Gamma-tubulin complex component 6 (GCP...
5	E09	+ IAKQELIAHAREAASRVLSALSDRQ	GCP6	Gamma-tubulin complex component 6 (GCP...
5	E10	+ SYESMSEPPIAHLRLPVPRAFAPF	GCP6	Gamma-tubulin complex component 6 (GCP...
5	E11	+ GSAVEIVGLSKSAVRWLELSKKN	GDE	Glycogen debranching enzyme (Glycogen...
5	E12	YQLRPNFTIAMVVAPLFTTEKAGK	GDE	Glycogen debranching enzyme (Glycogen...
5	E13	+ LRLETAPNISKDVRQLLPKAPPLR	GDF8	Growth/differentiation factor 8 precur...
5	E14	ILEHDDVSYLKKILGELAMVLDQIE	GDL1	Gangioside-induced differentiation-ass...
5	E15	+ VLGDIHTTLLSAVIPNAFRLVKKRP	GDL1	Gangioside-induced differentiation-ass...
5	E16	AEKDLESAKLVQILHRLADERSAP	GDS1	Rap1 GTPase-GDP dissociation stimulat...
5	E17	+ SNHPEDLQAANRLIKNLVKEEKEKS	GDS1	Rap1 GTPase-GDP dissociation stimulat...
5	F01	TSEHVIMQNEALVALALIAALELGT	GDS1	Rap1 GTPase-GDP dissociation stimulat...
5	F02	+ FNQLTQSASEQGLAKAVASVARLVI	GEM4	Component of gems 4 (Gemin4) (p97).
5	F03	QGSNRALRFPDLVLRLLLETVIDVS	GEM4	Component of gems 4 (Gemin4) (p97).
5	F04	VSSLLQRAHEQRFLKSIAGEGIPPEE	GEM4	Component of gems 4 (Gemin4) (p97).
5	F05	SNHPEDLQAANRLIKNLVKEEKEKS	GGA2	ADP-ribosylation factor binding protei...
5	F06	APSAGSSLFSTGVAPALAPKVEPAV	GGA3	ADP-ribosylation factor binding protei...
5	F07	VQYQQHSQALGKFLQDILWEEAKEA	GHRL	Ghrelin precursor (Growth hormone secr...
5	F08	VEKNSQLERENTLLKTLASPEQLEK	GILZ	Glucocorticoid-induced leucine zipper...
5	F09	+ GRQKLARFNAREFATLIIDILSEAK	GIT1	ARF GTPase-activating protein GIT1 (G...
5	F10	+ KPVYYALEGSVAIAGAVIRWLRDNL	GLPK	Glycerol kinase (EC 2.7.1.30) (ATP:gly...
5	F11	HVPPTGPALSSALLFDVAVVAVTAV	GLK4	Glutamate receptor, ionotropic kainate...
5	F12	QQALSSVQDQDQVVDVVDLVDPALGA	GLNE	Bifunctional UDP-N-acetylglucosamine 2...
5	F13	ETSTPTIMDIVVIAGVIAVAIVLV	GLPC	Glycophorin C (PAS-2) (Glycoprotein be...
5	F14	ALYEVVTGELGLALVVLNKVDLAP	GNL1	Guanine nucleotide-binding protein-lik...
5	F15	+ VGILSRRLQEALAAKEAADAELGQL	GOA3	Golgi autoantigen, golgin subfamily A...
5	F16	+ FLRRYPPIARVFIIMALLHLWVMI	GOA5	Golgi autoantigen, golgin subfamily A...
5	F17	NQMAEPPSLAPPVAVTSVVEQLQDEA	GOA6	Golgi autoantigen, golgin subfamily A...
5	G01	NETETAEEERVAELARDLVEMEQKLL	GOB1	Golgi autoantigen, golgin subfamily B...
5	G02	HQPRSPRLDLKGALESLEEETGQK	GON1	Progonadoliberin 1 precursor [Contains...
5	G03	LLALIYLAHASDVLENAFAPLLDEQ	GOP3	Golgi phosphoprotein 3 (Coat-protein G...
5	G04	AYPLDMKVSLQAALQPIVSSLNVS	GP2	Pancreatic secretory granule membrane...
5	G05	+ VLGFLWLLFASVLLILLSWVGHVK	GPBA	Platelet glycoprotein Ib alpha chain p...
5	G06	GNPEVVKVKGIDPVINQIIDLKLVV	GPC5	Glypican-5 precursor.
5	G07	+ QASWVRPGVLWDVALVAVALGLAL	GPIX	Platelet glycoprotein IX precursor (GP...
5	G08	+ FRLVSRDRYASEAIKGAUVGIDLGT	GR75	Stress-70 protein, mitochondrial precu...
5	G09	+ EDFKAKKKELEIVQPIISKLYGSA	GR78	78 kDa glucose-regulated protein precu...
5	G10	+ GQPKRYKGFSDVLDALAKALGFKY	GRD1	Glutamate receptor delta-1 subunit pre...
5	G11	KIHYTVGHSSISIVALFAITILVAL	GRFR	Growth hormone-releasing hormone recep...
5	G12	ITSKVTLEIEFDVAESVIPSSGTFH	GRI1	Glutamate receptor interacting protein...
5	G13	LAHKVVLEVEFDVAESVIPSSGTFH	GRI2	Glutamate receptor interacting protein...
5	G14	+ FQGKKNMTRLAGRLAGPLFQTLIVAW	GRIP	GTPase activating Rap/Ran-GAP domain-l...
5	G15	GQEDLTSYFLEALLKYIVIQVKSLE	GRIP	GTPase activating RapGAP domain-like 1...
5	G16	MEGEVLPKNIQRAAASLVSREESKN	GRIP	GTPase activating RapGAP domain-like 1...
5	G17	MLIMDFIVAAGRASSAFLNAPRVE	GRIP	GTPase activating Rap/Ran-GAP domain-l...
5	H01	+ QKGHKSQREELDAILFIFEKILQLL	GRIP	GTPase activating RapGAP domain-like 1...
5	H02	+ VKTQMQLHGLISIAARTVITHLVNHL	GRIP	GTPase activating Rap/Ran-GAP domain-l...
5	H03	+ VPTWDTIRDEEDVLDLQYLVGVT	GRIP	GTPase activating Rap/Ran-GAP domain-l...
5	H04	+ HEHIERRRKLYLAALPLAFALIPN	GRLF	Glucocorticoid receptor DNA binding fa...
5	H05	+ GVVSEKQVVEFALRRLQVVEEPQ	GRWD	Glutamate-rich WD-repeat protein 1.
5	H06	VKSLVMGKKALEAAQIHDVQLPMP	GS1	GS1 protein (Protein FAM16AX).
5	H07	GSLLDKQQLLEELARQAVDRALAEAG	GSHB	Glutathione synthetase (EC 6.3.2.3) (G...
5	H08	IAKAWELYGSPNALVLLIAQEKERN	GSHB	Glutathione synthetase (EC 6.3.2.3) (G...
5	H09	SVYPEMRMYSDIAYGVLQNSLKT	GTL4	Putative polypeptide N-acetylgalactosa...
5	H10	ELAPKNLRGALGVVPQLFITVGLV	GTR5	Solute carrier family 2, facilitated g...
5	H11	EDWEDEFLENAVLFEVAWEVANKV	GYS1	Glycogen [starch] synthase, muscle (EC...
5	H12	QWEVEELPVEELLFEVAWEVTNKV	GYS2	Glycogen [starch] synthase, liver (EC...
5	H13	FLFLVGGFAEAPLLQAVQAAPFGDQ	H12A	Heat shock 70 kDa protein 12A.
5	H14	+ MRPEDRMFHIRAVILRALSALFLLS	HA2Q	HLA class II histocompatibility antige...
5	H15	+ SHTRGPEQVQKAILSELLQRENRLV	HAPI	Huntingtin-associated protein-interact...
5	H16	DETAFGYKGLKILLYIAGSLSTMF	HAT1	Histone acetyltransferase type B catal...
5	H17	+ AMSKSRNRLQTAQELLEDLRTLE	HBP2	Heat shock factor 2 binding protein.
5	I01	ERLTTEVMQIRDFLPRILNGEVLES	HBP2	Heat shock factor 2 binding protein.
5	I02	+ ALGHKRNNSGVPAPFLTPLLRNIIISL	HD	Huntingtin (Huntingtons disease protei...
5	I03	ESGRKAVTHAIPALQPIVHDLFVLR	HD	Huntingtin (Huntingtons disease protei...
5	I04	EKFCGFLRSALDVLQILELATLQD	HD	Huntingtin (Huntingtons disease protei...
5	I05	+ ENEDKWKRLSRQIADHILPMLAKQQ	HD	Huntingtin (Huntingtons disease protei...
5	I06	+ FGDAALYQSLPTLARALAQYLVVVS	HD	Huntingtin (Huntingtons disease protei...
5	I07	+ GLLKLQERVLNNVVIHLLGDEDPV	HD	Huntingtin (Huntingtons disease protei...

Bl.	Pos.	Sequence	SP-ID	Description
5	I08	LPEETFSRFLLQLVGGILLEDIVTKQ	HD	Huntingtin (Huntingtons disease protei...
5	I09	PEEDTERTQINVLAVQAITSVLVSA	HD	Huntingtin (Huntingtons disease protei...
5	I10	PLDLSAHQDALILAGNLLAASAPKS	HD	Huntingtin (Huntingtons disease protei...
5	I11	RRTQYFYSWLLNVLLGGLVVPVEDEH	HD	Huntingtin (Huntingtons disease protei...
5	I12	SARRTPAILISEVVRSLLVVSDLFT	HD	Huntingtin (Huntingtons disease protei...
5	I13	SHLHLPPEKEKDIVKVVATLEALS	HD	Huntingtin (Huntingtons disease protei...
5	I14	STVQLWISGILAILRVLSQSTEDI	HD	Huntingtin (Huntingtons disease protei...
5	I15	YIEVGGQFRESEAIHPNIFFLVLLS	HD	Huntingtin (Huntingtons disease protei...
5	I16	LLEENSTPQLAGILARVLNGEAPPS	HD10	Histone deacetylase 10 (HD10).
5	I17	QVGMGNADYVAAFLLHLLPLAFEFD	HD10	Histone deacetylase 10 (HD10).
5	J01	QVGMRDADYIAAFLHVLPPVALEFQ	HDA6	Histone deacetylase 6 (HD6).
5	J02	+	HED1	HECT domain containing protein 1 (Frag...
5	J03	IPRPEETEELVEWVLEEVAQRSHAVG	HEMK	HemK protein homolog (EC 2.1.1.-) (M.H...
5	J04	LGMQPIKNVEMLASVLAIVSVTL	HEPH	Hephaestin precursor (EC 1.-.-) (UNQ...
5	J05	+	HEXB	Beta-hexosaminidase beta chain precurs...
5	J06	LIVIEWEPPSPGTLVIGVISGIAVAV	HFE	Hereditary hemochromatosis protein pre...
5	J07	SSLFDKLLKKEPDALTLLAPAAGDTI	HIFA	Hypoxia-inducible factor 1 alpha (HIF...
5	J08	+	HIP1	Huntingtin interacting protein 1 (HIP...
5	J09	RLLEDEQFAVLRGAAEAAGILQDAV	HIPR	Huntingtin interacting protein 1 relat...
5	J10	PASQPTPIVIGIAGLVLLGSSVSG	HLAE	HLA class I histocompatibility antigen...
5	J11	YLTLNEDLRSWTAVDTAAQISEQKS	HLAE	HLA class I histocompatibility antigen...
5	J12	QSPQPTPIVIGIAGLVVAVVTVG	HLAF	HLA class I histocompatibility antigen...
5	J13	KQSSLPPTIPIMGIVAGLVVLAAVVT	HLAG	HLA class I histocompatibility antigen...
5	J14	EPSSQPTPIVIGIAGLVVAVVT	HLAH	HLA class I histocompatibility antigen...
5	J15	FAAYIFGLGLTIFIMHIFKHAQPAL	HM13	Minor histocompatibility antigen H13 (...)
5	J16	+	HM13	Minor histocompatibility antigen H13 (...)
5	J17	SMDIEQVITLSLALLAVKIYFFEQ	HMDH	3-hydroxy-3-methylglutaryl-coenzyme A...
5	K01	QNIMTLEESVQHVVMTAIQELMSKE	HOK1	Hook homolog 1 (h-hook1) (hHK1).
5	K02	+	HOK2	Hook homolog 2 (h-hook2) (hHK2).
5	K03	PSLDPTSTPVDNLAAEILPAELRET	HOK2	Hook homolog 2 (h-hook2) (hHK2).
5	K04	QRIMTLEESVQHVVMEAIQELMTKD	HOK2	Hook homolog 2.
5	K05	QAIMMEEESVQHVVMTAIQELMSKE	HOK3	Hook homolog 3.
5	K06	EELPALEDQLSTLLAPVIHSSMTML	HPS1	Hermansky-Pudlak syndrome 1 protein.
5	K07	+	HPS6	Hermansky-Pudlak syndrome 6 protein (R...
5	K08	+	HPS6	Hermansky-Pudlak syndrome 6 protein (R...
5	K09	LLSSGRPKAVLQAVGQLVQKEQWDR	HPS6	Hermansky-Pudlak syndrome 6 protein (R...
5	K10	KSNINPDEAVAYGAAVQAAAILGDKS	HS72	Heat shock-related 70 kDa protein 2 (H...
5	K11	KSNINPDEAVAYGAAVQAAAILSGDKS	HS7C	Heat shock cognate 71 kDa protein (Hea...
5	K12	+	HS9B	Heat shock protein HSP 90-beta (HSP 84...
5	K13	+	HSF1	Heat shock factor protein 1 (HSF 1) (H...
5	K14	+	HSF2	Heat shock factor protein 2 (HSF 2) (H...
5	K15	+	HUTU	Probable urocanate hydratase (EC 4.2.1...
5	K16	+	HXX3	Hexokinase type III (EC 2.7.1.1) (HK I...
5	K17	SDWLIFPFAALGSLFSLILVGLVLYL	I12R	Interleukin-12 receptor beta-1 chain p...
5	L01	TLHLGKMPYLSGAAAYNVAVISSNQF	I12R	Interleukin-12 receptor beta-1 chain p...
5	L02	+	I131	Interleukin-13 receptor alpha-1 chain...
5	L03	+	I28R	Interleukin-28 receptor alpha chain pr...
5	L04	IPANLSQNLEAAATQVAVSVPKRR	I4G1	Eukaryotic translation initiation fact...
5	L05	GLAIDTEERLKGVIDLIFEKAISEP	I4G1	Eukaryotic translation initiation fact...
5	L06	+	I4G3	Eukaryotic translation initiation fact...
5	L07	IFHKNVFHYLMAFLRELLKNSAKNH	I5P2	Type II inositol-1,4,5-trisphosphate 5...
5	L08	KARRARLNPLVLLDAALTGELEV	IASP	RelA-associated inhibitor (Inhibitor o...
5	L09	TNMAFSPFASIASLLTQVLLGAGENT	IC1	Plasma protease C1 inhibitor precursor...
5	L10	TVLETTETGV EAAAASAISVARTLL	IC1	Plasma protease C1 inhibitor precursor...
5	L11	RRARENLTVFSFLGPIVNLSEPTA	ICA3	Intercellular adhesion molecule-3 prec...
5	L12	+	ICA5	Intercellular adhesion molecule-5 prec...
5	L13	+	ICE9	Caspase-9 precursor (EC 3.4.22.-) (CAS...
5	L14	ALDDVTLPRKAFIPQLLSRLHIEA	IDE	Insulin-degrading enzyme (EC 3.4.24.56...
5	L15	VLGRESLDDLTNLVVKLFSEVENKN	IDE	Insulin-degrading enzyme (EC 3.4.24.56...
5	L16	+	IDS	Iduronate 2-sulfatase precursor (EC 3...
5	L17	KNSEATLPIAVRFAKTLLANSSPFN	IF	Intrinsic factor precursor (IF) (INF)...
5	M01	NETINVSVKSGSVLLVLEEAAQRKN	IF	Intrinsic factor precursor (IF) (INF)...
5	M02	EDKFTKSKTVYSILRHVAEVLEYTK	IF2A	Eukaryotic translation initiation fact...
5	M03	DSYERRNEGAARVIGTLLGTVDKHS	IF35	Eukaryotic translation initiation fact...
5	M04	+	IF35	Eukaryotic translation initiation fact...
5	M05	+	IF31	Eukaryotic translation initiation fact...
5	M06	+	IF3X	Putative eukaryotic translation initia...
5	M07	+	IFT2	Interferon-induced protein with tetrat...
5	M08	+	IFT2	Interferon-induced protein with tetrat...
5	M09	+	IFT3	Interferon-induced protein with tetrat...
5	M10	LDNHPEKQFSTVDLVKQAIELSPDNQ	IG1R	Insulin-like growth factor I receptor...
5	M11	RTGYNFIHLIALPVAVLLIVGGL	IG1R	Insulin-like growth factor I receptor...
5	M12	KFPKLTVITEYLLFRVAGLES LGD	IG1R	Insulin-like growth factor I receptor...
5	M13	+	IGB1	Immunoglobulin-binding protein 1 (CD79...
5	M14	APSPDPDVA SAEEALKYLLHLVDVNE	IKAP	IkappaB kinase complex-associated prot...
5	M15	ESAQDYEEAVLLLLEGA AWEALRL	IKAP	IkappaB kinase complex-associated prot...
5	M16	HSLKEGSPLEDLALLEALSEVVQNT	IKAP	IkappaB kinase complex-associated prot...
5	M16	QIQTVIDANIFPALISILQTAEFRT	IMA1	Importin alpha-1 subunit (Karyopherin...

Bl.	Pos.	Sequence	SP-ID	Description	
5	M17	KNPAPPIDAVEQILPTLVRLHHDD	IMA2	Importin alpha-2 subunit (Karyopherin...	
5	N01	NLLTAKDTKIILVILDAISNIFQAA	IMA2	Importin alpha-2 subunit (Karyopherin...	
5	N02	QIQQVVNHGLVPFLVSVLSKADFKT	IMA2	Importin alpha-2 subunit (Karyopherin...	
5	N03	+	QLVKLLGASELPVTPALRAIGNIV	IMA2	Importin alpha-2 subunit (Karyopherin...
5	N04	+	SSNVENQLQATQAARKLLSREKQPP	IMA2	Importin alpha-2 subunit (Karyopherin...
5	N05	+	PLLSHQEVKVVQTAALRAVGNIVTGT	IMA4	Importin alpha-4 subunit (Karyopherin...
5	N06		QIQAVIDANIFPVLEILQKAEFRT	IMA7	Importin alpha-7 subunit (Karyopherin...
5	N07		AGSGGVQEDALMAVSTLVEVLGGEF	IMB1	Importin beta-1 subunit (Karyopherin b...
5	N08		MLVQPRVEFILSFIDHIAGDEDHTD	IMB1	Importin beta-1 subunit (Karyopherin b...
5	N09	+	MRKEEPSNNVLAATNALNSLEFT	IMB1	Importin beta-1 subunit (Karyopherin b...
5	N10	+	PPEHTSKFYAKGALQYLVPILTQTL	IMB1	Importin beta-1 subunit (Karyopherin b...
5	N11		LIQKGTKLVLQVVTIASVADTAE	IMB3	Importin beta-3 (Karyopherin beta-3) (...)
5	N12	+	PPYDLFMPSLKHIVENAVQKELRLL	IMB3	Importin beta-3 (Karyopherin beta-3) (...)
5	N13	+	TAAEEARQMAAVLLRLLSSAFDEV	IMB3	Importin beta-3 (Karyopherin beta-3) (...)
5	N14		DGNQFQKAPASVLLHELIQQIFNLF	INA1	Interferon alpha-1/13 precursor (Inter...
5	N15		NSSIKGSLWIPVVAALLLFLVLSLV	INGR	Interferon-gamma receptor alpha chain...
5	N16		GLPALGFTGAGIAANSVAASLMSWS	INI2	Interferon-induced protein 6-16 precu...
5	N17	+	LIAYRSRKRLETFLSLLVQNLPAE	INPP	Inositol polyphosphate 1-phosphatase (...)
5	O01		VLLGATTLVLVAVAPWVLSAAAGGK	INR1	Interferon-alpha/beta receptor alpha c...
5	O02		AESAKIGGHTVFLIALVLTSTIVT	INR2	Interferon-alpha/beta receptor beta ch...
5	O03		GTGGRRGAAAAPLLVAVALLLGA	INSR	Insulin receptor precursor (EC 2.7.1.1...
5	O04	+	FVEPHKNMEVMGFLHGIFERLQKFL	IP11	Importin 11 (Imp11) (Ran-binding prote...
5	O05		GLITNFNEPINQIATQIAVLIQKVA	IP11	Importin 11 (Imp11) (Ran-binding prote...
5	O06		NVEDMNAALLIKDAVYNAVGLAAYEL	IP11	Importin 11 (Imp11) (Ran-binding prote...
5	O07		EWLADHPVMINSVPLVLHALGNPE	IP13	Importin 13 (Imp13) (Late gestation lu...
5	O08	+	LPVPQGNPVPVVVLQVQVFLIQKVL	IP13	Importin 13 (Imp13) (Late gestation lu...
5	O09		PSNKLAIHVHILGLLSNLFTTLDISH	IP13	Importin 13 (Imp13) (Ran-binding prote...
5	O10		DVLRKPSKEEPLFAARVIYDILLFF	IP3R	Inositol 1,4,5-trisphosphate receptor...
5	O11	+	NRERQKLMREQNILKQIFKLLQAPF	IP3R	Inositol 1,4,5-trisphosphate receptor...
5	O12		VRDLDFANDASKVLGSIAGKLEKGT	IP3R	Inositol 1,4,5-trisphosphate receptor...
5	O13		VTRNGRSILTAVLALILVYLFVSI	IP3R	Inositol 1,4,5-trisphosphate receptor...
5	O14		DVLRKPSKDEPLFAARVYDILLFF	IP3S	Inositol 1,4,5-trisphosphate receptor...
5	O15		LENGTITQNERRFVTKLLEDLIFV	IP3S	Inositol 1,4,5-trisphosphate receptor...
5	O16	+	NRERQKLMREQNILAQVFGILKAPF	IP3S	Inositol 1,4,5-trisphosphate receptor...
5	O17		VTRNGRSILTAVLALILVYLFVSI	IP3S	Inositol 1,4,5-trisphosphate receptor...
6	B01		AALFTKRYRSIRPLIVALILRSIYYL	IP3T	Inositol 1,4,5-trisphosphate receptor...
6	B02	+	EKRVDPTLEKYVLSVVLDTINAFF	IP3T	Inositol 1,4,5-trisphosphate receptor...
6	B03		FISQNDRRFVIQLLEDLVFFVSDVP	IP3T	Inositol 1,4,5-trisphosphate receptor...
6	B04		HVGYILTSVGLFAHELFYSILLFD	IP3T	Inositol 1,4,5-trisphosphate receptor...
6	B05	+	NRERQKLMREQNILKQVFGILKAPF	IP3T	Inositol 1,4,5-trisphosphate receptor...
6	B06		NTEFVEDYLNNVSEAVPFANEEK	IP3T	Inositol 1,4,5-trisphosphate receptor...
6	B07		VTRNGRSILLTALLALILVYLFVSI	IP3T	Inositol 1,4,5-trisphosphate receptor...
6	B08		VYDLLFFVIVIIIVNLIFGVIIDT	IP3T	Inositol 1,4,5-trisphosphate receptor...
6	B09	+	ETIQGLGAASAQFVSRLLPVLLSTA	IPO4	Importin 4 (Importin 4b) (Imp4b) (Ran...
6	B10		EYDAMLEHAGEAIPALAAAAGGDS	IPO4	Importin 4 (Importin 4b) (Imp4b) (Ran...
6	B11	+	HPAQEHFPKLLGLLPLLARERHDR	IPO4	Importin 4 (Importin 4b) (Imp4b) (Ran...
6	B12	+	LLRNPSSPRAKELAVSALGAIATAA	IPO4	Importin 4 (Importin 4b) (Imp4b) (Ran...
6	B13	+	LMASPTRKPEPQVLAALLHALPLEKE	IPO4	Importin 4 (Importin 4b) (Imp4b) (Ran...
6	B14		LMGETPKHFVAVQVVDMLALHLPPEK	IPO4	Importin 4 (Importin 4a) (Imp4a) (Ran...
6	B15	+	SKALLKNRLLPPLLHTLFPPIVAAEP	IPO4	Importin 4 (Importin 4b) (Imp4b) (Ran...
6	B16	+	YMQAVNRERERQVVMVLEALTGVL	IPO4	Importin 4 (Importin 4b) (Imp4b) (Ran...
6	B17	+	DQYRQKEYVAPRVLQAFNYLNQGV	IPO8	Importin 8 (Imp8) (Ran-binding protein...
6	C01		ENELNQSYYKIINFAPSLLRHIVSDH	IPO8	Importin 8 (Imp8) (Ran-binding protein...
6	C02		LELQNRPPAVDAVVGQIVPSILFLF	IPO8	Importin 8 (Imp8) (Ran-binding protein...
6	C03		EDDDTFSYTVRIAAQDLLAVATDF	IPO9	Importin 9 (Importin 9a) (Imp9a) (Impo...
6	C04		FLKYSNDPVASLAQDIFKELSQIE	IPO9	Importin 9 (Importin 9a) (Imp9a) (Impo...
6	C05	+	ILADLNLSVSPFLGRALWAASRFT	IPO9	Importin 9 (Imp9) (Ran-binding protein...
6	C06	+	LGFNLFVSIPEFVHALLNSKFKS	IPO9	Importin 9 (Importin 9a) (Imp9a) (Impo...
6	C07	+	PERWTNIPLLVKILKLIINELSNVM	IPO9	Importin 9 (Importin 9a) (Imp9a) (Impo...
6	C08	+	RTSEFTAAFVGRVLVSTLISKAGREL	IPO9	Importin 9 (Importin 9a) (Imp9a) (Impo...
6	C09		GGILANELSVDEAALHAAVIAINEA	IQG1	Ras GTPase-activating-like protein IQG...
6	C10	+	LYNYASNQREEYLLRLFKTALQEE	IQG1	Ras GTPase-activating-like protein IQG...
6	C11	+	NRGARGQNALRQILAPVVKIEMDDK	IQG1	Ras GTPase-activating-like protein IQG...
6	C12	+	YQDLLQLQYEGVAVMKLFDRAKVVV	IQG1	Ras GTPase-activating-like protein IQG...
6	C13	+	LYNYASNQREEYLLRLFKTALQEE	IQG2	Ras GTPase-activating-like protein IQG...
6	C14	+	NRGARGQNTLRQLLAPVVKIEMDDK	IQG2	Ras GTPase-activating-like protein IQG...
6	C15	+	WSPRKLPSASTFLSPAFPGSQTHS	IRA1	Interleukin-1 receptor-associated kina...
6	C16		PPAVPSPEELTYLIEALFKTEVLP	IRBP	Interphotoreceptor retinoid-binding pr...
6	C17	+	WLGFGVVPDAIVLAEALDKAQEVL	IRBP	Interphotoreceptor retinoid-binding pr...
6	D01	+	GKPLERKLLVQVIVPVVARMIMYEMF	IRF6	Interferon regulatory factor 6 (IRF-6)...
6	D02		VDLQWRLSLLFFVVLAYALTWLFPGA	IRK9	G protein-activated inward rectifier p...
6	D03	+	WRYMLLIFSLAFLASWLLFGIIFWV	IRKC	ATP-sensitive inward rectifier potassi...
6	D04	+	WRWMLLVFSASFVHVWLVFAVLWYV	IRKD	Inward rectifier potassium channel 13...
6	D05	+	ALVIFEMPHLRDVALPALGAVLRGA	IRR	Insulin receptor-related protein precu...
6	D06		AFGQVVQLWSQSIADVAIEASFTE	ITA2	Integrin alpha-2 precursor (Platelet m...
6	D07		KAEPVTGVIIGSIIAGILLLALVA	ITA2	Integrin alpha-2 precursor (Platelet m...
6	D08		KRYFTVIIVSSLLGLVILLISY	ITA4	Integrin alpha-4 precursor (Integrin a...

Bl.	Pos.	Sequence	SP-ID	Description
6	D09	KAEGSYGVPLWIIILAILFGLLLG	ITA5	Integrin alpha-5 precursor (Fibronecti...
6	D10	DNLAPITAKAKVVIELLSVSGVAK	ITA6	Integrin alpha-6 precursor (VLA-6) (CD...
6	D11	YSGVPPWWIILVAILAGILMLLALVF	ITA6	Integrin alpha-6 precursor (VLA-6) (CD...
6	D12	AEGVPVWVILLAVLAGLLVLALVLV	ITA7	Integrin alpha-7 (H36-alpha7).
6	D13	TPNVFSFSLPWVILAILLGLLVLA	ITA8	Integrin alpha-8 precursor.
6	D14	HYVAHVKRRVQDVISPIVFEAAYS	ITA9	Integrin alpha-9 precursor (Integrin a...
6	D15	VEIAHGNPEEVTVVFEALHNLEPRG	ITA9	Integrin alpha-9 precursor (Integrin a...
6	D16	+ VGWIAISLVLGILIFLLAVLLWK	ITA9	Integrin alpha-9 precursor (Integrin a...
6	D17	RALEERAPIWVWLVGVGGLLLLT	ITAB	Integrin alpha-Iib precursor (Platelet...
6	E01	APIIMGSSVGALLLLALITATLYK	ITAD	Integrin alpha-D precursor (Leukointeg...
6	E02	SLPIIKGSSVGGLLVLIVILVILFK	ITAE	Integrin alpha-E precursor (Mucosal ly...
6	E03	+ SNSIYPWSEVQTFRRRLVGLFDIP	ITAG	Integrin alpha-10 precursor.
6	E04	VQTRPILISLWILIGSVLGGLLLA	ITAG	Integrin alpha-10 precursor.
6	E05	+ PIWIVGSTLGLLLLALLVLALWK	ITAH	Integrin alpha-11 precursor.
6	E06	LLLTNTFGAINYVATEVFREELGAR	ITAL	Integrin alpha-L precursor (Leukocyte...
6	E07	IQPAMPVPVWVILAVLAGLLLA	ITAV	Integrin alpha-V precursor (Vitronecti...
6	E08	PTPLIVGSSIGLLLLALITAVLYK	ITAX	Integrin alpha-X precursor (Leukocyte...
6	E09	+ QGFTYTATAIQNVVHRLFHASYGAR	ITAX	Integrin alpha-X precursor (Leukocyte...
6	E10	+ ARPRFRPLWTVLALGALAGVGVGG	ITB3	Integrin beta-3 precursor (Platelet me...
6	E11	+ LVVLLSVMGAILLIGLAALLIWKLL	ITB3	Integrin beta-3 precursor (Platelet me...
6	E12	+ MAGPRPSPWARLLLAALISVLSGT	ITB4	Integrin beta-4 precursor (GP150) (CD1...
6	E13	RVWSHQTLKSDVLLGTAALDIYETL	ITCH	Itchy homolog E3 ubiquitin protein lig...
6	E14	FNIDEAPGTVLRLIQDAVTLGTLVNG	ITH3	Inter-alpha-trypsin inhibitor heavy ch...
6	E15	+ AARQRQEIAAARAADALLKAVAASS	JPH4	Junctophilin 4 (Junctophilin-like 1 pr...
6	E16	TERPAQPGAANPLVVGAVALLDLSL	JPH4	Junctophilin 4 (Junctophilin-like 1 pr...
6	E17	KPAKPFDEKEMQVVPVLVHLLSAIS	K052	Protein KIAA0052 (Fragment).
6	F01	LKETIEILFSEGLIKALFATETFAM	K052	Protein KIAA0052 (Fragment).
6	F02	+ LSTLRYADRAKRIVNHAVVNEDPNA	K13A	Kinesin-like protein KIF13A.
6	F03	+ SNINKSLTTLGLVSSLADQAAGKG	K13A	Kinesin-like protein KIF13A.
6	F04	+ LSTLRYADRAKHVNNAVVNEDPNA	K13B	Kinesin-like protein KIF13B (Kinesin-l...
6	F05	+ QENLSLIGVANVFLESFYDVKLQY	K13B	Kinesin-like protein KIF13B (Kinesin-l...
6	F06	SNINESLTTGLVISALADQSAGKN	K13B	Kinesin-like protein KIF13B (Kinesin-l...
6	F07	LHYAVPVVLAGFLITNALRFIFSAP	K195	Protein KIAA0195.
6	F08	LLSAQKLTAAALIVLHTVFISITHVH	K195	Protein KIAA0195.
6	F09	TLLQLQVNGVLPILPLFPVLWVLA	K195	Protein KIAA0195.
6	F10	+ STSFRGGMGSGGLATGIAGGLAGMG	K1CR	Keratin, type I cytoskeletal 18 (Cytok...
6	F11	+ GFDVNIVEEELGHSRAVKHLFKSI	K21A	Kinesin family member 21A (Kinesin-lik...
6	F12	PTLSIVASTASSVALILLVLFVL	K247	Protein KIAA0247 precursor.
6	F13	HLHLIGTTSVVIIFILLFFLLHRW	K2L1	Killer cell immunoglobulin-like recept...
6	F14	FYEPSILPRLGFAVSLLLGLAEQEK	K406	Protein KIAA0406.
6	F15	+ HQSVVYRKQAAMILNELVTGAAGLE	K406	Protein KIAA0406.
6	F16	+ SLVHRLTRDAPLAVLRAFVKVRLTLG	K406	Protein KIAA0406.
6	F17	VMLRNSDANLLPLVADVVDVLAATL	K406	Protein KIAA0406.
6	G01	+ YLSVKQPVKLQEAARSVFLHLMKVVD	K406	Protein KIAA0406.
6	G02	+ KNVMEFLAPLKPVAIRIVRNAHGNK	K682	Probable RNA-binding protein KIAA0682.
6	G03	APAVAVPEATVAITTAASKAGPAI	K685	Protein KIAA0685.
6	G04	+ KMRRGNMGLHTRIANAVVNLERGP	K685	Protein KIAA0685.
6	G05	+ RQDVLHWWLNEEKVIQRLVELIHPSQ	K685	Protein KIAA0685.
6	G06	+ EELVSPWVKVLKVVAKVIRALLRIL	K830	Probable endonuclease KIAA0830 precurs...
6	G07	+ GFIAFPFKLFQLIYYLVVALKNI	K830	Probable endonuclease KIAA0830 precurs...
6	G08	LSLFDLQTSSYQALQRVLVSLGHHD	KA43	TPR repeat containing protein KIAA1043...
6	G09	+ TEILQHPERARDALRVLLHLVEKSL	KA43	TPR repeat containing protein KIAA1043...
6	G10	KAEEERKAAEERLAREAAEEAEREH	KAD7	Putative adenylate kinase 7 (EC 2.7.4.
6	G11	KYYKLHHIQLKDVISEAIAKLEAIV	KAD7	Putative adenylate kinase 7 (EC 2.7.4.
6	G12	VIPTIHVLDLAGVIQNVIDHVPKPH	KAD7	Putative adenylate kinase 7 (EC 2.7.4.
6	G13	+ RQDVNWLNEEKVIQRLIEQHPSK	KB15	Protein KIAA1115.
6	G14	+ ALHLATEMEELGLVTHLVTKLRANV	KBF2	Nuclear factor NF-kappa-B p100/p49 sub...
6	G15	APPTVQGGIAENLAELKIGVLFVW	KC19	Protein KIAA1219 homolog.
6	G16	ITFSLKLRVLNIGALQTTETDPN	KC19	Protein KIAA1219 homolog.
6	G17	+ NSQWRQDMSISLALELLSGLAKVK	KC19	Protein KIAA1219 homolog.
6	H01	FTLRRSYNELGLLFLAMGIMIFS	KCB2	Potassium voltage-gated channel subfam...
6	H02	LWDLLEKPNSSVAAKILAVSILFI	KCB2	Potassium voltage-gated channel subfam...
6	H03	MNLKDAFARSMELIDVAVEKAGESA	KCB2	Potassium voltage-gated channel subfam...
6	H04	+ EKGFTYTERDASRLIFQVLDVAVKYLH	KCC1	Calcium/calmodulin-dependent protein k...
6	H05	+ EKGYYSERDAADAVKQILEAVAYLH	KCC4	Calcium/calmodulin-dependent protein k...
6	H06	+ LQEFNARRKLKAAVAVASSRLGS	KCC4	Calcium/calmodulin-dependent protein k...
6	H07	+ YALKRSFKELGLLMLYAVGIFVFS	KCF1	Potassium voltage-gated channel subfam...
6	H08	RSTPGQVVALSSILSGILLMAFPVT	KCG1	Potassium voltage-gated channel subfam...
6	H09	RSVPGQMVALSSILSGILLMAFPAT	KCG4	Potassium voltage-gated channel subfam...
6	H10	AAKAIGVASSTFVLVSVVALALNTV	KCV2	Potassium voltage-gated channel subfam...
6	H11	+ LLRLASTPDLRRFARSALNLDLVA	KCV2	Potassium voltage-gated channel subfam...
6	H12	TLELASRSPSGGAAGPLTPSQSLD	KD12	Potassium channel tetramerisation doma...
6	H13	+ STYFDMNLFDLIILKTVLENSGKRR	KE34	Protein KIAA1434.
6	H14	ASPLQSLLEVLGLLGGVIMVIAIH	KE4	Zinc transporter SLC39A7 (Solute carri...
6	H15	LGATVLISAAPFVFLIPVESNSP	KE4	Zinc transporter SLC39A7 (Solute carri...
6	H16	LLQILLSFASGQLLDGDAFLHLIPHA	KE4	Zinc transporter SLC39A7 (Solute carri...
6	H17	+ RGGVVRQYWSSFLVDLLAVAAPVV	KE72	Protein KIAA1472.

Bl.	Pos.	Sequence	SP-ID	Description
6	I01	LKEQSLAAESKTVLQELINVLKTDL	KF11	Kinesin-like protein KIF11 (Kinesin-re...
6	I02	+ SALESTEKHLHDAASKLLNTVEETT	KF11	Kinesin-like protein KIF11 (Kinesin-re...
6	I03	AADDFPPRPEVDLASEVALEVVRTA	KF17	Kinesin-like protein KIF17 (KIF3-relat...
6	I04	VAIVSEKGEVKGFLRVAVQAIAADE	KF1A	Kinesin-like protein KIF1A (Axonal tra...
6	I05	VAIVSEKGEVRGFLRVAVQAIAADE	KF1B	Kinesin-like protein KIF1B.
6	I06	VGRIRNKPEVDEAAVDAILSLNIIS	KF1B	Kinesin-like protein KIF1B (Klp).
6	I07	+ QENEPTVGVIPRVIQLLFKEIDKKS	KF4A	Chromosome-associated kinesin KIF4A (C...
6	I08	+ ELSNHQKKRATEILNLLKDLGEIG	KF5C	Kinesin heavy chain isoform 5C (Kinesi...
6	I09	LDEAKNINKSLSALGNVISALAEGT	KINN	Neuronal kinesin heavy chain (NKHC) (K...
6	I10	MEGKLDHPQLMGHPIRIAHDFDHI	KF5C	Kinesin heavy chain isoform 5C (Kinesi...
6	I11	+ EATAFGLGKEDAVLKAVKMLKSTA	KFMS	Macrophage colony stimulating factor I...
6	I12	+ KDKLKPAAEDDLVLEVVMIGTVS	KFP3	Kinesin-associated protein 3 (KAP3).
6	I13	QGLVVKQEQLLRVALYLLNLAEDT	KFP3	Kinesin-associated protein 3 (KAP3).
6	I14	RYTVFQTTGSVPVIATVIINEASGSR	KHK	Ketohexokinase (EC 2.7.1.3) (Hepatic f...
6	I15	LLNKANTYAEQHFADVLLSEEFNLN	KHL2	Kelch-like protein 2.
6	I16	ASDDMNIPNEETILNALLTWVRHDL	KHL5	Kelch-like protein 5.
6	I17	LDEAKNINKSLSALGNVISALAEGS	KINH	Kinesin heavy chain (Ubiquitous kinesi...
6	J01	LHDEPEGMGHPRIVQDIFNYIYSMD	KINH	Kinesin heavy chain (Ubiquitous kinesi...
6	J02	+ MEGKLDHPQLMGHPIRIARDIFNHI	KINN	Neuronal kinesin heavy chain (NKHC) (K...
6	J03	+ SSAIDHIFASKAVVNAIIPAYHLR	KIST	Serine/threonine-protein kinase Kist (...)
6	J04	TAGNPWGWFGLGYLILGVAGSLVSGS	KLK4	Kallikrein 4 precursor (EC 3.4.21.-) (...)
6	J05	DGVSFHPSSEFLFQLPVAATENHGE	KLTK	Leukocyte tyrosine kinase receptor pre...
6	J06	TLRASTNEFLLLIIFLALGVLIAT	KNC1	Potassium voltage-gated channel subfam...
6	J07	+ YLEVGLSGLSSKAAKDVLFGLRVVR	KNC1	Potassium voltage-gated channel subfam...
6	J08	VWALFEDPYSSRAARYVAFASLFFI	KNC3	Potassium voltage-gated channel subfam...
6	J09	DGIVLESQMVLVPVYELISSLVPLA	KNTC	Kinetochores-associated protein 1 (Roug...
6	J10	DVELVYKVKSNHILEKLALSSVDAS	KNTC	Kinetochores-associated protein 1 (Roug...
6	J11	KMHAMNTNITELVNYLANDSLDE	KNTC	Kinetochores-associated protein 1 (Roug...
6	J12	LLSIVNPEWAVAIASLAQDIPEGS	KNTC	Kinetochores-associated protein 1 (Roug...
6	J13	GLHIIHSLDEVNFIQNLVVFYIEAAY	KPB1	Phosphorylase b kinase alpha regulator...
6	J14	PEYRQLLVEAILVLTMLADIEIHSI	KPB1	Phosphorylase b kinase alpha regulator...
6	J15	GLRIIFTLDEVAFIQNLVVFYIEAAY	KPB2	Phosphorylase b kinase alpha regulator...
6	J16	LKAAASDIQEGDLIEVVLSRSATFE	KPCM	Protein kinase C, mu type (EC 2.7.1.-)...
6	J17	LVRSSGDIQEGDLIEVVLSASATFE	KPCO	Protein kinase C, D2 type (EC 2.7.1.-)...
6	K01	LVGDDFWIPETSFILTHIVGIFLVV	KROS	Proto-oncogene tyrosine-protein kinase...
6	K02	QQVEAVELEAKEVLLKFLPKVSVPS	KTN1	Kinectin (Kinesin receptor) (CG-1 anti...
6	K03	VFAARDDEAAVALSLLIHALDDLD	KU86	ATP-dependent DNA helicase II, 80 kDa...
6	K04	TTATPGVPGPLPSLAPSLAAALEGP	LAP4	LAP4 protein (Scribble homolog protei...
6	K05	ATRVQDIFTAGKLLALALIIIMGIV	LAT2	Large neutral amino acids transporter...
6	K06	PIKINLLFPHYLLFWAFLLVFLSLW	LAT2	Large neutral amino acids transporter...
6	K07	+ LEKLGMYMDLASRLVTRVFKLLQNQI	LCAP	Leucyl-cystinyl aminopeptidase (EC 3.4...
6	K08	GPPGSPWQVWVTLGLLLPPAAPFW	LCAT	Phosphatidylcholine-sterol acyltransfe...
6	K09	+ EAPAYHLILEGILILWIIRLLFSKT	LCB1	Serine palmitoyltransferase 1 (EC 2.3...
6	K10	+ KTPSGIKLTINKLLDMAAQIAEGMA	LCK	Proto-oncogene tyrosine-protein kinase...
6	K11	+ ARGVYQDPFAALLVPGAARRAPLIH	LCM2	Leucine carboxyl methyltransferase 2 (...)
6	K12	+ DSLYFRLKTAGRLARA AVWEVDFPD	LCM2	Leucine carboxyl methyltransferase 2 (...)
6	K13	GRGNEKKPSSVRALSIVLPIVLLVF	LDLR	Low-density lipoprotein receptor precu...
6	K14	SANRLTGSVDNLLAENLLSPEDMVL	LDLR	Low-density lipoprotein receptor precu...
6	K15	QDRRIVLKSLEFLAHLALTI FIEDR	LDVR	Very low-density lipoprotein receptor...
6	K16	VSVPPKGTSAAWAILP LLLVMAAV	LDVR	Very low-density lipoprotein receptor...
6	K17	IEKHQSDAGLYVIVPVIHSSILLL	LEPR	Leptin receptor precursor (LEP-R) (OB...
6	L01	NPDENSRGMLPVAVLVALLAVIVLV	LEUK	Leukosialin precursor (Leukocyte sialo...
6	L02	DARHLIEKSVRKIVSLLAASEAEVE	LGMN	Legumain precursor (EC 3.4.22.34) (Asp...
6	L03	GFLAVFSSSEAIFFLLMLATVERSLS	LGR4	Leucine-rich repeat-containing G prote...
6	L04	GFLSIFASESSVFLTLAALERGF	LGR5	Leucine-rich repeat-containing G prote...
6	L05	+ PLPSLRFLEELRLAGNALTYPKGA	LGR5	Leucine-rich repeat-containing G prote...
6	L06	SSLINLTFISPEVIKIFILLVVPPLP	LGR5	Leucine-rich repeat-containing G prote...
6	L07	AHREIYQGRINELLSVITWVGIVI	LHN1	Latrophilin 1 precursor (Calcium-indep...
6	L08	HVEVKHSDAVHDLDDVITWVGILL	LHN3	Latrophilin 3 (Lectomedin-3) (Fragment...
6	L09	DPQSGLGRHLGVVIGILVAVILLLL	LIB1	Leukocyte immunoglobulin-like receptor...
6	L10	RYLEVLIIGVSVAFVLLFLFLFLLL	LIB3	Leukocyte immunoglobulin-like receptor...
6	L11	GLRRHWEVLI GVLVVSILLLSLLLF	LIB4	Leukocyte immunoglobulin-like receptor...
6	L12	SMYVVTKENSGLIHA IILPVAVAV	LIFR	Leukemia inhibitory factor receptor pr...
6	L13	FGEPTSNITLLSIVHNIPEINAQA	LIG2	Leucine-rich repeats and immunoglobuli...
6	L14	AGVREQALGLEPALGRLLGV AHLFD	LIPS	Hormone sensitive lipase (EC 3.1.1.-)...
6	L15	+ FWKAFWNITEMEVLSSLANMASATV	LIPS	Hormone sensitive lipase (EC 3.1.1.-)...
6	L16	NLVSVLTAEGAFVASLIKESGTDD	LITA	Lithostathine 1 alpha precursor (Pancr...
6	L17	NLVSVLTAEGAFVASLIKESSTDD	LITB	Lithostathine 1 beta precursor (Regene...
6	M01	SHVLSKHNNELKAAEALVREAEAKM	LMA1	Laminin alpha-1 chain precursor (Lamin...
6	M02	TQLHQATLLELKAAEDLLSQIQENY	LMA1	Laminin alpha-1 chain precursor (Lamin...
6	M03	+ VTITLDRQVVFQVAVYVIAKANAPR	LMA1	Laminin alpha-1 chain precursor (Lamin...
6	M04	+ ERTNTRAKSLGEFIKELARDAEAVN	LMA2	Laminin alpha-2 chain precursor (Lamin...
6	M05	+ ETQKIEAEDDELVAEALLKVKKLF	LMA2	Laminin alpha-2 chain precursor (Lamin...
6	M06	+ QSQAHQQRGLFPAVLNLSNALITT	LMA2	Laminin alpha-2 chain precursor (Lamin...
6	M07	VTITLDRQVVFQIAYVIVKAANSR	LMA2	Laminin alpha-2 chain precursor (Lamin...
6	M08	DDYNAKLSDLQEALDQALNYVRDAE	LMA4	Laminin alpha-4 chain precursor.
6	M09	+ NSARDAVRNLTVEVVPQLLDQLRTVE	LMA4	Laminin alpha-4 chain precursor.

Bl.	Pos.	Sequence	SP-ID	Description	
6	M10	+	VKLSNLSNLSHDLVQEAIHDAQDLQ	LMA4	Laminin alpha-4 chain precursor.
6	M11		KEALEEAQVAAEKAQKQADEDI	LMB1	Laminin beta-1 chain precursor (Lamini...
6	M12		RYSDIEPSTEGEVIFRALDPAFKIE	LMB1	Laminin beta-1 chain precursor (Lamini...
6	M13	+	GQPLPWELRLGLLSVAATLAQAP	LMB2	Laminin beta-2 chain precursor (S-lami...
6	M14		QAALQEAQRAQGLAQGAIRGAVADT	LMB2	Laminin beta-2 chain precursor (S-lami...
6	M15		RYSEIEPSTEGEVIVRVLDPPIPI	LMB2	Laminin beta-2 chain precursor (S-lami...
6	M16		RKAKNSVTSLSIINDLLEQLGQLD	LMG1	Laminin gamma-1 chain precursor (Lamin...
6	M17		TEANEKTREAQQALGSAADATEAK	LMG1	Laminin gamma-1 chain precursor (Lamin...
6	N01		SDASDKTQQAERALGSAADAAQRAK	LMG2	Laminin gamma-2 chain precursor (Kalin...
6	N02		TELEGRMQQAEEQALQDILRDAQISE	LMG2	Laminin gamma-2 chain precursor (Kalin...
6	N03		DLEAVLESSEEEILHAAAILASLEI	LMG3	Laminin gamma-3 chain precursor (Lamin...
6	N04		QRDLEDYQEVQAAQKALRTAVAEV	LMG3	Laminin gamma-3 chain precursor (Lamin...
6	N05		LGISVGGNETPLINIVIQEVYRDG	LN2	Ligand of Numb-protein X 2 (Numb-bindin...
6	N06		FLEDKRVDFEVSALAKGLADLAIKDS	LOX1	Arachidonate 15-lipoxygenase (EC 1.13.
6	N07		RKAETLPEVEAEALQVAALSKAE	LPA1	Liprin-alpha 1 (Protein tyrosine phosph...
6	N08	+	ALDEKVRERLRMALERVALEEELE	LPA3	Liprin-alpha 3 (Protein tyrosine phosph...
6	N09		ISNQYIELDINPIVKSVDIIFP	LPC3	Long palate, lung and nasal epithelium...
6	N10		SDVPLTTTDLAALLPEALGKPLHQ	LPC3	Long palate, lung and nasal epithelium...
6	N11	+	DNTKSQLAMSNFLGSLVTLKQKH	LPC4	Long palate, lung and nasal epithelium...
6	N12	+	LLGGIKVKLLRGLLPNLVDNLVNRV	LPC4	Long palate, lung and nasal epithelium...
6	N13		LGLMLGTTEAQTALYVFLSLVLLGV	LPH	Lactase-phlorizin hydrolase precursor...
6	N14	+	KGNKSSYHRLSELVEHVFPPLSKEQ	LPN2	Lipin 2.
6	N15	+	KNHKSTYERLGEVVPELLFPVARGP	LPN3	Lipin 3 (Lipin 3-like) (Fragments).
6	N16	+	TVLDQQQTTPSRLAVTRVIQALAMKG	LPRC	130 kDa leucine-rich protein (LRP 130)...
6	N17	+	PGPLPSPLEPSSLLSGVVQALGRGL	LR10	Low-density lipoprotein receptor-relat...
6	O01		GGGGEHPAPETGAVLPLALGLAITA	LR11	Low-density lipoprotein receptor-relat...
6	O02		SVWGMTQAQSGLAIAAIVIGIVALA	LR15	Leucine-rich repeat-containing protein...
6	O03		NSEHEPLGKSWAFLVGVVTVLTTTS	LR19	Leucine-rich repeat-containing protein...
6	O04		IITNGLGRVEGIAVDWIAAGNIYWTD	LR1B	Low-density lipoprotein receptor-relat...
6	O05		SKSDHISTRSAIIVPLVLLVTLIT	LR1B	Low-density lipoprotein receptor-relat...
6	O06	+	SKTEQPAALADLVNKLVDVLYL	LR1B	Low-density lipoprotein receptor-relat...
6	O07	+	AAKYRDHVTATQLIKIINILTDKH	LRBA	Lipopolysaccharide-responsive and beig...
6	O08		FHYGTHYSTASFVLAWLLRIEFPFTT	LRBA	Lipopolysaccharide-responsive and beig...
6	O09		PTQGLSIEASVTFQLRLISLVDVLI	LRBA	Lipopolysaccharide-responsive and beig...
6	O10		TRNADDLEVVSSDIEAIAISSNSFI	LRBA	Lipopolysaccharide-responsive and beig...
6	O11	+	VSNMSITERLEHALEKAAPLREIF	LRBA	Lipopolysaccharide-responsive and beig...
6	O12		VIQYGLATPEGLAVDWIAAGNIYWVE	LRP1	Low-density lipoprotein receptor-relat...
6	O13		VVTNIGIRVEGIAVDWIAAGNIYWTD	LRP1	Low-density lipoprotein receptor-relat...
6	O14		SKGISPGTTAVAVLLTILLIVVIGA	LRP2	Low-density lipoprotein receptor-relat...
6	O15		PAAPGEGLHISYAIGGLSILLILV	LRP4	Low-density lipoprotein receptor-relat...
6	O16		GAVSPQTSQAGVAVMAVAVSVGLLL	LU	Lutheran blood group glycoprotein prec...
6	O17		PDAPAQARGAPRLLLLAVLLAHPD	LU	Lutheran blood group glycoprotein prec...
7	B01	+	LSLLLVTSVTLVARVFKAVDQS	LYII	Lysosome membrane protein II (LIMP II)...
7	B02	+	DHLSQSKVIETQLAKPLFDALLRVA	LYST	Lysosomal trafficking regulator (Beige...
7	B03		GAKLNIEGELPAAVGLLVQFAFRET	LYST	Lysosomal trafficking regulator (Beige...
7	B04	+	SQAELVQKGSSELVALRVALREARAT	LZT2	Leucine zipper putative tumor suppress...
7	B05	+	SRHHHGSSIAGGLVKGALSVAASAY	M172	Membrane component, chromosome 17, sur...
7	B06	+	GMAAGLYSELTLLVSLVNRALKSS	M18A	Myosin XVIII (Myosin 18A) (Myosin con...
7	B07		LFGNKIGATIVDALDTLFIEMEMKHE	M1A1	Mannosyl-oligosaccharide 1,2-alpha-man...
7	B08		ELESVSHLEDFARTLVPRVLLIL	M2BP	MAD2L1 binding protein (Caught by MAD2...
7	B09		MFVPTLAEEKSILQLLNAAGKD	M3K4	Mitogen-activated protein kinase kinas...
7	B10		NDQDFFLYTARQAIPDIINEILTFK	M3K4	Mitogen-activated protein kinase kinas...
7	B11		KLQVLGAIQILNAAMILALGVFLGS	M4A3	Membrane-spanning 4-domains subfamily...
7	B12		TSVSLTGVLVVMILFTVLELLLAAY	M4A7	Membrane-spanning 4-domains subfamily...
7	B13		FKYVIYGIAAAFFVYGILLMVEGFF	M6A	Neuronal membrane glycoprotein M6-a (M...
7	B14		MQYVIYGIASFFFLYGILLAEFGFY	M6B	Neuronal membrane glycoprotein M6-b (M...
7	B15		GNLQPWMQGLIAVAVFLVVAIAFA	MA17	17 kDa membrane associated protein (DD...
7	B16		SVATPRNAAENGAIQNLKIEEAFGL	MABC	Mannose-binding protein C precursor (M...
7	B17		DEAVSNDLVAAKIALVILELSWSFM	MAC4	Microtubule-actin crosslinking factor...
7	C01		EETRVAQKELEEAVTSALQVTEKS	MACF	Microtubule-actin crosslinking factor...
7	C02		LNDATAAEEAEALQVWVVGTEVEII	MACF	Microtubule-actin crosslinking factor...
7	C03		LNEVEKRRSLEILNSAADILINSS	MACF	Microtubule-actin crosslinking factor...
7	C04		SNARLFGEDVEEVLNWLAEVEDKLS	MACF	Microtubule-actin crosslinking factor...
7	C05		TWAKHQQRLETALSELVANAELLE	MACF	Microtubule-actin crosslinking factor...
7	C06		DQLPAALWTSsavLGLLLALPTYH	MACA	Mucosal addressin cell adhesion molecu...
7	C07		DPVAARQGGQETAVAPSLVAPALNKP	MAE1	Microtubule-associated protein RP/EB F...
7	C08		PDPILTIFKEKQILSTVIESELQL	MAG	Myelin-associated glycoprotein precurs...
7	C09		LGDNQIMPAGLLIIVLAIHAREGD	MAG3	Melanoma-associated antigen 3 (MAGE-3)...
7	C10	+	AVVFSYIATLLYVHAVFSLIRWKS	MAL	Myelin and lymphocyte protein (T-lymph...
7	C11		TRKMDPSKSPSSNVAGVVIHILLIL	MANR	Macrophage mannose receptor precursor...
7	C12	+	PPLNTIRDVSLKIAEKIVKDAYQEK	MAOX	NADP-dependent malic enzyme (EC 1.1.1.
7	C13		SDQTLFQGAGEAALGIAHLIVMAL	MAOX	NADP-dependent malic enzyme (EC 1.1.1.
7	C14	+	TFNDDIQGTASVAVAGLLAALRITK	MAOX	NADP-dependent malic enzyme (EC 1.1.1.
7	C15	+	RRKTTAAGGESALAPSVFKQAKDKV	MAP2	Microtubule-associated protein 2 (MAP...
7	C16	+	KGKIKVIKKEGKAAEAVAAVGTGA	MAPB	Microtubule-associated protein 1B (MAP...
7	C17		VVEATEPEPSGSIANPAASTSPSLS	MAPB	Microtubule-associated protein 1B (MAP...
7	D01	+	FHPAVRNSSEVKFAVQAFALNSNN	MC3A	80 kDa MCM3-associated protein (GANP p...

Bl.	Pos.	Sequence	SP-ID	Description
7	D02	PVPMYSDDELQAVVDELIQEALQRD	MC3A	80 kda MCM3-associated protein (GANP p...
7	D03	+ RRLGGLASQEPGAIIEFNSVLQFL	MC3A	80 kda MCM3-associated protein (GANP p...
7	D04	KPEVFLSLGIVSLLLENLIVLAVVR	MC3R	Melanocortin-3 receptor (MC3-R).
7	D05	+ PPAARAGGSPTAVRSILTERRPE	MCDL	Mucin and cadherin-like protein precu...
7	D06	+ RFSVVDMAALGGVVGALLLALLGL	MCDL	Mucin and cadherin-like protein precu...
7	D07	+ RGTVARGAGAGVVVKDAAAPSQPLR	MCDL	Mucin and cadherin-like protein precu...
7	D08	+ AAFMKKYIHVAKHKPVLTQESATY	MCM3	DNA replication licensing factor MCM3...
7	D09	+ DLRRKNEKRANRLNNAFELVAFQ	MCM3	DNA replication licensing factor MCM3...
7	D10	+ PFPWRFPGLLLAAMVLLLYSFSDA	MCP	Membrane cofactor protein precursor (C...
7	D11	VKPLLEKNDVEKVVVVLDKEHRPV	MD22	Mitotic spindle assembly checkpoint pr...
7	D12	+ DVSTLHVQKIISAISELLERLKSYG	MDN1	Midasin (MIDAS-containing protein).
7	D13	IQNLNRLRETLLAQPAAGQATIFE	MDN1	Midasin (MIDAS-containing protein).
7	D14	+ LATHRSTAKLLSVAQVFTLAQKGG	MDN1	Midasin (MIDAS-containing protein).
7	D15	NHTKQLAFESLAVIGNALTLEVGQ	MDN1	Midasin (MIDAS-containing protein).
7	D16	+ SLRNFYSHSLGAVSNVFKILQPNT	MDN1	Midasin (MIDAS-containing protein).
7	D17	TVVGSPTSSVSTLIQTAILVQYLLQ	MDN1	Midasin (MIDAS-containing protein).
7	E01	VEVNTYWIPEPDVLMVAVKLLIERA	MDN1	Midasin (MIDAS-containing protein).
7	E02	+ VTSIAKAPAVQDLLTRLLQALHIDG	MDN1	Midasin (MIDAS-containing protein).
7	E03	+ QQLKQQLKEAEQILATAVYQAKEKL	MED4	Mediator of RNA polymerase II transcri...
7	E04	EIYKEFFEVEDVIPNLLKEAASLL	MEN1	Menin.
7	E05	LFSQGAFGYVLPPIISFILAWIETWF	MENT	MLN64 N-terminal domain homolog (STARD...
7	E06	+ RLRHWAIALTTAVTSAFLLAKVIL	MENT	MLN64 N-terminal domain homolog (STARD...
7	E07	NLSWFLFLDALLVISGLATPENFDV	MEPB	Meprin A beta-subunit precursor (EC 3.
7	E08	TRDTIVIAVSSTVAVFALMLIITLV	MEPB	Meprin A beta-subunit precursor (EC 3.
7	E09	+ MNMAKTSQTVATFLDELAQKLPKLG	MEPD	Thimet oligopeptidase (EC 3.4.24.15) (...)
7	E10	EKAQITEEAKLLAQKAAEAQEQEMQ	MERL	Merlin (Schwannomin) (Neurofibromin 2)...
7	E11	DLLDHVPPEVSDVVMLIFVLSAVHP	MET5	Methyltransferase-like protein 5 (EC 2...
7	E12	SIQDDIHLAEAAVPAEPIATFFY	METH	Methionine synthase (EC 2.1.1.13) (5-m...
7	E13	+ KDYTKVDRSAAYAARWVAKSLVKGG	METK	S-adenosylmethionine synthetase gamma...
7	E14	+ KDYTKVDRSAAYAARWVAKSLVKAG	METL	S-adenosylmethionine synthetase alpha...
7	E15	+ VSPKHFVLAKKAITAIFDQLLEFV	MFN1	Transmembrane GTPase MFN1 (EC 3.6.5.-)...
7	E16	RKCLKKFTTLEIVLSVLLLVLFHIS	MGA	Maltase-glucoamylase, intestinal [Incl...
7	E17	GYFPVIFRKAREFIEILFGISLREV	MGC1	Melanoma-associated antigen C1 (MAGE-C...
7	F01	IIFIKGTYASEEVIWDVLSGIGVRA	MGC1	Melanoma-associated antigen C1 (MAGE-C...
7	F02	EGSDDEGMPENSLIIILSVIFIKG	MGC2	Melanoma-associated antigen C2 (MAGE-C...
7	F03	DYFPMIFGKAHEFIELIFGIALTDM	MGC3	Melanoma-associated antigen C3 (MAGE-C...
7	F04	+ GYFPMIFRKAREFIEILFGISLTEV	MGC3	Melanoma-associated antigen C3 (MAGE-C...
7	F05	AQFMEA ADEALDALDAAAEEAEARA	MGD1	Melanoma-associated antigen D1 (MAGE-D...
7	F06	+ RKPRFMSAWAQVIIASILISVQLTL	MGR1	Metabotropic glutamate receptor 1 prec...
7	F07	HRKEGEEADAPGVIPGIVGAVVVAV	MIC2	T-cell surface glycoprotein E2 precurs...
7	F08	+ LKTAADRQAEDQVLRKLVLDVNRQD	MIL1	NEDD9 interacting protein with calponi...
7	F09	TLDHISIRQLQLLLKVALLLGVEI	MIL1	NEDD9 interacting protein with calponi...
7	F10	+ YLMVMIGMFSFIIVAILVSTVKSFR	MIR1	Potassium voltage-gated channel subfam...
7	F11	QHPFRIEDEIDDIVLMAANQSQSLSN	MK04	Mitogen-activated protein kinase 4 (EC...
7	F12	QLLPGISREALDFLEQILTFSPMDR	MK06	Mitogen-activated protein kinase 6 (EC...
7	F13	+ SSQPLTLEHVRYFLYQLLRGLKYM	MK07	Mitogen-activated protein kinase 7 (EC...
7	F14	+ GARLALDEHVQFLVYQLLRGLKYH	MK11	Mitogen-activated protein kinase 11 (E...
7	F15	DHSDPEETKEFQLLASALFKSGSDF	MKLN	Muskelin.
7	F16	PGTTATTSGAGAAAATAAASPTPI	MKR1	Makorin 1 (RING finger protein 61).
7	F17	PGTTVTTSGAGAAAEEAETAEAES	MKR4	Makorin 4 (Zinc finger protein 127-Xp)...
7	G01	+ VKKPAGPSISKPAAKPAAAGAPPAK	MLEY	Myosin light chain 1, slow-twitch musc...
7	G02	DNYVPPLEGLPIFILRLATEVNWDE	MLH1	DNA mismatch repair protein Mlh1 (MutL...
7	G03	HLGSRWEQEDRALSPVIPLPRDS	MLL2	Myeloid/lymphoid or mixed-lineage leuk...
7	G04	MESSLVASELPLIEDLLEHEKKEL	MLL2	Myeloid/lymphoid or mixed-lineage leuk...
7	G05	PTELEPPGRVSPAAAQLADTLFSKG	MLL2	Myeloid/lymphoid or mixed-lineage leuk...
7	G06	+ RGERLHMFRVGLVFFHAIGQLLPHQ	MLL2	Myeloid/lymphoid or mixed-lineage leuk...
7	G07	+ WYVLVHSDMLTIHGSILKMEIKAK	MLN2	Mucolipin 2.
7	G08	QMEFVNGWYIMIHSDILTIGSIL	MLN3	Mucolipin 3.
7	G09	+ SGKPRRKSNIPIFPRVAGKLGKRP	MLPH	Melanophilin (Exophilin 3) (Synaptotag...
7	G10	+ KQKHFNEREASRVVRDVAALDFLH	MNK1	MAP kinase-interacting serine/threonin...
7	G11	KRRHFNELEASVVVDVASALDFLH	MNK2	MAP kinase-interacting serine/threonin...
7	G12	GLPFEKWLIGSLLFGVLFVIGLV	MNS1	MANSC domain containing protein 1 prec...
7	G13	+ KHLERRDAESLKLKEAIWEEKQGT	MOC3	Molybdenum cofactor synthesis protein...
7	G14	APRFPALGLVLLVEAAVLIIGPPS	MOT3	Monocarboxylate transporter 3 (MCT 3).
7	G15	HMAEQTFEQAIQAASRIIRNEQFAI	MPI2	M-phase inducer phosphatase 2 (EC 3.1.
7	G16	SGPQLLFRDVLVDVIGVLPPEATTTA	MPK5	Dual specificity mitogen-activated pro...
7	G17	+ VYRKMEPHVLGRIAVAVVKGLTYLW	MPK5	Dual specificity mitogen-activated pro...
7	H01	AVRDNNLELVQEILRDLAQLAEQSS	MPP2	MAGUK p55 subfamily member 2 (MPP2 pro...
7	H02	+ DLFLRGIMESPIVRSIAKVMIVLW	MPP2	MAGUK p55 subfamily member 2 (MPP2 pro...
7	H03	+ STATNPQNGLSQILRLVLQELSLFY	MPP4	MAGUK p55 subfamily member 4 (Discs, l...
7	H04	+ ARRLWGFSESLLRGAAGRSLYFG	MPPB	Mitochondrial processing peptidase bet...
7	H05	+ YYAKAFSKDLPRAVEILADIQNST	MPPB	Mitochondrial processing peptidase bet...
7	H06	SHLSVGSILLVTFASLVAVVVVGGF	MPRD	Cation-dependent mannose-6-phosphate r...
7	H07	PAPARRPQRSLLLQLLLVAAPGS	MPRI	Cation-independent mannose-6-phosphate...
7	H08	+ HSMVMDTLAVALRVAEEAIEAISKA	MRIP	Rab effector MyRIP (Myosin-VIIa- and R...
7	H09	GPLPSYEQIRVALQDAASGLQEQA	MRN2	Multimerin 2 precursor (EMILIN-3) (Ela...
7	H10	LVDIRVTPVPGALGAALWEAGSPV	MRN2	Multimerin 2 precursor (EMILIN-3) (Ela...

Bl.	Pos.	Sequence	SP-ID	Description
7	H11	RSQVQALDDEVGALKA AAAAEARHEV	MRN2	Multimerin 2 precursor (EMILIN-3) (Ela...
7	H12	SHDAGREEAATTALAGLARELQSL	MRN2	Multimerin 2 precursor (EMILIN-3) (Ela...
7	H13	ATSILHKAGEVVVAFPAARLSTGPA	MRTA	Myocardin-related transcription factor...
7	H14	LKPYQEVNSSGLAAGGIVAVSSSAI	MRTB	Myocardin-related transcription factor...
7	H15	AVSSAHRAASLEAVSYAIDTLKAKV	MS2L	Molybdenum cofactor synthesis protein...
7	H16	DEKKRRLMGLPSFLTEVARKELENL	MSH5	MutS protein homolog 5.
7	H17	FMPDAPDHESLKLQRLVDEINPQS	MSH5	MutS protein homolog 5.
7	I01	QEFSDDLHHIASLIGKVDFEGSLA	MSH5	MutS protein homolog 5.
7	I02	SPSLQEKLKSFKAALIALYLLVFAV	MSRE	Macrophage scavenger receptor types I...
7	I03	HLKEKVSAGADFIITQLFFEADTF	MTHR	Methylenetetrahydrofolate reductase (E...
7	I04	EKSYPVPPKGLDIIILIFVLSAIVP	MTL2	Methyltransferase-like protein 2 (EC 2...
7	I05	STGTMTGLAIQYALNIAFSEAEGAR	MTN2	Matrilin-2 precursor.
7	I06	SVNTHDYAKVKEFIVDILQFLDIGP	MTN2	Matrilin-2 precursor.
7	I07	SVRPLEFTKVKTFVSRIDTLDIGP	MTN3	Matrilin-3 precursor.
7	I08	SVRPQNFELVKRFVNQIVDFLDVSP	MTN4	Matrilin-4 precursor (MAT-4).
7	I09	TMTGLAIQYAMNVAFSVAEGARPP	MTN4	Matrilin-4 precursor.
7	I10	LESTKWLHHLVLLKSAALLVVAHD	MTR3	Myotubularin-related protein 3 (EC 3.1...
7	I11	TILGTWYMVVNLLMAILLTVEVTH	MTRP	Lysosomal-associated transmembrane pro...
7	I12	GDAKNMAKDVHDALVQHSKEVGV	MTRR	Methionine synthase reductase, mitoch...
7	I13	EETVRRRNQILSVLAGLAAMVGYAL	MTX1	Metaxin 1.
7	I14	QKENRNTGIVFGAILGAILGVSLT	MU15	Mucin 15 precursor (UNQ750/PRO1481).
7	I15	VQLRRGLVSRPVVTRVVIKAQGLV	MU5B	Mucin 5B precursor (Mucin 5 subtype B...
7	I16	AYLPAVFEVLDLVDVAVILTEKTAL	MVP	Major vault protein (MVP).
7	I17	LVDKGTEDKVVVDRNLVFLKKG	MX1	Interferon-regulated resistance GTP-bi...
7	J01	KITINSHTTAGEVVEKLRGLAMED	MY10	Myosin X.
7	J02	AGKQGLGPPSTPIAVHA AVKSKSLG	MYCD	Myocardin.
7	J03	AVLAAANNKETLLAGRLVVLGIGI	MYCT	Proton myo-inositol cotransporter (H(+...
7	J04	VSTVGA AVSALAGGALNGVFR	MYCT	Proton myo-inositol cotransporter (H(+...
7	J05	GKTVNTRKVIQYFATIAVTGEKK	MYH4	Myosin heavy chain, skeletal muscle, f...
7	J06	QEARNAEEKAKKAITDAAMMAEELK	MYH4	Myosin heavy chain, skeletal muscle, f...
7	J07	VTKGQTVQQVYNAV GALAKAVYDKM	MYH1	Myosin heavy chain, skeletal muscle, a...
7	J08	VTKGQTVQVSNVAV GALAKAVYEKM	MYH2	Myosin heavy chain, skeletal muscle, a...
7	J09	RDARNAEEKAKKAITDAAMMAEELK	MYH3	Myosin heavy chain, fast skeletal musc...
7	J10	VTKGQTVQQVYNAV GALAKAIYEKM	MYH4	Myosin heavy chain, skeletal muscle, f...
7	J11	GKTVNTRKVIQYFATIAVTGEKK	MYH8	Myosin heavy chain, skeletal muscle, p...
7	J12	QESRNAEEKAKKAITDAAMMAEELK	MYHD	Myosin heavy chain, skeletal muscle, e...
7	J13	VTKGQTVQQVYNAV GALAKAVYEKM	MYH8	Myosin heavy chain, skeletal muscle, p...
7	J14	GMLNEAEGKAIKLAKDVASLSQLQ	MYHB	Myosin heavy chain, smooth muscle isof...
7	J15	QELRAKREQEVTVLKKALDEETRSH	MYHB	Myosin heavy chain, smooth muscle isof...
7	J16	EQLKRNSQRAAEALQSVLDAEIRSR	MYHD	Myosin heavy chain, skeletal muscle, e...
7	J17	QA AVQLALRAGQIRKALTEEKRV	MYO2	Inositol-1(or 4)-monophosphatase 2 (EC...
7	K01	IVWRRFKWVHIGLFLLLLLFVAV	MYOF	Myoferlin (Fer-1 like protein 3).
7	K02	ELTVRVEDLEAKAVIDLIVIEKPGP	MYPH	Myosin-binding protein H (MyBP-H) (H-p...
7	K03	KMIEGVAYEVRIFAVNAIGISKPSM	MYPS	Myosin-binding protein C, slow-type (S...
7	K04	GQA AKPGFIVHLLQEA AEGAASEE	MYT1	Myelin transcription factor 1 (MYT1) (...)
7	K05	DRIQSALEESVFAVTAVNASEKTV	N107	Nuclear pore complex protein Nup107 (N...
7	K06	PLDDLREDEVRLKLYLFTLIRAGM	N107	Nuclear pore complex protein Nup107 (N...
7	K07	VLKNHHSRLSDLVNTAILIALNKR	N133	Nuclear pore complex protein Nup133 (N...
7	K08	HEAQLSEKISLQAIQQLVRKSYQAL	N155	Nuclear pore complex protein Nup155 (N...
7	K09	LGAAMPASTSAALQEALENAGRLI	N155	Nuclear pore complex protein Nup155 (N...
7	K10	QGMSRVASVSQNAIVSAAGNIARTI	N155	Nuclear pore complex protein Nup155 (N...
7	K11	VRLLDVIGLPELVIQLATSATEA	N160	Nuclear pore complex protein Nup160 (N...
7	K12	FTEADEAMAELAIADNVFLFLMESV	N205	Nuclear pore complex protein Nup205 (N...
7	K13	ILDDEAAQELMPVVAGAVFTLTAHL	N205	Nuclear pore complex protein Nup205 (N...
7	K14	ILSDLFDIGELAAVELLLAGEHQQP	N205	Nuclear pore complex protein Nup205 (N...
7	K15	QDVSAGSLQELALLTGIISKAALPG	N205	Nuclear pore complex protein Nup205 (N...
7	K16	SSMAQHLQAAGQVLQFLISHSDTIQ	N205	Nuclear pore complex protein Nup205 (N...
7	K17	YRRAAEKWEVAEVVLEVFYKLLRDY	N205	Nuclear pore complex protein Nup205 (N...
7	L01	RGRIEGLFGVSLAVLGALGAEPLP	N4B1	Nedd4-binding protein 1 (N4BP1) (Fragm...
7	L02	YEP AEDTFLLLDAL EAAAAELAGVE	N6M1	Putative N6-DNA-methyltransferase (EC...
7	L03	PVFRKVVHAREHPILSTVITIADEYD	NAC1	Sodium/calcium exchanger 1 precursor (...)
7	L04	VFLGIGVAWSIAIYHAANGEQFKV	NAC1	Sodium/calcium exchanger 1 precursor (...)
7	L05	VVAAGGVEKAVRAARQAADFALKVE	NADC	Nicotinate-nucleotide pyrophosphorylas...
7	L06	SIGIFLGIFSGSFAMGAATGVVVAL	NAH6	Sodium/hydrogen exchanger 6 (Na(+)/H(+...
7	L07	YALLFGESVLDNAVAIVLSSSIVAY	NAH7	Sodium/hydrogen exchanger 7 (Na(+)/H(+...
7	L08	LFTFKQHVFSPIFHGAFVAIFLGR	NAH7	Sodium/hydrogen exchanger 7 (Na(+)/H(+...
7	L09	FLPESVAVVSLGILMGAVIKHIEFK	NAH8	Sodium/hydrogen exchanger 8 (Na(+)/H(+...
7	L10	YTLLFGESVLDNAVAIVLTSISIV	NAH9	Sodium/hydrogen exchanger 9 (Na(+)/H(+...
7	L11	TSGRRWREISASLLYQALPSPDHE	NAL1	NACHT-, LRR- and PYD-containing protei...
7	L12	AEKQPFFTILIRSLRKLVPESFLI	NAL5	NACHT-, LRR- and PYD-containing protei...
7	L13	KSLELARMENGVLGNALEGVHVEE	NASP	Nuclear autoantigenic sperm protein (N...
7	L14	AENMSITAKLERALEKVAPLLREIF	NBEA	Neurobeachin protein (Lysosomal traffi...
7	L15	STVKIQNPMLKVVATLLKNSTPSA	NBEA	Neurobeachin protein (Lysosomal traffi...
7	L16	VGEVSNRDIVETVLLNLLVGGGFLE	NBEA	Neurobeachin protein (Lysosomal traffi...
7	L17	KGGVGKSTFSAHLAHLAEDDENTQI	NBP1	Nucleotide-binding protein 1 (NBP 1).
7	M01	FIQEPGSPAF AALTSIAQKILDAT	NBP2	Nucleotide binding protein 2 (NBP 2).
7	M02	WRGPKKNALIKQFVSDVAWGELDYL	NBP2	Nucleotide binding protein 2 (NBP 2).

Bl.	Pos.	Sequence	SP-ID	Description
7	M03	ANGSPTSGLSTGAIVGILIVIFVLL	NCA1	Neural cell adhesion molecule 1, 140 k...
7	M04	PATLGGNSASYTFVSLLSAVTLL	NCA2	Neural cell adhesion molecule 1, 120 k...
7	M05	GLGLGAVIGLVAALLLILVVDVS	NCM2	Neural cell adhesion molecule 2 precu...
7	M06	PTTVEGRNDEKALLEQLVSLSGKD	NCO1	Nuclear receptor coactivator 1 (EC 2.3...
7	M07	KTTTRNRESVYLLLDIVQESPFLT	NCP1	Nck-associated protein 1 (NAP 1) (p125...
7	M08	SLFRDEVFHHKAAEDLFVNIRGYN	NCP1	Nck-associated protein 1 (NAP 1) (p125...
7	M09	SMHRERRKFLRSALKELATVLSQDP	NCP1	Nck-associated protein 1 (NAP 1) (p125...
7	M10	TETHGTSAAPLAAGIFALALEAN	NEC1	Neuroendocrine convertase 1 precursor...
7	M11	LRQKDKLFEEMVWVYLFQIVSAVS	NEK9	Serine/threonine-protein kinase Nek9 (...
7	M12	SNMLLVIIIVSVGVITIVVVVIIAVF	NEO1	Neogenin precursor.
7	M13	EKVDKDEWISGAADVNAFYSSGRNQ	NEP	Neprilysin (EC 3.4.24.11) (Neutral end...
7	M14	KQRWTPLEISLSVLVLLLTHAVTM	NEP	Neprilysin (EC 3.4.24.11) (Neutral end...
7	M15	+ SARLDQNLMSWRFIMDLVSSLSRTY	NEP	Neprilysin (EC 3.4.24.11) (Neutral end...
7	M16	YVEAAFAGESKHVVEDLIAQIREVF	NEP	Neprilysin (EC 3.4.24.11) (Neutral end...
7	M17	DDEARQREEAEAAARALARFAQEAE	NFH	Neurofilament triplet H protein (200 k...
7	N01	SVAAGSADEAHGLLGAASSTGGA	NFL3	Nuclear factor erythroid 2 related fac...
7	N02	PEFLDHIRKVMVLVIDAAVTNVEDLS	NGB	Neuroglobin.
7	N03	+ SKLPKQDQDAKHILEHVFFQVVEFK	NGD5	NGD5 protein homolog (CGI-53).
7	N04	VSSGVLNREISRAAGKAVPGIIDE	NGD5	NGD5 protein homolog (CGI-53).
7	N05	TNGEIQKENSREALAEALESFRPA	NHR1	Ezrin-radixin-moesin binding phosphopr...
7	N06	+ EPEPITASGSLKALRKLTLASVEVP	NIBA	Niban protein.
7	N07	GSWEMITGDEIQILSNLMEELLPT	NIBA	Niban protein.
7	N08	SNQASPARRASAILPGVLGSETLSN	NIBA	Niban protein.
7	N09	NVAPGAESAVASFVTQLAAAEALQK	NICA	Nicastrin precursor (UNQ1874/PRO4317).
7	N10	TDTAKALADVATVLGRALYELAGGT	NICA	Nicastrin precursor (UNQ1874/PRO4317).
7	N11	DQLLQEGDDESSAVVKLANPLHFYE	NID2	Nidogen-2 precursor (NID-2) (Osteonido...
7	N12	+ GRVLYREDTSPAVLGLAARYVRAGF	NID2	Nidogen-2 precursor (NID-2) (Osteonido...
7	N13	DSVFLYNQEEKILRYAFNSIGPV	NIDO	Nidogen precursor (Entactin).
7	N14	LYFTDWMNSVVALDLAISKETDAF	NIDO	Nidogen precursor (Entactin).
7	N15	PKHAKLDFLNNLATGLVFIIVVVN	NIJ1	Ninjurin 1 (Nerve injury-induced prote...
7	N16	GYIHVTQTFSIMAVLWALVSVSFLV	NKG7	Protein NKG7 (Natural killer cell prot...
7	N17	STTAAFAAAISMVVMAMAVYTSERWD	NKG7	Protein NKG7 (Natural killer cell prot...
7	O01	IFDITVGLPVPWLLFSLINGLQVPV	NKX1	Sodium/potassium/calcium exchanger 1 p...
7	O02	+ RTKRLHWSRLLFLLGMLIGSTYQH	NKX1	Sodium/potassium/calcium exchanger 1 p...
7	O03	VFISHSNVIGITIVGSAVFNILFVI	NKX1	Sodium/potassium/calcium exchanger 1 p...
7	O04	WPETRQKQAIYFLPLIVFPWLWLV	NKX1	Sodium/potassium/calcium exchanger 1 p...
7	O05	PLFRDVSFYVDLIMLIHFFLDNVI	NKX2	Sodium/potassium/calcium exchanger 2 p...
7	O06	VFAHSNVGIGTIVGSAVFNILFVI	NKX2	Sodium/potassium/calcium exchanger 2 p...
7	O07	DEKVSWWESLVLVLMYLIYIVIMKY	NKX3	Sodium/potassium/calcium exchanger 3 p...
7	O08	LNSRGLIYVGLLASVVFVTVFGVH	NKX3	Sodium/potassium/calcium exchanger 3 p...
7	O09	DEQIVWWEGLVLILYVFIYILIMKY	NKX4	Sodium/potassium/calcium exchanger 4 p...
7	O10	NYGSTVKINSRGLVYSVLLGSAV	NKX4	Sodium/potassium/calcium exchanger 4 p...
7	O11	AEVQRQLSIVVTALEGAATLRPVA	NLDL	N-acetylated-alpha-linked acidic dipep...
7	O12	EKLDTDISLIRYFVTEVLDVIAPPY	NLFD	Negative elongation factor D (NELF-D)...
7	O13	LSVTIAVGASLLFLNLAFAALYYK	NLG1	Neuroigin 1 precursor (Neuroigin I).
7	O14	LALRRAPDDVPLAPGALTLLPSGL	NLG2	Neuroigin 2 precursor.
7	O15	LSVTAVAGASLLFLNLAFAALYYK	NLG2	Neuroigin 2 precursor.
7	O16	LSVTIAVGASLLFLNLAFAALYYK	NLG3	Neuroigin 3 precursor (Gliotactin hom...
7	O17	+ YKFGSRHSAESQILKHLKLNLFKIF	NNMT	Nicotinamide N-methyltransferase (EC 2...
8	B01	DLEALQRLQAGNVVPLVHRVTGT	NPA3	Neuronal PAS domain protein 3 (Neurona...
8	B02	GVFYSIGLPLTLIVIEVIPFLVAV	NPC1	Niemann-Pick C1 protein precursor.
8	B03	+ IVDNGVAPPARRLLRLVVRFPQVE	NPHN	Nephrin precursor (Renal glomerulus-sp...
8	B04	MAEADFKMVSEPVAHGVAEEEMASS	NPL3	Nucleosome assembly protein 1-like 3.
8	B05	+ GPVSARVIKALQVVDHAFGLMEGL	NPP3	Ectonucleotide pyrophosphatase/phospho...
8	B06	SYPYFIGVSLGSIIVVFFVIFIKH	NPP5	Ectonucleotide pyrophosphatase/phospho...
8	B07	LHILESKFLETPLLSNVISLLHTLW	NPR1	Nucleolar preribosomal-associated prot...
8	B08	LSGEKRPESETMLIFQVFEAILLRT	NPR1	Nucleolar preribosomal-associated prot...
8	B09	LVKLLATHFSAGVLQLLAASAPILQ	NPR1	Nucleolar preribosomal-associated prot...
8	B10	LWSSEYVRGLGALLPTLAVDELDTV	NPR1	Nucleolar preribosomal-associated prot...
8	B11	NTMEEDKETVIQFLERILLTLVANP	NPR1	Nucleolar preribosomal-associated prot...
8	B12	+ SPESDAPGPVYAAASLAVSWVLRV	NPR1	Nucleolar preribosomal-associated prot...
8	B13	+ SPPALPLASSFTALLQAAYESQALR	NPR1	Nucleolar preribosomal-associated prot...
8	B14	+ TMPHLSMQQVLLAAKQVLLYLRSTV	NPR1	Nucleolar preribosomal-associated prot...
8	B15	+ TQDMRLFTLALFIAKAAALQILKPE	NPR1	Nucleolar preribosomal-associated prot...
8	B16	TSLITGPTTEERALHAAIGGIPLLA	NPSA	Napsin A precursor (EC 3.4.23.-) (Naps...
8	B17	+ VLQQRGLGELERQLLRKVAELEDEKS	NPX2	Neuronal pentraxin II precursor (NP-II...
8	C01	GLHSKMDQLEGQLLAQVLALEKERV	NPXR	Neuronal pentraxin receptor.
8	C02	QQARSLDPQSYSLIHQLLSAEDLEP	NR61	Orphan nuclear receptor NR6A1 (Germ ce...
8	C03	+ ISPLIQKSAANVFLDFIVNLTN	NRDC	Nardilysin precursor (EC 3.4.24.61) (N...
8	C04	+ VQGNVTSTESMDFLKYVVDKLNFKP	NRDC	Nardilysin precursor (EC 3.4.24.61) (N...
8	C05	GATVTMALNSEAAAHAVATLAEATL	NRF1	Nuclear respiratory factor 1 (Nrf-1) (...
8	C06	GGGQIVLSGETAAAVGALTGVQDAN	NRF1	Nuclear respiratory factor-1 (NRF-1) (...
8	C07	TIQTTQASEATQAVASLAEAAVAAS	NRF1	Nuclear respiratory factor 1 (Nrf-1) (...
8	C08	SIQTKSNLFEAFVALAVLVTLIIGA	NRG4	Pro-neuregulin-4, short isoform (Pro-N...
8	C09	SIGELKMTQEYALTAIVILSPDR	NRH4	Bile acid receptor (Farnesoid X-activa...
8	C10	+ GFKLLWILLATLVGLLLQRLAARL	NRM2	Natural resistance-associated macrophag...
8	C11	RFARVVLTRESIAIIPTLVAVFQDV	NRM2	Natural resistance-associated macrophag...

Bl.	Pos.	Sequence	SP-ID	Description	
8	C12	+	VYVRDLGHVALYVVAAVVSVAYLGF	NRM2	Natural resistance-associated macropha...
8	C13	+	RKPGNVLKTLEPILITHIAMSALGV	NRP1	Neuropilin-1 precursor (Vascular endot...
8	C14		DKEKSWLYTLDPILITHIAMSLSGV	NRP2	Neuropilin-2 precursor (Vascular endot...
8	C15	+	DYVPIGPRFSNLVLQALLVLLKKAP	NSF	Vesicle-fusing ATPase (EC 3.6.4.6) (Ve...
8	C16	+	YMIHHGDWFSGKAVGLLVHLHSGMV	NSMA	Sphingomyelin phosphodiesterase 2 (EC...
8	C17		QADVQPLGPPSLAVHTILPQESPAL	NTC1	Neurogenic locus notch homolog protein...
8	D01		ESLTPERTQLLYLLAVAVVILFII	NTC2	Neurogenic locus notch homolog protein...
8	D02		GEPLPEPPSVPLPLLVAGAVLLL	NTC3	Neurogenic locus notch homolog protein...
8	D03		SEPRARRELAPEVIGSVVMLEIDNR	NTC3	Neurogenic locus notch homolog protein...
8	D04		QGAPPHPGSPALLLTLLGTASPLV	NTG1	Netrin G1 precursor (Laminet-1) (UNQ57...
8	D05		TVTDLRIRLLRPVAVGEIFVDELHLA	NTG1	Netrin G1 precursor (Laminet-1).
8	D06	+	ILWSGWASNSNYALIGALRAVAQTI	NU1M	NADH-ubiquinone oxidoreductase chain 1...
8	D07		PMANLLLLIVPILIAMAFMLLTERK	NU1M	NADH-ubiquinone oxidoreductase chain 1...
8	D08		TSITITYTPTLALTIALLLWTPPL	NU1M	NADH-ubiquinone oxidoreductase chain 1...
8	D09		TTNPLMVMSSLLLIILALSLEYE	NU3M	NADH-ubiquinone oxidoreductase chain 3...
8	D10		EYPEAWGSGVEVLVSVLVGLAMEVG	NU6M	NADH-ubiquinone oxidoreductase chain 6...
8	D11		HTGDDVGAPIADVILPGAAYTEKSAT	NUAM	NADH-ubiquinone oxidoreductase 75 kDa...
8	D12		MLQSFQGGKDVAAIAGGLVDAEALVA	NUAM	NADH-ubiquinone oxidoreductase 75 kDa...
8	D13	+	IRFLKGMGYSTHAAQQVLHAASGNL	NUB1	NEDD8 ultimate buster-1 (NY-REN-18 ant...
8	D14	+	KQIQRTKRGLEILAKRAAETVVDPE	NUB1	NEDD8 ultimate buster-1 (NY-REN-18 ant...
8	D15		SSASTDEDMETEAVNEILEDIPEHE	NUB1	NEDD8 ultimate buster-1 (BS4 protein).
8	D16		LTQERGAQADLALEKAAARAELEMR	NUMA	Nuclear mitotic apparatus protein 1 (N...
8	D17	+	ELLNMYVGESERAVRQVFRRAKNSA	NVL	Nuclear valosin-containing protein-lik...
8	E01		IAGELDLPIKVAAPVSGVSGES	NVL	Nuclear valosin-containing protein-lik...
8	E02		LASVDLNGRLPDLIADALHRIGQVE	NX2A	Neurexin 2-alpha precursor (Neurexin I...
8	E03		LASVDLNGRLPDLIADALHRIGQVE	NX3A	Neurexin 3-alpha precursor (Neurexin I...
8	E04		TSHQGTQSALFTLVPTAFSSVPAF	NXF3	Nuclear RNA export factor 3 (TAP-like...
8	E05		EAGNRTAVAEFILLGLVQTEEMQP	O3A3	Olfactory receptor 3A3 (Olfactory rece...
8	E06		AFTEYPEWALPLFLLFLFMYLITVL	O9Q1	Olfactory receptor 9Q1.
8	E07	+	RLSLVAGAYVAGLISALVRTVSAFT	O9Q1	Olfactory receptor 9Q1.
8	E08		LEDYGVYWPLFLVLIHAIPIPHFI	OBRG	Leptin receptor gene-related protein (...)
8	E09		TPETTIKEDLTLPRVVPVEPTDT	OC90	Otoconin 90 precursor (Oc90) (Phosphol...
8	E10		EMSRTRRYLSVIIIVSAILGIMVFI	OCLN	Occludin.
8	E11		GGPLPTDPMGLGALGGLVSAASLA	OCLN	Occludin.
8	E12	+	WRRLPGAGLARGFLHPAATVEDAAQ	ODBB	2-oxoisovalerate dehydrogenase beta su...
8	E13	+	IVFNHAIKGVETIANDVVSATKAR	ODP2	Dihydropyridyllysine-residue acetyltran...
8	E14		KRIIDTPISEMGFAGIAGVGAAMAGL	ODPB	Pyruvate dehydrogenase E1 component be...
8	E15	+	DFLNNPFKQENVLARMVASRITNYP	OFD1	Oral-facial-digital syndrome 1 protein...
8	E16	+	NLRDQVYIRIASLLKTLKTEEWVL	OFU2	GDP-fucose protein O-fucosyltransferas...
8	E17		LRTPLNYILLNLAVADLFMVLGGFT	OPSD	Rhodopsin (Opsin 2).
8	F01		SSINDAFRLHALQDILLPENQLE	OPT	Opticin precursor (Oculoglycan).
8	F02	+	AAETLLSLLGLLGLLPPASLTG	OS9	Protein OS-9 precursor.
8	F03	+	KRENPLKQIEGLVKELLEREGHTA	OS9	Protein OS-9 precursor.
8	F04		PERGPLSEQVSEAVSEAVPRSEPVS	OSB2	Oxysterol-binding protein 2 (Oxysterol...
8	F05		LTYSQLESLSPEAVHGAISTLNQVS	OTOA	Otoancorin precursor.
8	F06		GLGEGVSFRARLLGLAVEIVDTSN	OTOF	Otoferlin (Fer-1 like protein 2).
8	F07	+	KRVAYARVPSKDLLFSIVEEETGKD	OTOF	Otoferlin (Fer-1 like protein 2).
8	F08	+	TVPVFFNQAERRAVLQAARMAGLKV	OXR1	150 kDa oxygen-regulated protein precu...
8	F09	+	VGGATRVPRVQEVLLKAVGKEELGK	OXR1	150 kDa oxygen-regulated protein precu...
8	F10		QNKLEEMINELAVAMTAVKHEQEYM	P24	Cop-coated vesicle membrane protein p2...
8	F11	+	DQKAYKEGKQLKALEDAFLAIDAKL	P2CG	Protein phosphatase 2C gamma isoform (...)
8	F12	+	TKYKMGGDIANRVLRSLSVEASSGV	P2G4	Proliferation-associated protein 2G4 (...)
8	F13		IHLRLYLSSIWNILDLVILLSIVA	P2L1	Polycystic kidney disease 2-like 1 pro...
8	F14		YMLTRRVLQLETVLEGVVSDIDAVG	P2L1	Polycystic kidney disease 2-like 1 pro...
8	F15	+	NRPSPYAFSKFLLPIVVRYLADQN	P4R1	Serine/threonine phosphatase 4 regulat...
8	F16	+	HRSPQLLLELDNVSIVLQNSKERG	P52K	52 kDa repressor of the inhibitor of t...
8	F17	+	HRHMRITREVRTLVTRVITDVYYVD	P531	Tumor suppressor p53-binding protein 1...
8	G01		AASDNTENLIKVIEILISTEWNER	P85A	Phosphatidylinositol 3-kinase regulato...
8	G02	+	AEQFAPPDIAPPLLIKLVIAIEKKG	P85A	Phosphatidylinositol 3-kinase regulato...
8	G03		ELLPGDVLVVSRAALQALGVAEGGE	P85B	Phosphatidylinositol 3-kinase regulato...
8	G04		LVTPEASAEARRALREAAGPVGPAL	P85B	Phosphatidylinositol 3-kinase regulato...
8	G05		PEQFSPPDVAPPLLVKLVIAIERTG	P85B	Phosphatidylinositol 3-kinase regulato...
8	G06		KLIAVGFQQLSVINLVVYLLAPV	PAN1	Pannexin 1 (UNQ2529/PRO6028).
8	G07		ILSDMETHGAHTALPQLLLQENWDN	PAPA	Pappalysin-1 precursor (EC 3.4.24.79)...
8	G08	+	RQVQETLNLEPDVAQHLLAHSHWGA	PARC	p53-associated parkin-like cytoplasmic...
8	G09	+	VAMGEMEADVQALVRRARQLAESG	PARC	p53-associated parkin-like cytoplasmic...
8	G10	+	VELLTNQVGEKMOVVVQALRLLYLLM	PARC	p53-associated parkin-like cytoplasmic...
8	G11		RPQGTPTIGLVLLRWAIHYTELQ	PART	Prostate-specific and androgen regulat...
8	G12	+	HPPYLVSKELMSLVSGLLQVPPER	PASK	PAS domain containing serine/threonine...
8	G13	+	STMSPGSGAFGFVWTAVDKEKNKE	PASK	PAS domain containing serine/threonine...
8	G14	+	TSRRNVTFSSQVANILLNGVKYES	PAST	Proton-associated sugar transporter A...
8	G15		SGGGETSLDLTLIIIALGVSFIF	PC10	Protocadherin 10 precursor.
8	G16		DQGSPPRSASLQLLVQVLPASARLAE	PC16	Protocadherin 16 precursor (Dachsous 1...
8	G17		HTALGLAPDLNLLVGAVALSLGVV	PC16	Protocadherin 16 precursor (Dachsous 1...
8	H01	+	LFTLDEQSGLLTVAWPLARRANSVV	PC16	Protocadherin 16 precursor (Dachsous 1...
8	H02		SGDPRGLFSLDAVSGLLQLRPLD	PC16	Protocadherin 16 precursor (Dachsous 1...
8	H03	+	KVTDHGKPTLSAVAKLIIRSVSGSL	PC17	Protocadherin 17 precursor (Protocadhe...

Bl.	Pos.	Sequence	SP-ID	Description
8	H04	KYSVEEQRAGTVIANVAKDAREAG	PC19	Protocadherin 19 precursor.
8	H05	LYSLNEGLPAGVLIGSLAEDLRLLP	PC20	Protocadherin 20 precursor.
8	H06	ERSKQRGNLFGVVAGVVAALLIA	PCH1	Protocadherin 1 precursor (Protocadherin 1 precursor)
8	H07	SIVIGVVAGIMTVILILIVVMARY	PCH7	Protocadherin 7 precursor (Brain-heart-pancreas)
8	H08	+ SHINAATGTSASLVYRLVSKAGDAP	PCH9	Protocadherin 9 precursor.
8	H09	EGHTGTSAAAPLAAGMIALMLQVRP	PCK7	Proprotein convertase subtilisin/kexin type 7
8	H10	VSQSGTSQAAAHVAGIAAMMLS AEP	PCK9	Proprotein convertase subtilisin/kexin type 9
8	H11	+ NGETLVFEESNWFIIINVIKLVWRYG	PCL1	Prenylcysteine oxidase precursor (EC 1.10.1.1)
8	H12	DKTKPLSKVSSIAVQTVAEISVQTE	PCL0	Piccolo protein (Aczonin).
8	H13	QTHLEDAGAAIAAAEAAVQQLRIQP	PCL0	Piccolo protein (Presynaptic cytomatrix-associated)
8	H14	TVWDYDRFSSNDFLGEVLIDLSSSTS	PCL0	Piccolo protein (Multidomain presynaptic)
8	H15	+ KADVNLSHSERGALQDALRRLGLF	PCN2	Pericentrin 2 (Pericentrin B) (Kendrin)
8	H16	+ NQRKAAHSAEAEVLLALARIRRAL	PCN2	Pericentrin 2 (Pericentrin B) (Kendrin)
8	H17	VRDHLRTEASTELAGTVAHELQGVH	PCN2	Pericentrin 2 (Pericentrin B) (Kendrin)
8	I01	+ ISVQLKKTSEVDLAKPLVKFIQQT	PD6I	Programmed cell death 6-interacting protein 1
8	I02	+ NRSIAQMREATTLANGVLAASNLPA	PD6I	Programmed cell death 6-interacting protein 2
8	I03	+ PAKTMQSGSEVNVLKSLNSLDEVK	PD6I	Programmed cell death 6-interacting protein 3
8	I04	AAPFRFRGQVLFVVVDVAADNEHV LQ	PDA2	Protein disulfide-isomerase A2 precursor
8	I05	+ VTEFNSQTSAKIFAARILNHLLFV	PDA2	Protein disulfide-isomerase A2 precursor
8	I06	+ RLALFPGVALLLAAARLAAASDVLE	PDA3	Protein disulfide-isomerase A3 precursor
8	I07	+ YQGGRTGEAIVDAALSALRQLVKDR	PDA6	Protein disulfide-isomerase A6 precursor
8	I08	NTGESTDIDVKEALINAFKRLDNDI	PDP1	[Pyruvate dehydrogenase (Lipoamide)]-pore
8	I09	EPDEERAQQEDALAQAFEEARRRT	PEBB	Core-binding factor, beta subunit (CBF-beta)
8	I10	LEEINKVKGELGHIPTIIRDEELKT	PEL1	Probable aminopeptidase NPEPL1 (EC 3.4.11.1)
8	I11	+ FSEMLAASFIAVVAYALAVSVGKV	PEND	Pendrin (Sodium-independent chloride channel)
8	I12	IVSIIHGLDLGLLAGLIFGLLVVFL	PEND	Pendrin (Sodium-independent chloride channel)
8	I13	MIDTAARDTARVLIASALTLLVGII	PEND	Pendrin (Sodium-independent chloride channel)
8	I14	QESTGGKTVAGHISAIVMIAILA	PEND	Pendrin (Sodium-independent chloride channel)
8	I15	+ RHKIPVPIIEVIVTIATAISYGA	PEND	Pendrin (Sodium-independent chloride channel)
8	I16	TNSQSPSPSSSIAYSLLSASSEQD	PER1	Period circadian protein 1 (Circadian)
8	I17	LEPLTEEQAAAVVTAFTKEASKK	PERQ	PERQ amino acid rich with GYF domain protein
8	J01	+ ELLSKYIGASEQAVRDFIRAAQAAK	PEX1	Peroxisome biogenesis factor 1 (Peroxisome)
8	J02	+ GPGPPQLLVSRALLRLLALGSGAWV	PEX6	Peroxisome assembly factor-2 (PAF-2) (Peroxisome)
8	J03	VRAVPARAPAVDLLEEAADLLVVHL	PEXQ	Peroxisome assembly protein 26 (Peroxisome)
8	J04	HGPWKGAKAQAQLVIALPSVLINI	PGBM	Basement membrane-specific heparan sulfate
8	J05	PQARSERTDIATLLIPAITTADAGF	PGBM	Basement membrane-specific heparan sulfate
8	J06	ALLTGGGEMLLNVALVALVLLGAYR	PGC2	Membrane associated progesterone receptor
8	J07	GTPTSPSGVEEWIVTQVVPGVAAVP	PGCA	Aggrecan core protein precursor (Cartilage)
8	J08	GVEDISGLPSGEVLETAAPGVEDIS	PGCA	Aggrecan core protein precursor (Cartilage)
8	J09	THPEAVGDASLTVVKKLASDAGLYR	PGCV	Versican core protein precursor (Large)
8	J10	TTLPEATEKSHFFLATALVTESIPA	PGCV	Versican core protein precursor (Large)
8	J11	IANGLTLLIEDDALNGAIMKITTTSK	PGDH	15-hydroxyprostaglandin dehydrogenase
8	J12	HSLPFKVVVISAILALVVLTISLI	PGDR	Beta platelet-derived growth factor receptor
8	J13	KLVAPTLRSELTVAADVLLVIVI	PGDS	Alpha platelet-derived growth factor receptor
8	J14	KINQDPQVMLAPLISIALKVSQLE	PGMU	Phosphoglucomutase (EC 5.4.2.2) (Glucose)
8	J15	KVFQSSANYAENFIQSIISTVEPAQ	PGMU	Phosphoglucomutase (EC 5.4.2.2) (Glucose)
8	J16	+ EFFTLDKRLPALNTIHKILRHHI	PH4H	Phenylalanine-4-hydroxylase (EC 1.14.1.1)
8	J17	+ FESIGKFLGALAVAGGVVNSALYV	PHB	Prohibitin.
8	K01	+ MDRSSKRRQVKPLAASLLEALDYDS	PHFE	PHD finger protein 14.
8	K02	+ TVTWNKYGKSYVALYLVRQLTSS	PIA4	Protein inhibitor of activated STAT protein
8	K03	GERFIKWDETTVAVSPVILRVDPKG	PIB2	1-phosphatidylinositol-4,5-bisphosphate
8	K04	TTDIFKKAIEAIAESAFKTSYPPI	PIB2	1-phosphatidylinositol-4,5-bisphosphate
8	K05	GFTMTTEVPLRDVLEAIAETAFKTS	PIB3	1-phosphatidylinositol-4,5-bisphosphate
8	K06	+ TTAKRRLKQSVHLARRVLQLEKQNS	PIBF	Progesterone-induced blocking factor 1
8	K07	PFHFQISNPEFAFLRFVYEEEDMFS	PIG1	1-phosphatidylinositol-4,5-bisphosphate
8	K08	REIEEPYFFLDEFVTFVLFKSKENSVW	PIG1	1-phosphatidylinositol-4,5-bisphosphate
8	K09	+ RETAEPFLVDFEFLTYLFSRENSIW	PIG2	1-phosphatidylinositol-4,5-bisphosphate
8	K10	+ LVSTLPLGLVLAAGAVGVARAR	PIGR	Polymeric-immunoglobulin receptor precursor
8	K11	VNESTIPRSPVTVKGVAGSSAVL	PIGR	Polymeric-immunoglobulin receptor precursor
8	K12	+ EVARGKRAALFFAAVAIVLGLPLWW	PIGS	GPI transamidase component PIG-S (Phosphatidylinositol)
8	K13	PDDQKFAIYIPLFLPMAVPIILLSLV	PIGS	GPI transamidase component PIG-S (Phosphatidylinositol)
8	K14	QVAQAMSLTEDVLAALADHLPEDK	PIGS	GPI transamidase component PIG-S (Phosphatidylinositol)
8	K15	VANPPASKESIDALPEILVTEHDGA	PJA1	Ubiquitin protein ligase Praja1 (EC 6.3.1.1)
8	K16	ASPAGHLARSLHVLVFLVLEVLVREP	PKD1	Polycystin 1 precursor (Autosomal dominant)
8	K17	+ FTSFDQVAQLSSAARGLAASLLFLL	PKD1	Polycystin 1 precursor (Autosomal dominant)
8	L01	+ GAWARWLLVALTAATLVRALQALGA	PKD1	Polycystin 1 precursor (Autosomal dominant)
8	L02	HVSRLSPLSVDTVAAGLVSSVVVYP	PKD1	Polycystin 1 precursor (Autosomal dominant)
8	L03	+ LHAAVTLRLEFFPAAGRALAALSVRP	PKD1	Polycystin 1 precursor (Autosomal dominant)
8	L04	NHVSWAQAQVRIVVLEAVSGLQMPN	PKD1	Polycystin 1 precursor (Autosomal dominant)
8	L05	+ RMVASQAYNLTALMRILMRSRVLN	PKD1	Polycystin 1 precursor (Autosomal dominant)
8	L06	TYAAPGEYLLTVLASNAFENLTQQV	PKD1	Polycystin 1 precursor (Autosomal dominant)
8	L07	VSAATNLTAEEPIVGLVWASSKV	PKD1	Polycystin 1 precursor (Autosomal dominant)
8	L08	+ ESSTNREKYLKSVLRELVTYLLFLI	PKD2	Polycystin 2 (Autosomal dominant polycystic)
8	L09	MTAWLISLMSIEVLLAVRTHLSLHI	PKHD	Polycystic kidney and hepatic disease
8	L10	TPELISISQSDDILTFAVAQISGAA	PKHD	Polycystic kidney and hepatic disease
8	L11	ALVRMLSSPVESVLFYAITTLHNLL	PLAK	Junction plakoglobin (Desmoplakin III)
8	L12	+ LLHSRNEGATYAAAVLFRISEDKN	PLAK	Junction plakoglobin (Desmoplakin III)

Bl.	Pos.	Sequence	SP-ID	Description
8	L13	SDVATKQEGLESVLKILVNQLSVDD	PLAK	Junction plakoglobin (Desmoplakin III)...
8	L14	EGLIEDLTIEDKAVEQLAEGLLSHY	PLDN	Pallidin (Pallid protein homolog) (Syn...
8	L15	QSVLDRRLRGEAEAARRAAEEAEAR	PLE1	Plectin 1 (PLTN) (PCN) (Hemidesmosomal...
8	L16	+ RQFRTRGKVTVEKVIKILITVEEVE	PLE1	Plectin 1 (PLTN) (PCN).
8	L17	+ RQFRTRGKVTVEKVIKILITVEEVE	PLE1	Plectin 1 (PLTN) (PCN) (Hemidesmosomal...
8	M01	SGLRSPVPASELLASGVLRSRQFEQ	PLE1	Plectin 1 (PLTN) (PCN) (Hemidesmosomal...
8	M02	+ GPGPRFLLPLLLPAAASDRPR	PLO3	Procollagen-lysine,2-oxoglutarate 5-di...
8	M03	DKSISTSLPVLIDLAIAPNAVRQE	PLSI	I-plastin (Intestine-specific plastin)...
8	M04	+ DILKPGGGTSGLLGGLLGKVTSVI	PLUN	Protein Plunc precursor (Palate lung a...
8	M05	+ VLRGLDITLVHDIVNMLIHGLQFVI	PLUN	Protein Plunc precursor (Palate lung a...
8	M06	+ LGQVPLIVGILLVLMMAVVLASLIYR	PM17	Melanocyte protein Pmel 17 precursor (...)
8	M07	MLVGGAGPLGPAVVTAAVVLLLSG	PM5P	Protein pM5 precursor.
8	M08	GPPEMPAEMLNILDNVIQPLVESI	PMA1	Paraneoplastic antigen Mal homolog.
8	M09	PAATVRLSSSQITSVVSVVKELI	PMS1	PMS1 protein homolog 1 (DNA mismatch r...
8	M10	+ PDKRQILLQEEKLLAVLKTSLIGM	PMS2	PMS1 protein homolog 2 (DNA mismatch r...
8	M11	+ GLNPSLMAFSQFAAGGALLSLNPGT	PO21	POU domain, class 2, transcription fac...
8	M12	+ ITLGYTQADVGLILGVLFVFGKVFQK	PO5L	POU domain, class 5, transcription fac...
8	M13	+ ITLGYTQADVGLILGVLFVFGKVFQK	PO5M	POU domain, class 5, transcription fac...
8	M14	+ LFSKYTNSKIPYFLLFLFLITVYH	PP3A	Protein phosphatase 1, regulatory subu...
8	M15	+ DFVDRGFYSVETFLLLALKVRYPD	PP4C	Serine/threonine protein phosphatase 4...
8	M16	+ LLLARAASLSLGFLLFFWLDVRSV	PPAP	Prostatic acid phosphatase precursor (...)
8	M17	+ LVQIHKTESDAALHPLLEIYRDM	PPAR	Peroxisome proliferator activated rece...
8	N01	DAAHGPRSVVALLPPLLGLTLLLE	PPB1	Alkaline phosphatase, placental type p...
8	N02	DAAHGPRSVVALLPPLLGLTLLLE	PPBN	Alkaline phosphatase, placental-like p...
8	N03	FTTLADYLHLLQAAAQALNPLGPSA	PPCS	Phosphopantothenate-cysteine ligase (...)
8	N04	+ QTWLSALRPSGPAALSGLLSLEAEEN	PPCS	Phosphopantothenate-cysteine ligase (...)
8	N05	EKHRGFVFEFELAEDAAAIDNMN	PPIE	Peptidyl-prolyl cis-trans isomerase E...
8	N06	+ SMEGVTFQLAKQIALHALSVGKQ	PPO4	Poly [ADP-ribose] polymerase-4 (EC 2.4...
8	N07	RLPAWVLLLLPFLPLLLAAPH	PPT2	Palmitoyl-protein thioesterase 2 precu...
8	N08	IRPKPSSATSIKALQDEWDAV	PR19	PRP19/PSO4 homolog (Neuronal different...
8	N09	EEEEAVAPTSQPALGGLFASLPAPK	PRCC	Proline-rich protein PRCC (Papillary r...
8	N10	+ VVGTTTTTPSPAIAAKSAALQV	PRCC	Proline-rich protein PRCC (Papillary r...
8	N11	DTSLFHLVYVDAIAIAIVGFSVTIS	PRES	Prestin.
8	N12	LATGFLFESLPQAVLSAIVVNLKG	PRES	Prestin.
8	N13	+ NDLTRNRFFENPALWELLFHSIHDA	PRES	Prestin.
8	N14	TSKIELTIWLTTFVSSLFGLDYGL	PRES	Prestin.
8	N15	ILTSRPGTSEFALAIVEALNGKE	PRK7	DJ-1 protein (Oncogene DJ1).
8	N16	SEDPKYIINVKQFAKVVVLDSDQVA	PRST	26S protease regulatory subunit 7 (MSS...
8	N17	SEKIKVNTLPLVLSNVIELLDVDP	PRSA	26S protease regulatory subunit 6A (TA...
8	O01	GVTLEYNPYSWNLIANVLYLESPAG	PRTP	Lysosomal protective protein precursor...
8	O02	SVEELESISIKIAKEAVMDINKPG	PRTS	Vitamin K-dependent protein S precurs...
8	O03	+ PPSGIHLSASRTLAPTLLYSSPPSH	PS11	Psoriasis susceptibility 1 candidate g...
8	O04	IERVLGATLLPDLIQKVLTFALSEE	PSA	Puromycin-sensitive aminopeptidase (EC...
8	O05	LSHTDYFEEIQEFVKDFVSPIGERL	PSA	Puromycin-sensitive aminopeptidase (EC...
8	O06	+ KRLFNVDHRHGMVAVAGLLADARSLA	PSA3	Proteasome subunit alpha type 3 (EC 3.
8	O07	+ RSNFGYNIPLKHLADRVAMYVHAYT	PSA3	Proteasome subunit alpha type 3 (EC 3.
8	O08	GAHALQPAAILALLPALGLLLWGP	PSCA	Prostate stem cell antigen precursor.
8	O09	+ VLYDEGFRSRQFAALVASKVVFYHL	PSD1	26S proteasome non-ATPase regulatory s...
8	O10	GLNHLGKGEAIEAIALAEVVFSEPF	PSD2	26S proteasome non-ATPase regulatory s...
8	O11	+ HLLRYGEPTRLRRVPLALALISVSN	PSD2	26S proteasome non-ATPase regulatory s...
8	O12	PYHSRQLMSQVAVAGLLTVLVSFL	PSD2	26S proteasome non-ATPase regulatory s...
8	O13	VARLEAPLEELRALHSVLQAVPLNE	PSD5	26S proteasome non-ATPase regulatory s...
8	O14	DTEVVGQRALHSILNAAIMSVIVV	PSN1	Presenilin 1 (PS-1) (S182 protein).
8	O15	DTPSVGQRLNLSVLTLMISVIVV	PSN2	Presenilin 2 (PS-2).
8	O16	LRDPLPDLDDKLVLPVLPALQAR	PSPB	Pulmonary surfactant-associated protei...
8	O17	ELPPSYTPPARTAAPQILAGSLKAP	PTC2	Patched protein homolog 2 (PTC2).
9	B01	FAPLLLQSHAKAIVLVLFGALLGLS	PTC2	Patched protein homolog 2 (PTC2).
9	B02	+ GYGHMWSQNATNLVSSLLTLKQLE	PTN5	Tyrosine-protein phosphatase, non-rece...
9	B03	WPDHQTPEASGPLRLVAEEVESPE	PTN7	Tyrosine-protein phosphatase, non-rece...
9	B04	ENHLEDFELEVELLITLIKSEKGS	PTND	Tyrosine-protein phosphatase, non-rece...
9	B05	VNSVSLGVSHHAAIEILQNAPEVD	PTND	Tyrosine-protein phosphatase, non-rece...
9	B06	PEMLWVTGPVLAIVLILVIAILL	PTPF	Receptor-type tyrosine-protein phosph...
9	B07	DRVVKIAGISAGILVFILLLLVIL	PTPK	Receptor-type tyrosine-protein phosph...
9	B08	EKQTDHTVKIAGVIAGILFVIFL	PTPM	Receptor-type tyrosine-protein phosph...
9	B09	MNPNVVVISVLAISTLIGLLVLT	PTPO	Receptor-type tyrosine-protein phosph...
9	B10	PPAEGDDRFSESILTYVAHTSALTY	PTPX	Receptor-type tyrosine-protein phosph...
9	B11	IGLAEGLESEKKAVIPLVIVSALTF	PTPZ	Receptor-type tyrosine-protein phosph...
9	B12	LQPSFQASDVDTLLKTVLPAVPSDP	PTPZ	Receptor-type tyrosine-protein phosph...
9	B13	PSDETPHIVMVALSLLVIVFHII	PTRA	Receptor-type tyrosine-protein phosph...
9	B14	GAEAQRPEEAGRALAAVLEELRQTR	PTX3	Pentaxin-related protein PTX3 precurs...
9	B15	HQQQQQQQEETAATLLQGEEEGE	PUR	Transcriptional activator protein PUR...
9	B16	KIEFVVVGPPEAPLAAGIVGNLRSAG	PUR2	Trifunctional purine biosynthetic prot...
9	B17	LRDIQKHKEAWVIGSVVARAEGSP	PUR2	Trifunctional purine biosynthetic prot...
9	C01	+ KSLDDPKVAARLVAEALTNLVFAL	PUR4	Phosphoribosylformylglycinamide synt...
9	C02	GPPSEHSGISRNAIFLVLGILVFL	PVR	Poliovirus receptor precursor (CD155 a...
9	C03	RAGPVPTAIIGGVAGSILLVIVVG	PVR1	Poliovirus receptor related protein 1...
9	C04	AGAGATGGIIGGIIAIIATAVAAT	PVR2	Poliovirus receptor related protein 2...

Bl.	Pos.	Sequence	SP-ID	Description
9	C05	AILMALRLNESKLVQEALEAVPRGE	PWP2	Periodic tryptophan protein 2 homolog.
9	C06	+ AQVGLGVGTSLALGVIIIVLMYRR	PXB1	Plexin B1 precursor (Semaphorin recept...
9	C07	+ TRLLSMKGTQKQFVDDLFQVILSTS	PXB1	Plexin B1 precursor.
9	C08	AQAGVGMGAAVLIAAVLLTLMYRHR	PXB3	Plexin B3 precursor.
9	C09	LTQLSNLLNSKFLFLTLIHTLEEQP	PXB3	Plexin B3 precursor (Plexin 6).
9	C10	+ LVVPLPGRDLLLVARGLAGKLSAGV	PXB3	Plexin B3 precursor (Plexin 6).
9	C11	QAILSVNRPPIAVKYLFDLDELA	PXB3	Plexin B3 precursor.
9	C12	FVSKTLGVDLVALATRVIMGEEVEP	PYR1	CAD protein [Includes: Glutamine-depen...
9	C13	LASKATGYPLAYVAAKLAGIPLPE	PYR1	CAD protein [Includes: Glutamine-depen...
9	C14	NVKESARASFSVLGDILGSAMQNI	PZP	Pregnancy zone protein precursor.
9	C15	VPSSGSSGREEDAASLTVTGSEYET	R23A	UV excision repair protein RAD23 homol...
9	C16	ETSAATGQNVKAVETLLDLIMKRM	R27B	Ras-related protein Rab-27B (C25KG).
9	C17	+ GELSARQMHLARFLRMLRLADEFG	RA51	DNA repair protein RAD51 homolog 1.
9	D01	NIKGISEAKADKILAEAAKLVPMGF	RA51	DNA repair protein RAD51 homolog 1 (hR...
9	D02	+ IDLVSKLLYSRGLLDLIDLIKSNSVR	RAE1	Rab proteins geranylgeranyltransferase...
9	D03	+ IDLVSKLLYSQGLLDLIDLIKSNSVR	RAE2	Rab proteins geranylgeranyltransferase...
9	D04	AENNIEMVGESQAQAKVIVSVEDAVP	RAI2	Retinoic acid-induced protein 2.
9	D05	ITTEAWNINSTDLVKKALVTPAPS	RAI2	Retinoic acid-induced protein 2.
9	D06	ETSAANGTNISQAIEMLLDLIMKRM	RB27	Ras-related protein Rab-27A (Rab-27) (...)
9	D07	+ ETSAKDNINIEEAARFLVEKILVNH	RB32	Ras-related protein Rab-32.
9	D08	+ AIFTGHSVVEDVAWHLLHESLFGS	RBB7	Histone acetyltransferase type B subun...
9	D09	TSSYTPDKSSFNLATVVAETLGLGV	RBB8	Retinoblastoma-binding protein 8 (RBBP...
9	D10	ASNEGSRISAASVASTAIAAAQWAI	RBMA	RNA-binding protein 10 (RNA binding mo...
9	D11	+ EHPAIRTLSARAAAFAVLANENNIA	RBP6	Ran-binding protein 6 (RanBP6).
9	D12	ILGKDFQYPLVIEPLIKTASAKP	RBP6	Ran-binding protein 6 (RanBP6).
9	D13	LIRNGTKLALEQLVTTIASVADTIE	RBP6	Ran-binding protein 6 (RanBP6).
9	D14	PYYDIFMPSLKHIVELAVQKELKLL	RBP6	Ran-binding protein 6 (RanBP6).
9	D15	+ MARGGRGRRRLGLALGLLALVLAAPR	RCN1	Reticulocalbin 1 precursor.
9	D16	VLPPLELLSLEAVHRAVALELQAN	REC8	Meiotic recombination protein REC8-lik...
9	D17	NGGTISKNEVLEIVMAIFKMITPED	RECO	Recoverin (Cancer associated retinopat...
9	E01	DTLSYSSYKVPVSLVSVINPELQTP	RELN	Reelin precursor (EC 3.4.21.-).
9	E02	+ FEYLRALDVNVALRKIANLLKPKDK	RET1	Retinol-binding protein I, cellular (C...
9	E03	+ MEDYLQALNISLAVRKIALLLKPKDK	RET5	Retinol-binding protein III, cellular...
9	E04	SGVPHPAALAPAAAPTLPASVAAA	RFXA	Regulatory factor X-associated protein...
9	E05	DIINFNFDFSDHLAEELWELSLKI	RGE1	Rap guanine nucleotide exchange factor...
9	E06	KVLEMLPGSASKVLEAILPLVQNDP	RGE1	Rap guanine nucleotide exchange factor...
9	E07	KDLPPFGINSPQALKKILSLEEGS	RGE2	Rap guanine nucleotide exchange factor...
9	E08	TIRVPVATSVKEVISAVADKLGSGE	RGE4	RAP guanine-nucleotide-exchange factor...
9	E09	+ HSYSVSKAKVSSIAQEILKVVAEKI	RGE5	Rap guanine nucleotide exchange factor...
9	E10	DDPADPTDVLVFLADHLAEQLTLLD	RGL2	Ral guanine nucleotide dissociation st...
9	E11	SSVFKDEATVRMAVQDAVDALMQKA	RGP1	Ran GTPase-activating protein 1.
9	E12	GKEHFNYSLDTALGHLVFSLKDYDV	RGP2	Rap1 GTPase-activating protein 1 (Rap1...
9	E13	KELATNPEEAGKFVFEIIPASWDQN	RH25	Rho-GTPase-activating protein 25.
9	E14	SVAGFVWFSVAAVVLSLARSLHAV	RH26	Rho-GTPase-activating protein 26 (Olig...
9	E15	RFTFPLMAIVLEIAMIVLFGFLVEY	RHAG	Rhesus blood group-associated glycopro...
9	E16	QQSRESAALSEVLAGPLAQRSLSHIA	RHG4	Rho-GTPase-activating protein 4 (Rho-G...
9	E17	+ RLLWRLPAPVVLVRLYFLTFNLHLA	RHG4	Rho-GTPase-activating protein 4 (Rho-G...
9	F01	+ PKPVVPKTNVKALVPLNLRRAIEAGI	RHG5	Rho-GTPase-activating protein 5 (p190...
9	F02	+ YPRKFNETQIKQALRGVLESVKHNL	RHG5	Rho-GTPase-activating protein 5 (p190...
9	F03	TFNKVLMQLPELLVAAFYILFFTV	RIB1	Dolichyl-diphosphooligosaccharide-pr...
9	F04	+ KKNFESLSEAFSVASAAVLSHNRV	RIB2	Dolichyl-diphosphooligosaccharide-pr...
9	F05	TGSGEPGGTLGYLAPELFPVNVNRKA	RIK3	Receptor-interacting serine/threonine...
9	F06	KSYLELQSTELKALVDPALHSEEELE	RIN3	Ras and Rab interactor 3 (Ras interact...
9	F07	+ VSTTVAKAMAREAAQRVAESSRLEK	RIP2	RIM binding protein 2 (RIM-BP2).
9	F08	IGDKEATYGERVVAFVAVEGIFFSG	RIR2	Ribonucleoside-diphosphate reductase M...
9	F09	LVHKPSEERVREIINAVRIEQEFL	RIR2	Ribonucleoside-diphosphate reductase M...
9	F10	LLEDKGLAEVSKVAEQVLNAVNGKL	RISC	Retinoid-inducible serine carboxypepti...
9	F11	LEDPPDEVLIPLIVPVVLTVMAMG	RMP3	Receptor activity-modifying protein 3...
9	F12	QQYQEQLDKSTKLIVETAIQSLDEPG	RN28	RING finger protein 28 (Muscle specifi...
9	F13	EKASELSQVELQAAPGALPVSSPEP	RN29	RING finger protein 29 (Muscle specifi...
9	F14	VPLQWLRLSELPPVLEMVAVLAGQQD	RN31	RING finger protein 31 (Zinc in-betwee...
9	F15	+ DPVLRKKNGATPFILAAIAGSVKLL	RN5A	2-5A-dependent ribonuclease (EC 3.1.26...
9	F16	HRGEDVENEDEEFARNVLSIFKAV	RN5A	2-5A-dependent ribonuclease (EC 3.1.26...
9	F17	LSISADIEITIGEILKKIIPLEEGL	ROK	Heterogeneous nuclear ribonucleoprotei...
9	G01	LQDLAGTLGSMVAVTFLQALVLLG	ROM1	ROD outer segment membrane protein 1 (...)
9	G02	VAGTAGGGGLLVVALGLALALPGSL	ROM1	ROD outer segment membrane protein 1 (...)
9	G03	KSALEPPDFVHLVAQIAAGMEYLSS	ROR2	Tyrosine-protein kinase transmembrane...
9	G04	+ AHKATNKSSSETLALLEILKHIAITE	RP1	Oxygen-regulated protein 1 (Retinitis...
9	G05	DHMSFIINLEPPVLMYVLTISISEGL	RP17	Ran-binding protein 17.
9	G06	+ LNYVASQPKLAPFVIQALIQVIAKI	RP17	Ran-binding protein 17.
9	G07	+ YGDNHFDNVLQAFVKMLLSVSHSDL	RP17	Ran-binding protein 17.
9	G08	NSLEFDMVGIDAIAANAFRRILLAE	RPA5	DNA-directed RNA polymerase I 40 kDa p...
9	G09	TNLIKQHKQEVELLQNAATISQPPD	RPG1	X-linked retinitis pigmentosa GTPase r...
9	G10	GASEGYDLQEDQALGSLAPTEAVGR	RPL1	Retinitis pigmentosa 1-like 1 protein.
9	G11	+ WVSVLKKKTEKAFLAHLASAVAEARL	RPL1	Retinitis pigmentosa 1-like 1 protein.
9	G12	MDARLHEDHLERVLEAAQAARDVH	RR41	Exosome complex exonuclease RRP41 (EC...
9	G13	GPPGEEAQVASQFIADVIENSQIIQ	RR43	Exosome complex exonuclease RRP43 (EC...

Bl.	Pos.	Sequence	SP-ID	Description
9	G14	DVDEYMQAQLLLAALNIATHVLKPG	RRM1	Putative ribosomal RNA methyltransfera...
9	G15	GIAAGGVMDVNTALQEVLTALIH	RS12	40S ribosomal protein S12.
9	G16	EDVNTNLTHLLNLSELVEKIFMAS	RSG1	Ras GTPase-activating protein 1 (GTPas...
9	G17	GAGLTGGGTAAGVAGAAAGVAGAAV	RSG1	Ras GTPase-activating protein 1 (GTPas...
9	H01 +	FMKLVGMPYLHEVLKPVISRVEEK	RSG4	RasGAP-activating-like protein 1.
9	H02 +	QHADPQTSRLLLLAKAVQSIGNLG	RSG4	RasGAP-activating-like protein 1.
9	H03 +	INLKRTWEKLLAARAIVAENPAD	RSSA	40S ribosomal protein SA (p40) (34/67...
9	H04	RDPEIEKEEQAAAEKAVTKEEFQG	RSSA	40S ribosomal protein SA (p40) (34/67...
9	H05	LLFSLTQFSVVSVVAYLALAALSAT	RTN1	Reticulon 1 (Neuroendocrine-specific p...
9	H06	SLKLALLFYILTFVGAIFNGLTLLI	RTN2	Reticulon protein 2 (Neuroendocrine-sp...
9	H07	EPEALMMEEEGMVIVGLLVGLNVLD	RUF1	RUN and FYVE domain containing protein...
9	H08	PIAEGQSEEGRAVSPAAGEEAPAA	RUS1	RUN and SH3 domain containing protein...
9	H09	SIDLLQKKGLVKAVNIAVDLIVAHF	RUS2	RUN and SH3 domain containing protein...
9	H10	SHVKGLGLDESLAKQAASGLVGQE	RUV1	RuvB-like 1 (EC 3.6.1.-) (49-kDa TATA...
9	H11 +	SQGMVQGQAARRAAGVVLEMIREGK	RUV2	RuvB-like 2 (EC 3.6.1.-) (p47 protein)...
9	H12	SQENLEDNDVSDILKLLALQAEENL	RWD1	RWD domain containing protein 1 (Small...
9	H13	ALRGEQSGLLAAIEEAIRISEDPA	RYR1	Ryanodine receptor 1 (Skeletal muscle...
9	H14	EEAAESWKEIVNLLYELLASLIRGN	RYR1	Ryanodine receptor 1 (Skeletal muscle...
9	H15 +	EQGKRNFASKAMSVAKQVFNLTLEYI	RYR1	Ryanodine receptor 1 (Skeletal muscle...
9	H16 +	IDEASWMKRLAVFAQPIVSRARPEL	RYR1	Ryanodine receptor 1 (Skeletal muscle...
9	H17 +	NYLSRNFYTLRFLALFLAFAINFIL	RYR1	Ryanodine receptor 1 (Skeletal muscle...
9	I01 +	QAGKGEALRIRAILRSLVPLEDLVG	RYR1	Ryanodine receptor 1 (Skeletal muscle...
9	I02	QFVPLKLVSTLLVMGIFGDEDEVKQ	RYR1	Ryanodine receptor 1 (Skeletal muscle...
9	I03	QNLTYYTTVALLPVLTTLFQHIAHQH	RYR1	Ryanodine receptor 1 (Skeletal muscle...
9	I04 +	RVRRLRRLTAREAAATAVAALLWAAV	RYR1	Ryanodine receptor 1 (Skeletal muscle...
9	I05 +	TAAAGATARVVAAGRALRGLSYRS	RYR1	Ryanodine receptor 1 (Skeletal muscle...
9	I06 +	VEKSPHEQEIKFFAKILLPLINQYF	RYR1	Ryanodine receptor 1 (Skeletal muscle...
9	I07	VFDTFFFFVIVILLAIHQGLIDA	RYR3	Ryanodine receptor 3 (Brain-type ryan...
9	I08 +	ARNFYNMRLALFVAFAINFILFY	RYR2	Ryanodine receptor 2 (Cardiac muscle-t...
9	I09 +	DTPSIEKRFAYSFLQQLIRYVDEAH	RYR2	Ryanodine receptor 2 (Cardiac muscle-t...
9	I10 +	EQGQRNFSKAIQVAKQVFNLTLEYI	RYR2	Ryanodine receptor 2 (Cardiac muscle-t...
9	I11 +	GFHFPPYEQEIKFFAKVVLPLIDQYF	RYR2	Ryanodine receptor 2 (Cardiac muscle-t...
9	I12	IFDITFFFFVIVILLAIHQGLIDA	RYR2	Ryanodine receptor 2 (Cardiac muscle-t...
9	I13	SDPEKTVERVLDIANVLFHLEQKSK	RYR2	Ryanodine receptor 2 (Cardiac muscle-t...
9	I14	TGLESVKSALRAFLDAAEDLEKTM	RYR2	Ryanodine receptor 2 (Cardiac muscle-t...
9	I15 +	EESGMAWKEILNLLYKLLAALIRGN	RYR3	Ryanodine receptor 3 (Brain-type ryan...
9	I16 +	HYLARNFYNLRFALFVAFAINFIL	RYR3	Ryanodine receptor 3 (Brain-type ryan...
9	I17	QNINYTTVALLPILTSIFEHVTQHQ	RYR3	Ryanodine receptor 3 (Brain-type ryan...
9	J01 +	QTGKGAIRIRSIILRSVPTEDLVG	RYR3	Ryanodine receptor 3 (Brain-type ryan...
9	J02	SEFWMLFVGLFQLLFTILGGIFQIL	RYR3	Ryanodine receptor 3 (Brain-type ryan...
9	J03 +	TEKSPRDQEKFFAKVLLPLVDQYF	RYR3	Ryanodine receptor 3 (Brain-type ryan...
9	J04 +	TLYQQARLHERGAAEMVLQMSASK	RYR3	Ryanodine receptor 3 (Brain-type ryan...
9	J05	IGLIFAFANAVAVAMYVVGFAETVV	S122	Solute carrier family 12 member 2 (Bum...
9	J06	VAGMEWEAKAQIVLLVILLAIAGDF	S122	Solute carrier family 12 member 2 (Bum...
9	J07	GTTFAAAMYILGAIEILLTYIAPPA	S124	Solute carrier family 12 member 4 (Ele...
9	J08	LYVVADIATSFTVLVGIFFPVSVTGI	S124	Solute carrier family 12 member 4 (Ele...
9	J09	HEVYENTSEIILILEYAAGGEIFSL	S17B	Serine/threonine-protein kinase 17B (E...
9	J10	LAEMVSENDVIRLIKQILEGVYYLH	S17B	Serine/threonine-protein kinase 17B (E...
9	J11	DSLLVNLYESKELIKDLLNALPNMF	S24B	Protein transport protein Sec24B (SEC2...
9	J12	VMQNVQPQKSSPVVSTVLSGSSGSS	S24B	Protein transport protein Sec24B (SEC2...
9	J13 +	FLSGQGLAGIFAALAMLLSMASGVD	S292	Equilibrative nucleoside transporter 2...
9	J14 +	SNSLAYNYMANGAVIHLALKERGGR	S3A1	Splicing factor 3 subunit 1 (Spliceoso...
9	J15	DELNFYQGESIEIIGFVIPGLQWFI	S3T2	SH3 domain and tetratricopeptide repea...
9	J16 +	LQLLSGHPASEAVASVLSFLYDKK	S3T2	SH3 domain and tetratricopeptide repea...
9	J17 +	QISLEGYEKALEFATLAARLSTVTG	S3T2	SH3 domain and tetratricopeptide repea...
9	K01	QLKDAHDATEYFLLALAAVLLGDE	S3T2	SH3 domain and tetratricopeptide repea...
9	K02	SQARVYFEEAIHILNGAFEDLSLVA	S3T2	SH3 domain and tetratricopeptide repea...
9	K03	PESVPIISVSLFAGVIAARIGLWS	S401	Solute carrier family 40, member 1 (Fe...
9	K04	EEYATGPAVLTVALIEAVAVSWFYG	S6A4	Sodium-dependent serotonin transporter...
9	K05	LVAIYNNMIIAYVLFYLFASLTSDL	S6A7	Sodium-dependent proline transporter (...
9	K06	YKNGGGVFLIPYVLIALVGGIPIFF	S6A8	Sodium- and chloride-dependent creatin...
9	K07	LGLDNQFVGVGEGFITGLLNLLPASY	S6AA	Sodium- and chloride-dependent creatin...
9	K08	VYFTATFPYVVVVVLLVGLVLLPGA	S6AA	Sodium- and chloride-dependent creatin...
9	K09	ERYLFFPNWAMALLITLIVVATLPI	S6AH	Orphan sodium- and chloride-dependent...
9	K10	HTSTLAAMKMLTALVNVALNLSIHQ	SA1	Cohesin subunit SA-1 (Stromal antigen...
9	K11	RIVSMTLDKEYDVAVEAIRLVTLIL	SA1	Cohesin subunit SA-1 (Stromal antigen...
9	K12 +	HTSTLAAMKMLTALVNVALNLSINM	SA2	Cohesin subunit SA-2 (Stromal antigen...
9	K13	RIVSMTLDKEYDVAVQAIKLLTLVL	SA2	Cohesin subunit SA-2 (Stromal antigen...
9	K14	KDQNLGDVQESTLIEILVSSARQAS	SA3	Cohesin subunit SA-3 (Stromal antigen...
9	K15	RMVSMIMDREYSVAVEAVRLLLIL	SA3	Cohesin subunit SA-3 (Stromal antigen...
9	K16	ADENTPPGSEGSASISGVAESSTR	SAL2	Sal-like protein 2 (Zinc finger protei...
9	K17	GTEEGMNILGLVLFALVGLGVALKK	SATT	Neutral amino acid transporter A (SATT...
9	L01	SSVGAAGVPAGGVLTIAIHLEAIGL	SATT	Neutral amino acid transporter A (SATT...
9	L02	VAYFGLTTLASASALAVLAFIHKPG	SATT	Neutral amino acid transporter A (SATT...
9	L03 +	APPVAAGVAVLAAGALLGLVAGAL	SBN1	Stabilin 1 precursor (FEEL-1 protein)...
9	L04	LQVLMSPSLTNFLTEVLAYSNSA	SBN2	Stabilin 2 precursor (FEEL-2 protein)...
9	L05	TGLGAGIFFAILVTGAVALAAYS	SBN2	Stabilin 2 precursor (FEEL-2 protein)...

Bl.	Pos.	Sequence	SP-ID	Description
9	L06	KVKGWLLPGVPLITDILLSLDDRF	SBP1	Selenium-binding protein 1.
9	L07	PREILFWLTVASVVLVIAATIAIA	SC31	Neutral and basic amino acid transport...
9	L08	DSGNTFFYFLTSFVGLVIVPATYYL	SC63	Translocation protein SEC63 homolog.
9	L09	WIVDQKNSILVLLVYGLAFMVILPV	SC63	Translocation protein SEC63 homolog.
9	L10	FQEFNYRTIEESAANNIVWLLSNLG	SCAB	Amiloride-sensitive sodium channel bet...
9	L11	+ DMVKSQWGLALAAVTVLSSLLMSV	SCAP	Sterol regulatory element binding prot...
9	L12	GMTGSRGLVLSGVLHKAFFVEVTEEG	SCC1	Squamous cell carcinoma antigen 1 (SCC...
9	L13	NNIFYSPISITSAALGMVLLGAKDNT	SCC2	Squamous cell carcinoma antigen 2 (SCC...
9	L14	+ GMTWSHGLSVSKVLHKAFFVEVTEEG	SCC2	Squamous cell carcinoma antigen 2 (SCC...
9	L15	SLFKRTEVLA AVIAGGVIGFLFAIF	SDC2	Syndecan-2 precursor (Fibroglycan) (He...
9	L16	ETTQPD TANEVVAVGGAAAKASSPP	SDC3	Syndecan-3 (SYND3).
9	L17	SILERKEVLVAVIVGVVGGALFAAF	SDC3	Syndecan-3 precursor (N-syndecan) (Neu...
9	M01	MAPARLEFALLFFVGGVAESIRETE	SDC4	Syndecan-4 precursor (Amphiglycan) (SY...
9	M02	NIFERTEVLAALIVGGIVGILFAV	SDC4	Syndecan-4 precursor (Amphiglycan) (SY...
9	M03	DRIVDFQFGSDEAAAYHLIELYDRG	SDG1	Serologically defined colon cancer ant...
9	M04	LLGPEWDLYLMTIIALLLGTVIAYR	SE1L	Sel-1 homolog precursor (Suppressor of...
9	M05	MASEKQVNLMLKLLDEALKEVDQIE	SEC3	Exocyst complex component Sec3 (BM-012...
9	M06	TMKETDREAVATAVQRVAGMLQRPD	SEC6	Exocyst complex component Sec6.
9	M07	KQLRFPKREEEEDFIRA AFGKSEVL	SEC8	Exocyst complex component Sec8 (rSec8)...
9	M08	AESKDDHRLNQFIAHAALDLVDEN	SEDL	Sedlin (Trafficking protein particle c...
9	M09	SIFGRGSTGVSVFVLYLLLVVVLP	SELI	Selenoprotein 1.
9	M10	+ AGKSGSGAGEITFLEALARSESKRD	SEN6	Sentrin-specific protease 6 (EC 3.4.22...
9	M11	VKTGENNWSLPELVHAVVLLAHYHA	SES3	Sestrin 3.
9	M12	FISAISRKLEDIANAALAASAVTQ	SFD1	Sec1 family domain containing protein...
9	M13	LPGHNDVMVNMIALTALHTEENY	SFD2	Sec1 family domain containing protein...
9	M14	SSINLTFHKSIAVDELFTSLRDIA	SFD2	Sec1 family domain containing protein...
9	M15	THQASYKPLKQVVEEIFHPERPDS	SFD2	Sec1 family domain containing protein...
9	M16	EAKTHWLGAAALSILPILFISGAEA	SG2	Secretogranin II precursor (SgII) (Chr...
9	M17	SQAHTLEDEVAEVLQKLSKEANNY	SG3	Secretogranin III precursor (SgIII) (U...
9	N01	PTEAPDRDFLDALV TLLVPLLVAL	SGCA	Alpha-sarcoglycan precursor (Alpha-SG)...
9	N02	SRDY YTDLFLITLAVPSAVALVFLI	SGCE	Epsilon-sarcoglycan precursor (Epsilon...
9	N03	+ ILQKYIERITRFAPMLVPYIWNQ	SGT1	SGT1 protein (hSGT1) (Suppressor of GC...
9	N04	+ DAQLDYHRQAVQILDELAEKLRMR	SH31	SH3-containing GRB2-like protein 1 (SH...
9	N05	NNNQTSVTPVPSVLPNAIGSSAMAS	SHB1	SH3 domain GRB2-like protein B1 (EC 2...
9	N06	LRPDES LTVSSPFAAAIAGAVRDRE	SHK2	SH3 and multiple ankyrin repeat domain...
9	N07	DIPIGYSGHETGIAISVAVALGAK	SIAS	Sialic acid synthase (N-acetylneuramin...
9	N08	SSENISGSGPLPPLASSLVNVSPTHN	SIX4	Homeobox protein SIX4 (Sine oculis hom...
9	N09	+ FKKDPPLAAVTTAVQELLRLAQAHP	SKIW	Helicase SKI2W (Helicase-like protein)...
9	N10	+ RGLGVHHSGLPILKEIVEMLF SRG	SKIW	Helicase SKI2W (Helicase-like protein)...
9	N11	DHIRNAADISVIVYFLVVMVAVGLW	SL54	Low affinity sodium-glucose cotranspor...
9	N12	KMRKQASEKELLIAGRIFVLLLTVV	SL54	Low affinity sodium-glucose cotranspor...
9	N13	SVIDVDMHISVIISALITLYTLV	SL57	High-affinity choline transporter 1 (S...
9	N14	SISVLPVGLLLV FVTSAFTVVGMLV	SLK1	SLIT and NTRK-like protein 1 precursor...
9	N15	VSLHMENGLHEIVPGAFLGLQLVK	SLK1	SLIT and NTRK-like protein 1 precursor...
9	N16	RSLTDAVPLSVLILGLLIMFITIV	SLK6	SLIT and NTRK-like protein 6 (Fragment...
9	N17	+ RRIDLSNNQIAEIAPDAFQGLRSLN	SLT1	Slit homolog 1 protein precursor (Slit...
9	O01	+ SSAGPVRPELWLLWAAAWRLGASA	SLT1	Slit homolog 1 protein precursor (Slit...
9	O02	ALGLDPWLLGLFLFQLLQLLPTT	SM4A	Semaphorin 4A precursor (Semaphorin B)...
9	O03	+ TVTLFALVLSGALILVASPLRALR	SM4A	Semaphorin 4A precursor (Semaphorin B)...
9	O04	+ PGGMNRKTQETAVAMHVAANSIQNR	SMF1	SWI/SNF-related, matrix-associated, ac...
9	O05	STLDFHANAARLLISPAAEVVEGQA	SN	Sialoadhesin precursor (Sialic acid bi...
9	O06	AGGERWQRVLLSLAEDVLTVPADG	SNA1	Alpha-1-syntrophin (59 kDa dystrophin...
9	O07	FKGLAADQTEALFVGDAILSVNGED	SNA1	Alpha-1-syntrophin (59 kDa dystrophin...
9	O08	DLAEKITGPLEEALAVAFSQVLTIA	SNC2	snRNA activating protein complex 45 kD...
9	O09	GRSPELSAESA VVLDLLMSLPEEL	SNC2	snRNA activating protein complex 45 kD...
9	O10	GDELAKLSSFKALV TLLSEVEKML	SNE1	Nesprin 1 (Nuclear envelope spectrin r...
9	O11	IDLMREYQNLKSAVSKVLENASSVI	SNE1	Nesprin 1 (Nuclear envelope spectrin r...
9	O12	RV MADLGLNERQVIQKALSDAQSHV	SNE1	Nesprin 1 (Nuclear envelope spectrin r...
9	O13	SERTAAPSSSGVIVTVAKEELKFF	SNE1	Nesprin 1 (Nuclear envelope spectrin r...
9	O14	+ TSTWLLDDVEERL FVATALLPEETET	SNE1	Nesprin 1 (Nuclear envelope spectrin r...
9	O15	ANISMSGNNLAEILPPALQDIKELQ	SNE2	Nesprin 2 (Nuclear envelope spectrin r...
9	O16	+ INSQLARHTSPSVISDLFTDIKKGH	SNE2	Nesprin 2 (Nuclear envelope spectrin r...
9	O17	MTLNTRMESLETALRLVLPVEKASL	SNE2	Nesprin 2 (Nuclear envelope spectrin r...
10	B01	VKKHLPKAHVKELISWLVGQEFELE	SNE2	Nesprin 2 (Nuclear envelope spectrin r...
10	B02	YTLVRQPHTILRVVSWLFSIVVFGS	SNG1	Synaptogyrin-1.
10	B03	IMDHSP TTVVTVIVILIAIALGA	SNN	Stannin.
10	B04	PKSYWSRHYVDLLAVVVPVAVPTVA	SNPH	Syntaphilin.
10	B05	LGSSDNTALSRLASQLAEVEEEKID	SNX1	Sorting nexin 1.
10	B06	LGNSDHTALSRLASQLAEVEEEKID	SNX2	Sorting nexin 2.
10	B07	+ QHVDQRRQGLDFLRKVLQNALLLS	SNXA	Sorting nexin 10.
10	B08	MRYFVREILARGILLPLINQLSDPD	SNXD	Sorting nexin 13 (RGS domain- and PHOX...
10	B09	GPTPAYLSQATELITQALRDEKAGA	SNXF	Sorting nexin 15.
10	B10	AAEKQALQSLMGVLPDLVVEILGVN	SNXJ	Sorting nexin 19.
10	B11	ISRLSDPDWIHLVLVGIFSKARDPA	SNXJ	Sorting nexin 19.
10	B12	GNINKSLVTLGNVISALADLSQDAA	SNXN	Kinesin-like motor protein C20orf23 (S...
10	B13	NYFALFEVISHSFVRKLPAPNEFPHK	SNXR	Sorting nexin 27.
10	B14	TVSPELKSVALGVFLLLRLGLFIP	SO31	Solute carrier organic anion transport...

Bl.	Pos.	Sequence	SP-ID	Description
10	B15	LPNEEIVQKIEEVLGSLDTELRYK	SON	SON protein.
10	B16	VPVVALEPSVPVLEPAVSVLQPSM	SON	SON protein (SON3) (Negative regulator...
10	B17	ERRKGNEDLEQIVETLFLNALNQL	SOR3	VPS10 domain-containing receptor SorCS...
10	C01	+ PDIPEWRKDIGNVIKRALVKVTSVP	SOR3	VPS10 domain-containing receptor SorCS...
10	C02	SSSAMLMLLSVVFVGLAVFLIYKFK	SOR3	VPS10 domain-containing receptor SorCS...
10	C03	DASATQAARSTDVAAVVVPILFLIL	SORL	Sortilin-related receptor precursor (S...
10	C04	EKPKELPEWSEKVAHNILSGASWVS	SP20	Spartin (Trans-activated by hepatitis...
10	C05	AARTPATLFFVIFITYVIAGVTGFI	SP3A	Atlantin (GTP-binding protein 3) (Guan...
10	C06	EIDDEFIKNLKILPWLSPESLDI	SP3A	Atlantin (GTP-binding protein 3) (Guan...
10	C07	IRYSGEYRELGAVIDQVAAALWDQG	SP3A	Atlantin (GTP-binding protein 3) (Guan...
10	C08	+ LQHRHRLPDLQAILRRILNEEETSP	SP90	SH3 adapter protein SPIN90 (NCK intera...
10	C09	RRLQGLEQDVLQAIIDRAIEAVHNTA	SP90	SH3 adapter protein SPIN90 (NCK intera...
10	C10	GLGGPASPVPVPPALPNAAVSILEEP	SPA1	Signal-induced proliferation-associate...
10	C11	+ HNNRRLQAESAAATRLLLASKQLG	SPA1	Signal-induced proliferation-associate...
10	C12	+ RAAPRPGAEQAAGSLVWGVRAAP	SPA1	Signal-induced proliferation-associate...
10	C13	HPLPNDRTFLGSLITAVADEEPEST	SPA5	Sperm associated antigen 5 (Astrin) (M...
10	C14	LTALSRHLEDNLSSLVILEVLSR	SPA5	Sperm associated antigen 5 (Astrin) (M...
10	C15	RGEHKNGVLEEAIATILKEVLEGL	SPAK	STE20/SPS1-related proline-alanine ric...
10	C16	NGNVFFSLSLFAALALVRLGAQD	SPB7	Megsin (TP55) (Serpine B7).
10	C17	KNVIGEGGISSAVMVLVNAVYFKG	SPB7	Megsin (TP55) (Serpine B7).
10	D01	+ RNVFFSPMSISSALAMVFMGAKGST	SPB8	Cytoplasmic antipeptidase 2 (CAP2) (C...
10	D02	+ QLAQKQAEAEKLLNNVSKLLPTN	SPC2	Short palate, lung and nasal epitheliu...
10	D03	+ SLLDKHSQIINKFVNSVINTLKSTV	SPC2	Short palate, lung and nasal epitheliu...
10	D04	TAQEGKITDLEHFAESLIADHEYAK	SPCA	Spectrin alpha chain, erythrocyte (Ery...
10	D05	VTEMKALINADELASDVAGAEALLD	SPCN	Spectrin alpha chain, brain (Spectrin...
10	D06	KALAVEGKRIGKVLDAIETEKMI	SPCO	Spectrin beta chain, brain 1 (Spectrin...
10	D07	KLESEHPDQAQAILSRALAEISDVWE	SPCO	Spectrin beta chain, brain 1 (Spectrin...
10	D08	KDEEMNGWLEAVASSVAEHAELAR	SPCQ	Spectrin beta chain, brain 3 (Spectrin...
10	D09	AQERQELASSEELAEADVAGAEQLLG	SPCR	Spectrin beta chain, brain 4 (Spectrin...
10	D10	GSSLSLFLDERMAAEKVASIALLDL	SPCR	Spectrin beta chain, brain 4 (Spectrin...
10	D11	+ IQSLTMYPRLLGGFVNMNLSRLIMKQ	SPK	Symplekin.
10	D12	+ VHPAISSINLTALGSLANIARQRP	SPK	Symplekin.
10	D13	+ PFYDPEGGSITQVARVIERIARKG	SPO1	Spondin 1 precursor (F-spondin).
10	D14	+ PLKLSRTPALLALPLAAALAFSD	SPO1	Spondin 1 precursor (F-spondin) (Vascu...
10	D15	RGEAWALMKEIEAAGEALQSVHEVF	SPO2	Spondin 2 precursor (Mindin) (Differen...
10	D16	HDTTGLTAKELEALDEVFTKVYKAK	SPUF	SPUF protein precursor (Secreted prote...
10	D17	+ MVGPAPRRRLRPLAALALVLAAPG	SPUF	SPUF protein precursor (Secreted prote...
10	E01	YGGEEEDQPIYLAVKGVVDFDVTSKG	SPUF	SPUF protein precursor (Secreted prote...
10	E02	QPANPTEEYQAALIAARTAKDID	SRB7	RNA polymerase II holoenzyme component...
10	E03	RLGLERGETAKEALDVIVSLLEEHG	SRN1	Secernin 1.
10	E04	+ RTGSFKIRGALNAVRSVLPDALERK	SRR	Serine racemase (EC 5.1.1.-).
10	E05	RGTWNGPWWVSTEVLAAGLVVLYYL	SSRD	Translocon-associated protein, delta s...
10	E06	+ KHGPGRWVLAAVLIGLLLVLLGIG	ST14	Suppressor of tumorigenicity 14 (EC 3...
10	E07	DEFFEQVEIRGFIDKIAENVVEVK	ST1A	Syntaxin-1A (Synaptotagmin associated...
10	E08	EPGLDETQIATILREILKGLDYLH	ST24	Serine/threonine-protein kinase 24 (EC...
10	E09	KPGPLEETYIATILREILKGLDYLH	ST25	Serine/threonine-protein kinase 25 (EC...
10	E10	LDNPQDRAQATQLLEGLVQELQKKA	ST5A	Signal transducer and activator of tra...
10	E11	+ SNRGLTKENLVFLAQKLFNNSSSHL	ST5B	Signal transducer and activator of tra...
10	E12	LDNPQENIKATQLLEGLVQELQKKA	ST5B	Signal transducer and activator of tra...
10	E13	+ DASKALLGRLLTLLIPELLPKLEEWK	STA2	Signal transducer and activator of tra...
10	E14	+ KGVDLRNAQVTELLQRLRHRAFVVE	STA2	Signal transducer and activator of tra...
10	E15	EAASNNETMATILLQNLILQLEQL	STA4	Signal transducer and activator of tra...
10	E16	MQRTHMLERVTFLIYNLFKNSFVVE	STA4	Signal transducer and activator of tra...
10	E17	SNPQNTIYDAKRFIGKIFTAEELAA	STCH	Microsomal stress 70 protein ATPase co...
10	F01	PAAALPPVPSPPAAPSVDNLLASS	STD1	SERTA domain-containing protein 1 (Tra...
10	F02	TASKMAPVSAADDLLKTLAPYSSQPV	STD2	SERTA domain-containing protein 2 (Tra...
10	F03	KSSEVYNWTVDEVVQWLITYVELPQ	STM1	Stromal interaction molecule 1 precurs...
10	F04	EEFNGYLYKAQGVIDDLVYSIIDHI	STR4	StAR-related lipid transfer protein 4...
10	F05	LLPKDQWLAQAATLLLPDENREV	STR8	StAR-related lipid transfer protein 8...
10	F06	DFLVHQAGVGLGVEVLLGALVPGG	STRC	Stereocilin precursor.
10	F07	GEVPAWPQELLWAVLPLPHLPLEN	STRC	Stereocilin precursor.
10	F08	LTPHLQAALAEALQNLAPKETPVS	STRC	Stereocilin precursor.
10	F09	+ PAAGLPGHARHVLRSVNVQSVQDG	STRC	Stereocilin precursor.
10	F10	QLAAKKAALVAGVVRPAEEDLPEPV	STRC	Stereocilin precursor.
10	F11	QLMDRLSNESIMLVVELVQRAPEQL	STRC	Stereocilin precursor.
10	F12	KYQSQAARKKLIIHVLVVLGILA	STX3	Syntaxin-3.
10	F13	QYQKKNRKMVLVILFVHIVLIV	STXF	Syntaxin-16 (Syn16).
10	F14	ARKKFSGLEISLIVLVVIVTIIAIA	SUIS	Sucrase-isomaltase, intestinal [Contai...
10	F15	RQYLTIYRLLPFLYTLFYKAHVFG	SUIS	Sucrase-isomaltase, intestinal [Contai...
10	F16	GAINTGILEVDQILVLLTTEMFVG	SVC1	Solute carrier family 23, member 1 (So...
10	F17	IREVQGAIMVSSVVEVIGLLGLPG	SVC1	Solute carrier family 23, member 1 (So...
10	G01	+ PDNTGRGVVLRRLRRAVRYAHEKL	SYA	Alanyl-tRNA synthetase (EC 6.1.1.7) (A...
10	G02	+ RRPIMSNHTATHILNFAALRSVLEGEA	SYA	Alanyl-tRNA synthetase (EC 6.1.1.7) (A...
10	G03	EEVKNEVMGEEKLAPEVADRIDGYV	SYH	Histidyl-tRNA synthetase (EC 6.1.1.21)...
10	G04	FETEMAAYRLYTVVPRLVKFDILT	SYI	Isoleucyl-tRNA synthetase, cytoplasmic...
10	G05	EADRQRAGTVTGLAVNIAALLSVML	SYM	Methionyl-tRNA synthetase (EC 6.1.1.10...
10	G06	+ FLAGETESLADIVLWALYPLLDQP	SYM	Methionyl-tRNA synthetase (EC 6.1.1.10...

Bl.	Pos.	Sequence	SP-ID	Description
10	G07	QWLEWEATELQPALSAALYYLVVQG	SYM	Methionyl-tRNA synthetase (EC 6.1.1.10...
10	G08	+ YHQLLEKVRIRDALRSILTISRHGN	SYM	Methionyl-tRNA synthetase (EC 6.1.1.10...
10	G09	SAEFFVTVAVFAFLYSLAATVVYIF	SYNP	Synaptoporin.
10	G10	YRENNRGLIDFIVTVVFSFLWLVG	SYNP	Synaptoporin.
10	G11	+ FLKGVLVFLEQALIQYALRTLGSRG	SYS	Seryl-tRNA synthetase (EC 6.1.1.11) (S...
10	G12	SFALRYLYGSDQLVVRILQALDLP	SYT3	Synaptotagmin-3 (Synaptotagmin III) (S...
10	G13	+ WVEGVYAAGALALLGIAAVSLWKLW	SYTC	Synaptotagmin-12 (Synaptotagmin XII) (...
10	G14	+ WLYLQDQNKAAADAVGEILLSLSYLP	SYTC	Synaptotagmin-12 (Synaptotagmin XII) (...
10	G15	TSGAMLTGELKKALIEVLQPLIAEH	SYW	Tryptophanyl-tRNA synthetase (EC 6.1.1...
10	G16	DRSSQRPGAEDNVLNEIVSILQPTQ	T10B	Tumor necrosis factor receptor superfa...
10	G17	ARIPKTLKFVIVVAVLLPVLAYSA	T10C	Tumor necrosis factor receptor superfa...
10	H01	GMLASPHYHLIIVLVILAVVVV	T10D	Tumor necrosis factor receptor superfa...
10	H02	+ TRPWLLDPKILKFVIVAVLLPVVR	T10D	Tumor necrosis factor receptor superfa...
10	H03	RSNVRVTVTATAVINLVVILILDE	T16B	Transmembrane protein 16B.
10	H04	+ TWKDRFPGYLMNFASILFMIALTFS	T16B	Transmembrane protein 16B.
10	H05	+ EVVKLHPHELNNLLSKVLIYLRSAN	T172	TBP-associated factor 172 (TAF-172) (T...
10	H06	NNNVLTIQASDLVTVFNEATSSF	T172	TBP-associated factor 172 (TAF-172) (T...
10	H07	VMEQLDVGIVPYIVLLVVPVLRGMS	T172	TBP-associated factor 172 (TAF-172) (T...
10	H08	+ YALAVRQDVINTLLPKVLTRIEGL	T172	TBP-associated factor 172 (TAF-172) (T...
10	H09	+ MADPDVLTVEPAAALKRLAKYVIRGF	T2EA	Transcription initiation factor IIE, a...
10	H10	+ FSQGMKYGVDTLTMLAMLLKVM	T3C3	General transcription factor 3C polype...
10	H11	EYEHNNRKMSSGLIVGSAFPGIKILP	T3C4	General transcription factor 3C polype...
10	H12	LSSDWQIATLALLGGAAHILIAFL	T410	Transmembrane 4 superfamily member 10.
10	H13	KFSLIYSTVFWLIGALVLSVGIYA	T415	Transmembrane 4 superfamily member 15...
10	H14	MAGILLGILLPQFLGVLTLTYITR	T415	Transmembrane 4 superfamily member 15...
10	H15	VERQKYKTLES AFLAPAAILLLGV	T415	Transmembrane 4 superfamily member 15...
10	H16	KYFLFGFNIVFVWLGALFLAIGLWA	T417	Transmembrane 4 superfamily member 17...
10	H17	IFGSEVGVSSSYVAVDILIAVGAH	T4S3	Transmembrane 4 superfamily member 3 (...
10	I01	DDYDHFEDVYTLIPAVVIIAVGAL	T4S8	Transmembrane 4 superfamily member 8 (...
10	I02	+ KLQEIMMHVIAALAFAAIQLLGM	T4S8	Transmembrane 4 superfamily member 8 (...
10	I03	WFSINSVVVFLSGILSMIIRT	T9S4	Transmembrane 9 superfamily protein me...
10	I04	TKLESRIKEELIAQGLESSEDRPA	TA3L	Transcriptional adapter 3-like (ADA3-1...
10	I05	+ DTEFAKQTSLDAVAQAVVDRVKRIH	TAB1	Mitogen-activated protein kinase kinas...
10	I06	LNAEHAADVRRVLLQAFDVVERSF	TAB1	Mitogen-activated protein kinase kinas...
10	I07	PLPLATREAAALPILEPVLGQEQPAA	TABP	182 kDa tankyrase 1-binding protein.
10	I08	+ LEFAIMRIEALKLARQIALASRSHQ	TAC2	Transforming acidic coiled-coil-contai...
10	I09	+ RANTHIRDFLQVFIYRLFWSKDRP	TAF1	Transcription initiation factor TFIID...
10	I10	REAEALRREAAGLLEAVAGAGAPG	TAF5	Transcription initiation factor TFIID...
10	I11	PDVGYVQGMFIAAVLILNLEEDA	TB12	TBC1 domain family member 12.
10	I12	+ DIERPTYTNLNRLLISQIVSSITASL	TBA8	Tubulin alpha-8 chain (Alpha-tubulin 8...
10	I13	TKELKSQKELVKILHKALEAAQKEK	TBC2	TBC1 domain family member 2 (Prostate...
10	I14	HFFVATFARERA AVEELLERAESVE	TBCC	Tubulin-specific chaperone C (Tubulin...
10	I15	SMGGGTGSGGLGTFLLKVLDEDFPEV	TBE	Tubulin epsilon chain (Epsilon tubulin...
10	I16	KVWLQYEWNVTDLIAILLFSVGMIL	TCM3	Transient receptor potential cation ch...
10	I17	RLMRKNSGLK VILGILLPPSILSL	TCM3	Transient receptor potential cation ch...
10	J01	FEPTIVKVKSLKFATEAAILLRID	TCPA	T-complex protein 1, alpha subunit (TC...
10	J02	+ QTHAGWREATKAAREALLSSAVDH	TCPB	T-complex protein 1, beta subunit (TCP...
10	J03	+ LDTYLGKYWAIKLATNAAVTVLRVD	TCPQ	T-complex protein 1, theta subunit (TC...
10	J04	TNIWFYFVGVGSFLFILIQLVLLID	TD2L	Tumor differentially expressed 2-like...
10	J05	YAGLFFFLLFYLLSIAAVALMFMY	TD2L	Tumor differentially expressed 2-like...
10	J06	+ NFGAFSINPAMMAAAQAALQSSWGM	TDBP	TAR DNA-binding protein-43 (TDP-43).
10	J07	LPPLDTSSLIGVFVEYIISPSQFYI	TDR5	Tudor domain containing protein 5.
10	J08	+ QKLYIPRSTATAALGAAARLATSRS	TDR5	Tudor domain containing protein 5.
10	J09	+ EEEEEKVSQPEVGAAIKIRQLMEKF	TE2I	Telomeric repeat binding factor 2 inte...
10	J10	GIPASPTHLAHNLLLPVAELEGKES	TEF	Thyrotroph embryonic factor.
10	J11	MMPAQYALTSSLVLLVLLSTARAGP	TENX	Tenascin X precursor (TN-X) (Hexabrach...
10	J12	GTAPAGTPGAPPLAGMAIVKEEETE	TF1B	Transcription intermediary factor 1-be...
10	J13	+ LSKKLIYFQLHRALKMIVDPVEPHG	TF1B	Transcription intermediary factor 1-be...
10	J14	ETNKRVEQEIKVAIFTLNEINKKG	TF1G	Transcription intermediary factor 1-ga...
10	J15	EKPQTKLLILHQAVSVILNLEQQVR	TFE2	Transcription factor E2-alpha (Immunog...
10	J16	+ GSRGTTAGSSGDALGKALASIYSPD	TFE2	Transcription factor E2-alpha (Immunog...
10	J17	KELIERPELNKVARAAAEEVAGQFV	TFR1	Transferrin receptor protein 1 (TfR1)...
10	K01	+ LPSIPAQPISADIASRLRKLKGPV	TFR2	Transferrin receptor protein 2 (TfR2).
10	K02	+ NLHKVLQGRPLPAVAQVAQLAGQLL	TFR2	Transferrin receptor protein 2 (TfR2).
10	K03	+ QRDAWGPAAKSAVGTAILLELVRT	TFR2	Transferrin receptor protein 2 (TfR2).
10	K04	NIGTNFEMSVVQLAKELIQLIKETN	TGDS	dTDP-D-glucose 4,6-dehydratase (EC 4.2...
10	K05	ALGEEKSSPEKILVNKIITLSYPSI	TGM5	Protein-glutamine gamma-glutamyltransf...
10	K06	ESSHFFAYLVTAAILVAVLYIAHNN	TGN2	Trans-Golgi network integral membrane...
10	K07	MRFVALVLLNVAAAGAVPLLATES	TGN2	Trans-Golgi network integral membrane...
10	K08	TLTVMGIAFAAFVIGALLTGALWYI	TGR3	TGF-beta receptor type III precursor (...
10	K09	+ EAFSHFTKIITPAITRVVDFAKKLP	THB2	Thyroid hormone receptor beta-2.
10	K10	LSSFNDDTEVALLQAVLLMSSDRP	THB2	Thyroid hormone receptor beta-2.
10	K11	GLTEDNGLKLSNA AHKAVLHIGEGK	THBG	Thyroxine-binding globulin precursor (...
10	K12	AIYNGGVEAVSTLLGAVAVFAGYI	THT1	Thiamine transporter 1 (THTR-1) (ThTr1...
10	K13	EITTFQLIYASYFALIAVVFASGA	THT1	Thiamine transporter 1 (THTR-1) (ThTr1...
10	K14	MERYALVFGVNTFIALALQTLTLTI	THT1	Thiamine transporter 1 (THTR-1) (ThTr1...
10	K15	RSATLVGFTVGSVLGQILVSVAGWS	THT1	Thiamine transporter 1 (THTR-1) (ThTr1...

Bl.	Pos.	Sequence	SP-ID	Description
10	K16	STWGEMLTSLFSLIIAAAVYIMDTV	THT1	Thiamine transporter 1 (THTR-1) (ThTr1...
10	K17	+ EGQSQQFVSVENLLKEAIRAIFPSR	THYG	Thyroglobulin precursor.
10	L01	+ PASLGKWKKEPELAAAFVKTAUVLV	TIAM	T-lymphoma invasion and metastasis ind...
10	L02	+ RLPSWALFSPLLAGLALLGVGPVP	TIP	T-cell immunomodulatory protein precu...
10	L03	AEDPETQVVVLINAVKDVAKALGDLI	TLN1	Talin 1.
10	L04	+ AIKKKLVQRLEHAAKQAAASATQTI	TLN1	Talin 1.
10	L05	DPEDPTVIAENELLGAAAIEAAAK	TLN1	Talin 1.
10	L06	DTDPHFQDALMQLAKAVASAAAALV	TLN1	Talin 1.
10	L07	EDEGGSGRPLLQAAKGLAGAVSELL	TLN1	Talin 1.
10	L08	EEQILEAAKSIAAATSALVKAASAA	TLN1	Talin 1.
10	L09	+ GQLLRGVGAAATAVTQALNELLQHV	TLN1	Talin 1.
10	L10	NAVKRASDNLVKAAQKAAAFEEQEN	TLN1	Talin 1.
10	L11	SRLNEAAAGLNQAATELVQASRGTP	TLN1	Talin 1.
10	L12	TEMLTAVQEISHLIEPLAHAARAEA	TLN1	Talin 1.
10	L13	DDEVGSGEDLLRAARTLAGAVSDLL	TLN2	Talin 2.
10	L14	DDVVVKTKFVGGIAQHIAAQEEMLK	TLN2	Talin 2.
10	L15	DPEDPTVIAETELLGAAASIEAAAK	TLN2	Talin 2.
10	L16	EEQILEAAKSIAAATSALVKSASAA	TLN2	Talin 2.
10	L17	EQLTSVVQEIGHLIDPIATAARGEA	TLN2	Talin 2.
10	M01	ETDERFQDVLMSLAKAVANAAAMLV	TLN2	Talin 2.
10	M02	LSVDPGAPNAKNLLAAARAVTESI	TLN2	Talin 2.
10	M03	+ QQLAAFskrvagavTELIQAAEAMK	TLN2	Talin 2.
10	M04	SDDPETQVVVLINAIKDVAKALSDLI	TLN2	Talin 2.
10	M05	+ SELLKQVSAASVVSQALHDLLQHV	TLN2	Talin 2.
10	M06	TQLASYFEPILAAVGVASKILDHQ	TLN2	Talin 2.
10	M07	NKTIIGVSVLSVLSVLSVAVLVYKF	TLR4	Toll-like receptor 4 precursor (hToll)...
10	M08	STLILTNPIQSLALGAFSGLSSLQ	TLR4	Toll-like receptor 4 precursor (hToll)...
10	M09	+ KVLNLAYNKINKIADEAFYGLDNLQ	TLR5	Toll-like receptor 5 precursor (Toll/i...
10	M10	LMDENMDVHIFILLEPVLQHSQYLR	TLR8	Toll-like receptor 8 precursor (UNQ249...
10	M11	GPSLGLAAGIPLLATALLVALLFT	TM10	Transmembrane protein 10.
10	M12	+ GREKFKSRGVGELARLALVISELEG	TM26	Tripartite motif protein 26 (Zinc fing...
10	M13	+ QGHQFLREREHLEQLAKLEQELT	TM26	Tripartite motif protein 26 (Zinc fing...
10	M14	MGQKTSLTQETELLESLLQVEHQJL	TM37	Tripartite motif protein 37.
10	M15	EMHEAQLGRAGAAASRLAEQAQSL	TM41	Tripartite motif protein 41.
10	M16	EAQLLSLKEKALLEEAFDNLKDEM	TMF1	TATA element modulatory factor (TMF).
10	M17	KNLSDRLGESQTLAAAVRERAAT	TMF1	TATA element modulatory factor (TMF).
10	N01	VRDPSQSSDAMYVVVPLGLVALLIV	TMG3	Transmembrane gamma-carboxyglutamic ac...
10	N02	MEAPAEALLAALPALATALALLLAWL	TMP1	Transmembrane anchor protein 1.
10	N03	+ LKISVPADADAVAQILSLLPLKF	TMS3	Transmembrane protease, serine 3 (EC 3...
10	N04	ETFRKVGIPHIALLSLASHIVVV	TMS4	Transmembrane protease, serine 4 (EC 3...
10	N05	IEHRRMLSPPEVVQALLVEELLST	TMS6	Transmembrane protease, serine 6 (EC 3...
10	N06	+ RKARGYLRLVPLFVLLALLVLASAG	TMS6	Transmembrane protease, serine 6 (EC 3...
10	N07	RPLEAPPERLRQALAVVAEQEREDR	TNI2	Tumor necrosis factor, alpha-induced p...
10	N08	TQHGSPATWLQPALPTLAEIIRLQD	TNI2	Tumor necrosis factor, alpha-induced p...
10	N09	APDKDFMIVALDLLSGLAEGLGNI	TNP1	Transportin 1 (Importin beta-2) (Karyo...
10	N10	QMGIEMQPYIPMVLHQLVEIINRPN	TNP1	Transportin 1 (Importin beta-2) (Karyo...
10	N11	APDKDFMIVALDLLTGLAEGLGHL	TNP2	Transportin 2 (Karyopherin beta-2b).
10	N12	DRAQALMDNIDTFIEHLFALAVDDDD	TNP2	Transportin 2 (Karyopherin beta-2b).
10	N13	QMGAEQPYVQMVVNNLVEIINRPN	TNP2	Transportin 2 (Karyopherin beta-2b).
10	N14	PEMSGTMLMLAVLLPLAFFLLATV	TNR3	Tumor necrosis factor receptor superfa...
10	N15	SSTGKPVLDAGPVLFVWVILVLLVVV	TNR8	Tumor necrosis factor receptor superfa...
10	N16	DDFGEFRMRVSDLVKDLIFLIGSME	TPO3	Transportin 3.
10	N17	GNPPWEVTEAVLFIMAAIAKSVDPK	TPO3	Transportin 3 (Transportin-SR) (TRN-SR...
10	O01	THIQNLKDLSPVIVTQLALAIADLA	TPO3	Transportin 3.
10	O02	VEKYSNDVTSPLFLEILTVPPEEV	TPO3	Transportin 3.
10	O03	TATETAWISLVTAHLVLGLSVALV	TPOR	Thrombopoietin receptor precursor (TPO...
10	O04	KERMKRLNEIVDAANAVISHIDQTA	TPP2	Tripeptidyl-peptidase II (EC 3.4.14.10...
10	O05	KPPNEPHVYLPGLIILLFASVALV	TR11	Tumor necrosis factor receptor superfa...
10	O06	GLSTVPDLLPLVLELLVGIYPSG	TR1A	Tumor necrosis factor receptor superfa...
10	O07	+ YAHPPQKVAVYRALQAALAESGGSP	TRAD	Tumor necrosis factor receptor type 1...
10	O08	SAEGDVHTLLIFLHRAAELLAWAD	TRE2	Three prime repair exonuclease 2 (EC 3...
10	O09	+ YVNYVLSEKSTFLMKAAAKVVESK	TRF1	Telomeric repeat binding factor 1 (TTA...
10	O10	+ AAPAPGAPLLPLLPALAAARLLPPA	TRFM	Melanotransferrin precursor (Melanoma...
10	O11	NENFTNKNVENELLRQAVTNLKERI	TRIA	Thyroid receptor interacting protein 1...
10	O12	+ THIKAPEQQVKNILNELFQRENRLV	TRIO	Triple functional domain protein (PTPR...
10	O13	+ PHMRKNIKGIHTLLQNLAKASPVYL	TRKB	BDNF/NT-3 growth factors receptor prec...
10	O14	LYGIYVNTMVVLLNMLIAMINSSY	TRP3	Short transient receptor potential cha...
10	O15	LSGLRQQTMAVKFLVVLAVAIGLPF	TRP6	Short transient receptor potential cha...
10	O16	LYGVYVNTMVIVLLNMLIAMINSSF	TRP6	Short transient receptor potential cha...
10	O17	IEKNSQLEQENLLKTLASPEQLAQ	TS22	Transforming growth factor beta 1 indu...
11	B01	LGVYQLRHFSISFLSSLLGTENASV	TS22	Transforming growth factor beta 1 indu...
11	B02	+ QHALRNRRLLRKVIKAAALEEHNA	TSC1	Hamartin (Tuberous sclerosis 1 protein...
11	B03	QGSQSTESLQQLDRALTSLVDEV	TSKS	Testis-specific serine kinase substrat...
11	B04	SSLTARWHQEEGAVQEALRLLGGLG	TSKS	Testis-specific serine kinase substrat...
11	B05	RFHEHWRFLVQLRVFLAAFVYVLET	TSN	Translin.
11	B06	ALVTFHFILLIFIAEVAAVVALV	TSN1	Tetraspanin 1 (Tspan-1) (Tetraspan NET...
11	B07	GQEEGQPPAEGLAAASVMAADRSL	TSY1	Testis-specific Y-encoded-like protein...

Bl.	Pos.	Sequence	SP-ID	Description
11	B08	HATSVAASRVEQALSEVASSLQSSA	TT7B	Tetrapicopeptide repeat protein 7B (T...
11	B09	+ KSDRLISLQASVVDLTLIALGRR	TT7B	Tetrapicopeptide repeat protein 7B (T...
11	B10	+ QMKAKRTKEAVEVLKALDAISHSD	TTC6	Tetrapicopeptide repeat protein 6 (TP...
11	B11	AMAKEYITTSAKLIAPVIETSFAG	TTCA	Tetrapicopeptide repeat protein 10 (T...
11	B12	SKVLAIRQQSFALLLHLAQTESGRS	TTCC	Tetrapicopeptide repeat protein 12 (T...
11	B13	LHNAKLWNDIVAVATMAVEIAPHFA	TTCH	Tetrapicopeptide repeat protein 17 (T...
11	B14	+ LARQINHPLEHMVLSNLAAVLMHRE	TTCJ	Tetrapicopeptide repeat protein 19 (T...
11	B15	SIMKDEPEAEELHDLRLAYQTD	TTCJ	Tetrapicopeptide repeat protein 19 (T...
11	B16	+ VAPHGRGPGPLPLLAALAWFSRPA	TTCJ	Tetrapicopeptide repeat protein 19 (T...
11	B17	VLDVARGSPAINVAVHVFRKAADDT	TTHY	Transthyretin precursor (Prealbumin) (...)
11	C01	QKISAEADVLENLVRIAIQNLVYGG	TUS4	Tumor suppressor candidate 4 (NPR2-lik...
11	C02	AASMETTEKLERILLQLGDADQEK	TX3A	Testis expressed protein 13A.
11	C03	+ HSRTSWVPPVGLVLTALVTAALAL	TYO3	Tyrosine-protein kinase receptor TYRO3...
11	C04	+ PLPLPPPRLGLLLAALASLLPES	TYO3	Tyrosine-protein kinase receptor TYRO3...
11	C05	DGGRLEADIRGFVA AVVNGSAQGA	TYPH	Thymidine phosphorylase precursor (EC...
11	C06	IRLRGMDLEETSVLTQALAQSGQQ	TYPH	Thymidine phosphorylase precursor (EC...
11	C07	IQWPSREFSVPEIIAVVAGLLV	TYR1	5,6-dihydroxyindole-2-carboxylic acid...
11	C08	+ WSWLLGAAMVAVLTAALAGLVSL	TYRO	Tyrosinase precursor (EC 1.14.18.1) (M...
11	C09	QPMVQGIPEAGKALLGLVQDVIGDL	U13D	Unc-13 homolog D (Munc13-4).
11	C10	+ LHDDRGPVLEALVARAIRNIEMTQ	U520	U5 small nuclear ribonucleoprotein 200...
11	C11	LNAKTKVRGLIEIISNAAEYENIPI	U520	U5 small nuclear ribonucleoprotein 200...
11	C12	+ RGGGQIPTARRVVYSAFIMATPRL	U5S1	116 kDa U5 small nuclear ribonucleopro...
11	C13	SFVEFILEPLYKILAQVVDVDTSL	U5S1	116 kDa U5 small nuclear ribonucleopro...
11	C14	DIQSDKIRTVDALLESVARESVQG	UB10	Ubiquitin carboxyl-terminal hydrolase...
11	C15	VKEGLVPVSEDPVAIKIAELLENVT	UB10	Ubiquitin carboxyl-terminal hydrolase...
11	C16	LFDNVMQDDAHEFLNYLLNTIADIL	UB46	Ubiquitin carboxyl-terminal hydrolase...
11	C17	AGHSEHHPDLGPAEAAAASQASRIW	UB19	Ubiquitin carboxyl-terminal hydrolase...
11	D01	+ LFYQDKLKLHLQLLEVLLALLDKDV	UB24	Ubiquitin carboxyl-terminal hydrolase...
11	D02	AFRETGITDEEQAIRVLEASIAEN	UB25	Ubiquitin carboxyl-terminal hydrolase...
11	D03	NGLIIMNEFIVPFLPLLLVDEMEEK	UB25	Ubiquitin carboxyl-terminal hydrolase...
11	D04	+ YGSGPKRFPFLVDVLQYALEFASSKP	UB25	Ubiquitin carboxyl-terminal hydrolase...
11	D05	+ NRKFDPSAALDLLKGAFRSSEEQQ	UB28	Ubiquitin carboxyl-terminal hydrolase...
11	D06	+ KIEKVFSKLLYPIVRGAALSVLKYM	UB35	Ubiquitin carboxyl-terminal hydrolase...
11	D07	VQLGLQLLEPAGPADEVFALLRREV	UB35	Ubiquitin carboxyl-terminal hydrolase...
11	D08	ENSGFDRMSEEEELAAVLEISKRDA	UB37	Ubiquitin carboxyl-terminal hydrolase...
11	D09	EMRQHDVQELNRLIFSALETSLVGT	UB40	Ubiquitin carboxyl-terminal hydrolase...
11	D10	PHVFANAEVGTVLTALAIAPAGVIF	UB40	Ubiquitin carboxyl-terminal hydrolase...
11	D11	+ RFLNLLMNDIAIFLLDEAIIQYLSKIK	UB4A	Ubiquitin conjugation factor E4 A.
11	D12	YMNKIYFEDVTEFLEEVIEALILDE	UB4A	Ubiquitin conjugation factor E4 A.
11	D13	EVFSDFKDLIGQILMEVLMMSQTQR	UB4B	Ubiquitin conjugation factor E4 B (Ubi...
11	D14	YFAALPEFYVEDVAEFLFIVQYSP	UB4B	Ubiquitin conjugation factor E4 B (Ubi...
11	D15	+ DIPADRHSKSLIAGKIIPAIATTT	UBA1	Ubiquitin-activating enzyme E1 (A1S9 p...
11	D16	QQNNLDEDLIRKILAYVAAGDLAPIN	UBA1	Ubiquitin-activating enzyme E1 (A1S9 p...
11	D17	+ GIPPNRAQSKRIVGQIIPAIATTT	UBAL	Ubiquitin-activating enzyme E1 homolog...
11	E01	SERWNPTQNVRTILLSVISLNEPN	UBC3	Ubiquitin-conjugating enzyme E2-32 kDa...
11	E02	AERWSPVQSVKILLSVVSMLAEPN	UBCJ	Ubiquitin-conjugating enzyme E2 G2 (EC...
11	E03	NHTDHGGSVAVLIVLTLAALIFR	UBJ1	Ubiquitin-conjugating enzyme E2 J1 (EC...
11	E04	KALRATNNSLERAVDWIFSHIDDL	UBP5	Ubiquitin carboxyl-terminal hydrolase...
11	E05	LQKTDPKDPANILHVAVLVHSGDNH	UBP7	Ubiquitin carboxyl-terminal hydrolase...
11	E06	GSEIRHRDDALPFAHVAIAVEGPGW	UCR1	Ubiquinol-cytochrome-c reductase compl...
11	E07	TRLLSNEKIETAFLLNALVYLSNVE	UE3A	Ubiquitin-protein ligase E3A (EC 6.3.2...
11	E08	HQNLTYSYQLLQVVMVAVDTSKAV	UIP1	26S proteasome-associated UCH37 intera...
11	E09	LRTEYFAQHEQGAAAGAADISTLDQ	UIP1	26S proteasome-associated UCH37 intera...
11	E10	PNMLDTLVPAPALVNAIVLVLHVS	ULSB	Ubiquitin-like protein SB132 (Bone mar...
11	E11	+ PVDKVAAMREFRVLHTALHSSSSYR	ULSB	Ubiquitin-like protein SB132 (Bone mar...
11	E12	SGDAALYAGLVVAIFVVVAIVMVG	UN5B	Netrin receptor UNC5B precursor (Unc-5...
11	E13	ASDIALYSGLGAAVAVAVLVIGVT	UN5D	Netrin receptor UNC5D precursor (Unc-5...
11	E14	ILGSLPFFLLVGFAGAIASLVDMG	UP3A	Uroplakin 3A precursor (Uroplakin III)...
11	E15	DAQVALVNEVKAALGRALAMAESTE	URB1	E3 ubiquitin protein ligase URE-B1 (EC...
11	E16	MILKQVVNVQWWEAADVLIKAALPLT	URB1	E3 ubiquitin protein ligase URE-B1 (EC...
11	E17	PVTSAPALVAATAISTIVVAASTTV	URB1	E3 ubiquitin protein ligase URE-B1 (EC...
11	F01	KADLNTITESSAALQNLIEGSEPI	UTRO	Utrophin (Dystrophin-related protein 1...
11	F02	+ AARFAKTKEEVEAAKAAALLAKQAE	UXD2	UBX domain-containing protein 2.
11	F03	EFVEGMALGLKALVGGAVGGLAGAA	V13A	Vacuolar protein sorting 13A (Chorein)...
11	F04	+ HLPEKQDTFAEKLVQIKNLQVKI	V13A	Vacuolar protein sorting 13A (Chorein)...
11	F05	KSIGATLTDVQDVVFKLAFPELNYQ	V13A	Vacuolar protein sorting 13A (Chorein)...
11	F06	TLEEMLTPEEKALLYEAIGYSETAV	V13A	Vacuolar protein sorting 13A (Chorein)...
11	F07	SKDVVDYSEENFAIVFAAMGVNMET	VAB2	Vacuolar ATP synthase subunit B, brain...
11	F08	DVKIGVLFASKAILLLVNPVLSGPF	VAT	Vesicular acetylcholine transporter (V...
11	F09	EFAGKRVPLVLA AVSLFDALLLA	VAT	Vesicular acetylcholine transporter (V...
11	F10	+ MLNRQDPFTVHMAARIAKLAAWGK	VATH	Vacuolar ATP synthase subunit H (EC 3...
11	F11	VRLEKNYELLKILTKLLEVSDDPQ	VATH	Vacuolar ATP synthase subunit H (EC 3...
11	F12	ILGASNILWIMFAASQAFKIETTPE	VCA1	Vascular cell adhesion protein 1 precu...
11	F13	KDYFSPPELLVLYFASLLIIPAIGMI	VCA1	Vascular cell adhesion protein 1 precu...
11	F14	HEFTKLVKLEGEVITKAIYKSSEED	VDP	General vesicular transport factor p11...
11	F15	VLLLQALTRSNGAIQKIVAFENAFE	VDP	General vesicular transport factor p11...
11	F16	QLSPDFTFTAGLAAEVAARSLSFTT	VEZA	Vezeatin.

Bl.	Pos.	Sequence	SP-ID	Description
11	F17	TAVRSLQLHLKALLNEVILEDELE	VEZA	Vezatin.
11	G01	VMLPTWVIVSSVLVWGVILFVYLV	VEZA	Vezatin.
11	G02	GPEASDPSEEELEALASLLQELRDFS	VEZ	Neurosecretory protein VGF precursor.
11	G03	+ ALIEGKNKTVSTLVIQAANVSALYK	VGR2	Vascular endothelial growth factor rec...
11	G04	+ EVITDNLPGSIRAVVNIFLVAKALL	VIAA	Vesicular inhibitory amino acid transp...
11	G05	YKLLYREFIVFAVLYTAISLVYRLL	VML3	Bestrophin 4 (Vitelliform macular dyst...
11	G06	ERGRAMGTALGGLALGLLVGAPFGS	VMT1	Chromaffin granule amine transporter (...)
11	G07	PLTNRIGYHIPMFAAGFVIMFSLTVM	VMT1	Chromaffin granule amine transporter (...)
11	G08	QRLLKEGRASRQLVLVVVFVALLLD	VMT1	Chromaffin granule amine transporter (...)
11	G09	+ VRWLQESRRSRKLLIFVFLALLLD	VMT2	Synaptic vesicular amine transporter (...)
11	G10	RVGPEQKVKALLLVGDVAQAADVAI	VP16	Vacuolar protein sorting 16 (hVPS16).
11	G11	+ FVIATTRQRLFQFIGRAAEGAEAQQ	VP18	Vacuolar protein sorting 18 (hVPS18).
11	G12	+ WIEMGSRLDARQLPALVNYSQGGE	VP18	Vacuolar protein sorting 18.
11	G13	+ MRDVNKKFVSVRYFLNVLVDEEDRR	VP26	Vacuolar protein sorting 26 (Vesicle p...
11	G14	+ NSFKMKMSVILGIIHMLFGVSLSLF	VPP1	Vacuolar proton translocating ATPase 1...
11	G15	GLRVDTTYGVLLLLPVIALFAVLT	VPP2	Vacuolar proton translocating ATPase 1...
11	G16	LQTRGWGIVGVFIIFAVFAVLTVA	VPP4	Vacuolar proton translocating ATPase 1...
11	G17	+ NSYKMKMSVILGIVQMVFVILSLF	VPP4	Vacuolar proton translocating ATPase 1...
11	H01	FEVVESGRYIILLGKALSVMWDRH	VWF	Von Willebrand factor precursor (vWF)...
11	H02	+ MQREGGPSQIGDALGFAVRYLTSEM	VWF	Von Willebrand factor precursor (vWF)...
11	H03	+ KDTPSGISKVRKILFTLAKQSKALG	WD10	WD-repeat protein 10.
11	H04	+ LVGLKNGQILKIFVDNLFAIVLLKQ	WD10	WD-repeat protein 10.
11	H05	+ SFEQGGSEFVPPVVVSRLLVRSMSRR	WD10	WD-repeat protein 10.
11	H06	KYAVDDVFPFIPAASEIADLSNIH	WD12	WD-repeat protein 12 (YTM1 homolog).
11	H07	IRTVALKGPVTNAAILLAPVSMLSL	WD18	WD-repeat protein 18.
11	H08	QTVKILWEVSSGELLVSVLFDVSIMA	WD18	WD-repeat protein 18.
11	H09	+ IPADPEAGGIGRVVNGAFMVLKGHR	WD22	WD-repeat protein 22.
11	H10	GKVKGKSSEATSALAGLLEEEVLST	WD35	WD-repeat protein 35.
11	H11	MSNQTDLLALGTAVGSILLYSTVKG	WD43	WD-repeat protein 43.
11	H12	TAETTVNVKEVEIILLDFLNSKK	WD47	WD-repeat protein 47.
11	H13	FTIGGVQKEVFSLAGPVVSMAGHGE	WDH1	WD repeat and HMG-box DNA binding prot...
11	H14	GSSSFLVLMVSLVTLVAVVEGVKE	WFDC	WAP four-disulfide core domain protein...
11	H15	GGLPIPVSESVLSSVSSITIPA	WNK1	Serine/threonine-protein kinase WNK1 (...)
11	H16	ITVTSAVGPVSMAPTATEAGTQP	WNK1	Serine/threonine-protein kinase WNK1 (...)
11	H17	+ RQNKDERYSIKDLLNHAFQEEETGV	WNK1	Serine/threonine-protein kinase WNK1 (...)
11	I01	PPAAVLSFPLPEVLLPAPELLPQF	WNK2	Serine/threonine-protein kinase WNK2 (...)
11	I02	QPALGQPAPLLPAAVGAVSLATSQ	WNK2	Serine/threonine-protein kinase WNK2 (...)
11	I03	+ RKTSSKLLKAGKLLNPLVRQLKVA	WNK2	Serine/threonine-protein kinase WNK2 (...)
11	I04	RLPPAPGPLSTTVIPGAAPTLVPT	WNK2	Serine/threonine-protein kinase WNK2 (...)
11	I05	RQNKSERLSIRDLLNHAFEDTGL	WNK3	Serine/threonine-protein kinase WNK3 (...)
11	I06	+ RTDKNERFTIQDLLAHAFREERG	WNK4	Serine/threonine-protein kinase WNK4 (...)
11	I07	SLASAFSLAVMTVAQSLLSPSPGLL	WNK4	Serine/threonine-protein kinase WNK4 (...)
11	I08	QQQKQESARRENILVMRLATKEQEMQ	WTAP	Wilms tumor 1-associating protein (WT1)...
11	I09	QIEVFTWSASGTHTEALASSFTV	XAB1	XPA-binding protein 1.
11	I10	IEYLKSSDRLEAAQRLATVVNDER	XAB2	XPA-binding protein 2 (Adapter protein...
11	I11	EEQYQDLLIMELTNLLSKEFIDF	XPO4	Exportin 4 (Exp4).
11	I12	HEPGQAANRSVSAADVLYGVNLLI	XPO4	Exportin 4 (Exp4).
11	I13	PDEGSQVDYLAHFIEGLLNTINGIE	XPO4	Exportin 4 (Exp4).
11	I14	+ TAFGADTEGSQWIIQYLLQKVISNL	XPO4	Exportin 4 (Exp4).
11	I15	DHMNIASLEPHVIMYLLSSISEGL	XPO7	Exportin 7 (Ran-binding protein 16).
11	I16	+ LGLNDETMVLSVFIGKHTNLKYWG	XPO7	Exportin 7 (Ran-binding protein 16).
11	I17	+ LNYLATRPKLATFVTQALIQLYARI	XPO7	Exportin 7 (Ran-binding protein 16).
11	J01	+ AMFVEYRKQLKLLDRLAQVSPPELL	XPOT	Exportin T (tRNA exportin) (Exportin(t...
11	J02	+ QNWQTTTRFMEVEVAIRLLYMLAEAL	XPOT	Exportin T (tRNA exportin) (Exportin(t...
11	J03	VIANQGAENVERVLVTVIQGAVEYYP	XPOT	Exportin T (tRNA exportin) (Exportin(t...
11	J04	+ FPAATSGRMVEAFARRALWDAGLNY	XPP2	Xaa-Pro aminopeptidase 2 precursor (EC...
11	J05	+ LLKASHVRDAVAVIRYLVWLEKNVP	XPP2	Xaa-Pro aminopeptidase 2 precursor (EC...
11	J06	RRPRAGPEELGKILQGVVVVLSGFQ	XRC1	DNA-repair protein XRCC1.
11	J07	+ SILTPHLYSPVLISQLVQMASQLR	Y310	Hypothetical protein KIAA0310 (Fragmen...
11	J08	AWNSPPLTSEFVALLPALVDAGTAL	Y415	Hypothetical protein KIAA0415 (Fragmen...
11	J09	+ ISIGTIYFRAHKLVAAASLLFKTL	Y478	Hypothetical zinc finger protein KIAA0...
11	J10	SAVLEKQTLSATAIWQLLVVQETK	Y478	Hypothetical zinc finger protein KIAA0...
11	J11	YQPAALGVGSADLAYPVVFAAGLNA	Y652	Hypothetical protein KIAA0652.
11	J12	+ RDVLRVQGVSLTALRLLADAYSGR	Y711	Protein KIAA0711.
11	J13	+ QLEGLENATARNLLGKLINILLAVM	Y779	Hypothetical protein KIAA0779 (Fragmen...
11	J14	LNTRVAYWSVGEALILLVVSIGQVF	YA09	Hypothetical protein CGI-109 precursor...
11	J15	+ PPLIVDRERLKKLLDLLVDKSNLLA	YC40	Hypothetical protein KIAA1240 (Fragmen...
11	J16	GVDEDEEMDEVSLSELVEAASFQ	YD40	Hypothetical protein KIAA1340 (Fragmen...
11	J17	+ EDTKEKRTHIQAIKSLFPGLETKT	YI97	Hypothetical pseudouridine synthase KI...
11	K01	THFENSFEQSSFAVGDIALALYSAL	YLA1	Y+L amino acid transporter 1 (y(+)-L-ty...
11	K02	TLVQDIFTYAKVLALIAVIVAGIVR	YLA1	Y+L amino acid transporter 1 (y(+)-L-ty...
11	K03	VAVPLYSDTINSLIGIAIALSLGPF	YLA1	Y+L amino acid transporter 1 (y(+)-L-ty...
11	K04	LLEVTTTKDPSLVVAGEALDALFDVF	YPO1	Hypothetical protein FLJ20718.
11	K05	APRHMMRLDIRSLLQDAIEEVEME	YLPM	YLP motif containing protein 1 (Nuclea...
11	K06	LQDRSMPHQEILAADEVLQSEMRQ	Z148	Zinc finger protein 148 (Zinc finger D...
11	K07	+ DQKTNLPEYLQTLNLTAPLLLFRA	Z294	Zinc finger protein 294.
11	K08	EWKEFFSQGIHSLLLPILVTVTGEN	Z294	Zinc finger protein 294.

Bl.	Pos.	Sequence	SP-ID	Description	
11	K09	+	RSREHGTWLSLIIAKLILSRSSSD	Z294	Zinc finger protein 294.
11	K10		TREVMATYTIEDIVIELIIQLPSNY	Z294	Zinc finger protein 294.
11	K11		VQASSLDINSLQVLLSAVDDLLNTL	Z294	Zinc finger protein 294.
11	K12	+	VLASAYTGRLSMAAADIVNFLT VGS	Z297	Zinc finger protein 297 (BING1 protein...
11	K13		GAPMTSPMSSSTLAHSLAAIEALAD	Z335	Zinc finger protein 335.
11	K14		GQQLVTQAQLEAAAHSAVTAVADAA	Z335	Zinc finger protein 335.
11	K15		GDYAWGQTGLDAIVTQLLGQLENTG	Z364	Zinc finger protein 364 (Rabring 7).
11	K16		IEGILQHIFAGFFANSAIPGSPHPF	Z364	Zinc finger protein 364 (Rabring 7) (R...
11	K17		EIQMFPQAQESPAAVEVLTQVVHPS	Z407	Zinc finger protein 407 (Fragment).
11	L01		SDQNYNYEQVNKAINDAISQSGRVL	Z507	Zinc finger protein 507.
11	L02	+	GRNKMDPPRSSIFLQEVITTVYGYK	ZAN	Zonadhesin precursor.
11	L03		RDAPPPRKPASNLVGVLGLLVPVV	ZAN	Zonadhesin precursor.
11	L04		ALFSQYSSTLYDVAMEAVTQSLSS	ZBE4	Zinc finger BED domain containing prot...
11	L05	+	VDLAYSNYHVKQFLEALLRNSAAPS	ZBT8	Zinc finger and BTB domain containing...
11	L06	+	LKLRSLRVNVGQLLAMIVPDLDLQ	ZCW3	Zinc finger CW-type coiled-coil domain...
11	L07		GGPISITNAATAASA AVAFAKEEA	ZFH2	Zinc finger homeobox protein 2.
11	L08		VYMEVIVGEEAAAAAARAAA AVHEQ	ZFX	Zinc finger X-chromosomal protein.
11	L09		ILPQELASSEQRILKVILLAGFAL	ZIP1	Zinc transporter ZIP1 (Zinc-iron regul...
11	L10		MRLVHLGTSSRWAVFSILLALMSP	ZIP2	Zinc transporter ZIP2 (Eti-1) (6A1) (h...
11	L11	+	ELQKQAELEMEFEIALKALSVLRYIT	ZM10	Zinc finger MYND domain containing pro...
11	L12		QELLVTHGKVP TLVEELIAVEMWKQ	ZM10	Zinc finger MYND domain containing pro...
11	L13		IITETDVVTEGVIVPEAVLEADVAI	ZN06	Zinc finger protein 6.
11	L14		LG AQVFASAEALQAAA AHVLEAGE	ZNH2	Zinc finger HIT domain containing prot...
11	L15		NMRGVFLHVLGDALGSVIVVNALV	ZNT1	Zinc transporter 1 (ZnT-1).
11	L16	+	DALHMLTDLSAHLTLALWLSSKS	ZNT4	Zinc transporter 4 (ZnT-4) (Dri 27 pro...
11	L17		NYEINGDIMLITA AVGVAVNVIMGF	ZNT4	Zinc transporter 4 (ZnT-4).
11	M01		SKVLWVAGLSGTLILGALLVSYLAV	ZP4	Zona pellucida sperm-binding protein 4...
11	M02		FSQKGALTTVEGLITRAISGLEQDQ	ZPR1	Zinc-finger protein ZPR1 (Zinc finger...
11	M03		EKTPMPPISSVLLAFSVLGELHSKL	ZW10	Centromere/kinetochore protein zw10 ho...
11	M04	+	MDDEENYSAASKAVRQVLHQLKRLG	ZW10	Centromere/kinetochore protein zw10 ho...
11	M05		AAETEAEAAAALVLAEVAGILEPVG	ZWIN	ZW10 interactor (ZW10 interacting prot...
11	M06		a		beta-alanine
11	M07		a		beta-alanine
11	M08		a		beta-alanine
11	M09		a		beta-alanine
11	M10		a		beta-alanine
11	M11		a		beta-alanine
11	M12		a		beta-alanine
11	M13		a		beta-alanine
11	M14		a		beta-alanine
11	M15		a		beta-alanine
11	M16		a		beta-alanine
11	M17		a		beta-alanine

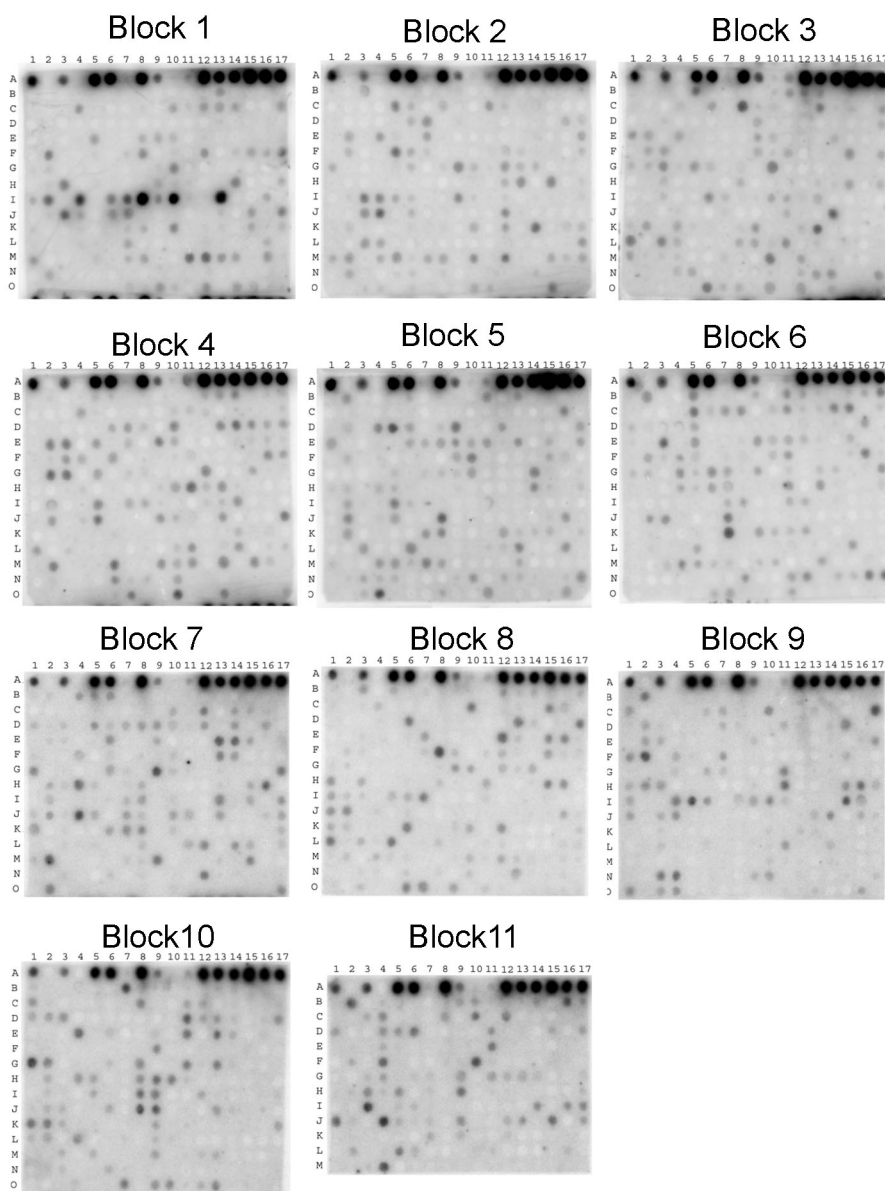


Figure C.1: Database-derived peptides probed for RII-binding. Displayed is the autoradiography of spot-synthesised peptides subjected to RII overlay assay. Peptides were obtained as described in 3.6. The spot-synthesised peptides are subdivided into blocks. Numbers of the blocks and peptide positions within the blocks are indicated and correspond to the positions given in table C.1.