

## Supplementary Materials for

### **A large fraction of HLA class I ligands are proteasome-generated spliced peptides**

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## Materials and Methods

### Cell line and isolation of HLA class I-associated peptides.

The GR-LCL (HLA-A\*01:01<sup>+</sup>, -A\*03:01<sup>+</sup>, -B\*07:02<sup>+</sup>, -B\*27:05<sup>+</sup>, -C\*02:02<sup>+</sup>, -C\*07:02<sup>+</sup>) was grown in RPMI-1640 medium to a total number of  $9 \times 10^9$  cells. HLA-I peptide complexes were immunoprecipitated from lysed GR-LCL, using the HLA-I-specific mouse monoclonal IgG2a antibody W6/32. HLA-I-associated peptides were eluted with 10% (vol/vol) acetic acid and collected by passage over a 10 kDa molecular weight (MW) cutoff membrane. HLA-I haplotypes were determined by performing 12 target specific PCRs to amplify the exons 2 and 3. Illumina-specific adaptors and barcodes (indexes) were introduced with the primers during PCR. PCR products were purified with AmpureXP beads and then sequenced with Illumina technology either HiSeq (2x250bp) or MiSeq (2x300bp).

HMy2.C1R (C1R) is a human lymphoid cell line with low expression of its endogenous HLA-I molecules. C1R cells showed reduced levels of HLA-B\*35:03 and normal expression of HLA-C\*04:01. A full-length cDNA clone of B\*40:02 was obtained from the LCL line 143.2 and cloned into the RSV5neo vector as described elsewhere (5). C1R-B\*40:02 transfectants were generated via electroporation of  $10^7$  C1R cells at 250 mV and 960  $\mu$ F. For the isolation of the HLA class I - bound peptides about  $10^{10}$  cells were lysed in 1% Igepal CA-630 (Sigma-Aldrich), 20 mM Tris, 150 mM NaCl (pH 7.5) in the presence of a mixture of protease inhibitors (Complete-Midi, Roche). The lysate was subjected to ultracentrifugation, then the soluble fraction was subjected to affinity chromatography similarly to the above mentioned procedure.

The human fibroblast HLA-I immunopeptidome dataset was obtained from the PRIDE Archive (<http://www.ebi.ac.uk/pride/archive/projects/PXD000394/files>). We used in particular the file 20130504\_EXQ3\_MiBa\_SA\_Fib-2.mgf generated by Bassani-Sternberg *et al* (6). For the conditions of HLA-I-restricted peptide elution please refer to Bassani-Sternberg *et al* (6).

T2 cell line (HLA-A\*02:01<sup>+</sup>, -B\*51<sup>+</sup>, -Cw1<sup>+</sup>) is a human T cell leukemia/B cell line hybrid defective in TAP1/TAP2 (transporter proteins associated with antigen processing) (10). The T2 HLA-I immunopeptidome was grown to a total number of  $10^9$  cells and then were split into two aliquots after lysis and ultracentrifugation in order to perform two independent immunoprecipitations. The lysate soluble fraction containing HLA-I-peptide complexes was immunoprecipitated similarly to the above described procedures. The HLA-I immunopeptidome elution was carried out in parallel to a TAP-competent LCL with the same batch of antibodies/beads in order to confirm the positive execution as in the previous experiments. Indeed, the HLA-I elution of the TAP-competent LCL showed a number of spliced and non-spliced peptides comparable to that the GR-LCL and C1R cell lines (data not shown).

### Preparation of the intracellular protein homogenates and digestion by trypsin.

Before cell lysis GR-LCL were treated (or not treated) with 2  $\mu$ M epoxomicin for 4 h in RPMI-1640 medium at 37°C. For the lysis, T2, GR-LCL and C1R cells (for each experiment about  $2 \times 10^7$  were used) were re-suspended in lysis buffer composed of 8 M urea, 50 mM AMBIC pH 8, 1 tablet of PhosStop phosphatase inhibitors, and 1 tablet of complete Mini EDTA-free protease inhibitor cocktail. The cell lysates were sonicated 3 times on ice. Subsequently, centrifugation at 20000 g at 4°C for 20 minutes separated the soluble from the insoluble protein fractions. The soluble fractions were collected and the protein concentration of the lysates was determined by a Bradford protein assay. The soluble fraction of the T2 and GR-LCL cell lines were separated with a 3 kDa filter (Amicon, Beverly, MA) to enrich the sample for small peptides supposed to

be generated by proteasome. Instead, the C1R soluble fractions were separate from the endogenous small peptides (likely generated by proteasome) with a 30 kDa filter (Amicon, Beverly, MA). Proteins were reduced with 2 mM DTT at 56°C for 25 minutes, followed by alkylation with iodacetamide (4 mM) at room temperature for 30 minutes in the dark. After the alkylation step the digestion was carried out with a first step of Lys-C (Wako, Richmond, USA) for 4 hours at 37°C with a protein to enzyme ratio of 75:1 (w/w). Subsequently, the sample was diluted 4 times with 50 mM AMBIC to a urea concentration of 2 M. The second step of digestion was performed with trypsin (Promega, Madison, USA) overnight at 37°C with a substrate to enzyme ratio of 100:1 (w/w). After digestion the sample was acidified with 10% FA.

#### Peptide synthesis, 20S proteasome purification.

All peptides were synthesized using Fmoc solid phase chemistry as previously described (34). 20S proteasome was purified from LCLs as following: (i)  $3 \times 10^9$  cells were homogenized and centrifuged; (ii) the supernatant was fractionated by ammonium sulphate precipitation and (iii) fractionated by chromatography on DEAE-Sephadex; (iv) the selected fractions were separated by 10-40 % sucrose gradient and followed by (v) anion exchange chromatography on Mono Q. The selected fractions (3 ml) were further purified by DEAE-Affi-gel-blue chromatography. In each step the fractions were monitored by degradation assays of standard short fluorogenic peptides. Proteasome concentration was measured by Bradford staining and verified by coomassie staining in a SDS-Page gel as shown elsewhere (35). The purity of the preparation has been previously shown (36).

#### In vitro digestion of short fluorogenic peptides and synthetic polypeptides by proteasomes.

The short fluorogenic peptides Suc-LLVY-, Bz-VGR-, and Z-LLE-MCA (400  $\mu$ M) were processed in presence of 50000 living GR-LCLs and different concentration of epoxomicin (0 – 10  $\mu$ M) for 1- 4 h in 100  $\mu$ l RPMI medium (without FCS). The fluorescence was determined at 360 nm excitation / 460 emission in an plate-reader (gain 60). Fluorescence values were subtracted of the values measured in absence of the cells and reported as fluorescence unit (FU). The assays were repeated in duplicate.

Synthetic polypeptides (20  $\mu$ M) were digested by 2  $\mu$ g 20S proteasomes in 100  $\mu$ l TEAD buffer (Tris 20 mM, EDTA 1 mM, Na<sub>3</sub> 1 mM, DTT 1 mM, pH 7.2) for 20 hours at 37°C as previously described (36). The *in vitro* proteasomal digestion of the synthetic substrates NFHQQRQSLIEYKAAVTLQRAALKFLAKCRKKKK (derived from IQ calmodulin-binding motif-containing protein 1), GRNKLLQCLHAKRHALESWRQLV (derived from Nuclear pore complex protein Nup205), and KPHSEAGTAFIQTQQLHAAMADTFLEHMCRL (derived from Pyruvate kinase isozymes M1/M2) was carried out to verify the *in vitro* production by 20S proteasome of the antigenic peptides [RQSLIE][LAK], [GRNKLLQ][SW], [E][KPHSEAGTAF], respectively, as such or as N- and/or C-terminal extended precursors (**Table S2, Fig. S6**).

#### Mass spectrometry.

The HLA-I eluted samples, the C1R tryptic digest, the 3 kDa fractions of the GR-LCL (treated and not treated with epoxomicin) and T2 cell lines, the synthetic peptides and the peptides products of *in vitro* proteasome digestions were analyzed directly by nanoscale LC-MS/MS using a Thermo Scientific EASY-nLC 1000 (Thermo Fisher Scientific) and ETD-enabled LTQ Orbitrap Elite mass spectrometer as previously described (4). The system comprises a 20  $\times$  0.1 mm i.d. trapping column (Reprosil C18, 3  $\mu$ m; Dr. Maisch) and a 50  $\times$  0.0075 cm i.d. analytical column (Zorbax SB-C18; 1.8  $\mu$ m). Full MS spectra (*m/z* 300–1,200) were acquired in an Orbitrap

at a resolution of 60000 (FWHM). The 10 most abundant precursor ions were selected for either data-dependent EThcD (unknown and 1<sup>+</sup> charge state excluded). The maximum ion accumulation time for MS scans was set to 200 ms and for MS/MS scans to 1500 ms. Fragment ions were detected in an Orbitrap at a resolution of 15000 (FWHM). Dynamic exclusion was enabled with a repeat count of 1- and 60-s exclusion duration. The background ions at *m/z* 391.2843 and 445.1200 were used as lock mass.

The human fibroblast HLA-I immunopeptidome dataset was obtained from the PRIDE Archive (<http://www.ebi.ac.uk/pride/archive/projects/PXD000394/files>). We used in particular the file 20130504\_EXQ3\_MiBa\_SA\_Fib-2.mgf generated by Bassani-Sternberg *et al* (6). Such a dataset was obtained by LC-MS/MS analysis using a nanoflowHPLC coupled on-line to a Q Exactive mass spectrometer with a nanoelectrospray ion source (Proxeon Biosystem, Thermo Fisher Scientific). For further details please refer to Bassani-Sternberg *et al* (6).

#### HLA-I - peptide complex binding affinity.

The binding affinity of the peptides onto the HLA-A\*01:01, -A\*03:01, -B\*07:02, -B\*27:05 complexes (**Table S2**) was measured in classical competition binding assays utilizing purified HLA molecules and a high affinity radiolabeled ligand, as previously described (37, 38). Under the conditions utilized for these assays, where [label] < [HLA] and IC<sub>50</sub> ≥ [HLA], the measured IC<sub>50</sub> values represent a reasonable approximations of true K<sub>d</sub> values (39). Each competitor peptide was tested in 3 or more independent assays at six different concentrations covering a 100000-fold dose range. No assays for the HLA-C\*02:02, -C\*07:02 could be performed with such a method.

The binding affinity of the whole pool of 9-12mer spliced or non-spliced peptides identified in the GR-LCL HLA-I immunopeptidome was predicted for the four specific HLA-A and -B variants, *i.e.* the HLA-A\*01:01, -A\*03:01, -B\*07:02, and -B\*27:05 by using the ANN – NetMHC prediction algorithm version 3.4 (40) and the SMM – IEDB prediction algorithm (23). For ANN we chose as cut-off the IC<sub>50</sub> 500 nM for strong binders and 5000 nM for weak binders. Because the SMM algorithm provides predictions on a different scale, we determined the corresponding SMM cut-offs based on the ANN IC<sub>50</sub> prediction quantiles for non-spliced peptides that resulted in 500 nM and 5000 nM, thereby resulting in 51 nM and 123 nM, respectively (**Fig. S11A-B**). ANN and SMM performed similar for the prediction of non-spliced peptides, which justified the quantile method for cut-off determination (**Fig. S11A-B**).

#### Data analysis and Statistics: identification of spliced and non-spliced peptides.

The analysis of all MS raw data sets was carried out with Mascot (Matrix Science). MS/MS scans were searched with no enzyme specificity and 3 ppm peptide precursor mass tolerance, 0.02 Da MS/MS mass tolerance, EThcD or HCD fragmentation, respectively (except for the fibroblast dataset: 6 ppm peptide precursor mass tolerance, 20 ppm MS/MS mass tolerance). Asparagine deamidation, methionine oxidation, cysteinylolation, phosphorylation (S, T, Y), or N-terminal glutamate cyclization were set as variable modifications when the data were searched against the Swissprot database, *i.e.* when only non-spliced peptides were analyzed.

Common MS analysis software searches a given database for its entries and any shorter versions thereof. This precludes the identification of spliced peptides. We computed for each protein entry in the human Swissprot database all N-mer normal and reverse *cis* spliced peptides (where N is here 9-12 amino acids, but can be extended to other lengths), with a maximum intervening sequence length of 25 residues. All spliced sequences that could be generated by simple peptide-

bond hydrolysis of any human protein were removed from the database. We furthermore compute for each resulting spliced peptide the MW. Because the size of the resulting database in the commonly used FASTA format would have been too large to be handled by commonly available MS software as well as computing hardware, we reduced this overall database to a dataset specific database (see **Fig. S3**). The following steps were repeated for each analyzed dataset, and in case of the 2D EThcD strategy, for each fraction of the overall dataset. We filtered the spliced peptide database based on the precursor masses observed in the dataset with 3ppm tolerance (corresponding to the instrument accuracy; 6ppm for the fibroblast dataset). The resulting reduced MW specific spliced N-mer database was written in FASTA format.

We then computed all N-mer non-spliced peptides from the human SwissProt database, computed their MWs and also filtered them based on the observed precursor masses with 3ppm tolerance (6 ppm for the fibroblast dataset), resulting in a reduced MW specific non-spliced N-mer database written in FASTA format.

The two resulting databases contained short peptide sequences of length between 9 and 12 amino acids. This database structure was very different from commonly used proteome database structures and might induce biases and artifacts in the analysis depending on the applied MS search engine and the applied target-decoy approach to determine the FDR. In order to avoid such problems and to make our search strategy as similar as possible to previous studies, we transformed our spliced and non-spliced databases into the structure of the human proteome database. We merged several N-mers into new ‘protein’ entries, so that all in this way generated ‘proteins’ had a length distribution that followed that of the human proteome. For easier annotation we merge spliced and non-spliced sequences in separate ‘proteins’. Based on this combined spliced and non-spliced database structure, we then computed the decoy database via randomization of the ‘protein’ sequences, while ensuring that none of the target N-mer spliced and non-spliced sequences was presented in the decoy database.

We then searched the MS/MS spectra against this merged spliced and non-spliced MW specific N-mer peptide databases and the respective decoy database simultaneously with Mascot. The search results were filtered using an ion score cut-off, which resulted in 1% FDR. Through post-processing of the Mascot results, we then obtained separate lists of spliced and non-spliced peptides. The latter was in almost all analyses shorter than non-spliced peptide list identified without including spliced peptides in the database search, because several MS/MS queries could be matched significantly better by a spliced sequence.

To note, with the approach of merging short peptides into new ‘proteins’ the database contained further peptide sequences, which were neither spliced peptides nor non-spliced peptides. We considered these peptides as potential decoy sequences, in case they were matched to an MS/MS spectrum.

The analysis was repeated using the search engine SEQUEST in the Proteome Discoverer 1.4 environment (Thermo Fisher Scientific) and the results, in term of number of spliced and non-spliced peptides and their proportion agreed with that of the Mascot search (data not shown).

In addition, the MS/MS spectra of 99 example peptides detected in the GR-LCL HLA immunopeptidome were compared to the MS/MS spectra of their synthetic peptide counterparts. From those 99 synthetic peptides we obtained 98 high-quality MS/MS spectra suitable for comparison. Furthermore, we computed the similarity of two spectra, belonging to the HLA-I eluted peptides and the corresponding synthetic peptides, by computing the Pearson correlation

coefficient between the log intensities of identified b-, y-, c- and z-ions (41). The closer this correlation coefficient is to 1 the more correlated are the two spectra, *i.e.* the more similar are the intensities and patterns of the characteristic ions.

Label-free quantification comparing the amounts of spliced and non-spliced peptides was performed. We extract the MS ion current peak area for each identified peptide (using Mascot Distiller's label free quantification tools). To test if there are differences in the MS behavior between spliced and non-spliced peptides, we titrated 78 spliced and 75 non-spliced peptides mixed together at different concentrations. The titration results confirm that there is no significant difference between the behavior of spliced and non-spliced peptides. Furthermore, there is a significant correlation between the peptide concentration and the ion peak area for both spliced and non-spliced peptides, which allows us to obtain relative quantities of the two peptide pools. Single peptides, however, cannot be compared with each other, since the ion peak area for a given peptide concentration can range around two orders of magnitude. Applying label-free quantification to the datasets of three cell lines, we determined the relative differences between the ion peak area distributions of spliced and non-spliced peptides.

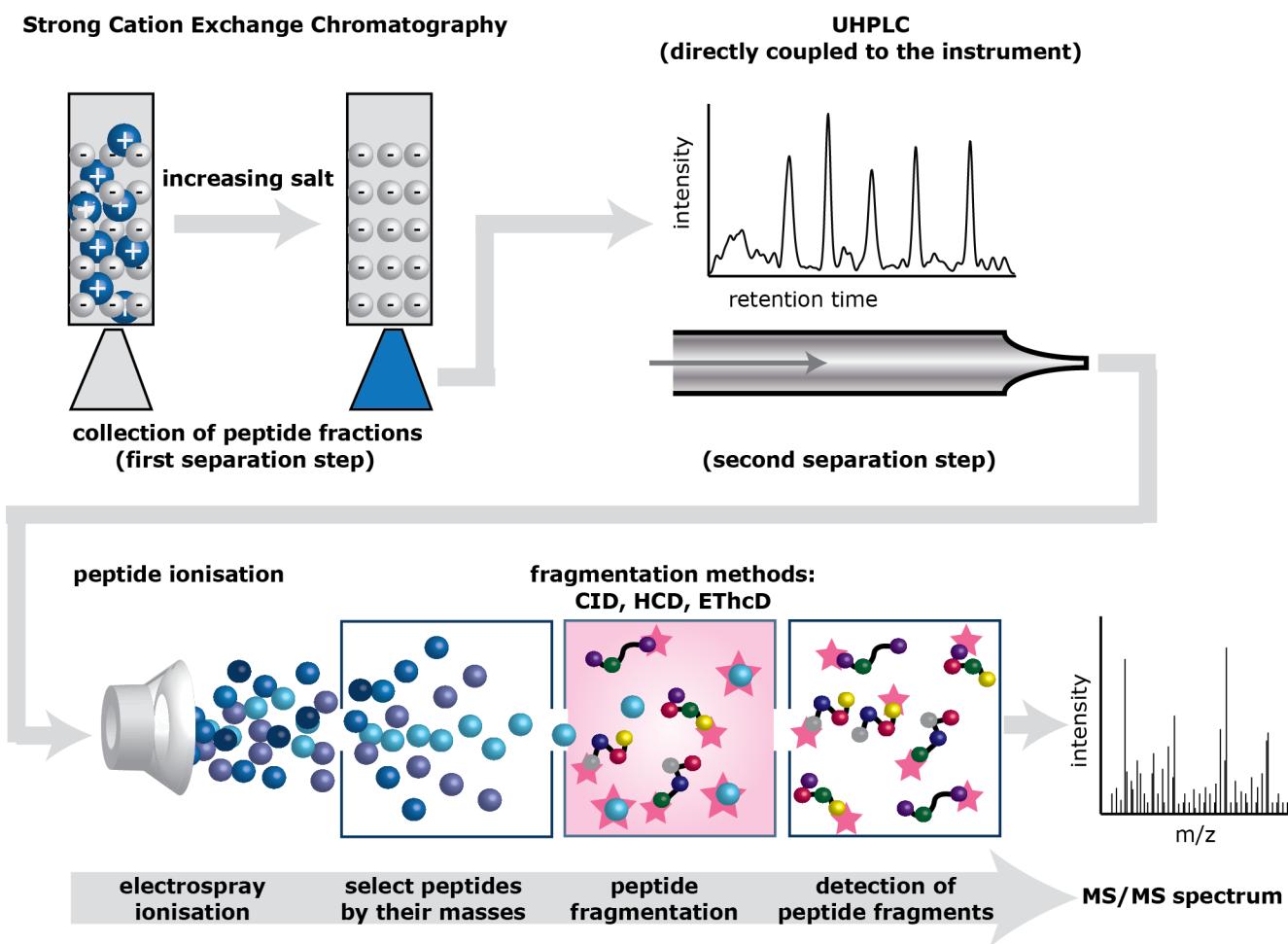
All algorithms, spliced and non-spliced peptide databases, decoy databases and data analysis and data plotting tools were implemented in *R* (42) on a Linux Cluster system.

#### Statistics.

Data were tested for normality distribution and homoscedasticity by Kolmogorov-Smirnov, Shapiro-Wilk and Levene tests and the following tests were applied accordingly. To identify significant differences between the distributions of peptide length in the GR-LCL cell lysate (< 3 kDa) treated *vs* not treated with epoxomicin we applied a Kolmogorov-Smirnov test. Same test was performed for the comparison of the MS ion peak area distribution of the spliced and non-spliced peptides.

P < 0.05 was considered to be significant.

## Supplementary figures and tables.



**Figure S1.**

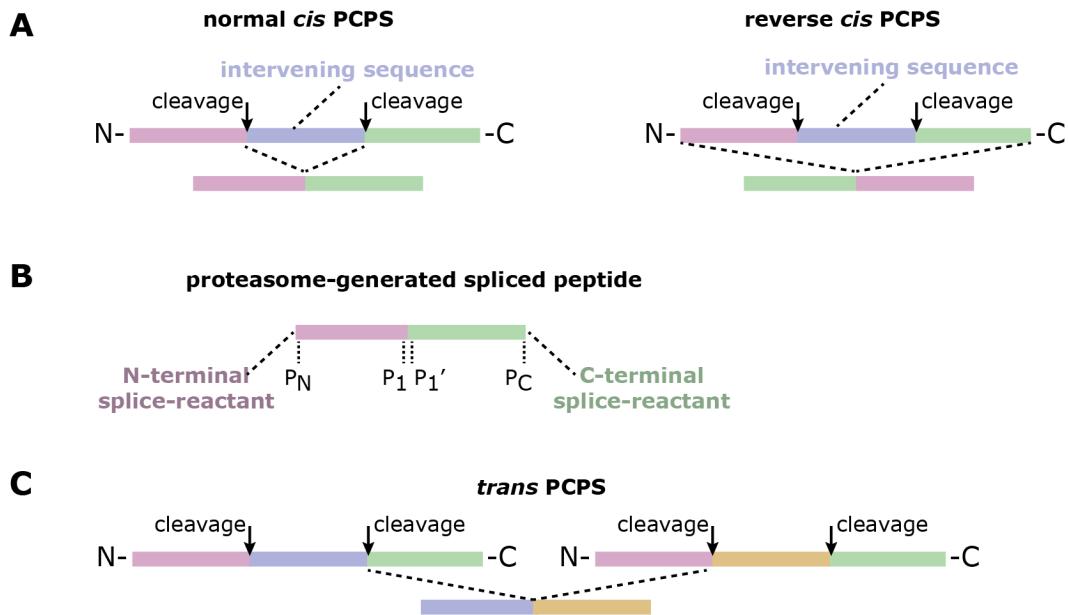
Mass spectrometry workflow – data acquisition. HLA-I immunopeptidomes are usually investigated by sequence identification of peptides eluted from HLA-I molecules using liquid chromatography coupled to mass spectrometry (LC-MS) and then fragmentation of the peptides by collision induced dissociation techniques (CID or HCD). To generate data on the GR-LCL HLA-I immunopeptidome we fractionate the eluate using strong cation exchange chromatography (2D strategy) followed by a novel hybrid peptide fragmentation method termed electron-transfer higher-energy collision dissociation (EThcD) on an Orbitrap Elite, which, as we showed previously, provides improved identification rates of the non-spliced peptides, when compared to traditionally used CID/HCD methods (18). In particular, EThcD provides an improved sequence coverage per peptide when compared to other fragmentation techniques, making assignments less ambiguous. The used methods are described in more details:

**2 dimensional separation strategy (2D strategy):** in a 2 dimensional chromatographic approach the sample is separated in two different chromatographical steps in order to further fractionate peptide mixtures and maximize identification of the component peptides by MS. In our case, strong cation exchange (SCX), which separates peptides based on their net charge, is used as a first dimension. The samples are then fractionated and the aliquots are collected and re-injected in the second dimension of separation directly coupled with the mass spectrometer.

Nano liquid chromatography-mass spectrometry (nanoLC-MS): The last separation step, typically interfaced directly to a mass spectrometer, is frequently reversed phase- (RPHPLC) or Ultra-High Performance Liquid Chromatography (UHPLC), which can provide high resolution, effective desalting of samples, and mobile phase compatibility with electrospray ionization (ESI) and MS detection. RP separation mode is based on the hydrophobicity of the peptides. Moreover, the flow rate used for the separation is within the nano liter range (nanoLC).

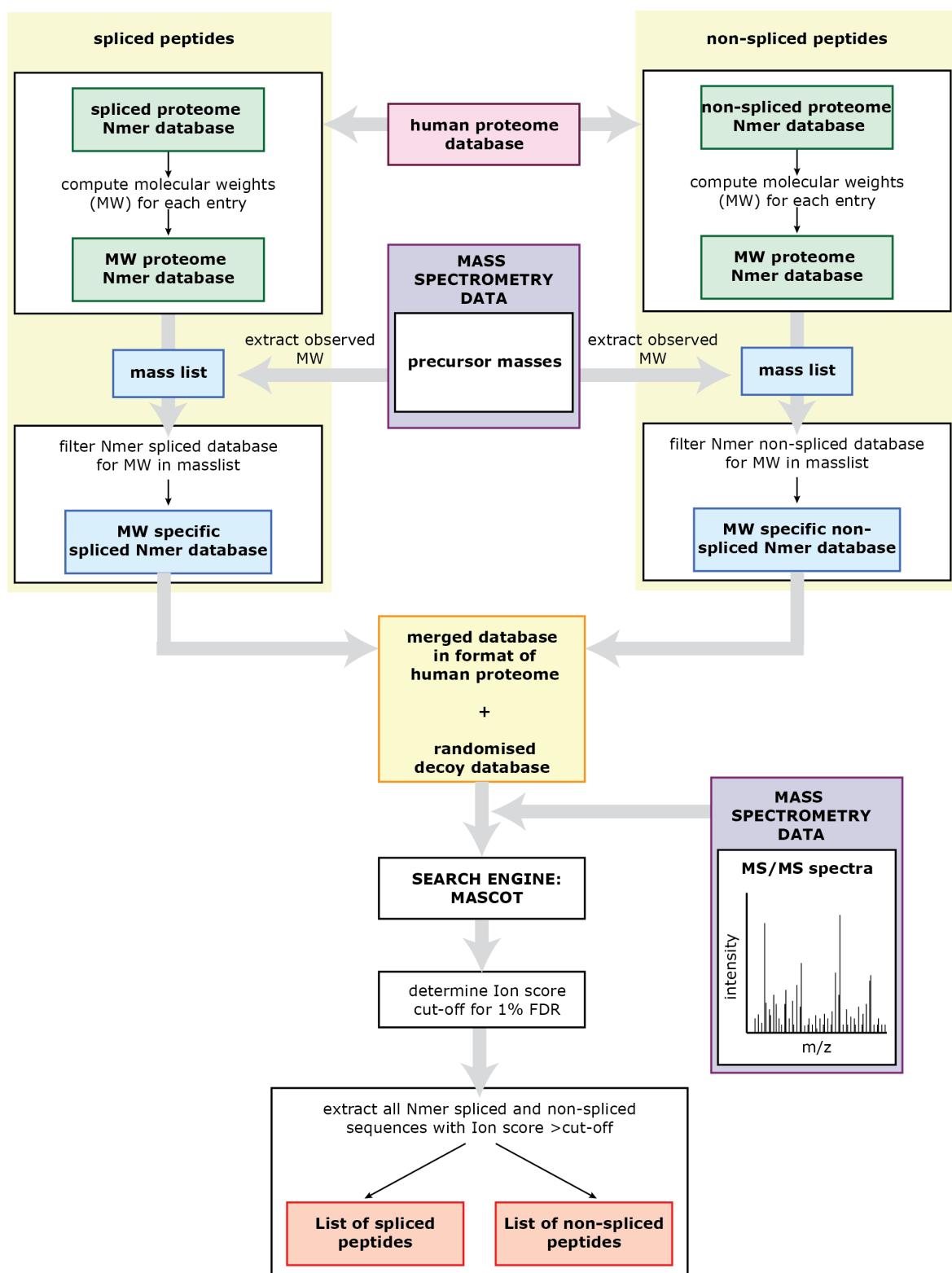
Collision induced dissociation techniques: In collision-induced dissociation techniques (mainly CID and HCD) the activation of the selected ions occurs by collision(s) with neutral gas molecules in a collision cell.

Electron-transfer higher-energy collision dissociation (EThcD): Electron-transfer higher-energy collision dissociation (EThcD) is a fragmentation technique, which combines electron transfer dissociation (ETD) and higher-energy collisional dissociation (HCD) in a single event. By combining the two fragmentation types (ETD and HCD) it is possible to achieve more informative mass spectra compared to traditional methods (collision induced dissociation techniques) and potentially improving identifications.



**Figure S2.**

Proteasome-catalyzed peptide splicing (PCPS). PCPS can be formed in different ways. For example, (A) the two splice-reactants are generated by proteasome by cleavage of a single peptide sequence (*cis* PCPS), the excision of the sequence between the two splice-reactants (namely the intervening sequence) followed by the ligation of the splice-reactants in normal order, *i.e.* following the orientation from N- to C-terminus of the parental protein (normal *cis* PCPS), or in the reverse order (reverse *cis* PCPS). B) The ligation between the residue P<sub>1</sub> of the N-terminal splice-reactant and the residue P<sub>1'</sub> of the C-terminal splice-reactant is catalyzed by one of the proteasome's catalytic Threonine 1 (2, 8). Moreover, (C) PCPS can occur between two splice-reactants originating from two distinct proteins (*trans* PCPS) (8, 18). Although the latter occurs *in vitro* (8, 18, 20), its occurrence in cells is disputable (18).

**Figure S3.**

Workflow for the identification of non-spliced and spliced peptides among the HLA class I-eluted peptides. The screening of the HLA-I immunopeptidome for proteasome-generated spliced peptides has been hampered by the lack of appropriate algorithms and the immense size of an entire human proteome (20214 protein entries) spliced peptide database, which would contain  $4.3 \times 10^{17}$  entries (excluding *trans* PCPs; see **Fig. S2**). To reduce the size we: (i) set a maximal

distance of 25 residues between the two splice-reactants, as suggested by the study of Dalet and colleagues (18); (ii) exclude spliced peptides that are generated by the binding of splice-reactants derived from two distinct antigens or from two molecules of the same antigen (*i.e.* *trans* PCPS; see **Fig. S2**), as suggested by the study of Dalet and colleagues (18); (iii) retain in the database only 9-12mers, which represent the large majority of HLA-I immunopeptidome (4). This reduced database contains  $1.6 \times 10^{10}$  entries for the potential 9-12mer spliced peptides of the human proteome, which written in a FASTA format would occupy 1.2 TB disk space, whereas the non-spliced peptides were  $5.5 \times 10^7$  entries. To further reduce the database size for the MS/MS analysis we: (iv) ignore any post translational modifications of the peptides (17); (v) include in the database only those sequences that had an exact mass as detected in the studied HLA-I immunopeptidome (with 3 ppm / 6 ppm tolerance, according to instrument accuracy). The latter step is somewhat similar to SpliceMet, the first method for the identification of spliced peptides from *in vitro* digestions of substrates by the proteasome (24).

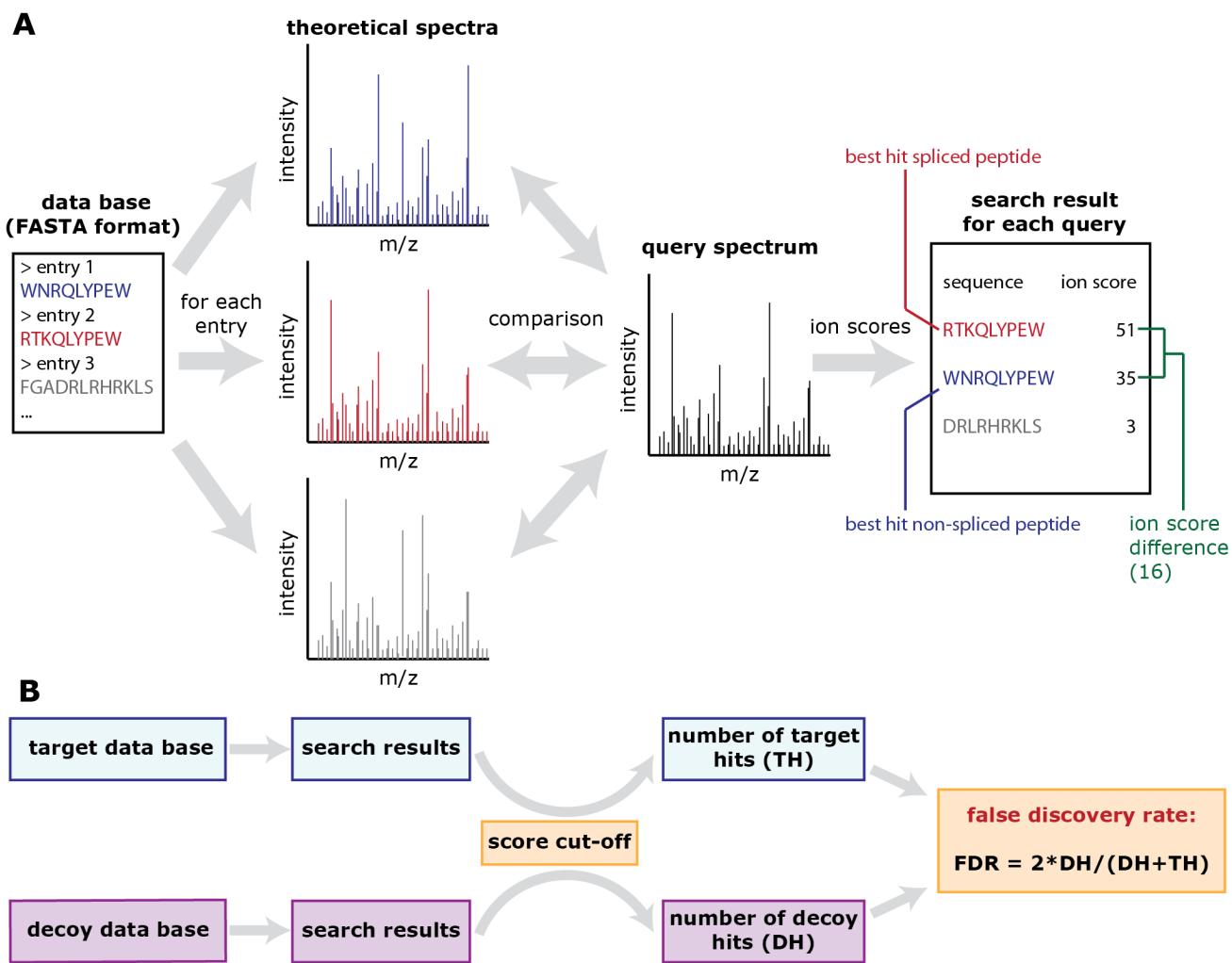
We thus generate a smaller database of 9-12mer peptide sequences ( $2.5 \times 10^9 - 3.75 \times 10^9$  entries; 200-300GB in FASTA format,  $\sim 8 \times 10^{-7}$  % of entire human proteome spliced peptide database), which can still be handled by most available peptide identification software, *e.g.* the Mascot algorithm.

From the entire human proteome database (Swissprot) all 9-12mer spliced peptide sequences and their molecular weights (MW) are computed. This spliced proteome database is then filtered by the precursor masses observed in the MS data set, resulting in a FASTA-formatted MW-specific spliced peptide database.

We then compute all non-spliced 9-12mer peptides and their MW from the human proteome database. These non-spliced peptides are also filtered by the precursor masses observed in the MS data set, resulting in a MW-specific non-spliced peptide database.

Both, spliced and non-spliced databases are then transformed into a FASTA format with a structure, which follows that of the human proteome. The decoy database is computed through randomization.

The MS/MS spectra are then searched against the obtained database and the decoy database simultaneously. Search results are filtered using an ion score cut-off resulting in 1% FDR, resulting in the final list of identified non-spliced and spliced peptides.

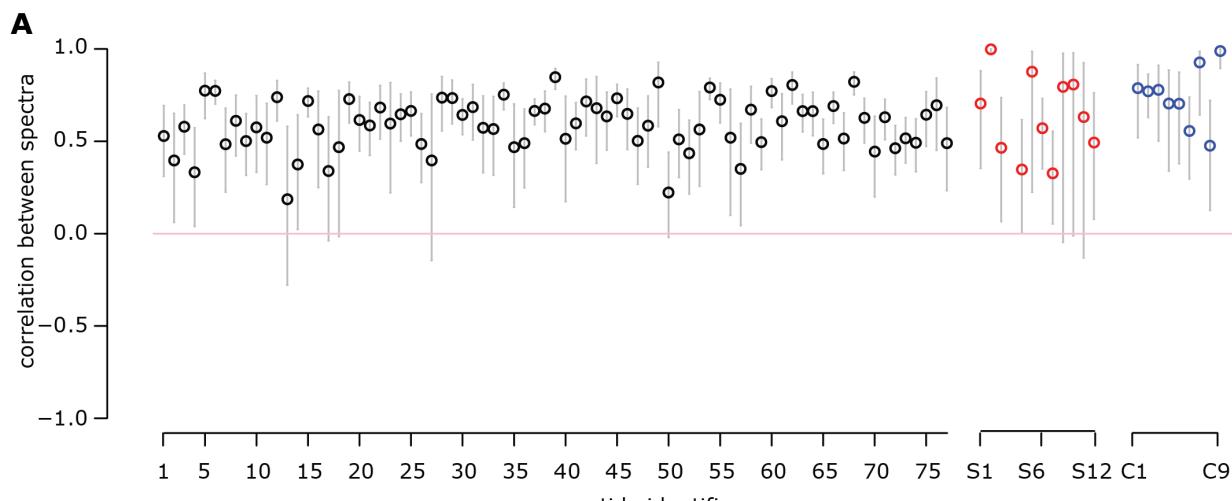


**Figure S4.**

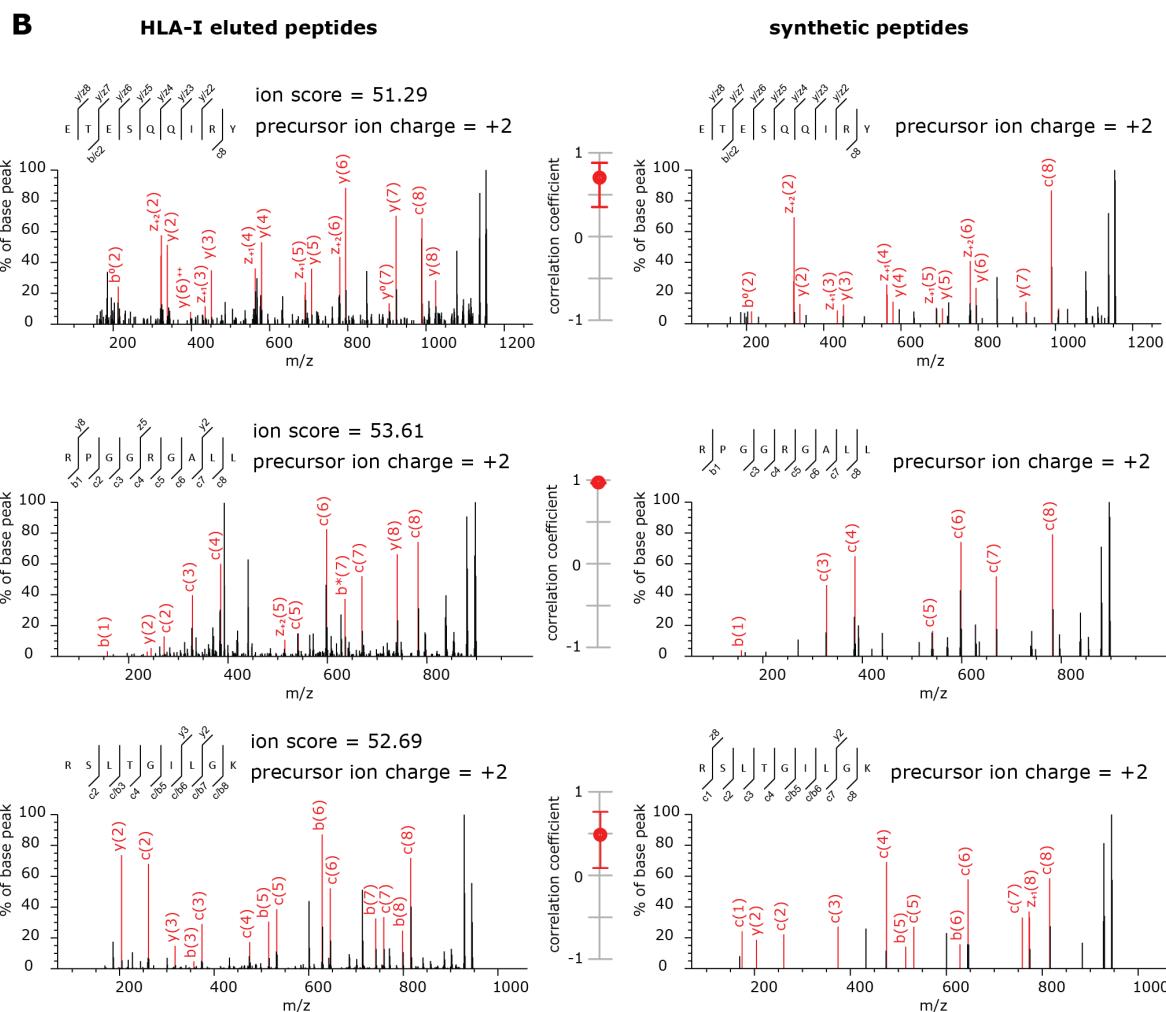
Mass spectrometry data analysis. The acquired MS data consist of a precursor ion mass and charge (which defines the observed MW of a peptide) and an MS/MS spectrum (which consists of pairs of observed  $m/z$  values and intensities for the detected fragments resulting from the precursor ion). The MS/MS spectra need to be translated into amino acid sequences, which is done by common MS software. Different approaches are available and we describe the one applied in this study.

**(A) Database search strategy (target search):** For each MS/MS spectrum, a software is used (in our case Mascot and SEQUEST) to determine the corresponding peptide sequence in a database containing proteins gives the best match. Each entry in the database is ‘digested’ *in silico* and the masses of the intact peptides calculated. If the calculated mass of a peptide matches that of an observed peptide, the masses of the expected fragment ions are calculated, resulting in a theoretical spectrum and compared with the experimental (query) MS/MS spectrum. The quality of a match is expressed by the ion score (Mascot), which is high for good agreement between query and theoretical spectra. For each query spectrum a list of peptide sequences with their corresponding ion scores is computed. The best hit is taken as the identified sequence, if its ion score is above a give score threshold. The score difference between the best peptide sequence hit and the next best hit is defined as the ion score difference, which is sometimes used as an additional threshold.

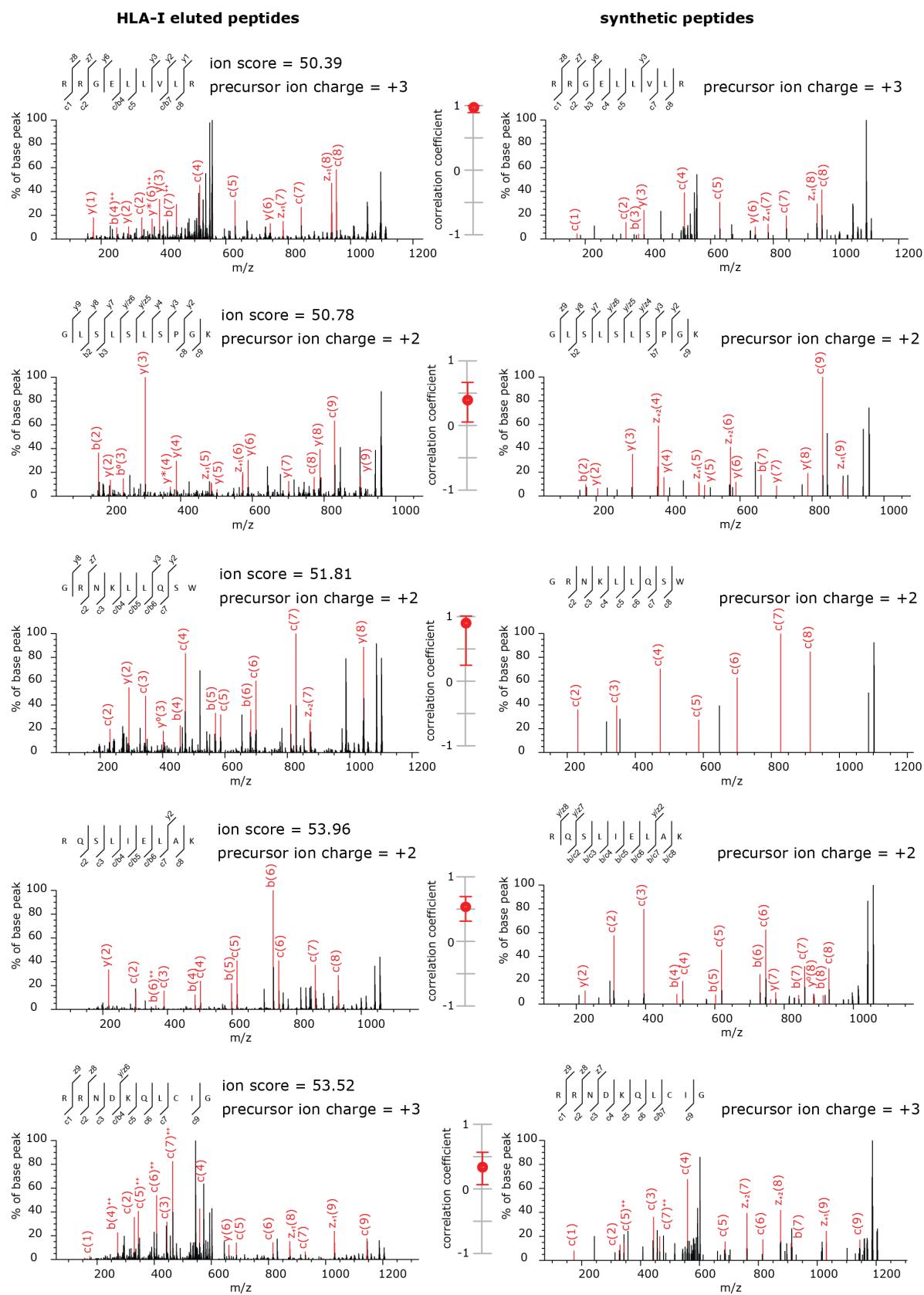
**False discovery rate (FDR):** Precise methods for estimating incorrect peptide identifications are crucial for effective proteome analyses by MS/MS. In the target-decoy search strategy, which is an effective tool for generating such estimations, the same database search strategy previously used to match the MS/MS (see database search strategy or target search) is now repeated against a database in which the sequences have been reversed or randomized. This strategy is based on the premise that, necessarily incorrect “decoy” sequences added to the search space will correspond with incorrect search results that might otherwise be deemed to be correct. With this knowledge, it is possible to estimate the percentage of incorrect results, *i.e.* the FDR, in a final data set. Several assumptions must be fulfilled for a target decoy strategy (*e.g.* the target database must not be structured; target and decoy databases must not overlap), which should be carefully considered in any MS/MS analysis approach. An excellent review about target decoy strategies is provided in (43).

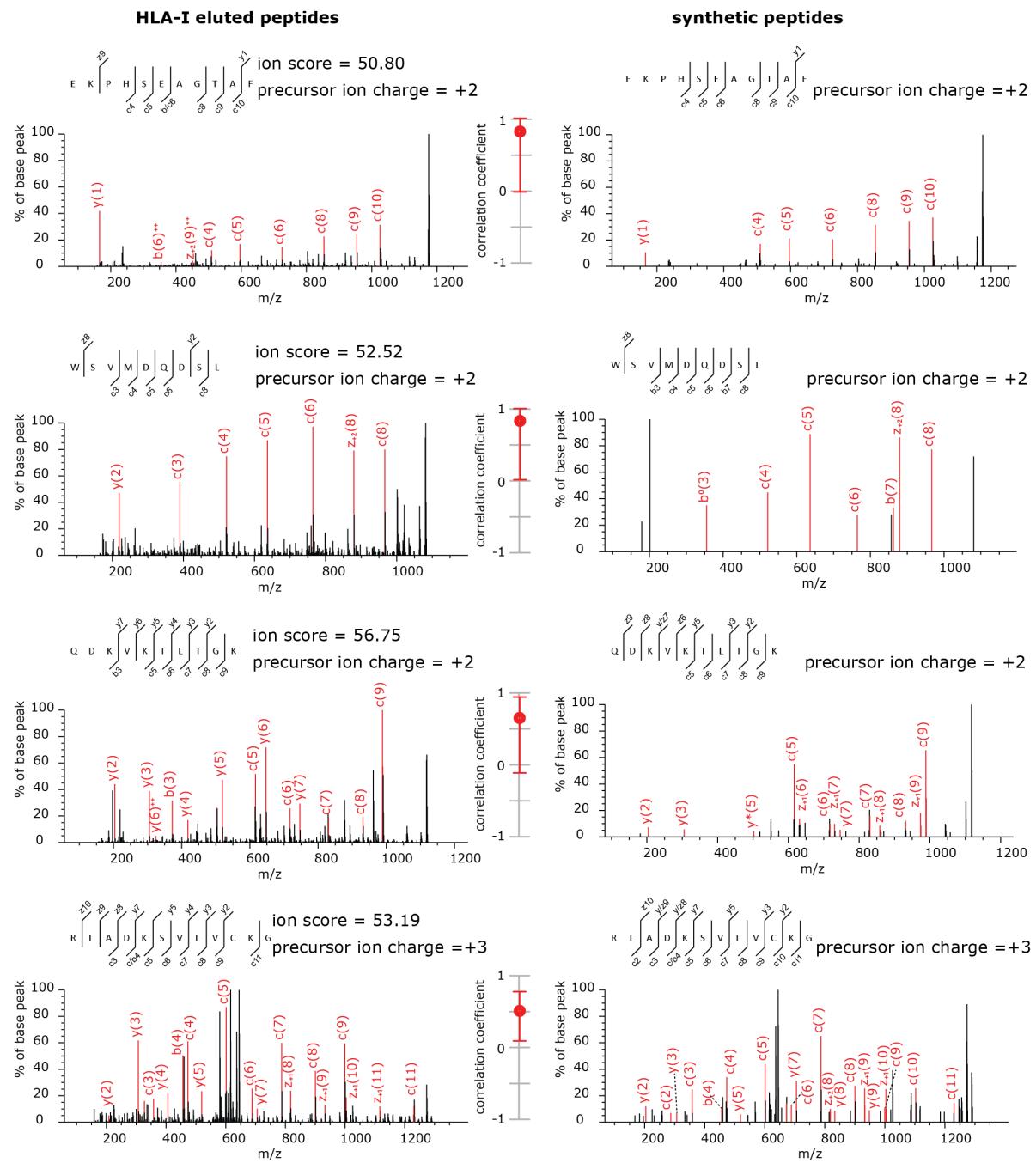


- correlation score between synthetic peptide spectrum and observed spectrum in data set
- exemplary spliced peptides that would have been wrongly identified as non-spliced peptides (all MS/MS spectra shown in **Fig. S7**)
- exemplary spliced peptides with MS/MS spectra shown in **Fig. S5B**
- confidence interval of correlation score



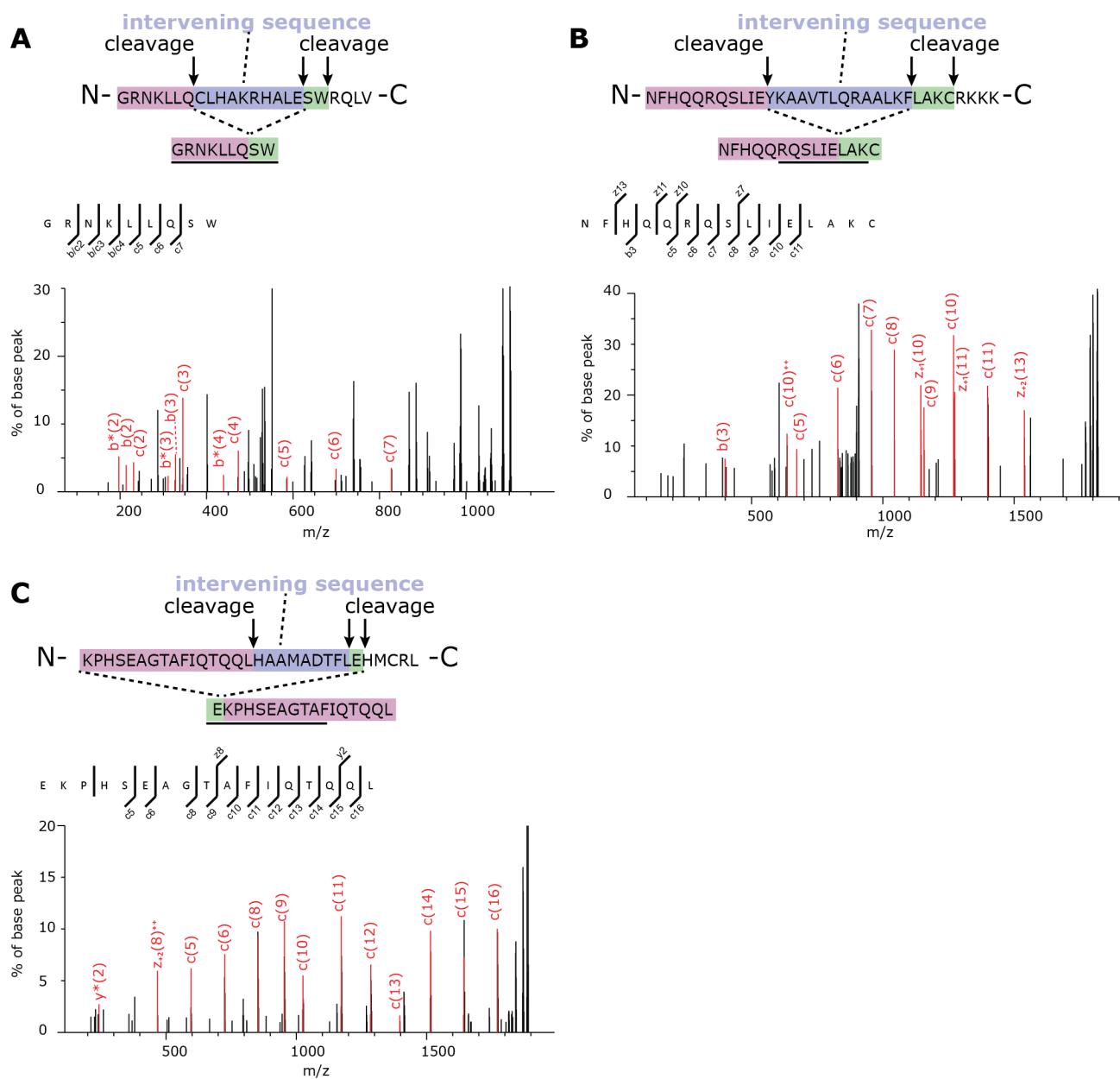
**Figure S5 (to be continued)**

**Figure S5 (to be continued)**

**Figure S5.**

Comparison of EThcD MS/MS spectra of 98 spliced peptides eluted from the GR-LCL HLA-I molecules to their corresponding synthetic peptides. **A)** We test 99 spliced peptides identified among the GR-LCL HLA-I immunopeptidome adopting the 2D EThcD strategy (**Table S1**). From those we obtain 98 high quality MS/MS spectra also for the synthetic peptides. All 99 LC-MS/MS spectra of the HLA-I-eluted peptide specimen and their corresponding synthetic peptide LC-MS/MS spectra are manually compared and checked for agreement. Shown are the Pearson correlation coefficients (ranges from -1 to 1) between the log intensities of identified b-, y-, c- and z-ions plotted as mean (black circle) with 5% and 95% confidence intervals. The closer this correlation coefficient is to 1 the more correlated are the two spectra, *i.e.* the more similar are the intensities and patterns of the characteristic ions. Circles marked in blue indicate peptides whose

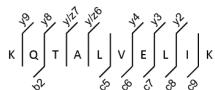
LC-MS/MS spectra are displayed in **Fig. S7**; circles marked in red indicate peptides whose LC-MS/MS spectra are displayed in **Fig. S5B**; circles marked in black indicate peptides whose LC-MS/MS spectra are displayed in Auxiliary Supplementary Fig.1. The peptide numbers/identifiers correspond to those in **table S2**. **B)** Sequence of 12 example spliced peptides [E][TESQQIRY], [RPGGRGA][LL], [RSLTGIL][GK], [RRGEL][LVLR], [GLSLSLSPG][K], [GRNKLLQ][SW], [RQSLIE][LAK], [RRNDKQLC][IG], [E][KPHSEAGTAF], [WSVMDQ][DSL], [QDK][VKTLTGK] and [RLADKSVLVCK][G] identified among the GR-LCL HLA-I immunopeptidome adopting the 2D EThcD strategy (see also **table S1** and **table S2** sequence identifiers S1-S12). For each of these 12 spliced epitopes the LC-MS/MS spectrum of the HLA-I-eluted peptide specimen and the corresponding synthetic peptide are shown. Detected *m/z* and charges are indicated in red. In the spectra charged b-, y-, c- and z-ions are reported. Double charged ions are marked as <sup>++</sup>. Ions' neutral loss of water and of ammonia are symbolized by <sup>o</sup> and \*, respectively. The Pearson correlation coefficient for each spectrum pair is displayed.

**Figure S6.**

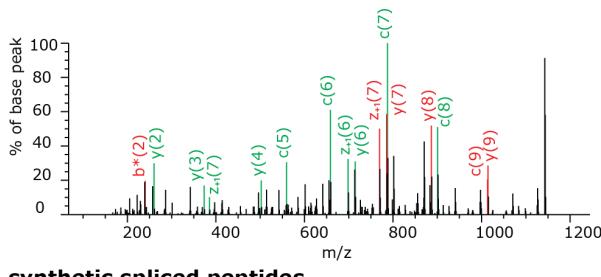
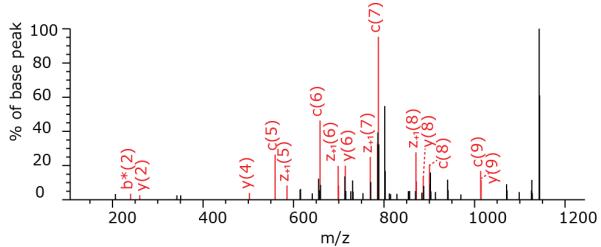
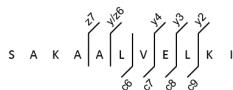
EThcD LC-MS/MS spectra of three representative spliced peptides produced by PCPS *in vitro*. Sequence of the synthetic substrates NFHQQRQSLIEYKAAVTLQRAALKFLAKCRKKK (derived from IQ calmodulin-binding motif-containing protein 1), GRNKLLQCLHAKRHALESWRQLV (derived from Nuclear pore complex protein Nup205), and KPHSEAGTAFIQTQQLHAAMADTFLEHMCRRL (derived from Pyruvate kinase isoforms M1/M2) and the corresponding antigenic spliced peptides [RQSLIE][LAK], [GRNKLLQ][SW], [E][KPHSEAGTAF] are depicted. These spliced peptides are identified among the GR-LCL HLA-I immunopeptidome (**Table S1A**). Their generation from the synthetic peptides is verified by *in vitro* digestion assays using purified LCL-derived 20S proteasome. The spliced peptides are identified as such – this is the case of the peptide [GRNKLLQ][SW] – or as N- and C-terminal extended precursor – this is the case of the peptide [RQSLIE][LAK] – or as C-terminal extended precursor, as in the case of the peptide [E][KPHSEAGTAF]. The N- and C-terminal trimming of spliced and non-spliced peptides, thereby generating the HLA class I-restricted

epitopes, has been previously demonstrated (16, 37, 44).

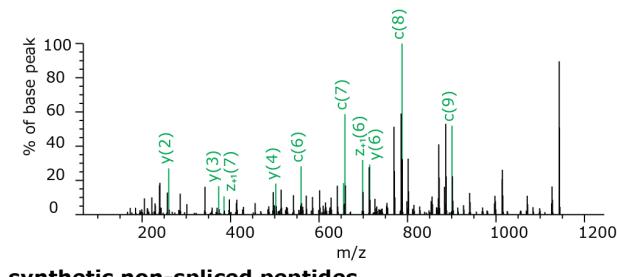
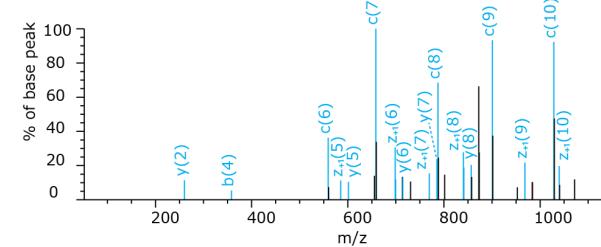
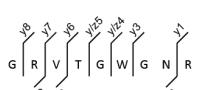
For each spliced peptide the ETheD MS/MS spectrum obtained in the *in vitro* digestion is shown. Detected *m/z* and charges are enclosed in parenthesis. In the spectra charged b-, y-, c- and z-ions are reported.

**A****HLA-I eluted peptide (spliced pept. annot.)**

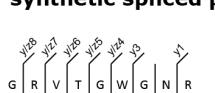
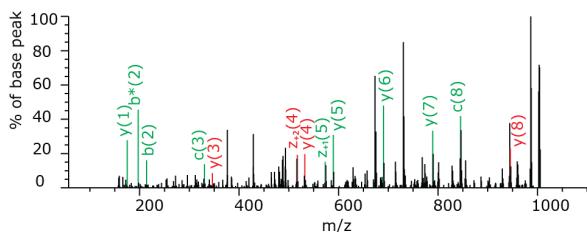
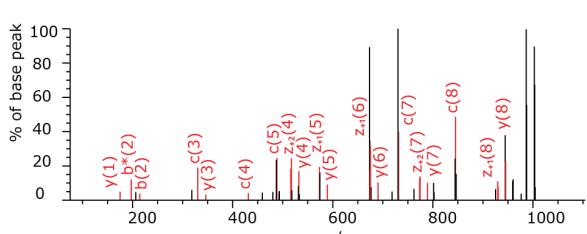
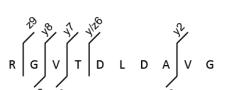
ion score = 63.8

correlation coefficient  
-1 0 1**HLA-I eluted peptide (non-spliced pept. annot.)**

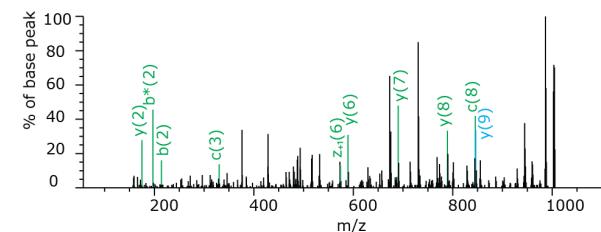
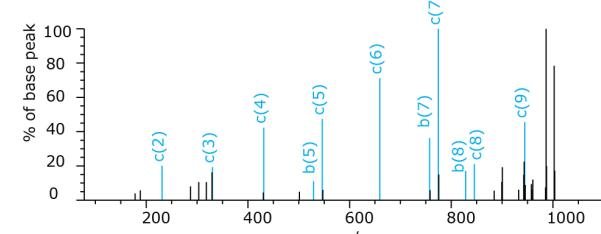
ion score = 31.1

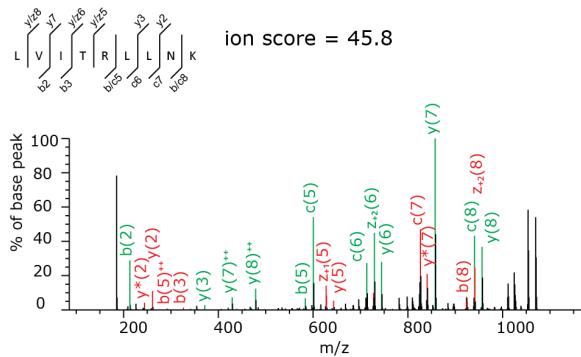
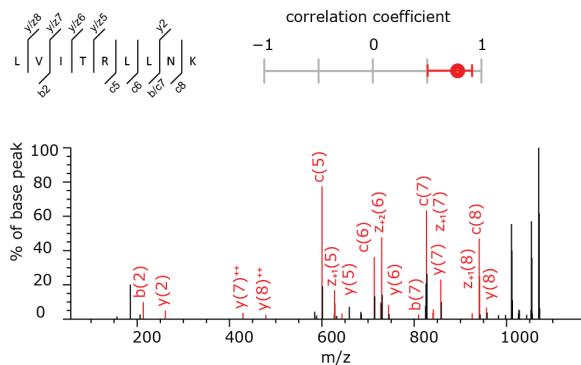
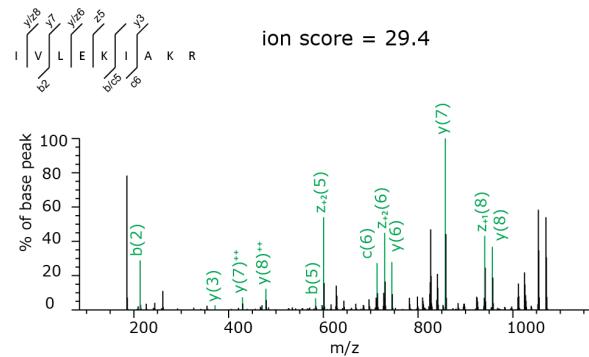
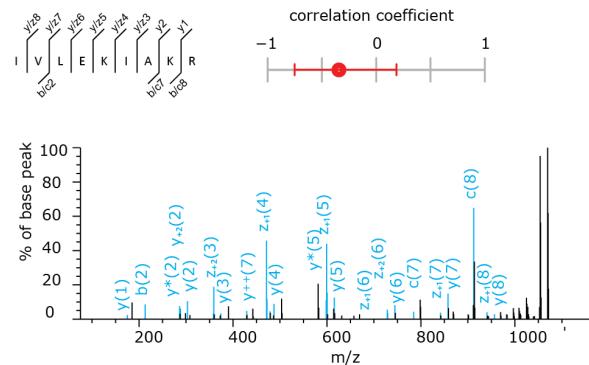
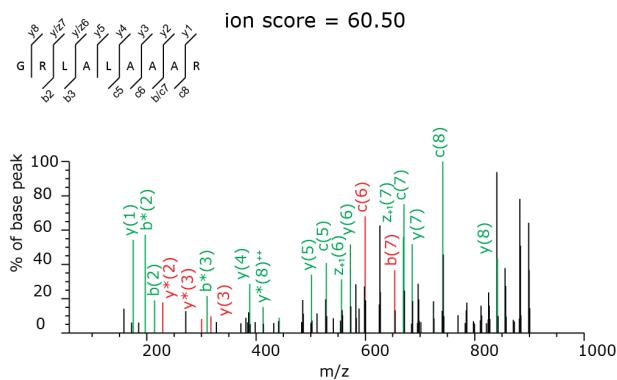
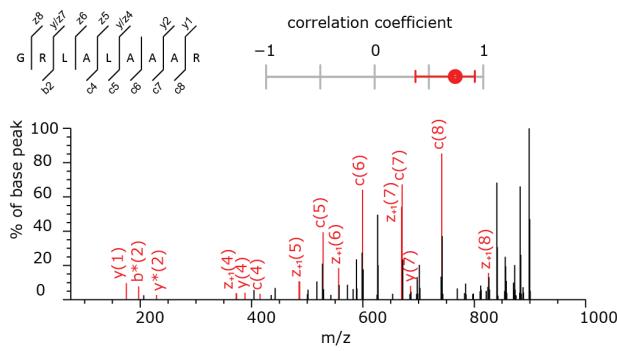
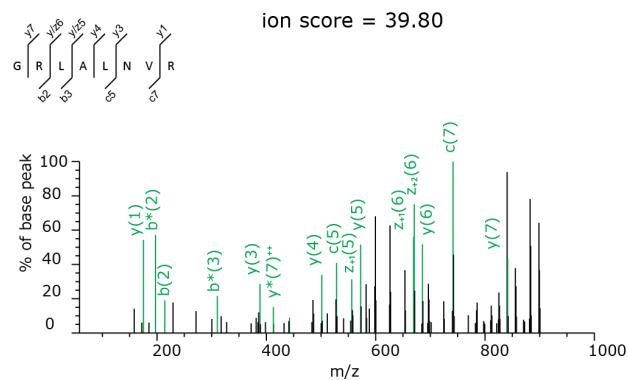
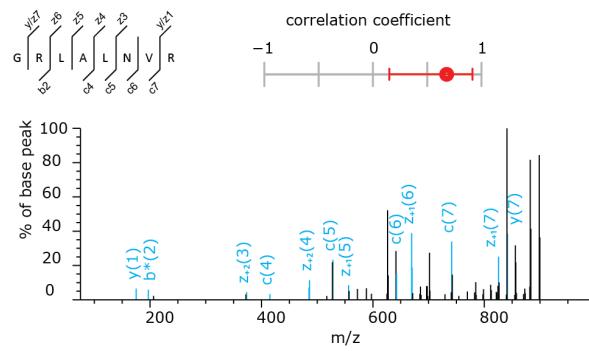
correlation coefficient  
-1 0 1**B****HLA-I eluted peptide (spliced pept. annot.)**

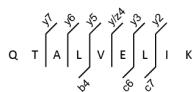
ion score = 49.4

correlation coefficient  
-1 0 1**HLA-I eluted peptide (non-spliced pept. annot.)**

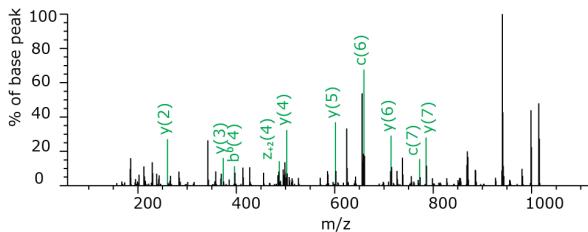
ion score = 24.0

correlation coefficient  
-1 0 1**Figure S7 (to be continued)**

**C****HLA-I eluted peptide (spliced pept. annot.)****synthetic spliced peptides****HLA-I eluted peptide (non-spliced pept. annot.)****synthetic non-spliced peptides****D****HLA-I eluted peptide (spliced pept. annot.)****synthetic spliced peptides****ion score = 39.80****synthetic non-spliced peptides****Figure S7 (to be continued)**

**E****HLA-I eluted peptide (spliced pept. annot.)**

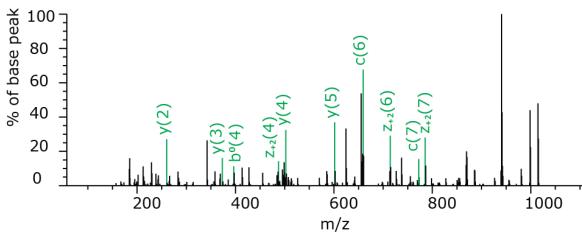
ion score = 44.1

**synthetic spliced peptides**

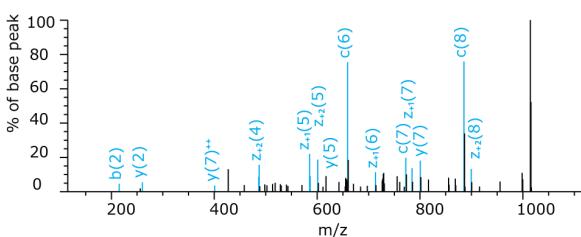
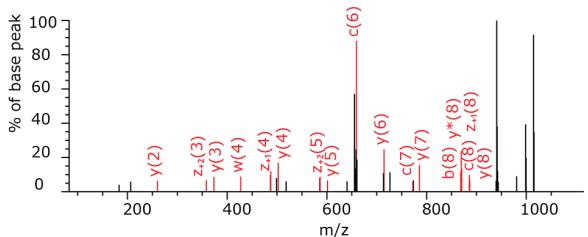
correlation coefficient

**HLA-I eluted peptide (non-spliced pept. annot.)**

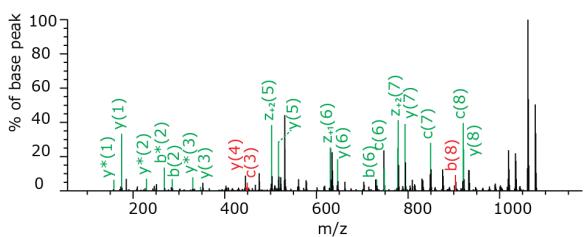
ion score = 26.0

**synthetic non-spliced peptides**

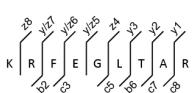
correlation coefficient

**F****HLA-I eluted peptide (spliced pept. annot.)**

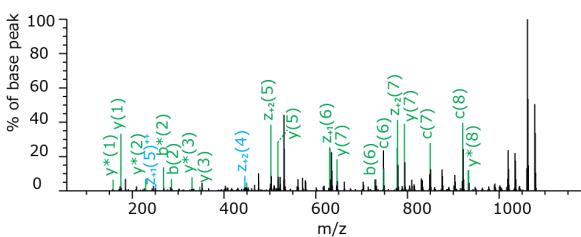
ion score = 50.3

**synthetic spliced peptides**

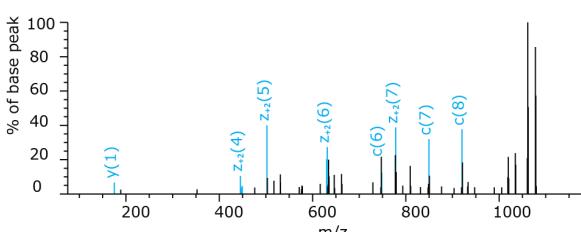
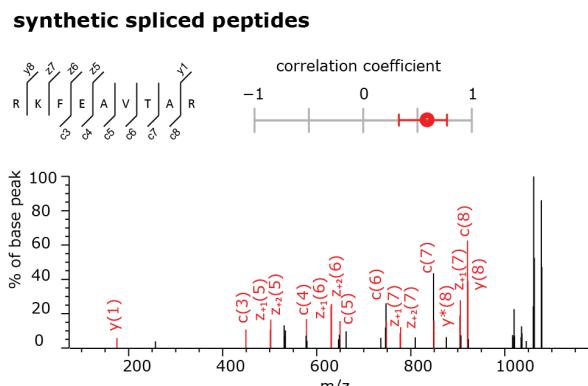
correlation coefficient

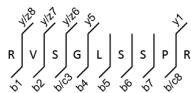
**HLA-I eluted peptide (non-spliced pept. annot.)**

ion score = 33.7

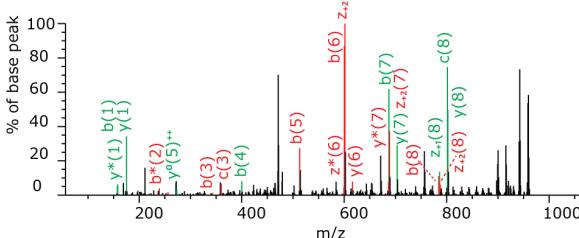
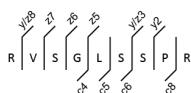
**synthetic non-spliced peptides**

correlation coefficient

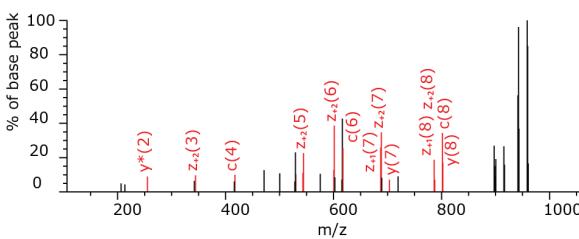
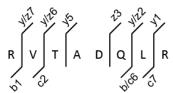
**Figure S7 (to be continued)**

**G****HLA-I eluted peptide (spliced pept. annot.)**

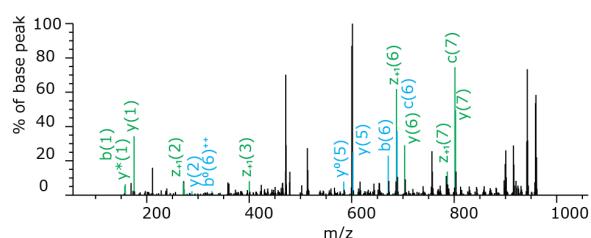
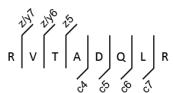
ion score = 43.1

**synthetic spliced peptides**

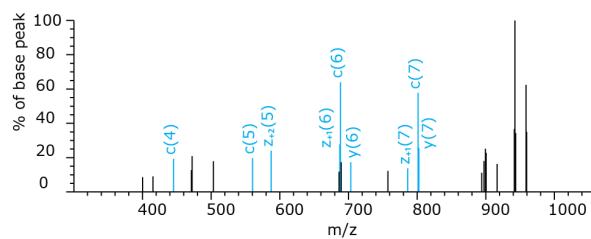
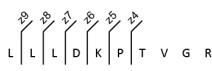
correlation coefficient

**HLA-I eluted peptide (non-spliced pept. annot.)**

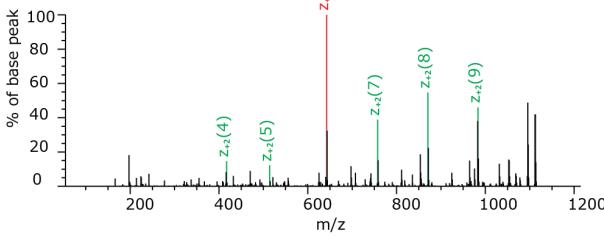
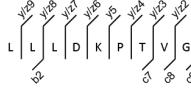
ion score = 25.7

**synthetic non-spliced peptides**

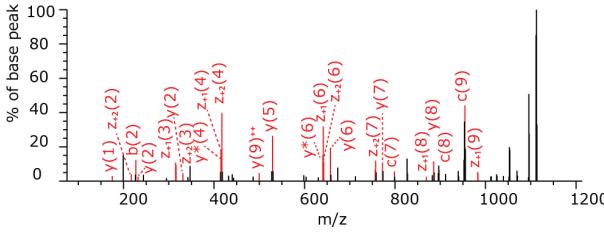
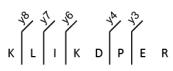
correlation coefficient

**H****HLA-I eluted peptide (spliced pept. annot.)**

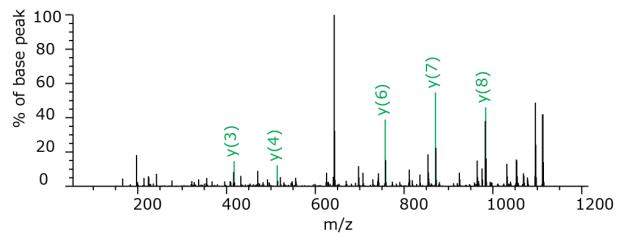
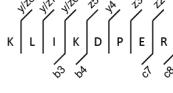
ion score = 43.3

**synthetic spliced peptides**

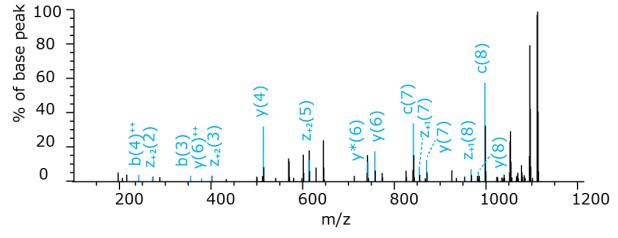
correlation coefficient

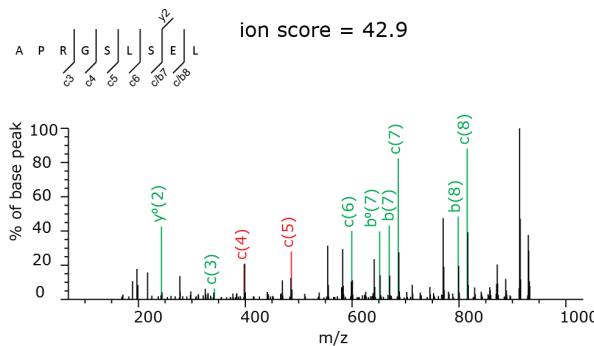
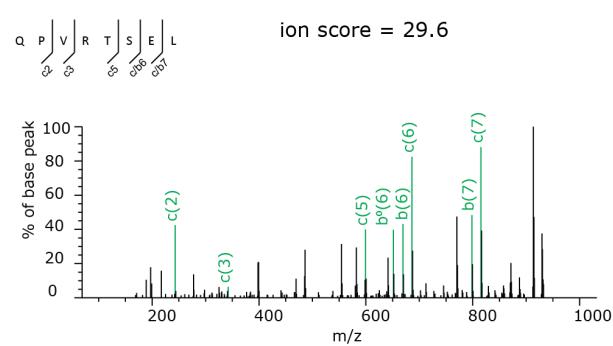
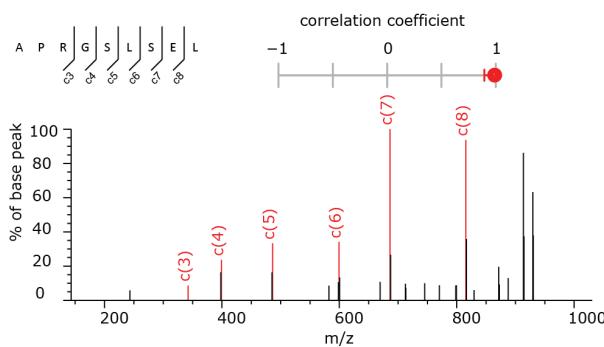
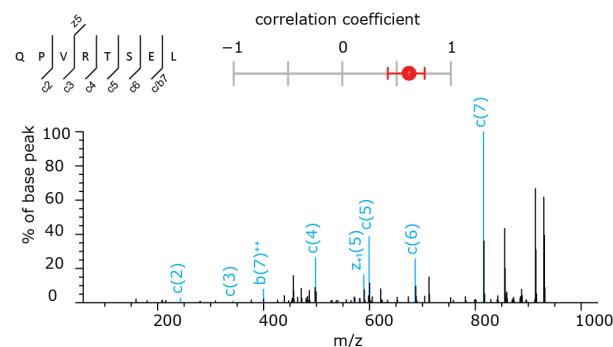
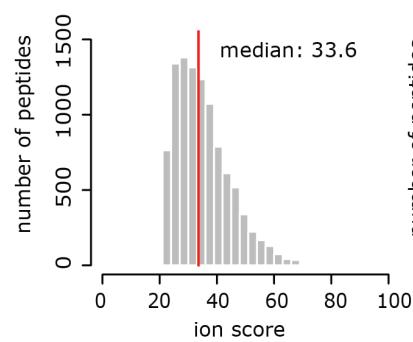
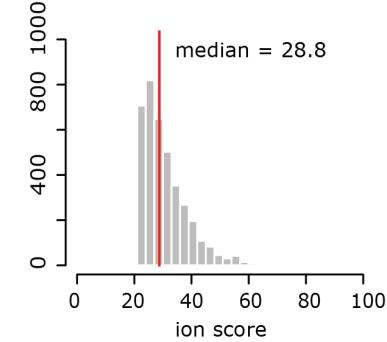
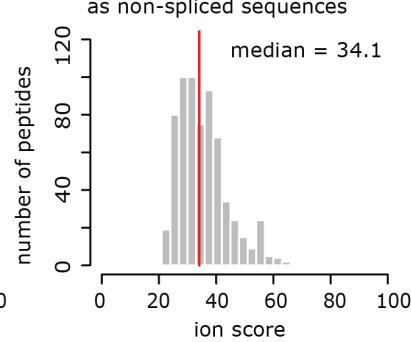
**HLA-I eluted peptide (non-spliced pept. annot.)**

ion score = 27.9

**synthetic non-spliced peptides**

correlation coefficient

**Figure S7 (to be continued)**

**I****HLA-I eluted peptide (spliced pept. annot.)****HLA-I eluted peptide (non-spliced pept. annot.)****synthetic spliced peptides****synthetic non-spliced peptides****J****all non-spliced sequences****all spliced sequences****spliced sequences, that would have been annotated as non-spliced sequences****Figure S7.**

MS characteristics and MS/MS spectra of antigenic spliced peptides that would be wrongly assigned as non-spliced peptides. **A-I)** EThcD MS/MS spectra of 9 representative peptides eluted from the GR-LCL HLA-I molecules compared to synthetic spliced and non-spliced peptide candidates. A relative small portion (4 – 9 %, see **Fig. 1**) of antigenic peptides would be wrongly assigned as non-spliced peptides by querying the HLA-I immunopeptidome of GR-LCL raw data against the standard Swissprot human proteome database. This risk is here depicted by showing the MS/MS spectra of nine peptides identified in the GR-LCL HLA-I immunopeptidome (2D strategy) that could be annotated as spliced (*i.e.* [KQTALVEL][IK], [GRVTGWGN][R], [LVIT][RLLNK], [GRL][ALAAAR], [QTALVE][LIK], [RKFEAV][TAR], [R][VSGLSSPR], [LLLDKP][TVGR], [APRG][SLSEL]) or non-spliced (*i.e.* [SAKAALVELKI], [RGVTDLDAVG], [IVLEKIAKR], [GRLALNVR], [VDAKVEIJK], [KRFEGLTAR],

[RVTADQLR], [KLKDPERL], [QPVRTSEL]) peptides. For each antigenic peptide the LC-MS/MS spectra of the assigned spliced or non-spliced sequence and the corresponding synthetic peptide is shown. Detected  $m/z$  and charges are indicated in red for ions assigned specifically to the spliced peptide, in blue for ions assigned specifically to the non-spliced peptide, and in green for ions that can be assigned to both spliced and non-spliced peptides. In the spectra charged b-, y-, c- and z-ions and ion score are reported. Double charged ions are marked as  $^{++}$ . Ions' neutral loss of water and of ammonia are symbolized by  $^{\circ}$  and  $*$ . The Pearson correlation coefficient between the log intensities of identified b-, y-, c- and z-ions is plotted as mean (red circle) and 5% and 95% confidence intervals. The closer this correlation coefficient is to 1 the more correlated are the two spectra, *i.e.* the more similar are the intensities and patterns of the characteristic ions. **J)** Distribution of the Mascot ion score of the non-spliced and spliced peptides and of those spliced peptides that would be wrongly assigned as non-spliced antigenic peptides by using the standard Swissprot human proteome database.

### Identification of spliced peptides presented on MHC-I molecules

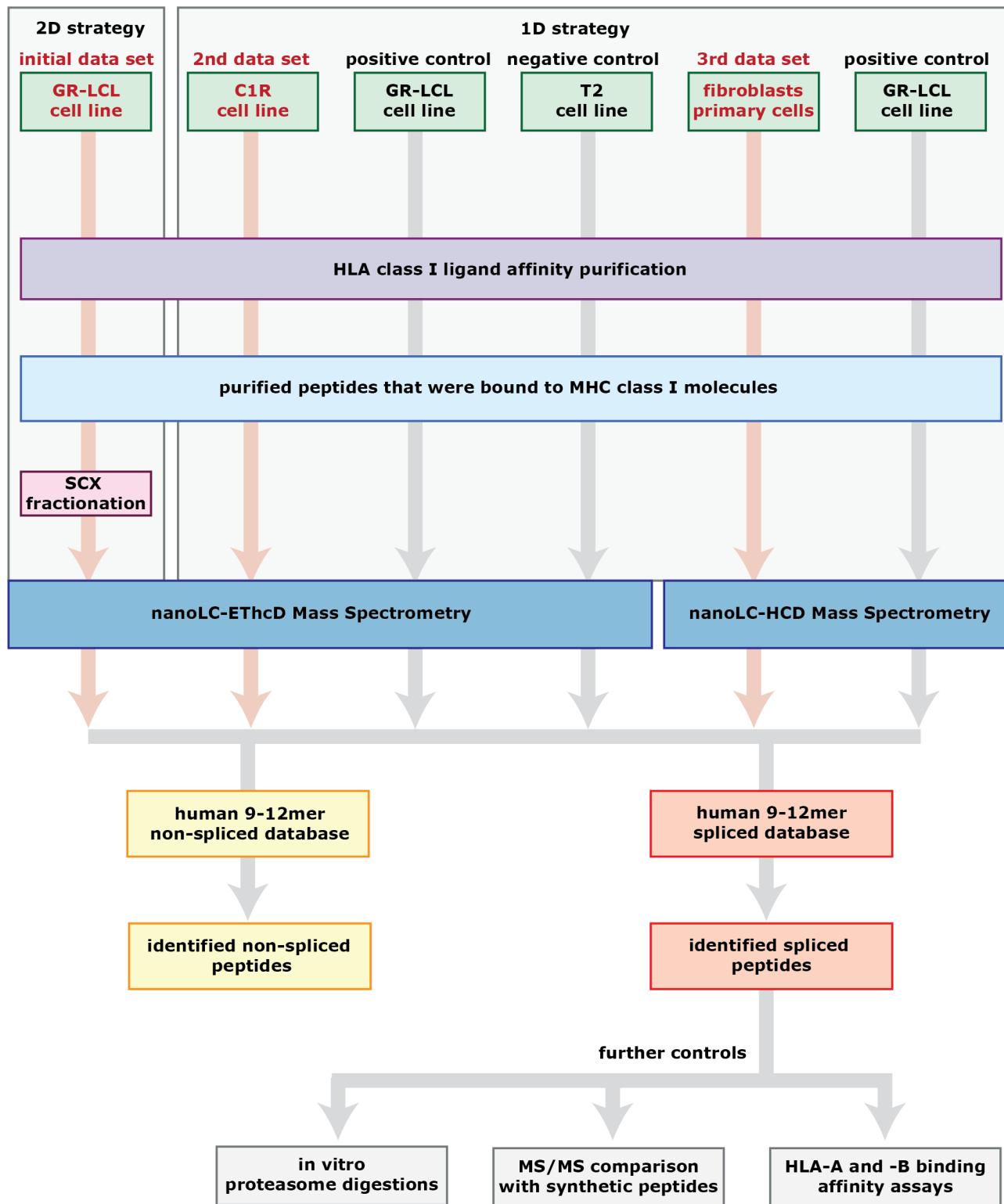
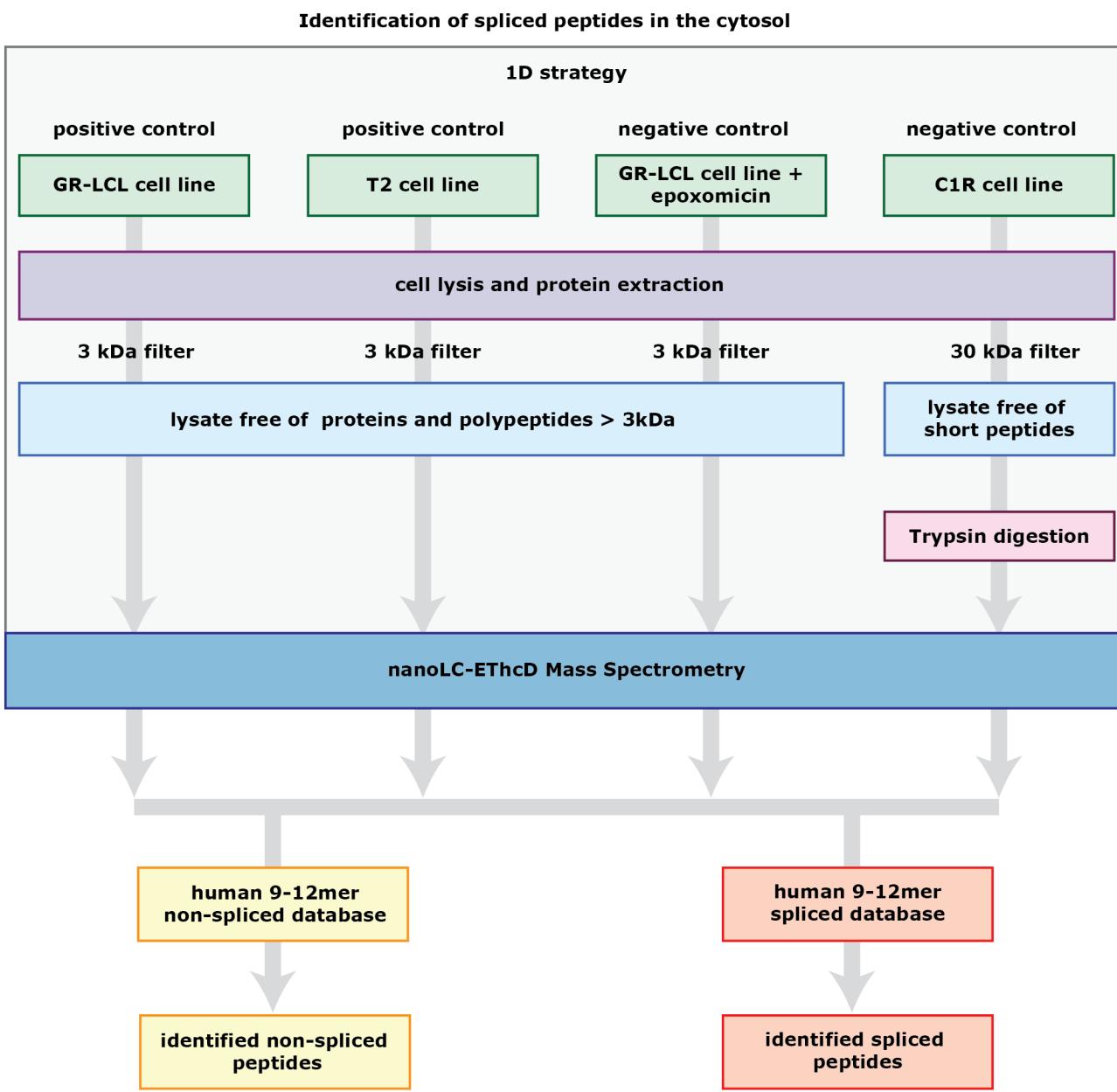
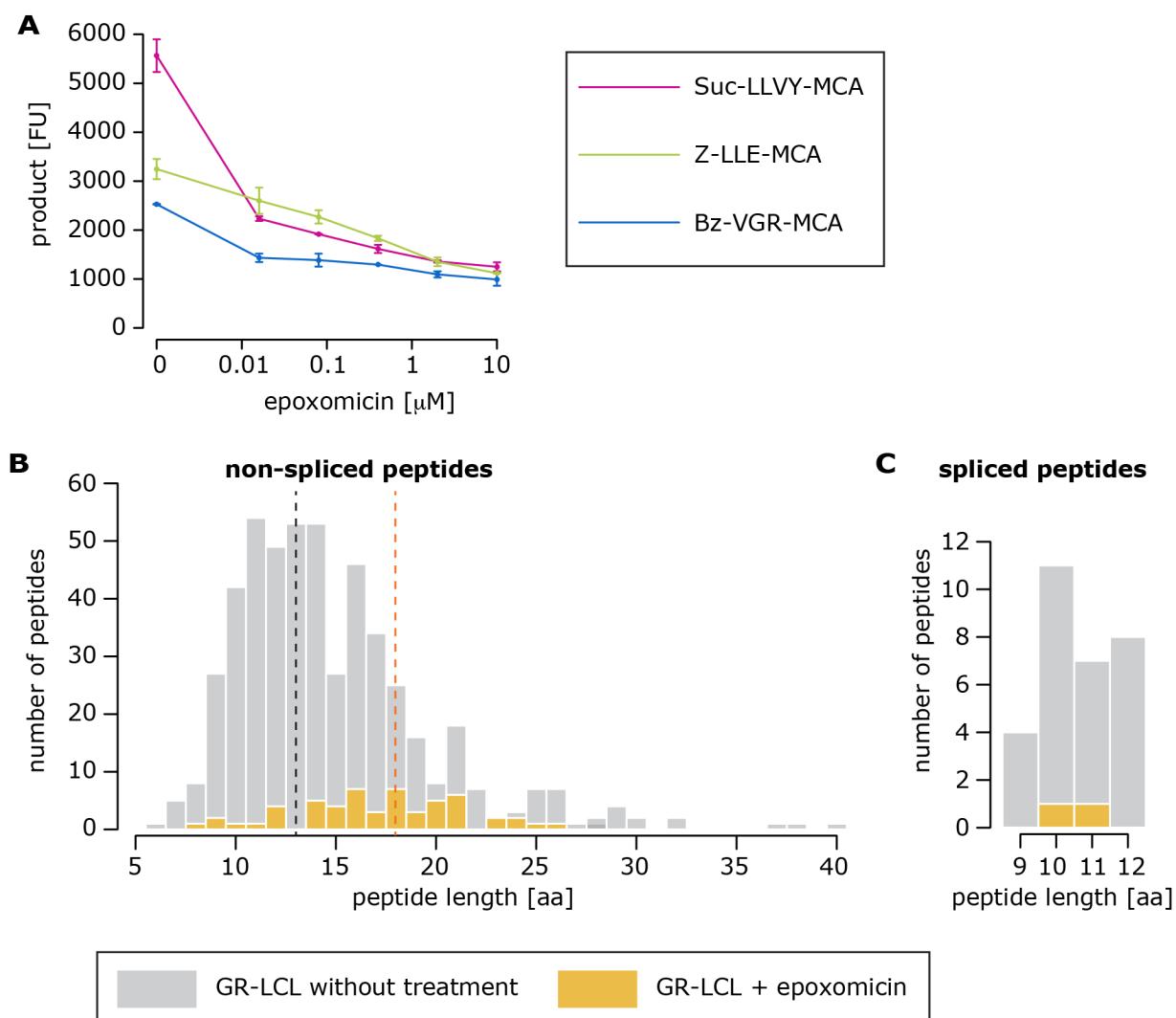


Figure S8 (to be continued)

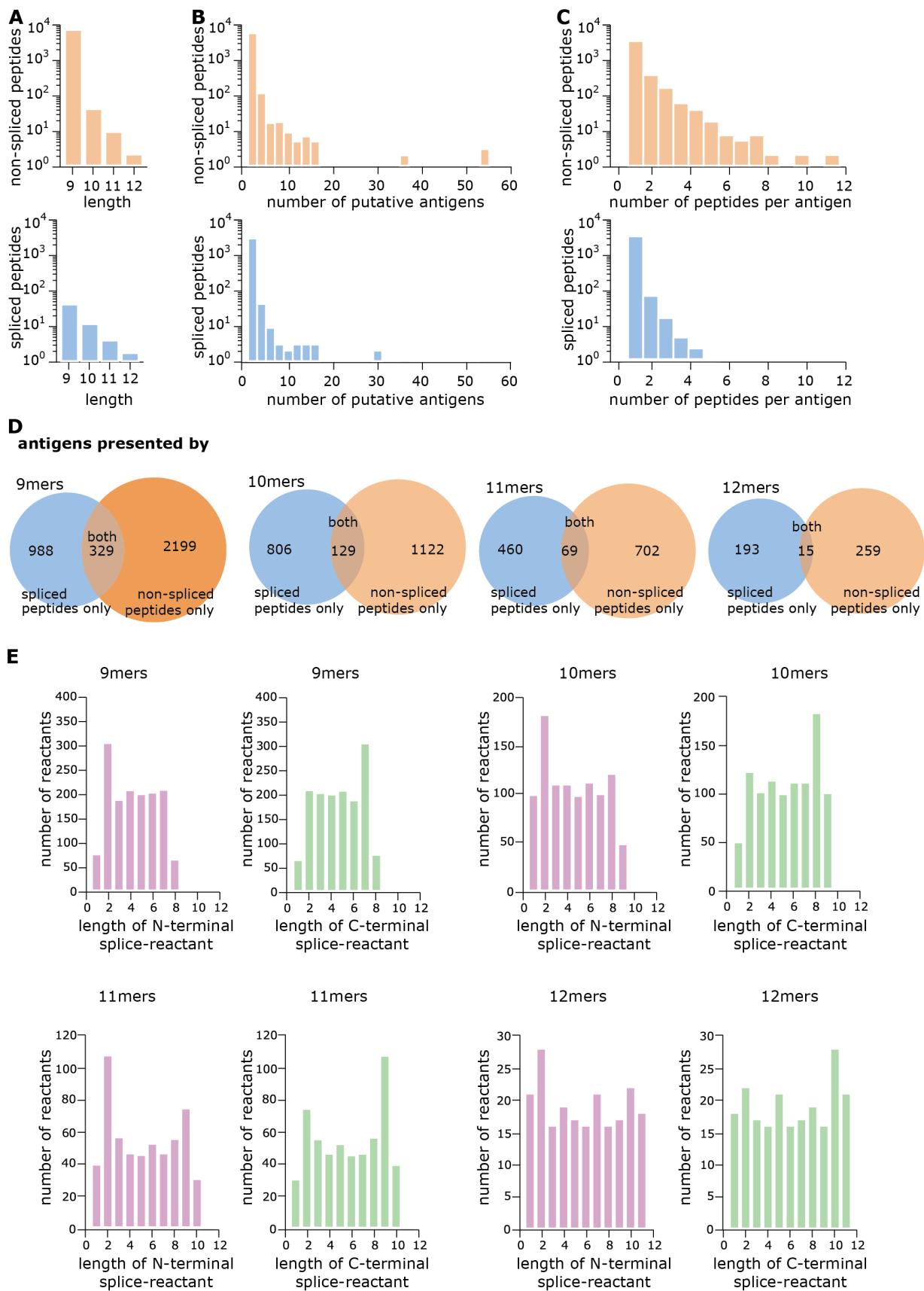
**Figure S8.**

Schematic of the datasets analyzed. **A-B)** An overview of the workflow and the different samples analyzed are provided. **A)** HLA-I-bound peptide datasets. The initial data set is generated from a GR-LCL HLA-I immunopeptidome. The second data set is generated and analyzed from C1R cell line. The third analyzed data set originates from human primary fibroblasts and is taken from the PRIDE archive (<http://www.ebi.ac.uk/pride/archive/projects/PXD000394/files>). We use in particular the file “20130504\_EXQ3\_MiBa\_SA\_Fib-2.mgf” published by Bassani-Sternberg et al (6). The first (GR-LCL) dataset is analyzed using a 2D strategy (SCX fractioning and RP HPLC fractioning), resulting in identification of non-spliced and spliced peptides. As positive controls we repeat the analysis using a 1D strategy (only RP HPLC fractioning) using a technical replicate of the same cell line in combination with EThcD or HCD fragmentation to test the dependency of the peptide identifications on the applied strategy. Furthermore, to test whether the excessive

occurrence of spliced peptides is cell line dependent, we repeat the 1D analysis using a C1R cell line and human primary fibroblasts, which provide comparable results. As control a dataset from a TAP-deficient T2 cell line is generated and analyzed. We observe a dramatic reduction in the number of identified spliced peptides. This confirms the proteasome-dependency of the spliced peptide generation. In addition, we: (i) test whether spliced peptide examples ( $n = 3$ ) are generated *in vitro* from the corresponding synthetic polypeptides by LCL-derived 20S proteasome, (ii) experimentally measure the binding affinity to the GR-LCL-specific HLA-A and -B variants and the selected spliced peptides ( $n = 90$ ), and compare their observed MS/MS spectra with those generated by synthetic peptides ( $n = 99$ ). **B)** Cell lysate datasets. To measure the frequency of spliced peptides in the cell, we analyze the low molecular weight (MW) peptidome present in the cell lysate of the GR-LCL and the T2 cell lines. After cell lysis and protein extraction, the samples are filtered with a 3kDa filter in order to obtain only short polypeptides. Spliced 9-12mer peptides represent 18.9% and 24.7% of whole peptide pool derived from the GR-LCL and the T2 cell lines, respectively (**Fig. 1**). To test whether spliced peptides were in fact generated by proteasomes we analyze the low MW peptidome of the GR-LCL cultured in presence of the proteasome inhibitor epoxomicin (see also **Fig. S9**). The treatment with epoxomicin leads to a dramatic reduction in the overall number of identified non-spliced and spliced 9-12mer peptides (**Fig. 1**). As a further negative control we use the same C1R cell line, where instead of analyzing peptides bound to HLA-I molecules, we analyze the cell lysate after applying a 30 kDa filter in order to remove the proteasome-generated short protein fragments. In this sample we should not detect any spliced peptides although contamination by small peptides in the sample after 30 kDa filtering could not be ruled out. Analyzing this sample after tryptic digestion in a 1D strategy we identify 37 spliced peptides (estimated false positives) *vs* 1318 non-spliced peptides (estimated true positives) (9-12mers), resulting in a false discovery rate of 2.7%.

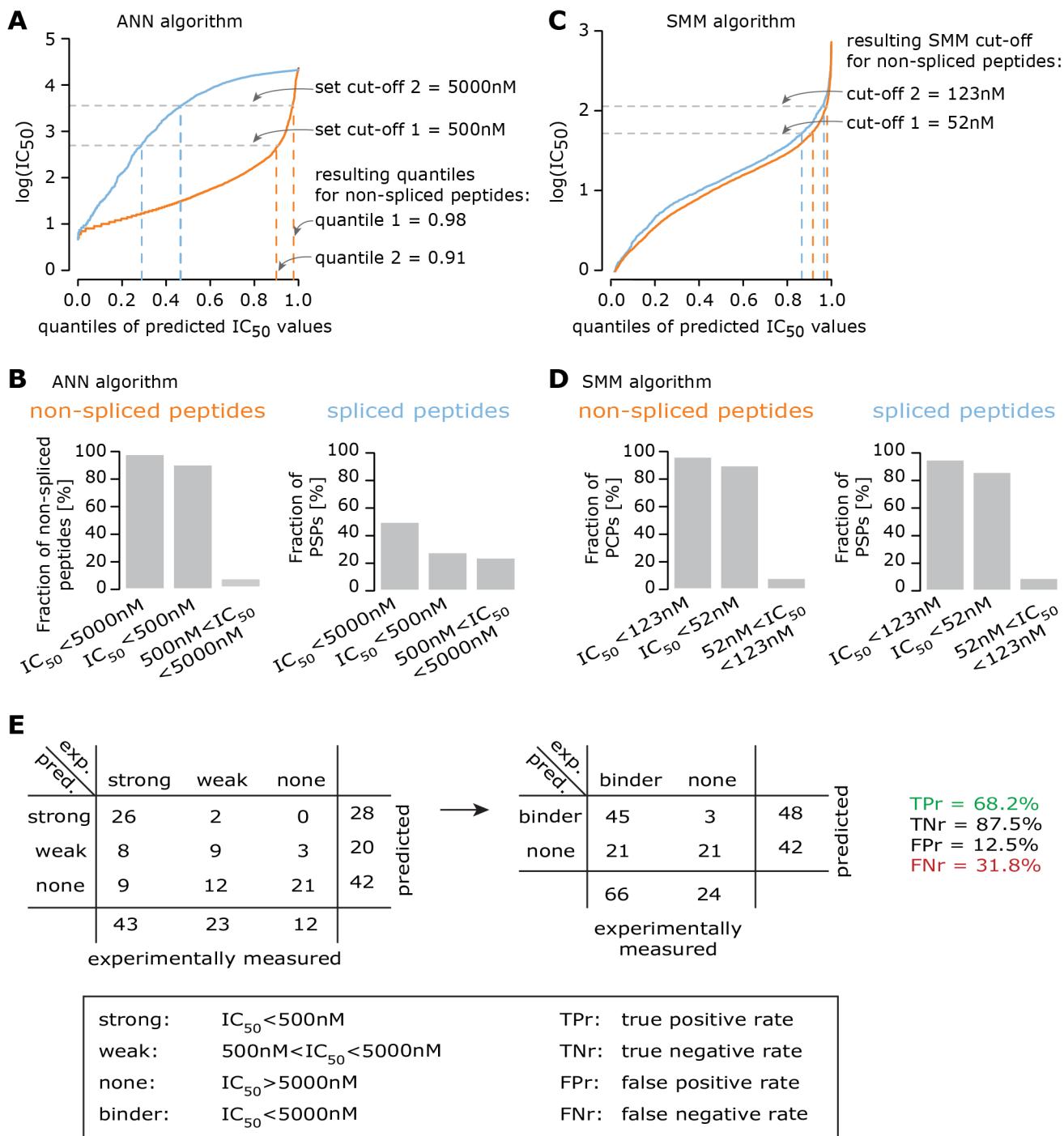
**Figure S9.**

Impact of the epoxomicin on the GR-LCL cell lysate peptidome. **A)** Products of degradation of the proteasome-selective short fluorogenic peptides Suc-LLVY-, Bz-VGR-, and Z-LLE-MCA (400  $\mu\text{M}$ ) by 50000 living GR-LCLs in 100  $\mu\text{l}$  RPMI medium with different concentration of epoxomicin (0 – 10  $\mu\text{M}$ ) for 4 h. The product amount is expressed as fluorescence unit (FU), whose values are subtracted of the values measured in absence of the cells. Values are mean and bars the SD of 2 independent experiments. **B-C)** Number and length of non-spliced (**B**) and spliced (**C**) peptides identified by EThcD in the GR-LCL cell lysates protein homogenate (filtered for selecting peptides smaller than 3 kDa) in presence or absence of the proteasome inhibitor epoxomicin (2  $\mu\text{M}$  for 4 h). Whereas the identification of the spliced peptides is restricted to 9-12mers the non-spliced peptides have been extended also to longer or smaller peptides. It is thus possible to appreciate the effect on median length of peptides of the peptides identified in cells cultivated for 4 h in presence of 2  $\mu\text{M}$  epoxomicin compared to the untreated cells. Differences between the distribution of peptide length in the GR-LCL cell lysate (< 3 kDa) treated *vs* not treated with epoxomicin is verified by applying a Kolmogorov-Smirnov test ( $p = 8.3 \times 10^{-6}$ ). Such an effect is likely due to the inhibition of proteasome activity, which generates peptides with average length around 11 amino acids (aa) (7, 8), while proteasome inhibition resulted in a median length of 18 aa.

**Figure S10.**

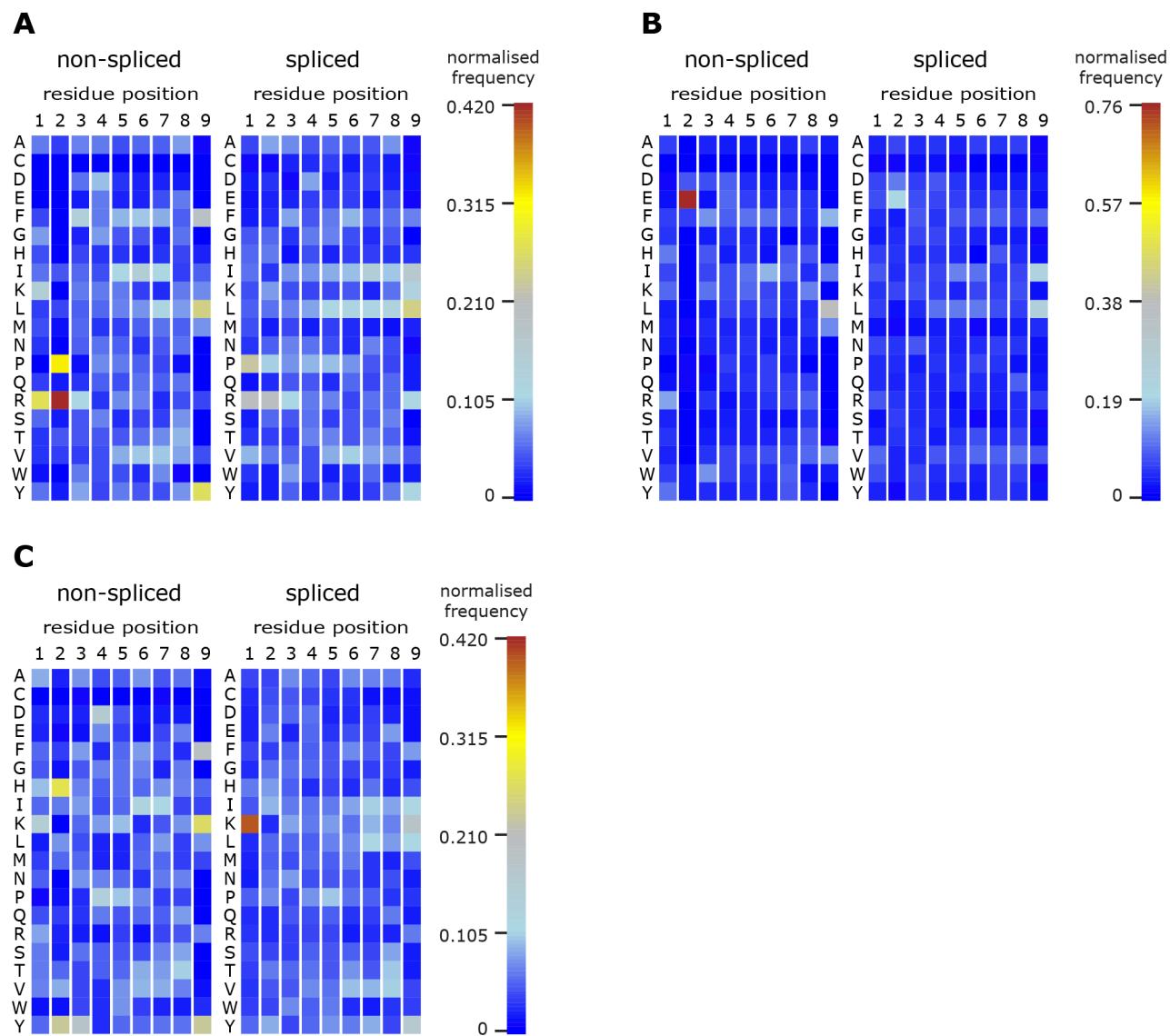
Characteristic of spliced peptides (blue) compared to non-spliced peptides (orange) identified in the 2D EThcD - GR-LCL HLA-I immunopeptidome. **A**) Length distribution of spliced and non-

spliced antigenic peptides. **B)** Distribution of the number of proteins (antigens) from which the identified spliced or non-spliced peptides could derive. **C)** Distribution of the number of spliced and non-spliced peptides representing the detected antigens. **D)** Number of antigens represented onto the HLA-I molecules by only spliced, only non-spliced or both spliced and non-spliced 9-12mer antigenic peptides. **E)** Length distribution of N- and C-terminal splice-reactants of spliced 9-12mer peptides. Colors correspond to colors in **Fig. S2**.

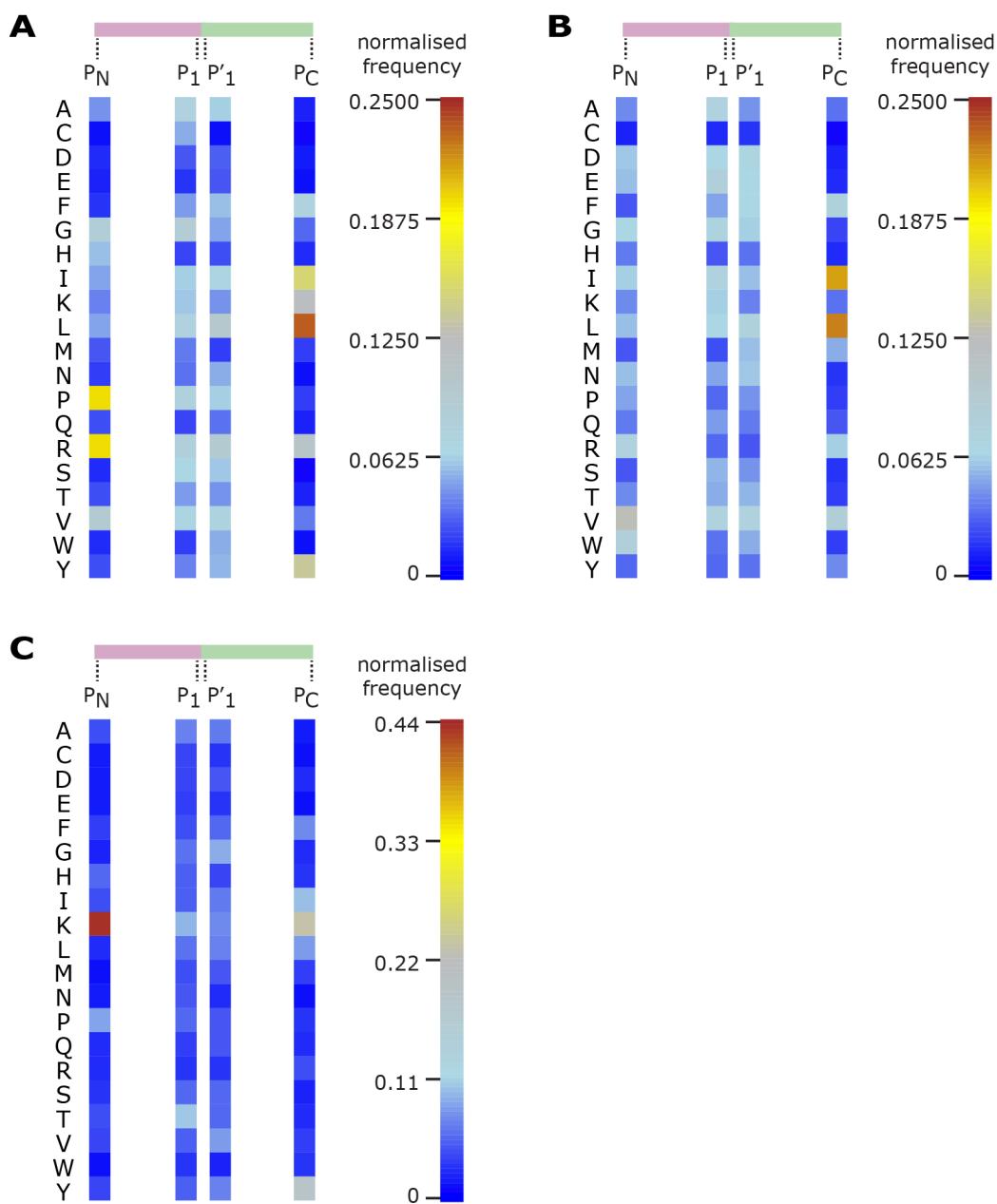
**Figure S11.**

HLA-I – peptide  $\text{IC}_{50}$  prediction and experimental measurements in the spliced and non-spliced antigenic peptide pool. Spliced and non-spliced peptides derived from the 2D EThcD - GR-LCL HLA-I immunopeptidome are analyzed by predicting their binding affinity to the HLA-A\*01:01, -A\*03:01, -B\*07:02, -B\*27:05 molecules of the GR-LCL using the (NetMHC) ANN algorithm (24) (A-B) and the (IEedb) SMM algorithm (23) (C-D). The spliced peptide sequences are listed in **table S2**. The quantile plots for predicted  $\text{IC}_{50}$  values are shown for spliced (blue) and non-spliced peptides (orange) based on the (NetMHC) ANN (A) and the (IEedb) SMM (B) results. Both algorithms perform similar for non-spliced peptides. ANN shows significant differences between spliced and non-spliced peptides. On the contrary, SMM provides very similar results

for spliced and non-spliced peptides. The SMM cut-offs are determined based on the (NetMHC) ANN quantiles of the corresponding  $IC_{50}$  cut-offs (500nM and 5000nM, respectively). E) The performance of the (NetMHC) ANN algorithm is determined based on the experimentally measured  $IC_{50}$  of 90 example spliced peptides (see **table S2**). The results are summarized as tables indicating a high number of false negative peptides.

**Figure S12.**

Sequence motifs of spliced and non-spliced antigenic peptides. **A-C)** The frequency of the amino acids at each residue of the non-spliced and spliced 9mer peptides derived from the 1D EThcD - GR-LCL HLA-I immunopeptidome (**A**), 1D EThcD - C1R HLA-I immunopeptidome (**B**) and 1D HCD human primary fibroblasts HLA-I immunopeptidome (**C**) are analyzed. All frequency values are normalized for the frequency of the amino acids in the human proteome, *i.e.* they indicate the probability of observing a certain amino acid at a certain position given the frequency of this amino acid in the human proteome.

**Figure S13.**

Distribution of amino acids in the P<sub>N</sub>-P<sub>1</sub>-P<sub>1'</sub>- P<sub>C</sub> positions of spliced epitopes. The distributions of the 20 amino acids in the P<sub>N</sub>, P<sub>1</sub>, P<sub>1'</sub> and P<sub>C</sub> positions (see Fig. S2) of the spliced antigenic peptides identified by 1D – EThcD in the GR-LCL (A), C1R (B) and by 1D- HCD in the human primary fibroblast (C) HLA-I immunopeptidomes are reported. All frequency values are normalized for the frequency of the amino acids in the human proteome, *i.e.* they indicate the probability of observing a certain amino acid at a certain position given the frequency of this amino acid in the human proteome.

**Table S1.**

Identified HLA-I immunopeptidomes' sequences. These tables list all identified spliced and non-spliced peptide sequences with their parental antigen, which have been identified within the HLA-I immunopeptidomes of the (A) GR-LCL (2D and 1D EThcD strategies as well as 1D HCD strategy), (B) C1R cell line (1D EThcD strategy), (C) human primary fibroblasts (1D HCD strategy), (D) T2 cell line, and (E) those spliced peptides of the GR-LCL 1D EThcD dataset, which could be explained by a sequence with a higher ion score when querying the whole Swissprot database including all organisms. *Annotation for (A-D):* The origin of each peptide is presented as '|**UniProt unique identifier**'|**UniProt entry name**' **P<sub>N</sub>\_P<sub>1</sub>\_P<sub>1</sub>'\_P<sub>C</sub>** for spliced peptides and as '|**UniProt unique identifier**'|**UniProt entry name**' **P<sub>N</sub> \_ P<sub>C</sub>** for non-spliced peptides. If several origins are possible, they are all listed and separated by ';'.

**A)** Identified peptide sequences from GR-LCL

## GR-LCL EThcD 2D – spliced peptides

#	sequence	origin
1	APATPAVVL	Q9NTJ4 MA2C1 940_943_953_957
2	PSPEAAVAV	Q9C0H5 RHG39 976_976_992_999
3	VALGGPHDP	Q6P597 KLC3 352_352_365_372
4	PAALPVPSL	Q5SQQ9 VAX1 266_268_275_280
5	PTAPVTPSI	Q86XN7 PRSR1 343_348_329_331
6	CPGASQPIL	O43603 GALR2 355_361_363_364
7	DRGSCGVTV	Q6PF15 KLH35 321_323_303_308
8	APSIDAPKP	O60641 AP180 583_587_577_580
9	PSTLNVGTL	P43364 MAGAB 164_164_153_160
10	PEPAPANAH	Q9NY61 AATF 423_425_444_449
11	VATANNNFG	Q13231 CHIT1 110_115_100_102
12	LPQTPGPLS	Q96L73 NSD1 2589_2590_2565_2571
13	VSCPIVQNG	P78317 RNF4 130_133_142_146
14	VSTAAASQW	Q13873 BMPR2 21_28_9_9
15	IPPPPPIPMS	O14776 TCRG1 85_88_101_105; Q9H9H4 VP37B 207_213_227_228
16	PPPPPPIISM	Q75N03 HAKAI 345_352_335_335
17	GHSHSETAL	Q5VST9 OBSCN 6959_6963_6944_6947
18	PSSEQEGPN	A6NC98 CC88B 655_657_662_667
19	VSTDFRAAS	Q6ZP01 RBM44 470_475_457_459
20	VPGCRPVIL	P04180 LCAT 52_55_47_51
21	LSNPTAEAY	P23368 MAOM 419_424_432_434
22	VIPQEAAHC	P52790 HXK3 126_130_143_146
23	FSGVHVANF	Q9NPH5 NOX4 115_121_129_130
24	VAVQQGYQGS	O43490 PROM1 379_380_357_363
25	VESTSRSSM	Q96RU2 UBP28 498_501_518_522
26	CMEITMGSL	Q53GL7 PAR10 434_434_417_424

27	AHEEDHGSL	Q8N9S7 CHDC2 104_105_81_87
28	FVRSGFTSI	O95970 LGI1 74_80_60_61
29	LHEDNSNSL	Q9BRP7 FDXA1 293_299_302_303
30	PASRQFYAV	Q9P2K8 E2AK4 625_630_616_618
31	PEAYSWFQN	Q9UBV8 PEF1 117_124_114_114
32	AAAALGRAL	P11831 SRF 8_14_17_18; Q07065 CKAP4 87_90_104_108; Q12772 SRBP2 591_594_604_608; Q7Z6Z7 HUWE1 2140_2141_2158_2164; Q96HY7 DHTK1 6_9_13_17  O15499 GSC2 72_76_83_86
33	PRAAPAAGL	O43463 SUV91 369_369_386_393
34	VAGLPGSPK	Q14773 ICAM4 237_243_220_221; Q9P243 ZFAT 1155_1156_1146_1152
35	APATALASVV	A6NDX4 YO011 88_88_73_80
36	HSGLPGVAL	A6NM66 CU054 33_34_12_18
37	SPGGPRPAI	Q6PCB0 VWA1 24_28_8_11
38	RGPPAGLAL	O95297 MPZL1 43_44_24_30
39	PKLAAALGL	P49327 FAS 1221_1227_1217_1218
40	SPALKACGL	P30307 MPIP3 74_75_63_69; Q9H6A9 PCX3 1969_1972_1958_1962
41	LSLSGGTPK	O15417 TNC18 2065_2071_2084_2085; Q8NDY6 BHE23 55_59_49_52; Q96JP9 CDHR1 789_795_806_807
42	PRAPALPAA	Q6ZN55 ZN574 704_708_718_721; Q6ZW31 SYDE1 281_282_258_264; Q96I13 ABHD8 98_101_113_117; Q9NX05 F120C 53_56_68_72; Q9Y644 RFNG 42_47_20_22  Q14190 SIM2 640_646_635_636
43	APRAPPAAL	Q9UPM8 AP4E1 256_259_266_270
44	HPSPAATAL	Q9ULD4 BRPF3 349_350_331_337
45	GGKLHSVPA	P98161 PKD1 4261_4263_4265_4270
46	HVKGLGAAI	P0C879 YJ018 109_113_91_94; Q8N8A6 DDX51 386_392_403_404
47	GPSGLRPAL	Q5HYR2 DMRTC 3_4_15_21
48	PRVVAAAAL	Q96KR1 ZFR 943_944_962_968
49	APTRAGAL	Q9H2U2 IPYR2 12_15_30_34
50	PSQSPGDAL	Q9H7Z3 NRDE2 459_465_471_472
51	APAARAMAL	P33240 CSTF2 471_478_480_480
52	HPALPGTAL	Q9UJW9 SRTD3 72_74_47_52; Q9Y644 RFNG 40_44_52_55
53	VPGPRGPIS	O75909 CCNK 397_399_377_382
54	APAPRAPSL	Q8HWS3 RFX6 666_672_663_664
55	PKVPLAAAL	Q86TB3 ALPK2 2094_2099_2117_2119
56	PSVGPVLGR	Q8WZ42 TITIN 268_270_272_277
57	ATLAKGALH	Q8N130 NPT2C 155_159_146_149
58	PPSAAKAQL	P27105 STOM 244_248_231_234; Q96B18 DACT3 316_323_307_307
59	VSVPIVAAK	O14931 NCTR3 46_53_27_27
60	SPAALSRAL	Q9Y242 TCF19 199_204_207_209
61	GRLAIGSVI	Q8NER5 ACV1C 317_321_296_299
62	PKSLPVPPG	O15164 TIF1A 487_492_505_507
63	PAIAHALSI	P48444 COPD 213_219_200_201
64	RPAPVGPSI	Q9BSU1 CP070 412_413_400_406
65	APAPARPIT	O14526 FCHO1 363_365_376_381
66	PGHIASVTL	Q9H4Z2 ZN335 977_981_990_993
67	PAPAAAQLR	Q96EW2 HBAP1 3_7_24_27
68	PAKTHASSP	Q86U10 LPP60 528_529_538_544
69	AGSEAHVKP	
70	GQLHVAEAA	

71	PRSPALLAA	A6NL88 SHSA7 432_437_447_449
72	VPAANVRGL	Q9NQH7 XPP3 11_13_15_20
73	ARAPASVLL	O15021 MAST4 75_76_82_88; P13861 KAP2 43_50_29_29
74	GGPKLSLEV	P35462 DRD3 273_274_292_298
75	PARTVALTA	Q15465 SHH 392_395_413_417
76	LPSSGLSKL	O14513 NCKP5 825_830_814_816; Q8N2R0 OSR2 164_166_148_153
77	PSSSIISTI	P37268 FDFT 354_357_362_366; Q8NGU2 OR9A4 229_232_221_225
78	PHGAPSLLL	Q6PFW1 VIP1 496_498_514_519
79	VAPLPHTAV	Q2NL68 CS055 173_176_156_160
80	SVVTASIKT	Q14966 ZN638 818_821_829_833
81	SIGTVSLTK	Q9Y394 DHRS7 190_191_165_171
82	PRAPAAPLL	Q86YV0 RASL3 393_398_405_407; Q96AQ8 MCUR1 54_59_68_70
83	APAVLALPR	Q9HBU6 EKI1 68_72_52_55
84	PAPLGRALL	Q66K80 RUAS1 142_145_161_165
85	KPVPLAAVI	P53992 SC24C 400_401_393_399
86	APAPQGVLR	Q6PGN9 PSRC1 56_62_42_43
87	LAPAPRDGL	Q6ZRS2 SRCAP 1327_1329_1316_1321
88	PKSLPVATP	P56559 ARL4C 132_138_120_121
89	PSLAPKPSL	Q8NFN8 GP156 643_647_661_664
90	PKGAQPALK	Q86V42 F124A 94_101_92_92
91	APQPRLSAA	Q9HCJ0 TNR6C 1635_1636_1613_1619
92	VAAEIIIPAK	Q15392 DHC24 225_228_231_235
93	RAAAPALLSL	Q14397 GCKR 553_556_574_578
94	NVPGLVQSV	Q9Y3A4 RRP7A 65_67_83_88
95	RGPANITAI	O60469 DSCAM 502_505_512_516
96	LPAARTTAL	Q8N9H6 CH031 64_65_40_46
97	LSQLSAPAK	Q8WXK3 ASB13 242_245_226_230
98	HPPLGPIAL	Q5JV73 FRPD3 1448_1452_1466_1469
99	PASSEKALL	A6NHT5 HMX3 145_147_135_140
100	VPATRSATL	Q8TDP1 RNH2C 25_28_17_21
101	LSLGTPLSK	Q9NXD2 MTMRA 735_736_753_759
102	GYVAAHSVI	O75602 SPAG6 318_324_298_299
103	PHVGPLAII	P54198 HIRA 907_909_884_889
104	LHPALPSAL	Q9Y3R5 DOP2 71_77_83_84
105	KPSGPSVTF	Q9UBD6 RHCG 454_460_452_453
106	IASTALSEK	P02545 LMNA 128_129_149_155
107	PATPPPRAL	Q8NCK7 MOT11 439_443_427_430
108	PHGLTALVL	O75698 HUG1 101_102_105_111
109	LSAAPFTSK	Q9HD20 AT131 964_965_957_963
110	ASFGEGLLK	Q9BQS8 FYCO1 1358_1363_1340_1342
111	PSAPISPPR	Q99941 ATF6B 420_426_435_436
112	PARTLIPGP	P39059 COFA1 78_84_70_71
113	PSRPAALPL	Q9Y644 RFNG 47_52_25_27
114	LPARAALLP	Q8IXH6 T53I2 156_163_142_142
115	PARPGLLSL	O95785 WIZ 960_961_947_953
116	AQVILVAVL	Q6ZUL3 CH086 214_219_209_211
117	PRAPASTDL	Q9UKB1 FBW1B 476_482_469_470

118	LQAPIVSSL	P55259 GP2 330_332_336_341
119	SPARGLLTL	Q9P1Y5 CAMP3 1031_1037_1049_1050
120	VIAEGVARI	Q08752 PPID 177_180_157_161
121	PAAPKAYVL	A6NDG6 PGP 127_128_118_124
122	PKADQTSAL	P16150 LEUK 53_55_60_65
123	APHNPAPPMM	Q01628 IFM3 34_41_22_22; Q01629 IFM2 29_29_34_41
124	WGSGPPAFL	Q96I24 FUBP3 488_489_478_484
125	PARPAGSYL	Q8N5S9 KKCC1 63_64_78_84
126	PARPPAPLL	O60885 BRD4 884_889_898_900; Q9BZG2 PPAT 368_373_393_395; Q9H2X0 CHRD 23_25_7_12
127	PPPSPVLL	Q15109 RAGE 262_262_281_288
128	GKKVLGAFL	P02042 HBD 65_72_49_49; P68871 HBB 65_72_49_49
129	IPSASLSMK	Q5XG87 PAPD7 692_696_715_718
130	HVVANPSPL	P01375 TNFA 91_96_71_73
131	PARVPAPLL	Q9UKB5 AJAP1 71_77_52_53
132	PGAPLRLNP	P21333 FLNA 271_276_279_281
133	PHTNIPGSI	Q7LBE3 S26A9 249_253_234_237
134	LGEPGRPPL	Q5SSQ6 SAPC1 80_81_94_100
135	RPGPVPSLL	Q5TCX8 M3KL4 977_980_996_1000
136	PARPAVLVL	O43306 ADCY6 173_176_157_161
137	VSVAAFQSK	Q969Q5 RAB24 173_179_155_156
138	AHGPSIINK	Q9P0V3 SH3B4 455_460_470_472
139	NSIPVAHSL	Q16825 PTN21 636_638_612_617
140	APAPVVREV	P22079 PERL 125_131_120_121
141	APSRPPISI	Q9UPU5 UBP24 2373_2375_2367_2372
142	LPQLTGVPL	Q9UL03 INT6 175_176_185_191
143	PRAIPLTAV	Q6UVK1 CSPG4 2264_2265_2283_2289
144	PKLLGPLSL	Q96LC7 SIG10 446_451_438_440
145	IPGLPKSLL	O94769 ECM2 571_573_554_559
146	PVALVRAIV	Q8TE82 S3TC1 842_845_821_825
147	LALLGLPLK	Q9BZG2 PPAT 293_295_276_281
148	ASAQPRPVL	Q96EP0 RNF31 273_279_261_262
149	PPPPLHAL	Q9BTD3 TM121 295_301_278_279
150	PKAAPPIVF	Q4ZG55 GREB1 1278_1281_1256_1260
151	VAALPKDVK	Q9BSA9 TM175 300_303_288_292
152	PSIVNIVAK	Q8WZ42 TITIN 17045_17047_17061_17066
153	PDAAKLITL	O75899 GABR2 751_754_743_747
154	PSSSPLNLK	Q9P219 DAPLE 1570_1571_1583_1589
155	NKALDVGLL	P98161 PKD1 101_102_81_87
156	PGALERMAV	Q96LP6 CL042 229_232_246_250
157	VVRPATTIV	Q9H3S7 PTN23 857_857_877_884
158	HPIVGKVPP	P51957 NEK4 571_577_564_565
159	LQASVVTLL	Q9H6K5 YS027 522_527_534_536
160	VTALSILVK	Q6YHK3 CD109 834_838_849_852; Q9NZI2 KCIP1 123_129_117_118
161	IISIVTGLK	Q5TEA3 CT194 748_755_746_746
162	FPAAPAPFQ	Q53H47 SETMR 72_73_46_52
163	SVNVSVLTK	O60938 KERA 296_301_274_276

164	VIIGKGRFG	P36896 ACV1B 199_199_212_219
165	PPAALRPLI	Q96PU8 QKI 237_242_253_255
166	PPGPKELVI	Q92917 GPKOW 86_88_66_71
167	LPGPRSLPI	Q6ZN32 ETV3L 271_278_269_269
168	PRVPPSLLA	A4D2P6 GRD2I 73_79_55_56; Q8IYJ3 SYTL1 387_392_401_403
169	AHLAAKNIL	Q5TAX3 TUT4 350_354_330_333
170	PSPPTRSPL	O94953 KDM4B 597_598_618_624
171	LPVPRPCGL	Q8WTU2 SRB4D 105_110_101_103
172	LKAQGQPPL	P07814 SYEP 860_863_875_879; Q16586 SGCA 210_211_223_229
173	PASRTAVRP	O43272 PROD 24_27_44_48
174	PARGTRPSL	Q07666 KHDR1 427_429_418_423
175	HSKKVALAT	Q9NU19 TB22B 104_106_91_96
176	PSDKALVLI	Q03001 DYST 4336_4343_4330_4330
177	HCIVLSATL	Q9BX79 STRA6 281_283_297_302
178	VIAQTLPSQ	Q5VWT5 CA168 216_217_191_197
179	LPPPAPPI	Q6BCY4 NB5R2 237_241_216_219
180	PHSPALQPI	Q9UPW6 SATB2 272_274_287_292
181	PSTDVKLSL	Q8TE49 OTU7A 600_600_615_622
182	ILDVSLGRS	Q13796 SHRM2 901_906_917_919
183	VHVPPLGQL	Q9NXJ5 PGPI 167_173_180_181
184	PKSLTTSLI	Q92673 SORL 1885_1892_1872_1872
185	LGRLITSSL	O76031 CLPX 38_39_15_21
186	KGKFPAEAL	Q8N5D0 WDTC1 460_464_450_453
187	FAEIPVSAK	Q9H1E1 RNAS7 8_8_22_29
188	PAAIHQIVL	Q68CP9 ARID2 932_933_942_948
189	AINQAIHVP	Q9UJZ1 STML2 160_164_180_183
190	LSVKSTSQL	Q06055 AT5G2 21_22_14_20
191	HVKPKPTGV	Q9Y5S2 MRCKB 1101_1103_1105_1110
192	LPAPLSPRL	Q68DA7 FMN1 540_542_523_528
193	PRSPAPLLL	P48645 NMU 9_13_21_24; Q9UKP4 ATS7 7_11_16_19
194	VVRGLPPII	Q8IXR9 CL056 539_543_526_529
195	VACRLPPLP	Q76I76 SSH2 1208_1213_1205_1207
196	PRSPPLISV	Q8TC20 CAGE1 188_194_170_171
197	GHNTLVLLV	Q96BI1 S22AI 397_398_404_410
198	ALSPVLIPR	O14686 KMT2D 4736_4740_4743_4746
199	IHNNAAKSL	Q86XZ4 SPAS2 196_198_204_209
200	ISPQKPQGL	P51531 SMCA2 328_330_332_337
201	GKSIHELAI	Q13156 RFA4 217_223_234_235
202	GAPLLREVL	P28070 PSB4 187_188_193_199
203	GTYVAQMAK	P35212 CXA4 153_157_133_136
204	VSRVVSPPK	P51003 PAPOA 612_617_607_609
205	ICVSPHNTV	Q9NRJ3 CCL28 72_78_80_81
206	SLFSTSSKL	Q63HK5 TSH3 189_193_200_203
207	PTGPVMLRV	Q9BZZ2 SN 1516_1518_1524_1529
208	PDLVTIKSP	Q9UPU5 UBP24 377_382_396_398
209	PEQKTVAPT	B9A064 IGLL5 184_186_206_211; P0CG04 LAC1 76_78_98_103; P0CG05 LAC2 76_78_98_103; P0CG06 LAC3 76_78_98_103

210	PEGSALRLQ	P04844 RPN2 275_279_288_291
211	PSSDRLPSL	O60287 NPA1P 1352_1354_1343_1348
212	TAANQLLLK	Q4G0N8 SL9C1 154_156_130_135
213	QVISTPSIK	Q13131 AAPK1 92_98_88_89
214	HLLGSKSTM	Q9Y2I7 FYV1 1609_1613_1621_1624
215	LHSPANSHL	Q8IWZ5 TRI42 154_156_135_140
216	PPAPPLREV	Q9Y487 VPP2 86_90_108_111
217	LTFVPNTGK	Q9Y277 VDAC3 97_98_103_109
218	GQHKPPITV	Q9H7Z6 KAT8 411_413_433_438
219	PSAFSTRVL	Q7KZF4 SND1 773_774_783_789
220	LGLYPLSSK	Q86VZ1 P2RY8 123_124_126_132
221	HPISAPLLM	O14503 BHE40 388_389_371_377
222	PSRQPIPAI	P78563 RED1 305_311_295_296
223	VSSGIYLLK	Q16363 LAMA4 301_304_318_322
224	VPSPRTLPL	Q9HB65 ELL3 237_240_232_236
225	FSANPGQLF	Q9BRJ7 SDOS 48_49_35_41
226	PRGQVDVPL	P46934 NEDD4 537_538_523_529
227	PKSPPSQQL	Q8IZD2 KMT2E 1451_1453_1469_1474
228	NLPPHPPPL	Q9P2R6 RERE 962_965_984_988
229	LHSVKGELV	P08581 MET 887_889_870_875
230	VPVPNFLPV	O43736 ITM2A 128_130_106_111
231	PLNSKARVP	Q8IZA3 H1FOO 113_119_128_129
232	APRAFIPLP	Q9NRG7 D39U1 245_246_265_271
233	PVPVIKESL	P78329 CP4F2 394_398_386_389; Q9HBI6 CP4FB 394_397_385_389
234	NVFPPPVRG	O43184 ADA12 192_197_175_177
235	PNLVAERAL	A6NK06 IRG1 314_315_294_300
236	LPRQPATSL	Q9UF72 T73AS 26_30_14_17
237	SVRPPVVTE	O43424 GRID2 145_149_159_162
238	VPAPLSPRF	Q8NDA2 HMCN2 3699_3703_3717_3720
239	VIAIERSVP	Q9UPQ3 AGAP1 50_54_67_70
240	PLKATLLDL	Q9H251 CAD23 867_871_880_883
241	QTGPVMPVR	P26373 RL13 149_149_151_158
242	PIKDNALT	Q5T3J3 LRIF1 351_357_331_332
243	PSSPERSLL	Q14142 TRI14 242_243_256_262
244	ARPAVFPDL	Q9BQT9 CSTN3 652_656_667_670
245	KETVPTSKP	Q8WW12 PCNP 96_101_93_95
246	AINQLDISL	Q8WXK4 ASB12 291_297_270_271
247	PKASVFVQL	P19838 NFKB1 316_317_327_333
248	LSAPVNIFK	P78371 TCPB 4_5_7_13
249	EICSQKAVL	Q5VU65 P210L 112_113_88_94
250	KRFSLGVAL	Q8IZS8 CA2D3 595_596_614_620
251	LPPNKTQPP	Q9HDB9 GAK8 221_223_202_207
252	SPREPVPPL	Q9UKN7 MYO15 909_913_922_925
253	TRPPPTPVQ	Q8TAL5 CI043 177_178_187_193
254	LSFSNVVTK	P31939 PUR9 386_387_400_406
255	VSTKNPVIH	Q8WWQ2 HPSE2 65_71_88_89
256	LPSRPQPSL	Q4VX76 SYTL3 459_463_475_478; Q9H0J4 QRIC2 1646_1651_1638_1640

257	ARPTVLLLL	Q9NRR1 CYTL1 20_23_9_13
258	AHSVVDQKL	Q9NQZ2 SAS10 292_293_312_318
259	AHTTVLKNL	Q05707 COEA1 427_429_407_412
260	PPAVYKPPK	O15533 TPSN 310_311_287_293
261	HKVQVNCGI	P53355 DAPK1 1146_1151_1142_1144
262	PPSPLRFSP	Q9HCD6 TANC2 1532_1536_1515_1518
263	PNRASPRSL	Q14686 NCOA6 1212_1218_1238_1239
264	KSLEHGITL	Q9Y2I7 FYV1 776_777_765_771
265	GKPSIKELQ	P51787 KCNQ1 568_571_556_560
266	IALEVLSQK	O75369 FLNB 51_52_54_60; P21333 FLNA 64_65_81_87; Q14315 FLNC 71_72_74_80
267	PSKIMLSPE	P18583 SON 286_291_283_285
268	LSDHLGVVV	Q9NXW2 DJB12 274_275_289_295
269	APKQLSSSW	Q92616 GCN1L 1528_1534_1510_1511
270	APPPIKHNM	Q7Z739 YTHD3 264_264_267_274; Q9BYJ9 YTHD1 242_242_262_269; Q9Y5A9 YTHD2 247_247_266_273
271	SMSLTDKLL	Q12981 SEC20 179_181_199_204; Q13535 ATR 2238_2240_2218_2223
272	PARTLLQVL	Q5TEJ8 THMS2 185_186_176_182
273	PSPSVQRQL	Q86UW7 CAPS2 59_63_72_75
274	VVIKETLPN	Q01658 NC2B 39_40_22_28
275	PNRSVTLLI	P40227 TCPZ 379_380_370_376
276	RSHETIASL	Q9BVG8 KIFC3 232_232_240_247
277	GTPVRTLNR	P53671 LIMK2 209_215_194_195
278	LTPLKSLEL	P27169 PON1 256_262_239_240
279	PRLVCNTTL	Q9P2P6 STAR9 4602_4603_4590_4596
280	LSLQFPALK	Q9Y6K5 OAS3 515_520_536_538
281	RYSPNPNGL	Q06455 MTG8 275_279_286_289
282	LQPPPLQL	Q6ZUT6 CO052 299_305_278_279
283	ASEHSTIIY	P61962 DCAF7 193_194_210_216
284	ASELHTSIY	P17342 ANPRC 253_255_229_234
285	NTVPFKTTI	Q9Y5B6 PAXB1 372_378_387_388
286	PPWLALAPR	O94885 SASH1 1058_1061_1038_1042
287	LSATFILQK	Q92600 RCD1 177_178_182_188
288	VLLLIQNAH	Q5THR3 EFCB6 1389_1392_1405_1409
289	PSYPNPSFL	O75694 NU155 609_610_614_620
290	HQVDIGLQL	P00739 HPTR 185_191_171_172
291	HKSSLSRVI	Q96T49 PP16B 328_334_320_321
292	TPCKIPRLV	Q4G0P3 HYDIN 111_113_127_132
293	DQIKARALL	P04920 B3A2 409_413_421_424
294	PVEKNTVEL	Q9BVG8 KIFC3 747_752_768_770
295	VEATPRDLM	Q00005 AABB 160_165_157_159
296	PRVPPFSTM	P11940 PABP1 474_476_461_466
297	PFPDVESIK	Q8TEQ6 GEMI5 1456_1460_1450_1453
298	LECARTLLL	Q05923 DUS2 9_12_26_30
299	QRIPPLVVI	Q6ZUB1 S31E1 20_25_4_6
300	ILSSLMLKE	P51946 CCNH 217_219_235_240
301	LQVGLHQQL	P05000 IFNW1 124_126_111_116
302	LETFGPLVY	Q8NFA0 UBP32 217_224_203_203

303	PPALFRQPI	P0DJG4 THEGL 259_266_254_254
304	MSLDLSVFK	Q9Y2C9 TLR6 72_73_91_97
305	PRCLLLVLL	Q93038 TNR25 31_33_15_20
306	GPHLPYLLM	Q5UIP0 RIF1 350_354_344_347
307	QPVKAQEQI	P32926 DSG3 531_534_553_557
308	HQVYPVNSV	Q9H0J9 PAR12 667_671_652_655
309	ETIISRVTK	O75592 MYCB2 4163_4166_4154_4158
310	EPNGHRPQL	Q5SNT6 FA21B 969_969_988_995; Q5SRD0 FA21D 24_24_43_50; Q641Q2 FA21A 1057_1057_1076_1083; Q9Y4E1 FA21C 1034_1034_1053_1060
311	HHLKGKNTI	O95786 DDX58 280_282_256_261
312	ARDYGLQLI	A5YM72 CRNS1 413_420_439_439
313	SMADTFLEH	P14618 KPYM 2_2_22_29; P30613 KPYR 80_80_65_72
314	LSADFQIEK	Q9HC98 NEK6 36_37_43_49
315	PPKQLPPYI	A1X283 SPD2B 131_133_107_112
316	LQRQLGPQQL	Q96KN2 CNDP1 85_88_98_102
317	CVYSNNIIK	Q14507 EP3A 22_28_34_35
318	SVMVTQLLY	Q8IYS2 K2013 544_549_554_556
319	LLHNPNFSI	Q2WGJ9 FR1L6 1056_1058_1037_1042
320	FPQPRLPVT	Q6DCA0 AMERL 123_129_104_105
321	NLWVDAQLP	Q8TEU8 WFKN2 53_59_35_36; Q96NZ8 WFKN1 40_46_23_24
322	CPLLKPWAQ	P04075 ALDOA 290_297_275_275
323	PNSLDEILR	Q96JJ3 ELMO2 489_493_506_509
324	PQLRSLTEI	P04626 ERBB2 122_122_141_148
325	PLWSLLLSK	Q9P0V8 SLAF8 5_10_26_28
326	NIVVHSIDL	O95466 FMNL 331_336_356_358
327	MPQNPTQNM	Q14444 CAPR1 403_405_396_401
328	YDSVIITSY	O75787 RENTR 335_337_321_326
329	LSDHSLLYN	Q02363 ID2 15_18_34_38
330	YASHRSSQE	O60284 ST18 739_744_763_765; Q9UL68 MYT1L 920_924_899_902
331	QELLPSICIY	Q6PIF6 MYO7B 1349_1356_1336_1336
332	PRVPPVEYL	P35555 FBN1 442_444_430_435
333	LSDEPFIQK	P25054 APC 1506_1507_1512_1518
334	SPNVDLIYR	Q96JM2 ZN462 934_937_922_926
335	ELNAINELY	P33681 CD80 181_186_196_198
336	DNRPILLIK	P29728 OAS2 190_193_200_204
337	KEPRNLVIL	Q9NZN5 ARHGC 560_565_547_549
338	LPDLINQLY	Q02218 ODO1 809_812_819_823
339	KNSVWIVDK	Q13402 MYO7A 427_429_408_413
340	ETSWTILIK	P16234 PGFRA 459_465_453_454
341	VHQIRKESV	Q8NHS4 CLHC1 3_8_25_27
342	PEETPRDPR	Q14697 GANAB 201_207_184_185
343	DLRTIVINY	P41214 EIF2D 423_424_412_418
344	KDDPIKELY	O75592 MYCB2 4450_4451_4454_4460
345	DKVFRQLNL	O43929 ORC4 126_129_116_120
346	PKAGPPGIL	P35579 MYH9 535_536_519_525
347	PGVSGPGAH	Q8NAC3 I17RC 654_654_667_674

348	VAGPIAAHA	Q7Z3K3 POGZ 61_63_54_59
349	PRGSGGIGL	Q9UQ35 SRRM2 10_14_4_7
350	GPARGGMAI	Q13057 COASY 274_276_293_298
351	PRGPAPAAL	Q68DA7 FMN1 485_487_495_500
352	RPGAPGSPI	Q07092 COGA1 1486_1493_1499_1499
353	AAPAAPRSI	Q8IX07 FOG1 472_473_456_462
354	VGPSRAPAV	Q7Z3D6 CN159 547_553_537_538
355	APRSPGSLA	Q9BZI1 RX2 30_33_12_16; Q9Y4B5 MTCL1 74_76_87_92
356	RPSLLGAAA	Q9NNZ3 DNJC4 31_33_21_26
357	GRPGLSSSV	Q99700 ATX2 238_242_216_219
358	PRAGQPGAL	P0DKB5 TPBGL 3_9_19_20
359	RPAGGPAEL	Q6NZ36 FAP20 17_22_41_43; Q9H6Q3 SLAP2 32_32_44_51
360	ARLIAGPGL	Q9UKP6 UR2R 232_234_220_225
361	HPSGAGLVM	O75165 DJC13 572_574_580_585
362	PGRLGGAQL	Q86TB9 PATL1 274_276_267_272
363	GRGVQAAVI	Q8N8A6 DDX51 243_245_224_229
364	GRPVSGTSL	Q7Z2K8 GRIN1 385_390_403_405
365	PARPPTAAP	Q96JK4 HIPL1 641_644_630_634
366	RGPAAPTPI	Q03014 HHEX 40_47_34_34
367	PGRTPGGQL	Q96PG8 BBC3B 45_46_38_44
368	LPAFPPGAL	Q5VZF2 MBNL2 278_279_269_275
369	TSLLGAPAR	Q8WY07 CTR3 347_351_331_334
370	PSGPNVAHL	Q5THJ4 VP13D 1031_1031_1045_1052
371	PRTPGPAPV	Q86US8 EST1A 511_517_531_532
372	PNRGPI GAL	A0PJW6 TM223 82_86_105_108
373	SVAKHGEPA	O60704 TPST2 166_167_146_152
374	PRAPSPSSP	P49757 NUMB 262_263_236_242; Q86VQ1 GLCI1 122_124_104_109
375	RPSGPSSI	P29474 NOS3 112_117_136_138
376	PRTGPGAEL	Q9C029 TRIM7 6_11_21_23
377	PRSPSALGI	O43306 ADCY6 232_237_216_218
378	PRSAAGINL	Q08211 DHX9 1159_1160_1142_1148
379	RPLGSSPSV	Q96L73 NSD1 2352_2355_2341_2345
380	AVRPSAVVT	Q7Z5P9 MUC19 4011_4012_4017_4023
381	PGRGSPAFL	Q9H1R3 MYLK2 123_124_141_147
382	PTLGASSLR	Q8N319 CF223 86_86_73_80
383	DDTVAGRVA	Q9H5Z1 DHX35 139_140_115_121
384	VASSSVPTR	Q5T036 F120S 13_15_26_31
385	PKMSLASGL	P27816 MAP4 725_726_741_747
386	DKTDGGAEI	Q8WZ42 TITIN 14158_14160_14144_14149
387	ARPGPALLL	P57059 SIK1 354_359_340_342
388	PHASPLSSI	Q8NFD5 ARI1B 709_713_715_718
389	PHSPLASSL	Q68CP9 ARID2 1471_1473_1451_1456
390	RSPGPGPEI	P32927 IL3RB 836_836_841_848
391	HVNGVITGL	Q86VY9 T200A 25_27_6_11
392	VAGHRISAV	Q9H6R3 ACSS3 561_567_585_586
393	PSRGPGNLN	Q92733 PRCC 113_114_116_122
394	PRAGLSPTL	Q9P0X4 CAC1I 2055_2061_2037_2038

395	SPVLGLRGL	Q96T92 INSM2 234_239_251_253
396	PSAIGQPRS	P78386 KRT85 471_475_490_493
397	ARPSAQAVL	Q71RG6 YH006 145_149_162_165
398	PRGSPTLSV	Q9UH92 MLX 54_56_48_53
399	PRLVSASAL	P21917 DRD4 427_432_441_443
400	RAGALLSIL	Q8IWU4 ZNT8 138_139_143_149
401	IPSGGRQSL	Q8TDX9 PK1L1 1081_1087_1100_1101
402	PAGRDVDTSI	Q6NSJ0 K1161 270_273_288_292
403	PRAPSSSTL	Q5SNV9 CA167 858_861_846_850
404	PTRCAGEIA	P29120 NEC1 196_196_210_217; Q16549 PCSK7 214_214_230_237
405	ARVPTSSSI	Q15772 SPEG 2307_2311_2321_2324
406	RASITSVSP	Q9H6K5 YS027 586_592_580_581
407	PRLAGSLGF	Q13724 MOGS 350_356_367_368
408	IQACNGTVI	O60739 EIF1B 83_84_68_74; P41567 EIF1 83_84_68_74
409	PHQVNNGGPL	P52824 DGKQ 615_618_623_627
410	PSRGSTDSDL	Q9UQQ2 SH2B3 320_321_332_338
411	GRGTPMMGI	P14678 RSMB 208_213_203_205
412	TGFNSILGI	Q05901 ACHB3 20_25_12_14
413	AHPAKAQVT	O95613 PCNT 1964_1966_1974_1979
414	RSPPGAPEL	Q86VR2 F134C 359_364_380_382
415	PRATIPTGI	P02751 FINC 1381_1385_1361_1364
416	PRAPGPQGF	P02452 CO1A1 186_187_195_201; P02458 CO2A1 208_209_217_223; P08123 CO1A2 98_99_107_113
417	PRNGVLTGL	Q9Y289 SC5A6 600_605_593_595
418	PSRPSSPSL	O43815 STRN 377_382_368_370; Q96CP6 GRM1A 28_31_15_19
419	RPDGVLTGI	Q8N398 VW5B2 143_148_121_123
420	GKGKPSIQI	Q04864 REL 57_60_48_52
421	VALTLPSRA	Q8TF05 PP4R1 652_656_631_634
422	PSRASPDSI	Q96JK2 DCAF5 644_649_651_653
423	INNAGSQLL	P35270 SPRE 98_104_78_79
424	APRGSLSEL	P24001 IL32 214_217_200_204; Q96RR4 KKCC2 546_549_527_531
425	VVLITGTAR	P35670 ATP7B 1216_1221_1226_1228
426	RPSPNC GSL	Q6UU7 CRT C3 534_537_540_544
427	SKEPVCGVI	Q53EL9 SEZ6 407_412_418_420
428	PPPPSVLLL	Q9HAB3 S52A2 219_224_214_216
429	ITGMSARPT	Q02505 MUC3A 931_933_950_955
430	PSRSSTVSL	Q9HCM3 K1549 711_714_733_737
431	PHQPLSGSI	Q8N3K9 CMYA5 1628_1632_1649_1652
432	VLTSTSTRA	Q9HC84 MUC5B 3195_3199_3185_3188
433	RLPLGLPGL	Q6VUC0 AP2E 138_139_154_160
434	RPGDPGPEI	Q96NS8 CLUP3 33_34_54_60
435	RTALVSGSF	A1L4Q6 YK033 62_66_45_48
436	RPSPAAPEL	Q9UKP4 ATS7 1029_1033_1049_1052
437	PARQSVIPA	Q8TE49 OTU7A 766_772_764_765
438	PKSLGPIDI	P35670 ATP7B 232_233_218_224
439	PSRNISPGL	Q9Y2I7 FYV1 1525_1526_1546_1552
440	HVQSKAIAS	Q13813 SPTN1 2048_2054_2059_2060

441	NVRLPGTAL	P06756 ITAV 504_506_493_498
442	GLRPTVDAL	Q6XUX3 DUSTY 229_235_215_216
443	NGNINLALI	A6NKT7 RGPD3 662_665_683_687; O14715 RGPD8 661_664_682_686; P49792 RBP2 661_664_682_686; Q7Z3J3 RGPD4 662_665_683_687; Q99666 RGPD5 661_664_682_686
444	RATTLPLGI	O75387 LAT3 100_100_89_96
445	APGLRMDAL	Q8N4S7 PAQR4 199_201_207_212
446	RSAPNGMVI	Q96N76 HUTU 169_172_178_182
447	SPGQRLSSL	Q8IVE3 PKHH2 202_203_185_191
448	TLNGSHGFI	Q9H251 CAD23 294_297_307_311
449	PKLTGSSEM	Q68DN1 CB016 183_187_160_163
450	VFSGSSLRP	Q9UKK3 PARP4 1400_1406_1423_1424
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452	PRQLPGAVL	Q5T447 HECD3 13_16_6_10
453	PSAKDSFSI	Q99700 ATX2 838_844_863_864
454	RPASGYSTL	Q9P227 RHG23 1238_1240_1248_1253
455	PRPASPESI	Q8WXD9 CSKI1 1030_1036_1012_1013
456	PRAPLSAEL	A6NGR9 MROH6 471_474_478_482
457	PKSPPFPAL	Q5THK1 PR14L 1953_1955_1946_1951
458	PRLGVIEGL	P10915 HPLN1 165_168_141_145
459	LARSPLLAL	A6NGR9 MROH6 276_280_266_269
460	APRQPGLMS	Q5T1J5 CHCH9 49_56_41_41; Q9Y6H1 CHCH2 49_56_41_41
461	PARVQLAGF	Q8IUG5 MY18B 1238_1239_1241_1247
462	RNVIATTAL	O15075 DCLK1 701_702_684_690
463	KVMGANLLL	Q9H477 RBSK 147_149_126_131
464	LPSDDRGSL	Q9Y2G9 SBNO2 687_693_673_674
465	RGLGVFPVD	A5YKK6 CNOT1 383_386_389_393
466	LDATSVLLE	Q9HAU5 RENT2 740_742_724_729
467	LLNSHCGFA	Q9UHR4 BI2L1 217_220_200_204
468	PRYPAASSL	P30520 PURA2 21_22_7_13
469	YLPAGRSSL	Q5T215 TPC3L 128_128_119_126
470	PLPMSPPIL	Q7Z410 TMPS9 739_745_731_732
471	PYRGGSSEI	P15884 ITF2 493_496_509_513
472	GRPSNPLLL	Q8WXG6 MADD 459_463_455_458
473	PSRNIPGKV	O60524 NEMF 1068_1068_1056_1063
474	AGIRALQQL	P50553 ASCL1 186_187_167_173
475	PRSLNIASL	Q9H9P5 UNKL 451_454_430_434
476	LEAARVAQI	P30486 1B48 171_176_164_166; Q31610 1B81 171_176_164_166
477	GQVSTSQQH	Q8TEC5 SH3R2 352_356_376_379
478	RPSIGLDTL	Q8IVF5 TIAM2 782_785_770_774
479	APRSEVEAN	Q9Y3P9 RBGP1 160_167_159_159
480	ESRGSPPSR	Q9NYZ3 GTSE1 562_563_578_584
481	AKHTAKLGF	Q9NXE4 NSMA3 564_569_588_590
482	SPTSLNRSI	P33241 LSP1 193_195_204_209
483	GRCPGILFL	Q6UWB1 I27RA 540_542_519_524
484	KDTNKVASL	Q5CZC0 FSIP2 6444_6447_6453_6457
485	LRGPSGIY	Q7Z408 CSMD2 409_416_425_425

486	TGRAYPAQI	Q9NX74 DUS2L 342_343_362_368
487	PRPNPSPVVL	Q9C073 F117A 328_331_318_322
488	SPWSGLMSL	Q8TCJ2 STT3B 18_24_14_15
489	GRSMSVDIL	P49959 MRE11 154_159_142_144
490	KPASSYQSL	Q8IXS8 F126B 221_221_196_203
491	VSFALNDSK	O75899 GABR2 709_711_685_690
492	ASKSQALIY	P42345 MTOR 1979_1982_1970_1974
493	RPAGELPEI	Q9ULD8 KCNH3 416_419_392_396
494	ITDPVSGMY	Q93052 LPP 356_361_344_346
495	HGPDFLAIL	P35410 MAS1L 139_140_146_152
496	PFRPPLASV	Q9UPX8 SHAN2 1009_1011_1015_1020
497	GRPLDTLLV	P62314 SMD1 99_100_75_81
498	PRATLGEQL	O75674 TM1L1 327_333_340_341; Q8IWP9 CC28A 6_13_18_18
499	PGHEAFSQI	O60384 ZN861 22_24_16_21
500	RVQGLTQAL	Q6ZVL6 K154L 839_841_853_858
501	LSNAQAIRN	P48380 RFX3 470_473_457_461
502	GRWPSIASL	Q99698 LYST 2260_2264_2243_2246
503	RGPALFNVL	P40424 PBX1 93_94_75_81
504	VNPEEFVPG	P78333 GPC5 157_163_181_182
505	FPRVSTPLA	P12259 FA5 1001_1004_985_989
506	PLKADIFAL	P30291 WEE1 515_516_497_503
507	PMLMSALLL	Q8NG84 O2AK2 148_152_127_130
508	PKANGILYL	Q96EF0 MTMR8 7_8_24_30
509	SHDQALVGY	Q04446 GLGB 479_486_462_462
510	RSIAGLCNR	P50993 AT1A2 412_413_422_428
511	PARVLSFSL	P29728 OAS2 484_485_463_469; Q9Y6K5 OAS3 891_892_869_875
512	SPSYIDGRP	Q96M20 CNBD2 299_302_313_317
513	VAASQYKKP	Q13535 ATR 915_917_927_932
514	VRPQPPTSL	Q6NUS6 TECT3 20_24_33_36
515	KSGQQFSTL	Q2KHR3 QSER1 1158_1160_1163_1168
516	HTSSSTITY	Q5SWH9 TMM69 65_67_84_89
517	PKASMTYSL	Q96RK0 CIC 1167_1169_1159_1164
518	PRITDSPVVL	Q9NZL9 MAT2B 290_291_279_285
519	PSRIPIDSL	Q8NEZ4 KMT2C 1859_1864_1866_1868
520	PRITSPESL	Q9NR80 ARHG4 116_117_107_113
521	PPFGMLLPK	Q9Y2X9 ZN281 735_740_732_734
522	PSRLTLISI	O14525 ASTN1 365_367_386_391
523	KEVYGGYKG	Q9Y265 RUVB1 128_131_148_152
524	PVRDNSLSI	Q8TBF2 PGFS 121_124_109_113
525	GRNIPMISL	Q9UDY4 DNJB4 274_279_256_258
526	PKPAINTFL	P46013 KI67 1785_1788_1795_1799
527	QPRNGLVAF	Q96Q15 SMG1 2942_2946_2961_2964
528	MPAPLGRNF	Q9P2D7 DYH1 2298_2300_2284_2289
529	PSRTESSQL	Q13428 TCOF 1176_1180_1199_1202; Q9C0A6 SETD5 1234_1235_1248_1254
530	PRSYPNSAL	Q15652 JHD2C 1106_1110_1123_1126
531	LPDQVTHVP	Q9NY15 STAB1 63_66_39_43
532	VTFIEAPKT	Q8N2C7 UNC80 3110_3115_3098_3100

533	VGTDSPLRY	P08865 RSSA 171_172_150_156
534	DLNKDGFSL	Q9NZM3 ITSN2 67_72_79_81
535	PKAWGCFSL	Q96HB5 CC120 243_246_232_236
536	NLRCIVSGF	Q9H5Z1 DHX35 617_617_607_614
537	RNFTLSGTN	Q99731 CCL19 44_46_19_24
538	LSYRGPFVA	Q8N9W5 DAAF3 261_264_280_284
539	VPPPHRLP	Q0P670 CQ074 271_271_280_287; Q9Y520 PRC2C 709_715_696_697
540	FRSVNGLAF	P35606 COPB2 424_424_442_449
541	HNLEKGLSL	Q9Y4A5 TRRAP 2700_2702_2716_2721
542	PSQQAPRLD	Q92817 EVPL 509_514_533_535
543	PRDDVPLSL	Q9UFC0 LRWD1 225_226_236_242
544	NPLKVSKNL	Q9H1H1 GTSFL 76_81_54_56
545	IAYDKALGY	Q5TAA0 TTC22 177_178_180_186
546	GKRANPQDK	P01833 PIGR 287_290_300_304
547	SRLDPPLSL	Q3Y452 TDRG1 60_64_43_46
548	PRAGQPLEF	P25325 THTM 23_29_48_49
549	VNLSAHFKV	Q8TCU4 ALMS1 2626_2630_2638_2641
550	LDLLTEVVL	Q9H3U1 UN45A 299_305_293_294
551	NHEGGLILY	Q9UIG8 SO3A1 658_663_639_641
552	ELSQLVDLV	Q9NRD1 FBX6 156_157_143_149
553	RSLDSVLII	Q9Y620 RA54B 415_418_404_408
554	GHNVTVQVY	Q07954 LRP1 1509_1514_1526_1528
555	AHNVKAMVF	Q9Y5A7 NUB1 148_155_169_169
556	RQVDEGTVL	P49902 5NTC 303_306_298_302
557	KSFPTSSTY	Q6ZTR5 CX022 824_826_804_809; Q7Z5J4 RAI1 237_237_215_222
558	IPLEGYLGR	Q8TCU6 PREX1 186_192_180_181
559	ESVTIDKAR	P28066 PSA5 110_113_89_93
560	PRQGTISFL	Q96EN8 MOCOS 307_309_318_323
561	PRSEALFSI	Q8IY92 SLX4 1208_1212_1191_1194
562	RSPHLLLAL	A6NGR9 MROH6 278_279_263_269
563	PQADSLARY	Q5VTY9 HHAT 421_423_413_418
564	NRCTLVTTL	Q9HD20 AT131 994_994_978_985
565	PSAPP RWI	Q96LI5 CNO6L 185_187_170_175
566	PSRFSTLTI	P01596 KV104 59_63_72_75; P01597 KV105 59_63_72_75; P01599 KV107 59_63_72_75; P01600 KV108 59_63_72_75; P01601 KV109 81_85_94_97; P01602 KV110 81_85_94_97; P01604 KV112 59_63_72_75; P01609 KV117 59_63_72_75; P01610 KV118 59_63_72_75; P01611 KV119 59_63_72_75; P01612 KV120 59_63_72_75; P04432 KV124 81_85_94_97
567	GTDPDNLKY	Q96Q15 SMG1 18_19_38_44
568	AVITKLQLH	Q92636 FAN 632_633_617_623
569	HSSSDSEYI	Q9ULU4 PKCB1 586_587_597_603
570	PLQGIVREI	Q96P26 NT1B 232_233_218_224
571	PPSSVWLSR	A4FU01 MTMRB 557_563_565_566
572	INQAERDAI	Q8IWV8 UBR2 1611_1614_1587_1591
573	LNNNSKNLL	Q8WYL5 SSH1 618_623_611_613
574	LWVCDLVAL	Q8IW52 SLIK4 544_546_537_542
575	VTNEASLHY	Q8N1W1 ARG28 218_220_237_242

576	LAQALFEEI	Q14683 SMC1A 164_166_153_158
577	PRTPLSYSI	B2RTY4 MYO9A 774_779_767_769
578	YYSLAPGTY	Q8TD57 DYH3 3763_3769_3771_3772
579	IREGATLLY	Q8IYI6 EXOC8 443_444_449_455
580	PSRIYSNSL	Q9Y2U8 MAN1 412_413_404_410
581	ADTDSPRLY	P08865 RSSA 129_130_150_156
582	GRWSGQISF	P00751 CFAB 149_154_127_129
583	PQRNLILAL	Q8NB78 KDM1B 328_329_311_317
584	LGHDTGLYY	Q7L1T6 NB5R4 255_257_270_275
585	LSSWSIMK	Q12770 SCAP 385_387_389_394
586	PHPFEAQTL	Q13610 PWP1 291_291_308_315
587	LPRISEVLL	Q562E7 WDR81 1365_1369_1371_1374
588	MMISPAIDY	Q9P2K8 E2AK4 1030_1031_1039_1045
589	PRSNNINLL	Q02880 TOP2B 824_825_799_805
590	RSREAPVLL	Q08AI8 CB054 26_31_42_44
591	DAVRTVMSY	Q8NA57 CL050 340_345_318_320
592	YAAIECFLL	Q8NGF4 O5AP2 129_132_117_121; Q8NGI9 OR5A2 124_127_112_116; Q8NGQ6 OR9I1 123_126_111_115  Q92777 SYN2 150_156_129_130
593	ELNLVAHCF	P54687 BCAT1 279_281_260_265
594	PPLTMNLFL	P18850 ATF6A 442_447_459_461
595	DHSVSNLLY	Q7Z418 KCNKI 316_318_321_326
596	FCFLTTIGF	Q9Y5S2 MRCKB 191_194_203_207
597	IHLQLPDNVL	O75170 PP6R2 92_97_105_107
598	ISDRLGLLY	Q6RI45 BRWD3 928_930_943_948
599	ILDGDELIY	P53816 HRSL3 125_130_104_106
600	ARSDQVVLY	Q495T6 MMEL1 594_596_599_604; Q9NYZ3 GTSE1 600_602_586_591
601	FSKPQALNF	Q8TDX7 NEK7 206_207_221_227; Q9HC98 NEK6 217_218_232_238
602	ERSLGCLLY	Q6P5Z2 PKN3 85_86_96_102
603	PGRPWAEQL	Q5SXM2 SNPC4 401_402_383_389
604	KGDSMQLIY	Q9UQL6 HDAC5 572_575_559_563
605	PREGQQEVL	Q7L9L4 MOB1B 129_129_147_154; Q9H8S9 MOB1A 129_129_147_154
606	EVAKTILKR	O15258 RER1 34_37_50_54
607	DKSTLSFVY	Q8TD06 AGR3 134_136_147_152
608	GRYDLPLLI	Q9Y6D6 BIG1 131_135_148_151
609	IETICQLQI	P15529 MCP 101_107_110_111
610	YIRDPLNAV	Q8NGJ5 O51L1 39_39_55_62
611	VSSLHQPMY	Q5SZK8 FREM2 1570_1572_1584_1589
612	FTINNTRPV	Q9P2J2 TUTLA 1168_1173_1148_1150
613	QPVPHPPEFL	Q9GZU2 PEG3 687_690_677_681
614	FTDGKTYNK	P10745 RET3 1137_1138_1150_1156
615	KSTAEEFTY	Q8TEK3 DOT1L 470_472_458_463
616	HSPSPFYQL	Q9Y6I9 TX264 170_174_185_188
617	LEIYQARQG	Q8WYA1 BMAL2 413_418_433_435
618	HNNLTDDSY	Q9Y6D9 MD1L1 171_176_150_152
619	WSVMDQDSL	P11586 C1TC 881_882_886_892
620	PTLPIRDIR	Q5TEA6 SE1L2 375_381_361_362
621	HGLGLYYF	

622	FGKSYLQEI	Q96Q04 LMTK3 144_146_134_139
623	PQREITNQV	Q9NWF9 RPN216 194_195_186_192
624	PVRTVQNSW	O75592 MYCB2 2032_2037_2053_2055
625	TSECSEIRY	O95150 TNF15 159_166_147_147
626	VLLFDQTTPR	Q9Y2G8 DJC16 274_281_261_261
627	HQSSELLYI	Q9NVV4 PAPD1 317_318_336_342
628	PSRNLFQDL	Q9Y4G8 RPGF2 846_849_836_840
629	DWARGLLLFF	Q5T2N8 ATD3C 222_224_229_234; Q5T9A4 ATD3B 397_399_404_409; Q9NVI7 ATD3A 445_447_452_457
630	MPSFLQDRV	P78527 PRKDC 410_415_405_407
631	DYDKYGLGY	P53350 PLK1 416_417_419_425
632	ISEKIEVLY	Q99460 PSMD1 38_40_44_49
633	PSQPRWLLP	Q7Z2Y5 NRK 389_395_373_374
634	ENTDSPLRY	P08865 RSSA 136_136_149_156
635	VTDDLQMLY	Q5FWE3 PRRT3 112_118_96_97
636	NFNIAENLY	Q9NS00 C1GLT 64_66_79_84
637	LYNDISPLY	Q8NI08 NCOA7 280_285_303_305
638	HHIIHQTVL	P47211 GALR1 263_267_247_250
639	SPQEFIIHE	Q9HD43 PTPRH 885_890_866_868
640	PSREEQQLL	A9UHW6 MI4GD 4_8_19_22
641	YAFGETNRF	Q6E213 AWAT2 223_228_243_245
642	EHSLIDTQY	P28340 DPOD1 947_950_952_956
643	RQQVELYGI	O00206 TLR4 780_786_765_766
644	ADDELRLLY	Q9Y4W2 LAS1L 92_93_109_115
645	LSQQTLEEY	Q8N6L0 KASH5 344_346_321_326
646	PSYPFLARY	Q96AV8 E2F7 159_162_154_158
647	AQEVFVLFY	Q5VTQ0 TT39B 412_416_395_398
648	PMSHYQLQL	O95376 ARI2 234_235_221_227
649	KSLFLAIYY	Q8TDI7 TMC2 780_782_769_774
650	TRWSALLYL	Q5M7Z0 RNFT1 319_322_328_332
651	SSEKPNWDY	Q9H9J2 RM44 84_84_61_68
652	EDIHTHVLY	P78395 PRAME 449_452_437_441
653	WSQRCIATY	Q8TAF3 WDR48 237_238_242_248
654	DIKDNLEQY	Q8WZ64 ARAP2 10_13_19_23
655	ANEEYELLY	Q14156 EFR3A 563_566_548_552
656	IYSPAkwQR	O00562 PITM1 894_898_903_906
657	QPMDTRQLY	A5PLN9 TPC13 244_250_252_253
658	IEEDKYDQL	Q96EB1 ELP4 86_91_71_73
659	LFQENIIY	Q5CZC0 FSIP2 2382_2388_2374_2375
660	ETESQQIRY	Q9H7F0 AT133 116_116_132_139
661	LSWDETLYK	Q5VZM2 RRAGB 212_213_226_232; Q7L523 RRAGA 151_152_165_171
662	LYNDQLNIY	Q16820 MEP1B 345_347_353_358
663	ELETNQWQL	Q8TC57 M1AP 342_347_336_338
664	EMDRNFLLY	O00192 ARVC 635_640_657_659
665	NFEYNLLEY	Q99698 LYST 3142_3145_3121_3125
666	YVYCRYDNY	Q86V42 F124A 167_167_176_183
667	PRGNLPLII	P27987 IP3KB 589_595_570_571

668	PSRGFPLGL	Q9P270 SLAI2 57_58_65_71
669	PLGGTAKPL	Q13319 CD5R2 94_95_115_121
670	GRAAGPTPR	O95407 TNF6B 249_252_243_247
671	AACHSALLT	Q9BXJ7 AMNLS 237_242_258_260
672	AASKEARPG	Q9NU02 ANKE1 298_302_314_317
673	KPAPVGPPRA	Q658T7 F90A2 8_9_26_32; Q86YD7 F90A1 8_9_26_32
674	APHDRAAPA	Q15542 TAF5 90_94_73_76
675	GVASGRLLH	O75366 AVIL 118_122_135_138; P09327 VILI 121_125_138_141; Q96E35 ZMY19 79_81_64_69; Q9Y6U3 ADSV 121_125_138_141
676	PGKVIPKAL	P11498 PYC 1117_1121_1102_1105
677	PKILAGVKP	P06401 PRGR 918_923_925_927
678	APHLVKGMA	P51812 KS6A3 695_701_703_704
679	PAGPGRKEL	Q13087 PDIA2 468_474_452_453
680	RASVPAPAR	Q8IY33 MILK2 297_302_319_321
681	RTPTPVGAK	Q13084 RM28 36_41_47_49
682	APAPARRPP	P42679 MATK 487_489_465_470; P51826 AFF3 575_581_563_564; Q9H4M7 PKHA4 258_259_251_257; Q9H6H4 REEP4 162_166_180_183
683	WALPNGGGY	Q8N3U1 YS014 84_87_64_68
684	ANIAAPRII	Q96PU8 QKI 207_209_224_229
685	PLSRAINLG	Q6ZPB5 SDIM1 40_42_57_62
686	PSLGRDGKI	Q86SG5 S1A7A 30_32_22_27
687	VAAPPRFKG	O60500 NPHN 590_595_599_601
688	ARLTSLGPK	P78371 TCPB 24_28_43_46
689	PAVHHATVL	P58505 CU058 289_293_307_310
690	RSLTGILGK	Q16787 LAMA3 3189_3195_3203_3204
691	LG SMPKISL	Q9UPY3 DICER 1489_1493_1466_1469
692	VPGRLRLPPP	Q96L73 NSD1 2380_2381_2383_2389; Q9NP71 MLXPL 404_407_385_389
693	PTSASRKSL	Q5THJ4 VP13D 1742_1748_1724_1725
694	GRPPPPRGL	Q9Y5W3 KLF2 165_169_144_147
695	RGGLPPPPR	Q04756 HGFA 106_106_81_88
696	RAAAPPLPR	Q8IY37 DHX37 241_241_221_228
697	GRLLPSVAH	P04920 B3A2 641_645_625_628
698	PSVAHRVAL	Q9P281 BAHC1 1539_1546_1537_1537
699	ARPRAPGLL	Q8NBB4 ZSCA1 205_206_195_201
700	PRAPGILAR	A8MTQ0 NOTO 39_43_54_57
701	VTPKKSPVV	Q9Y2M0 FAN1 97_104_77_77
702	PLGLRVLGK	Q9Y6V7 DDX49 96_99_91_95
703	PEAARRAAL	Q6UXH1 CREL2 22_25_5_9
704	PRAASPSRL	Q92538 GBF1 1774_1777_1789_1793
705	PARASRPLS	Q9UL51 HCN2 799_800_815_821
706	PIDGKRAVV	Q13685 AAMP 249_250_226_232
707	PGAKKAERV	Q9P281 BAHC1 2174_2175_2186_2192
708	DSPKIGNLL	Q8TDW0 LRC8C 758_758_745_752
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710	VRSRPAASL	Q8TDD1 DDX54 520_525_501_503
711	ARARGLTLV	Q86U10 LPP60 51_56_60_62
712	PRCSLGLGR	P0C5W0 PNM6B 95_98_103_107; P0CW24 PNM6A

713	RAAPPPPPR	95_98_103_107; P0CW26 PNM6C 95_98_103_107; P0CZ20 PNM6D 95_98_103_107  A6NFN3 RFOX3 239_246_223_223; O14511 NRG2
714	ISPTGRSKL	728_729_720_726; Q96B36 AKTS1 19_19_33_40; Q9H0K1 SIK2 809_811_828_833  P0C1S8 WEE2 122_126_101_104
715	LRAGSVISR	Q6ZW31 SYDE1 176_177_197_203
716	LSTTLPESI	Q8N5G2 MACOI 243_249_228_229
717	LDQSSGRAK	B5ME19 EIFCL 635_636_638_644; Q99613 EIF3C 634_635_637_643
718	PRAGTVHIL	Q8TEY5 CR3L4 168_173_165_167
719	PLKEHAASL	Q9H0A8 COMD4 116_117_100_106
720	SPGKDPRLP	A6NMT0 DBX1 318_321_302_306
721	GVPEARIPK	Q8TAD8 SNIP1 241_242_250_256
722	PGAKRLLVL	Q9GZY6 NTAL 31_35_14_17
723	AHLTGMRAL	Q13310 PABP4 376_379_388_392
724	PTAGQLARR	Q92902 HPS1 676_677_684_690
725	RALVEIAAK	Q15067 ACOX1 490_491_494_500
726	GRLDKGLVL	P08195 F2 246_249_257_261
727	RAHPALPPL	Q9UMX2 OAZ3 145_146_159_165
728	GRVLCVLVL	Q5VUG0 SMBT2 579_582_560_564
729	TTRKGLSPL	Q96HA7 TONSL 625_625_628_635
730	PHVKPIAVL	O75161 NPHP4 1127_1129_1114_1119
731	PARTDHPAL	O75648 MTU1 318_319_294_300
732	RAIPPVAVR	Q14839 CHD4 1899_1900_1878_1884
733	RALPVPAVR	O95407 TNF6B 2_3_22_28
734	RALPVVPAR	O95996 APC2 1367_1371_1351_1354
735	VRTPALHSV	P04114 APOB 1316_1322_1325_1326
736	PSSIHVARL	Q7Z408 CSMD2 654_657_662_666
737	LGREAIHAL	Q9Y4R8 TELO2 39_40_13_19
738	IPIMLPSLP	Q6UWD8 CP054 32_36_24_27
739	PAAPRRSII	Q3YEC7 RABL6 345_346_352_358
740	LHSTLPVSK	Q8WXI7 MUC16 4553_4560_4539_4539
741	PARGTRPDL	Q8N539 FBCD1 226_232_221_222
742	APRGERPSL	O14529 CUX2 717_720_729_733
743	VADGLRPRV	Q5VUJ9 EFCB2 22_25_9_13
744	RAPTVRLGL	P55199 ELL 409_409_420_427
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747	SRLPPVTSK	O00515 LAD1 334_340_347_348
748	SVRVAVEPK	Q7Z2Z2 ETUD1 600_600_618_625
749	RGPSSLRVL	Q15393 SF3B3 429_431_433_438
750	LAALALREK	Q6UXG8 BTNL9 269_274_284_286
751	KPLPPHLAI	O95834 EMAL2 133_138_111_113
752	LNVTNANLK	Q96PB8 LRC3B 46_49_52_56
753	PADVRKTVT	Q460N3 PAR15 406_407_383_389
754	SRACPLVLK	Q9H324 ATS10 1088_1090_1078_1083; Q9UKP5 ATS6 1102_1104_1092_1097
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756	PSMEVGKKL	Q9Y4G8 RPGF2 323_324_310_316
757	LGGDRRTTI	O15069 NACAD 35_40_32_34

758	RASETALLK	A6NJI9 LRC72 19_25_36_37; P20648 ATP4A 456_456_462_469; P54707 AT12A 486_486_466_473
759	RVAGILSKF	O96005 CLPT1 447_451_455_458
760	TVNLSLFAK	Q8N139 ABCA6 572_573_576_582
761	RGLAHKVVL	Q6TDP4 KLH17 88_90_105_110
762	SPRPTVSHL	Q96T58 MINT 3025_3028_3012_3016
763	AALNRISHI	Q9HBX8 LGR6 181_181_194_201
764	IATLKHQIA	Q9BXX3 AN30A 1118_1124_1111_1112
765	VRSHKAALI	Q92766 RREB1 662_665_683_687
766	RTGVPPTIR	Q9Y5I2 PCDAA 297_299_284_289
767	GTRPPVTLR	P57723 PCBP4 121_122_99_105
768	PVQEKLGL	Q9H1K0 RBNS5 346_346_366_373
769	PAELGLIRK	P53396 ACLY 812_813_830_836
770	LRSPKVLAI	P0C7T3 O56A5 92_94_82_87; Q8NGH5 O56A1 96_98_86_91; Q8NGH8 O56A4 92_94_82_87
771	RAPGLWGQL	P50402 EMD 211_214_225_229
772	RALAALVQR	Q92737 RSLAA 142_148_134_135
773	VRAAKQLVI	Q9Y2Q0 AT8A1 512_518_530_531
774	PRSEAARVL	Q2PPJ7 RGPA2 1097_1100_1085_1089
775	PRLTGVRIS	Q8IX06 GOR 190_193_198_202
776	PRQKGSLTI	P49917 DNL14 135_136_139_145; Q6ZTR5 CX022 28_29_4_10
777	RTVDVSPKV	Q8TAB3 PCD19 1037_1041_1045_1048
778	PAALPTRKF	P40429 RL13A 121_124_131_135; Q6NVV1 R13P3 35_38_45_49
779	KAVEKANLK	Q9ULD2 MTUS1 1144_1146_1124_1129
780	LQALPFAKI	Q9GZX3 CHST6 353_354_336_342
781	CLAPDIRSK	Q5T7W7 TSTD2 324_330_316_317
782	GRTPLMISK	O75179 ANR17 630_635_650_652; Q8IWZ3 ANKH1 601_606_621_623
783	LGRVSKETI	Q14765 STAT4 68_74_54_55
784	NHILPKPAI	Q7Z5N4 SDK1 517_520_507_511
785	PLHNVSSH	Q16665 HIF1A 45_46_48_54
786	PLYMGPITL	Q9Y320 TMX2 130_135_117_119
787	RASPFKVSL	Q12860 CNTN1 68_72_60_63
788	GQHLVNPLK	P30711 GSTT1 38_41_48_52
789	VPHTPVRTV	P06400 RB 366_366_371_378
790	PRGDLHVVL	Q2NL82 TSR1 127_128_141_147
791	VEVPKKHIG	Q9NQE9 HINT3 104_105_88_94
792	QPPRVVVVI	Q6J4K2 NCKX6 413_416_392_396
793	RAPAPLRL	Q2QGD7 ZXDC 26_31_39_41
794	RLPLRAPAL	Q8IV53 DEN1C 496_498_481_486; Q8NBT3 TM145 11_12_3_9
795	LSMGYATKH	Q92839 HYAS1 347_354_333_333
796	PSSSKYVKL	Q99715 COCA1 337_338_346_352
797	SPSKSYVKL	O14929 HAT1 301_301_278_285
798	GRPLPRTVI	P22748 CAH4 288_292_279_282
799	LGRPVAHL	Q14156 EFR3A 242_243_255_261
800	PRQLKGVVL	O15235 RT12 46_47_57_63
801	PADAVRLLR	P05060 SCG1 89_92_83_87
802	PALTRRLAI	P58107 EPIPL 2565_2571_2573_2574
803	ARLSPKLIL	Q5JV73 FRPD3 987_987_971_978

804	PNRTKALVL	Q16773 KAT1 183_184_174_180
805	PRKNTAIVI	Q8N323 NXPE1 420_421_430_436; Q96DL1 NXPE2 432_433_442_448
806	PSRKPIDSL	Q9UQ35 SRRM2 2701_2702_2679_2685
807	LKPRPLASM	Q9HAW4 CLSPN 890_893_895_899
808	LSPAKRLDL	P98160 PGBM 4063_4066_4085_4089
809	VDRVNLIAL	Q9HB75 PIDD 640_641_615_621
810	GKLLDIRTP	Q96QU1 PCD15 1332_1336_1354_1357
811	PRISVKTVL	Q8TAG6 CH046 119_125_143_144
812	PTLVKLKTI	P15848 ARSB 355_360_378_380
813	QTALVEIIK	Q9NSE4 SYIM 820_825_801_803
814	KPRPIIPPP	O94953 KDM4B 521_527_510_511
815	RVTQILTGK	O43736 ITM2A 40_41_31_37
816	LVIMVLATR	Q9HCL0 PCD18 714_719_721_723
817	QAHSLSNFL	Q9Y2P8 RCL1 4_9_14_16
818	QAHTAVFDK	Q8WXD2 SCG3 185_188_166_170
819	PKQNKFAL	Q8NE71 ABCF1 214_215_190_196
820	AVVFRSPIK	Q8NFP9 NBEA 1548_1552_1529_1532
821	IRFGVGSIPK	O43390 HNRPR 231_232_249_255; O60506 HNRPQ 228_229_246_252
822	PKLSKFIAI	Q9HC73 CRLF2 227_233_239_240
823	PKKISFIAI	P07498 CASK 122_125_116_120
824	KISFPIIAK	Q6ZRI8 RHG36 210_215_231_233
825	GFQNALLVR	P02768 ALBU 423_423_427_434
826	LAMGIQTRK	P43694 GATA4 308_310_314_319; Q92908 GATA6 481_483_487_492
827	LKLPNGFTK	Q9NWK9 BCD1 320_321_323_329
828	PARIESKSM	O60749 SNX2 98_99_112_118
829	KNKKAMSTL	P20929 NEBU 1947_1952_1970_1972
830	PSRPVPRVL	O75161 NPHP4 471_473_485_490
831	PRVPVLRAL	Q8IYG6 LRC56 510_511_496_502
832	PRASPLMHI	A8MPP1 D11L8 541_542_562_568; Q92771 DDX12 558_559_579_585; Q96FC9 DDX11 539_540_560_566
833	RADPLHISI	P12524 MYCL 192_196_204_207
834	PIVHSRISI	O60309 L37A3 1297_1302_1279_1281
835	PRSPLPRSI	Q92610 ZN592 332_336_349_352
836	PRIPRAEAI	Q7Z4N2 TRPM1 1516_1520_1512_1515
837	PRVKPELAL	Q86XI2 CNDG2 781_782_755_761
838	PHLDKTSII	Q2TB18 ASTE1 385_391_375_376
839	PVPRSKVEI	Q8WZ74 CTTB2 1614_1620_1640_1641
840	GLVWIPLVQ	P21145 MAL 35_39_49_52
841	IGRIPDIIK	P11498 PYC 86_88_99_104
842	PLSGLRRIL	O75489 NDUS3 203_206_184_188
843	GLRRVLQAL	P08727 K1C19 185_190_173_175; P39019 RS19 109_110_101_107; Q04695 K1C17 189_194_177_179
844	VRRAVLQAL	Q9Y2R9 RT07 19_25_16_17
845	RSSSVLLQH	Q6N043 Z280D 426_429_402_406
846	RATLIALLR	Q9GZT5 WN10A 296_300_288_291
847	ISLGWKPTK	Q8WZ42 TITIN 16648_16654_16644_16645
848	HATKFQDAL	Q9Y6L7 TLL2 999_1000_1005_1011
849	VMTLAVLQR	Q6ZNA5 FRRS1 453_460_436_436

850	LSRSDVLLK	Q6P995 F171B 34_38_19_22
851	RSLATLNEK	Q8WUW1 BRK1 44_45_47_53
852	ICPRCESPK	Q9Y4L5 RN115 37_42_30_32
853	KTESPVPLY	Q5VT06 CE350 1908_1909_1929_1935
854	IANVPLHNR	Q6ZMI0 PPR21 255_256_240_246
855	PMSLKKIAF	A6NDL8 O6C68 281_282_302_308
856	RGLFIISTK	P46100 ATRX 2109_2110_2112_2118
857	PKNHTLVLL	Q6ZN66 GBP6 109_110_90_96; Q96PP9 GBP4 124_125_105_111
858	PRAPQQILI	Q96RD6 PANX2 642_643_656_662
859	GRPLIQPRV	Q86UU9 TKN4 73_79_70_71
860	KPPLPSERL	Q5VV67 PPRC1 1112_1116_1097_1100
861	VPRSVPPLL	P30405 PPIF 16_22_4_5; Q8IZ40 RCOR2 429_433_451_454
862	GTYENVRAK	P15153 RAC2 114_115_90_96
863	GIAENRHLQ	Q9H8H3 MET7A 91_91_111_118
864	PRPKLLTDV	H3BNL1 CC084 177_182_167_169
865	PLAELRALR	P0DKB5 TPBGL 170_175_191_193; Q96C12 ARMC5 241_245_218_221
866	IAYPHVLVK	Q9BUJ2 HNRL1 354_355_369_375
867	QQVARLVIL	Q8NCM8 DYHC2 601_604_578_582
868	GKHTKLIML	Q9NZJ4 SACS 3952_3953_3958_3964
869	PQVLRALML	P58180 OR4D2 182_186_161_164
870	RPRACLVLL	Q8WUA2 PPIL4 21_26_3_5
871	PLRCTRALL	Q96S19 CP013 115_119_133_136
872	PLSSRKIEL	Q14693 LPIN1 295_301_277_278
873	PSSLRKELL	Q4KMP7 TB10B 362_366_377_380; Q9BZE0 GLIS2 307_312_327_329; Q9NR97 TLR8 221_226_204_206
874	IPEKRVTSI	P21108 PRPS3 159_161_176_181
875	RATSLLLLR	Q9HB65 ELL3 35_36_22_28
876	RAPKQMSLL	Q4AC94 C2CD3 275_277_279_284
877	HSSFVPFSH	P04798 CP1A1 378_384_363_364
878	RAIDEVVSR	Q6P6C2 ALKB5 126_127_107_113
879	LPSFRSPLK	Q8IVF2 AHNK2 4960_4964_4951_4954
880	IKYLPPASR	Q7RTU5 ASCL5 204_207_220_224
881	VTHYVKVAK	Q4G163 FBX43 614_616_624_629
882	RLFVGEPVK	Q9BV57 MTND 147_154_140_140
883	ALYTEAIKH	Q2KHT3 CL16A 170_177_156_156
884	VNKSGYKHI	Q9BQG2 NUD12 75_78_90_94
885	LEDGLKMKL	A6NHP3 SPE2B 203_205_178_183; A6NIY4 SPDE5 163_165_138_143; A6NJR5 SPDL3 163_165_138_143; A6NME0 SPDL1 203_205_178_183; A6NNV3 SPDL2 163_165_138_143; P0CI01 SPDE6 203_205_178_183; Q495Y7 SPDE7 59_61_34_39; Q495Y8 SPDE2 203_205_178_183; Q8NFV5 SPDE1 162_164_137_142
886	YISLVPARQ	Q99755 PI51A 49_54_44_46
887	SVDPKNYKP	P01584 JL1B 200_206_193_194
888	VFLAAGRKW	O60353 FZD6 298_298_308_315
889	VEVVQKFAK	O15213 WDR46 106_112_126_127
890	LVLRGHLK	Q2M3R5 S35G1 239_243_220_223
891	PTHARIIEI	P24043 LAMA2 1281_1287_1303_1304
892	PRKVPVIQI	Q9NXX6 NSE4A 236_243_222_222

893	GRLNYSTIK	Q17RY0 CPEB4 403_408_400_402
894	PSQRPRPTL	O14733 MP2K7 56_57_37_43
895	PARLMITHI	Q9NTJ3 SMC4 71_72_81_87
896	PRLPLQKSL	Q9BXD5 NPL 281_286_301_303
897	QQKGHTQIL	Q96NG5 ZN558 20_26_5_6
898	PRQVPKSEI	Q93075 TATD2 713_719_735_736
899	PRSARLLLE	Q9P2Y4 ZN219 112_114_117_122
900	RPSEALLRL	A8MUQ0 PN6BL 301_305_325_328
901	PQSRRSLVI	Q8WZ42 TITIN 17111_17116_17108_17110
902	PEEKAKLI	Q9BQG1 SYT3 272_273_261_267
903	RTIAEVLQK	Q8N5I2 ARRD1 220_225_205_207
904	RQSLIELAK	Q15051 IQCB1 411_416_431_433
905	APKLMVPRF	Q8IVF2 AHNK2 5398_5398_5387_5394
906	PAKLRVMFP	O75911 DHRS3 30_34_10_13
907	KPMVKTIEL	Q9NW08 RPC2 717_720_723_727
908	ICTKKLILK	Q13395 TARB1 1244_1246_1264_1269
909	RMLATLEVK	P54886 P5CS 375_380_355_357
910	GPRYVEVLK	P62333 PRS10 76_80_59_62
911	RPQAQHDPL	P63218 GBG5 60_62_43_48
912	LSRERAYPA	Q8NDT2 RB15B 298_303_319_321
913	KPIELFSKT	Q9NZ56 FMN2 1342_1344_1330_1335
914	QLNKISYAK	O75330 HMMR 617_621_624_627
915	RKPPPIPLMI	A4FU01 MTMRB 189_196_177_177
916	RTVQLTPPR	Q8N0Z3 SPICE 556_559_536_540
917	PRTDPKILK	Q9UIW2 PLXA1 875_876_862_868
918	PLDQKRLKA	Q86VP6 CAND1 552_555_574_578
919	TRLVLDPVR	Q9Y2R5 RT17 31_37_28_29
920	NPQVKRILT	Q8TD30 ALAT2 54_58_46_49
921	YSSSKKKEL	Q8NCM8 DYHC2 2879_2879_2883_2890
922	QRVPVTEKL	P38606 VATA 231_233_216_221
923	VEKSLQRIP	Q96AY4 TTC28 1749_1756_1735_1735
924	RALRPSEIK	P08779 K1C16 136_138_157_162
925	ARRIESPLK	P78406 RAE1L 186_186_205_212
926	LVITRLLNK	Q96JD6 AKCL2 158_161_179_183
927	VLQTRVSIR	Q9H4G0 E41L1 716_722_707_708
928	RLTQTLVKL	Q8WYJ6 SEPT1 62_67_83_85
929	MVLPLRDTK	P51825 AFF1 762_763_741_747
930	VQLNELKTE	P35240 MERL 526_526_538_545
931	PAELKEFEI	Q68DL7 CR063 164_165_167_173
932	IRSEIQMAK	Q9H720 PG2IP 621_622_636_642
933	MHSIFSLLK	P18577 RHCE 328_335_310_310
934	VSSRWLKSL	Q8NCL4 GALT6 31_34_42_46
935	PRKSNLISY	O94892 ZN432 411_417_428_429
936	IGYENAREK	Q75QN2 INT8 288_289_271_277
937	PRLEQGLLR	O15287 FANCG 112_118_126_127
938	VPNKRNLQ	P63241 IF5A1 81_87_90_91; Q6IS14 IF5AL 81_87_90_91; Q9GZV4 IF5A2 81_87_90_91

939	PQKPKMKLN	Q7Z2T5 TRM1L 245_247_254_259
940	PAELRETLR	Q96ED9 HOOK2 454_460_462_463
941	IHPYNIKSL	Q13601 KRR1 213_215_217_222
942	PRYKPVVLL	O60779 S19A2 87_87_96_103
943	EVYHTISLK	Q96DT6 ATG4C 194_197_175_179
944	QFPMIKVNL	Q99501 GA2L1 224_230_207_208
945	RSKMLMLLV	Q96KK3 KCNS1 15_17_1_6
946	KDERFVVAK	Q8WZ60 KLHL6 329_334_350_352
947	LVYPETSRK	Q9NXH8 TOR4A 99_100_102_108
948	KLQEFTAQK	Q16566 KCC4 316_320_312_315
949	TRVNEFSLK	O00339 MATN2 94_96_107_112
950	PTRPLQRQV	O75064 DEN4B 933_939_912_913; Q68BL8 OLM2B 293_294_277_283
951	IKELHLTKL	A6NM43 TCPQL 191_194_179_183; Q96SF2 TCPQM 191_194_179_183
952	PTHQTVRIF	Q5T0F9 C2D1B 678_680_688_693
953	LLEKTQLQK	Q92805 GOGA1 630_633_617_621
954	RSIDQEIKI	P78318 IGBP1 190_190_210_217
955	KLYKVNLKP	Q15034 HERC3 596_603_580_580
956	AHKEIHQQL	Q9P2W9 STX18 118_123_112_114
957	KLDVKILLY	Q7Z6K3 PTAR1 210_217_191_191
958	KDDDDTSFY	Q9NUN5 LMBD1 126_132_121_122
959	KDLRELFGK	Q9NPL8 TIDC1 72_73_58_64
960	PPYLIPIRHL	Q9Y618 NCOR2 1674_1678_1660_1663
961	LPYLPRLH	Q4KMQ1 TPRN 472_476_480_483
962	GWFKLFPLV	Q9UQ26 RIMS2 1373_1379_1383_1384
963	AKFTKFYGF	Q9Y227 ENTP4 451_455_428_431
964	YLKDGLIKY	P38484 INGR2 294_297_275_279
965	RTQTLIQEK	P78344 IF4G2 505_508_525_529
966	LVIQKQIFK	O95373 IPO7 210_211_199_205
967	IRPEVLELR	Q9Y3E2 BOLA1 36_37_46_52
968	RMTPFLRPI	Q969E1 LEAP2 37_41_47_50
969	RFTRQGPLR	O43638 FOXS1 113_117_132_135
970	KPYFPIRPL	Q00839 HNRPU 464_469_442_444
971	KPYFIKVHV	P04080 CYTB 78_79_53_59
972	LTYTSYKEK	Q15005 SPCS2 128_129_131_137
973	LQRAKENFK	Q9ULG1 INO80 1235_1240_1253_1255
974	LELDELNRH	P78527 PRKDC 2081_2083_2086_2091
975	DETKLKEIY	Q9NYU1 UGGG2 261_263_275_280
976	PINPRFQRL	P13010 XRCC5 507_508_484_490
977	LYYITKVLK	P24390 ERD21 190_191_198_204; P33947 ERD22 190_191_198_204
978	KEILEVTRR	Q96MK3 FA20A 290_296_276_277
979	PLIMRQREL	Q9H9B4 SFXN1 174_176_196_201
980	RAFEKTLEY	Q53EL6 PDCD4 162_168_174_175
981	PRMQNEIRI	Q14573 ITPR3 2603_2605_2619_2624
982	MWGMLNIHY	Q5FWF4 ZRAB3 455_459_441_444
983	RTLIMIMLYK	Q13393 PLD1 436_439_417_421
984	EIQETQMKY	Q7Z402 TMC7 99_99_106_113
985	TLKYLYLKQ	Q9NR34 MA1C1 587_593_578_579

986	EDQVYIEKY	Q6ZS30 NBEL1 1671_1672_1683_1689
987	VFLKEKKWM	P11532 DMD 1069_1073_1061_1064
988	RAVPGPPAR	O75326 SEM7A 8_9_18_24
989	GTMCPHILR	P60228 EIF3E 228_228_248_255
990	ETIGTGGLT	Q14680 MELK 15_21_32_33
991	PRARGAGAL	Q5VWX1 KHDR2 245_250_231_233
992	RAGAPSAPR	Q92529 SHC3 91_93_112_117; Q9BVL4 SELO 53_54_69_75
993	GHRIGPSGI	Q9NQV7 PRDM9 233_234_247_253; Q9NQW5 PRDM7 233_234_247_253
994	GRGPARLPA	Q9Y5W3 KLF2 165_166_180_186
995	RPGGRGALL	P42768 WASP 9_15_26_27
996	VGAATRAPR	Q9C029 TRIM7 65_72_50_50
997	GRLALAAAR	Q86U86 PB1 340_342_360_365
998	PAPGKGGYR	O60870 KIN17 337_341_348_351
999	RAAAGPRPL	P52701 MSH6 33_36_56_60; Q96B86 RGMA 423_427_432_435
1000	PRRGPGASL	P08913 ADA2A 333_339_331_332
1001	PAGRIRGAL	Q5T215 TPC3L 120_123_136_140
1002	VVVAESVIP	Q9C0E4 GRIP2 537_538_545_551
1003	IAKKGWGGP	Q9NTX5 ECHD1 299_303_290_293
1004	GRKEAAAAL	Q9NPH2 INO1 92_96_76_79
1005	HVPRAGAVL	Q86WA6 BPHL 25_30_3_5
1006	RPPGLRGPA	Q8IZT6 ASPM 19_21_23_28; Q9HAT1 LMA1L 449_452_437_441
1007	RAGHAKPLA	Q05877 HHCM 259_263_253_256
1008	GHKAVVVTL	Q86UQ4 ABCAD 3853_3858_3842_3844
1009	GVGKSHLAR	Q9NXH8 TOR4A 197_202_207_209
1010	PAGASRRIP	Q9GZK7 O11A1 230_236_210_211
1011	RSAGPRPLA	P52701 MSH6 62_64_56_61
1012	PRSRLGGPS	P56975 NRG3 498_504_496_497
1013	SPSGIIRPG	Q6ZRZ4 CI047 126_131_111_113
1014	IPGPSRGHL	Q8IZC6 CORA1 1115_1119_1104_1107
1015	RPAPGRGIL	Q8NBB2 CO037 117_121_100_103
1016	PRGARGPIL	A4D2B0 MBLC1 62_64_76_81
1017	RPRVSPSAA	Q8NEZ4 KMT2C 2277_2278_2289_2295
1018	PGGRLRDVA	Q5UCC4 EMC10 116_117_96_102
1019	PARGALSRL	Q9BYN8 RT26 23_26_4_8
1020	AVRGAQLAR	O14654 IRS4 1174_1179_1196_1198; Q9NZM1 MYOF 160_163_176_180
1021	RAAGVLAER	Q9BYN8 RT26 68_69_87_93
1022	LDRSGGGKR	Q9UKL4 CXD2 116_118_135_140
1023	SRFAGAPSR	Q8WZ74 CTTB2 497_499_504_509
1024	RPRGPTPPA	Q3KQU3 MA7D1 78_79_94_100; Q9NS67 GPR27 259_260_248_254
1025	RGVHPVTAL	Q9BRL7 SC22C 205_208_183_187
1026	PARRGPALL	P49755 TMEDA 8_13_17_19
1027	RPGPGAERL	Q5JSZ5 PRC2B 1738_1741_1756_1760
1028	PGGTRRPVL	Q2NKJ3 CTC1 397_397_414_421
1029	PARGTPRSL	Q8WXE0 CSKI2 849_856_829_829
1030	PARGSGYHL	Q8N531 FBXL6 54_55_33_39
1031	PQGSRSGLR	P15151 PVR 129_134_112_114
1032	RVSGLSSPR	Q8WXI7 MUC16 115_115_123_130

1033	PRTARASTV	P09848 LPH 1345_1351_1329_1330
1034	RPPPPARAP	Q8TF74 WIPF2 310_316_295_296
1035	GVGLRLTSR	Q9NS37 ZHANG 286_292_282_283
1036	IHHNGGITL	Q8N5G2 MACOI 231_237_246_247
1037	FRGQGRAAV	Q96S44 PRPK 48_50_53_58
1038	RLDRGPPGP	Q2QGD7 ZXDC 139_143_118_121
1039	LEEYATGAL	P31645 SC6A4 492_498_505_506
1040	VHSVSNRPA	Q9NYF8 BCLF1 576_579_559_563
1041	KAFASRVST	Q9C0I3 CCSE1 706_712_715_716
1042	IRAVPGLNK	Q9H1P6 CT085 118_119_104_110
1043	PRARAEVVA	Q9NS84 CHST7 211_217_232_233
1044	PSIRRGGIL	Q53ET0 CRTC2 194_196_200_205
1045	RSADHAISL	Q9Y520 PRC2C 791_793_795_800
1046	RPGGRVSEL	Q9BX10 GTPB2 14_17_4_8
1047	RPGPPRPPP	O00268 TAF4 104_108_127_130; Q15427 SF3B4 405_406_387_393; Q8N6N2 TTC9B 43_45_19_24; Q9BVN2 RUSC1 414_416_398_403
1048	RAAGFPVPR	Q5SNV9 CA167 1348_1353_1341_1343
1049	RAGFPGPIR	O60494 CUBN 2081_2084_2059_2063
1050	RSMAPPASR	Q5T1J5 CHCH9 6_7_12_18; Q9Y6H1 CHCH2 6_7_12_18
1051	RAFQGPGLK	P21860 ERBB3 1293_1299_1310_1311
1052	RAARFALGL	Q9BZJ7 GPR62 89_93_108_111
1053	RIAKAYAAN	Q9UGP8 SEC63 144_151_160_160
1054	VGPSRLVIH	Q9UDY4 DNJB4 149_154_160_162
1055	PARHGLQSL	P48634 PRC2A 36_37_41_47; Q5JSZ5 PRC2B 60_61_42_48; Q9Y520 PRC2C 55_55_38_45
1056	RADGLHSLL	Q9Y2L9 LRCH1 403_408_385_387
1057	ARARDPLAL	Q96JQ0 PCD16 1417_1418_1437_1443
1058	RALLSPRGL	Q5SZK8 FREM2 53_58_77_79
1059	IVASRLRPA	Q9P2K9 PTHD2 732_733_747_753
1060	LPGSRRLLAL	P22303 ACES 192_196_208_211
1061	RALLSRPGL	P30038 AL4A1 10_16_21_22
1062	NAEARPGRI	P24043 LAMA2 571_575_549_552
1063	PGRRQGLSL	Q96BT3 CENPT 150_153_168_172
1064	VGSRAIRQP	Q5SW79 CE170 999_1003_1015_1018
1065	GRVGRVQVL	Q02779 M3K10 66_69_42_46
1066	PRSSLRAPT	A4D2P6 GRD2I 493_499_487_488; Q9Y3L3 3BP1 606_607_612_618
1067	SPRSGLIVR	P41250 SYG 335_341_343_344
1068	GRPSSLLVR	Q8WZ71 TM158 91_93_84_89
1069	VGRLRLASI	Q70CQ1 UBP49 7_13_17_18
1070	SPRG EAQLK	Q96T58 MINT 1857_1863_1852_1853
1071	GVGLIRTNR	Q13488 VPP3 379_381_361_366
1072	RSARLLNGV	Q9NQ31 AKIP1 20_24_10_13
1073	PRAEGRSTL	Q15018 F175B 281_282_290_296
1074	PSASRRSLI	Q2NKX8 ERC6L 1080_1081_1094_1100
1075	SPGTRRLSI	P46020 KPB1 1025_1028_1015_1019
1076	GRPCLLKSL	P51648 AL3A2 403_403_423_430
1077	PARFAGVLR	P04275 VWF 3_10_27_27

1078	KGVRTLEAL	A3KN83 SBNO1 658_660_638_643
1079	GRFPSLVGR	Q9BSK4 FEM1A 556_561_550_552
1080	MVCLILLIA	P23470 PTPRG 735_735_750_757
1081	GARLQKLGF	P62380 TBPL1 80_82_88_93
1082	PGSTFRAVR	Q8WXH0 SYNE2 6819_6822_6802_6806
1083	RSFSGPLKV	Q96JE7 SC16B 325_331_338_339
1084	PRAPIRGLL	Q9H0L4 CSTFT 310_314_327_330
1085	SPAHPRESL	Q96MZ0 GD1L1 38_41_43_47
1086	RSLAHPISL	A8MYZ6 FOXO6 372_373_375_381
1087	PLHISSNRA	Q7Z4T9 MAAT1 43_44_30_36
1088	IRGAIIPVR	P15880 RS2 151_156_164_166
1089	RGPLRALVL	Q5K4L6 S27A3 250_253_263_267
1090	RGLPGNLLR	Q9UK85 DKKL1 79_82_62_66
1091	VGMLVGHKR	P31629 ZEP2 1605_1609_1600_1603
1092	RPSQPRGIS	P13631 RARG 369_373_387_390
1093	KVLTDPVII	Q8HWS3 RFX6 324_328_309_312
1094	EKVPTVVLL	P25189 MYP0 148_152_168_171
1095	RPGDATIRL	Q8WXD9 CSKI1 180_185_205_207
1096	IRPTGVRL	Q5VU92 DC121 341_343_351_356; Q5VW00 DC122 341_343_351_356
1097	RPLTGVRSL	Q5VU92 DC121 342_344_351_356; Q5VW00 DC122 342_344_351_356
1098	PRSVTGRLL	Q13309 SKP2 166_168_151_156
1099	PRATTARLL	Q9P107 GMIP 953_956_940_944
1100	RRVSAALLL	Q5T230 UTF1 96_100_83_86
1101	GRKVTVEVI	Q14534 ERG1 146_151_125_127
1102	VKRGЛИDSL	P53992 SC24C 1052_1053_1033_1039
1103	LNAEKNSSL	P30291 WEE1 584_587_590_594
1104	DRRGLTTAL	Q9Y566 SHAN1 277_282_264_266
1105	RPFGRSLLG	P60008 HILS1 200_203_206_210
1106	GVRNCSLVR	Q96EG3 ZN837 471_471_485_492
1107	VKSKSDAIR	Q9BQ39 DDX50 523_527_529_532
1108	PSREPGYKA	Q9Y2W1 TR150 683_684_700_706
1109	RKGAYPLSI	P00450 CERU 462_462_468_475
1110	PHRGLAELL	P35858 ALS 450_452_432_437
1111	KVTAESFLL	P04843 RPN1 48_52_68_71
1112	GSSLHFIFT	Q9H1C4 UN93B 488_492_469_472
1113	RLFGVKTMG	Q99551 MTERF 56_61_81_83
1114	PRLPRGAEL	Q9HA90 EFCC1 159_165_139_140
1115	RPGSPRLLL	Q96T83 SL9A7 8_11_20_24
1116	PLRRGILAI	O94979 SC31A 252_254_261_266
1117	VHNRGKADL	Q3KQV3 ZN792 303_308_295_297
1118	HNIEGKLSL	Q9Y263 PLAP 717_722_726_728
1119	PGRNAQRVL	Q5VYK3 ECM29 542_545_534_538
1120	VLNNEPIV	O15394 NCAM2 555_561_544_545
1121	VRARAPLEV	O75369 FLNB 1435_1438_1453_1457
1122	LPRRGEIGL	Q05707 COEA1 1472_1473_1490_1496
1123	QPRGPKSEL	Q96F81 DISP1 1167_1167_1180_1187
1124	PAVRRTQAI	Q9H6A9 PCX3 601_602_582_588

1125	RARGNLVIL	O95786 DDX58 732_735_710_714
1126	PSRERSPAI	Q14814 MEF2D 445_452_436_436
1127	RGPSDLRVL	O75074 LRP3 275_280_293_295
1128	PSRKDILAL	Q6P087 RUSD3 207_213_189_190
1129	QVPVHHPSL	Q2VWA4 SKOR2 880_881_857_863
1130	PNLTSVRAR	Q76LX8 ATS13 578_583_566_568
1131	LGITQRRGL	Q9UPA5 BSN 2981_2986_3003_3005
1132	GAPRDKEEL	P24001 IL32 213_216_218_222
1133	RPKPSSETL	Q15366 PCBP2 183_188_168_170
1134	AIRDSPRSL	Q9BX26 SYCP2 1092_1095_1101_1105
1135	GKLRQTEAL	O00231 PSD11 273_275_282_287
1136	PSSRFSSL	Q13796 SHRM2 184_187_171_175
1137	RPRGPPIIL	Q13308 PTK7 292_293_307_313
1138	RSFPIGSQK	Q2KHM9 K0753 391_392_394_400
1139	VHPPNRTSI	Q7Z5N4 SDK1 577_580_572_576
1140	RAHSPINIL	O95785 WIZ 789_791_805_810
1141	PRLGHIQSL	O15083 ERC2 25_29_49_52
1142	RSNGSVFVR	Q2M1Z3 RHG31 312_313_324_330; Q7L2E3 DHX30 1064_1064_1082_1089
1143	RFCGKTIQA	P48745 NOV 290_293_307_311
1144	PVSPRKVEL	Q9HCH0 NCK5L 761_765_770_773
1145	LRRGVQIAI	Q9GZX7 AICDA 126_128_133_138
1146	RPPAFRALV	O14746 TERT 63_65_46_51
1147	LRPRTAVTL	Q8NHB1 OR2V1 261_264_247_251; Q96R30 OR2V2 261_264_247_251
1148	DPLDVIDKL	Q15648 MED1 1323_1326_1306_1310
1149	RRSSPLLT	Q9UQL6 HDAC5 276_282_288_289
1150	PLISSLSRR	Q9BWV1 BOC 362_366_371_374
1151	IRSLGLTIR	Q9P202 WHRN 304_304_288_295
1152	SRIGLLTIR	Q14566 MCM6 129_135_123_124
1153	RSNSSLLPR	O94759 TRPM2 35_40_20_22
1154	PRLSRTSTL	P55198 AF17 589_593_597_600
1155	PRSSQRMG	P13385 TDGF1 61_66_70_72; P51864 TDGF3 61_66_70_72
1156	PFRNLAKSV	Q96A23 CPNE4 507_510_519_523
1157	RALFGLAQR	Q00653 NFKB2 442_443_450_456
1158	KPRASTIFL	Q8N7R7 CCYL1 94_94_85_92; Q8ND76 CCNY 72_72_63_70
1159	VTEAQDKSR	Q92543 SNX19 738_743_722_724
1160	RVADLFGEK	Q6PEZ8 PONL1 148_152_165_168
1161	RALNKAHLI	Q8NDW8 TT21A 580_585_575_577
1162	VAEFIMKKA	P20807 CAN3 235_238_251_255
1163	VVHVRNLLS	Q9ULW3 ABT1 43_44_61_67
1164	STRHLQPSSL	Q9Y566 SHAN1 1979_1984_2001_2003
1165	PRAQLHIGF	P22314 UBA1 347_348_327_333
1166	KVFHALVLL	Q9NZJ4 SACS 3319_3324_3300_3302
1167	PGEPSRREI	O75781 PALM 280_282_268_273
1168	RSFTLSSSR	Q86WR7 PRSR2 42_46_37_40
1169	GRFAEKAYV	Q0ZGT2 NEXN 104_107_91_95
1170	LKRGVINQL	Q8TCX1 DC2L1 228_229_231_237
1171	RPADRQEGL	Q13488 VPP3 666_672_677_678

1172	GQPRRDLSL	O14529 CUX2 125_131_111_112
1173	LTRHSTSQL	Q9BTW9 TBCD 993_994_999_1005
1174	RARAITLEL	Q96JP2 MY15B 1405_1409_1389_1392
1175	VNKEAKQRA	Q9Y6X9 MORC2 372_373_353_359
1176	VEQTLKGRL	Q9NYQ6 CELR1 2933_2933_2943_2950
1177	KRLTVENAL	Q9UHB7 AFF4 996_1000_1019_1022
1178	RSQLNGCR	Q9C0A0 CNTP4 933_938_957_959
1179	KVCNMIIII	Q96NI6 LRFN5 553_556_529_533
1180	RGDGTVLLK	P43146 DCC 141_142_154_160
1181	LEAEQAYLL	Q5T0N1 TTC18 1084_1090_1103_1104
1182	RTANVDKVF	P11234 RALB 177_178_163_169
1183	RPWPGRPAL	Q96NR7 WWAS2 107_112_103_105
1184	AKHLREDAL	Q8TER5 ARH40 55_58_41_45
1185	ERAAHPLLF	Q8NHJ6 LIRB4 158_165_153_153
1186	PRRPGVQMI	Q8WWQ0 PHIP 309_310_319_325
1187	PRRPTEAEV	Q14767 LTBP2 95_102_79_79
1188	KQRPESTPL	Q96JA1 LRIG1 1082_1084_1070_1075
1189	RAPGRWSLL	Q8J025 APCD1 487_491_494_497
1190	PVRTRGELE	Q9BV47 DUS26 25_30_47_49
1191	PSEERVRAL	P31350 RIR2 284_290_307_308; Q7LG56 RIR2B 246_252_269_270
1192	RRPTVEVSI	Q96RR4 KKCC2 142_147_151_153
1193	RTMPAVINR	Q96NB2 SFXN2 111_117_134_135
1194	RRDSVIAEI	Q5VYV7 SLX4I 186_187_195_201
1195	RGDVRIETL	P62191 PRS4 322_325_333_337
1196	KRVETLEAL	Q5SW79 CE170 1481_1484_1499_1503; Q96L14 C170L 190_193_208_212
1197	VEESLKRVV	Q96MN5 TEAN2 39_40_31_37; Q9NYL9 TMOD3 186_192_167_168
1198	APRRSFLVL	Q8N2U9 PQLC1 124_130_150_151
1199	TRFPSTPRV	Q12815 TROAP 355_357_361_366
1200	LDLSWESVL	Q13029 PRDM2 824_827_844_848
1201	RSFQPGGLTR	O43548 TGM5 48_54_73_74
1202	VKRAVFDNL	Q9UHY1 NRBP 130_131_115_121
1203	GRNSFEVVR	O95395 GCNT3 248_251_269_273
1204	PSTSRFRRTL	Q6PIJ6 FBX38 797_801_817_820
1205	GRINPYMSK	P18621 RL17 134_141_121_121
1206	QNRFAAFVL	O75602 SPAG6 95_98_103_107
1207	PAREHPFVL	P13984 T2FB 72_73_79_85
1208	RPAAPERRI	Q8TAI1 CR056 74_79_62_64
1209	PRDLTHQSL	P05181 CP2E1 262_266_254_257
1210	SRQSSLLYL	O95402 MED26 491_497_489_490
1211	HVTVRDNLI	P17252 KPCA 174_179_182_184
1212	PNVKNLNRL	P11182 ODB2 357_361_374_377
1213	PIRRGQLDI	Q9H981 ARP8 185_191_207_208
1214	VPRRVLQSL	P30281 CCND3 39_41_26_31; Q9NQH7 XPP3 153_156_135_139
1215	RIPRLTAQL	O95466 FMNL 790_794_810_813
1216	PRRPTAEEL	Q9BZL6 KPCD2 231_234_218_222; Q9C0D0 PHAR1 483_484_469_475
1217	PRNQLRSI	Q9BYK8 HELZ2 2257_2258_2275_2281
1218	IEVRPQCLL	P28906 CD34 253_253_237_244

1219	RGRDLLEVL	Q9NRC6 SPTN5 1829_1830_1844_1850
1220	RGIDIVENR	P00966 ASSY 279_280_266_272
1221	RPADKIQML	Q07912 ACK1 957_964_943_943
1222	LNRHSMVAF	Q9UK13 ZN221 325_331_337_338
1223	QTRDRLAKS	Q92878 RAD50 589_595_583_584
1224	PSFKRQLSL	P49757 NUMB 302_303_290_296; Q9Y6R0 NUMBL 331_332_319_325
1225	KVYPVTLRT	Q8TE85 GRHL3 278_279_259_265
1226	KEIGEAFKR	Q96RW7 HMCN1 4939_4944_4955_4957
1227	TTQDSLPRY	Q92831 KAT2B 303_305_296_301
1228	LCIPFQMTK	Q8TC59 PIWL2 318_322_307_310
1229	DKLRTSFIT	Q96DT5 DYH11 2366_2372_2375_2376
1230	LMNWGNKGY	P43235 CATK 309_310_301_307
1231	PRAVERLLE	P24298 ALAT1 422_426_442_445
1232	RRESLPVII	Q6V0I7 FAT4 3819_3819_3830_3837
1233	HPEDFAVRD	E9PQ53 NDUCR 96_100_83_86; O95298 NDUC2 96_100_83_86
1234	NLRDISRVL	P06737 PYGL 254_257_276_280
1235	RGLPLFVQR	P36896 ACV1B 205_205_194_201
1236	PNENRKESL	Q15022 SUZ12 419_423_403_406
1237	AQSRRQVEL	Q15149 PLEC 2242_2249_2254_2254
1238	RTDSNIIRL	Q9NXC5 MIO 279_280_289_295
1239	RPKEDVTML	P49959 MRE11 202_206_198_201
1240	SRFPEALLR	Q13200 PSMD2 260_264_247_250
1241	SRMKPFLVL	Q8N468 MFSD4 371_375_390_393
1242	RSKSQNILF	Q6NT16 S18B1 435_441_424_425
1243	SVRELNFTK	Q9Y5Q3 MAFB 220_225_231_233
1244	PTSRYKTEL	P26651 TTP 91_92_102_108; Q07352 TISB 100_101_113_119
1245	RAFYAVQKL	Q16891 IMMT 632_633_635_641
1246	PRQARMLLL	Q96G79 S35A4 14_18_22_25
1247	SREMGDYLK	Q9H1J5 WNT8A 186_186_202_209
1248	VPGQRRLEF	Q9Y6A2 CP46A 463_467_457_460
1249	GRNKLLQSW	Q92621 NU205 1268_1274_1285_1286
1250	ISMPWFHGK	P42679 MATK 127_128_120_126; P43405 KSYK 148_149_166_172
1251	KMDRARNV1	P60002 ELOF1 38_44_47_48
1252	VPRNSYVLR	Q14571 ITPR2 381_387_389_390; Q14573 ITPR3 381_387_389_390; Q14643 ITPR1 382_388_375_376
1253	HSEVQTLKY	Q8IX90 SKA3 48_55_39_39
1254	CQRSLEQKI	P49454 CENPF 373_375_384_389
1255	RALVELSYR	Q9P107 GMIP 606_612_586_587
1256	RLSSYIRVI	Q7Z7L7 ZER1 257_261_239_242
1257	RPFECSQKI	Q9BWM5 ZN416 492_497_513_515
1258	GVIYEEIER	Q8TF62 AT8B4 655_657_633_638
1259	REVRPLPQI	Q9BW62 KATL1 118_123_111_113
1260	GRVLFIKDY	Q13829 BACD2 195_202_214_214; Q9H3F6 BACD3 198_205_217_217
1261	PQRLLNTL	Q9HAV4 XPO5 172_175_193_197
1262	RRLQLIIAQ	Q9ULE0 WWC3 291_292_284_290
1263	IRNRITEVL	Q8N4P6 LRC71 480_486_473_474
1264	DQIQMKQNI	Q008S8 ECT2L 742_744_753_758

1265	RSTWIEVAR	Q12967 GNDS 452_454_466_471
1266	RAFEQQLSR	Q6UUUV7 CRTC3 31_36_42_44
1267	RMANRMTIK	Q86WS4 CL040 531_533_514_519
1268	RTSRTDILY	Q5SWH9 TMM69 25_32_18_18
1269	MPRFYGSRL	Q9NQY0 BIN3 183_189_165_166
1270	LRDEARQEL	P55268 LAMB2 1734_1739_1753_1755
1271	LRRDVINVF	Q96S94 CCNL2 151_152_142_148; Q9UK58 CCNL1 156_157_147_153
1272	PRAERLDYL	Q9H0A0 NAT10 687_688_703_709
1273	TNHWSIYSK	O60518 RNPBP6 134_137_147_151
1274	RPEKQMSFL	Q9BQ70 TCF25 337_339_349_354
1275	RVDGRMLQY	Q86W92 LIPB1 744_750_735_736
1276	EPIRNRIQI	P26374 RAE2 211_217_221_222
1277	RDNEIILNR	Q96JB1 DYH8 1130_1134_1149_1152
1278	IFDIEHIIF	Q9Y3Q0 NALD2 702_706_679_682
1279	PVRRSFEFL	O75122 CLAP2 227_228_230_236
1280	PRVKENLWL	Q8N2Q7 NLGN1 609_613_621_624
1281	LRDWTQTLK	P28068 DMB 204_208_215_218
1282	RKFVEVLR	P61266 STX1B 124_129_105_107; Q16623 STX1A 125_130_106_108
1283	RSNQQIFLR	P62993 GRB2 136_137_143_149
1284	VHFTQRDFL	P26572 MGAT1 339_343_356_359
1285	IKNNRQLNY	Q12792 TWF1 207_208_194_200
1286	RALQEIYNR	Q92974 ARHG2 452_453_442_448
1287	ENDFINIH	Q7Z3S7 CA2D4 323_329_337_338
1288	TWAQKLYEK	Q9Y4I1 MYO5A 522_528_539_540
1289	RQIPYTMKM	Q00325 MPCP 226_232_206_207
1290	FPEIFRSER	A8MTB9 CEA18 209_213_215_218
1291	PRENRSFYL	Q9BQ70 TCF25 360_361_339_345
1292	IRRQELQEL	Q9NZM3 ITSN2 465_470_452_454
1293	FQFTQNQKF	O75899 GABR2 760_767_740_740
1294	PDRIDIFRR	Q9NW86 ARGL1 79_85_67_68
1295	LRREQEQQL	Q07283 TRHY 339_343_348_351; Q9NRI5 DISC1 486_488_492_497
1296	LQQKWQQNK	O75449 KTNA1 48_54_37_38
1297	RPRPGPGASL	Q9NSE4 SYIM 6_12_20_21
1298	ARGRGAVLL	Q9NPC1 LT4R2 82_85_100_104
1299	RRGSIGVGI	Q9H1V8 S6A17 125_131_110_111; Q9H2J7 S6A15 126_132_111_112
1300	PRPRGGGLL	Q96A09 FA46B 292_294_275_280
1301	PRRGPGDGL	Q03468 ERCC6 66_70_51_54
1302	LRRLLGAAL	Q9UK80 UBP21 157_161_136_139
1303	VVGAGDRLR	Q9NYU1 UGGG2 1394_1395_1404_1410
1304	PRPRGGSDL	Q6NW40 RGMB 400_401_416_422
1305	IRPHGGCVK	Q9NVS2 RT18A 93_98_118_120
1306	RPRWGAAAS	Q86W56 PARG 13_18_24_26
1307	PRPRAWGAA	O75077 ADA23 42_42_61_68
1308	TSKTAFKSI	Q8WZ42 TITIN 33726_33729_33737_33741
1309	RRSNVPASV	Q8WWQ0 PHIP 1739_1742_1731_1735
1310	PRDSRSCGL	A2VEC9 SSPO 2538_2540_2513_2518
1311	VNYAALVEL	P0C5W0 PNM6B 73_75_64_69; P0CW24 PNM6A 73_75_64_69; P0CW26 PNM6C

1312	IFDGTIITL	73_75_64_69; P0CZ20 PNM6D 73_75_64_69  Q8TEY7 UBP33 478_484_498_499
1313	NALDPNPPR	Q7Z5R6 AB1IP 57_59_35_40
1314	PRRGLALVL	Q5JS13 RGP51 380_386_374_375
1315	EVIAPYLVV	Q8TDJ6 DMXL2 989_991_1011_1016
1316	GVSFLQMLN	A6NDU8 CE051 186_189_172_176
1317	RRPIEPSGV	Q96PU8 QKI 319_320_304_310
1318	IRRGETLGI	Q13363 CTBP1 162_163_173_179
1319	RRGQFAVAL	Q9NYQ6 CELR1 2325_2326_2334_2340
1320	RPNCSRSSL	Q9UK17 KCND3 602_605_589_593
1321	RAAIDSSRF	Q8NF91 SYNE1 1109_1114_1131_1133
1322	PLIKPDIAR	Q16594 TAF9 105_109_94_97; Q9HBM6 TAF9B 105_109_94_97
1323	RGDWARLPG	Q8IXQ3 CI040 133_136_115_119
1324	ILELLQDAL	P34059 GALNS 268_274_292_293
1325	IADIAKRLK	O43150 ASAP2 649_650_659_665
1326	TKSLLHFGK	Q17RW2 COOA1 19_25_11_12
1327	LAGRTFLKK	Q9UHV5 RPGFL 15_19_7_10
1328	KRPLLAVKL	Q96J01 THOC3 318_323_342_344
1329	RSGRSIESF	Q5K651 SAMD9 1562_1568_1571_1572
1330	RIGPEKVLK	O00214 LEG8 129_134_109_111
1331	RRGDFIPAL	P0C874 S31D3 418_422_408_411; Q6ZUB0 S31D4 418_422_408_411
1332	VHVVISKRL	Q8WUY3 PRUN2 21_25_15_18
1333	QVRGCLLKH	Q8IX18 DHX40 133_135_152_157
1334	LALEKSRLK	A6NI56 CC154 255_259_267_270
1335	TVSFKVLKH	Q14690 RRP5 1206_1207_1186_1192
1336	QFLKLPGKK	Q9Y5W8 SNX13 626_627_634_640
1337	RLPPLRALK	Q7KZN9 COX15 3_4_7_13
1338	PRWLRTAGL	Q6PK18 OGFD3 32_33_43_49
1339	PRSLWGRSL	P81408 F189B 613_619_624_625
1340	WRSKVTLGK	P78549 NTH 182_186_171_174
1341	VLEARVRLK	P58215 LOXL3 322_323_304_310
1342	RPWQGPRST	Q8NCQ2 CNAS1 25_28_5_9
1343	VERWGNPRA	P00973 OAS1 145_146_125_131
1344	KRFEIACYG	Q9Y3A5 SBDS 25_32_24_24
1345	MLIKVEQAR	Q5JYT7 K1755 263_263_248_255
1346	RRDDNSRG1	P78344 IF4G2 57_62_82_84
1347	KFLNSLIKK	Q9H0R6 GATA 35_38_29_33
1348	KMDKKVAKF	P35240 MERL 76_81_98_100
1349	LPKDRLIKI	Q8IY45 AMN1 32_33_37_43
1350	LPKDRLIIK	Q7RTS9 DYM 614_619_606_608
1351	LWKLKSTPK	Q68CR7 LRC66 167_172_163_165
1352	KKIIQCLKK	P36776 LONM 559_559_572_579
1353	PRRDSQLYA	P82930 RT34 8_9_29_35
1354	KTIKMLMLK	Q9NYM4 GPR83 289_296_286_286
1355	ITKIMFPKK	O75521 ECI2 150_155_158_160
1356	KSMGYFLKH	P50851 LRBA 731_732_743_749
1357	FNSLQQQLKH	P12931 SRC 223_229_203_204

1358	IVYKNTHIK	Q8IXQ6 PARP9 217_218_226_232
1359	VFTTLHIHR	Q96F25 ALG14 119_124_102_104
1360	RRIDVINVF	Q96S94 CCNL2 139_141_143_148; Q9UK58 CCNL1 144_146_148_153
1361	RIYLVEKPK	Q9NZ32 ARP10 342_343_325_331
1362	LQELYQIEI	Q8TD57 DYH3 2478_2479_2454_2460
1363	KILPYQLKR	Q6ZMI0 PPR21 355_362_354_354
1364	RSWQGELQR	Q12789 TF3C1 186_187_189_195
1365	GRYDRYIFS	Q9Y4J8 DTNA 165_168_149_153
1366	ELREKQLKH	Q96EA4 SPDLY 147_149_127_132
1367	ITDALLAAF	P80365 DHI2 325_332_307_307
1368	PGKRGLSKI	Q9C0C6 CIPC 167_173_162_163
1369	RGPGHKHG	Q9UPP2 IQEC3 126_129_139_143
1370	KKGSLHANK	P00450 CERU 561_568_547_547
1371	RPHIGASHL	Q9H0E3 SP130 250_251_224_230
1372	GGPLRARLR	O95704 APBB3 445_448_430_434
1373	RGLSAPRKI	Q9NXK8 FXL12 238_243_231_233
1374	ARIAKIGIR	Q8NH61 O51F2 153_159_164_165
1375	RALAKIGRI	P62263 RS14 117_120_125_129
1376	IRREVSAPA	Q7Z6Z7 HUWE1 2980_2984_3004_3007
1377	RRAVAKVSI	O14492 SH2B2 226_230_248_251
1378	RHAPLVVGR	O75063 XYLK 143_144_162_168
1379	PLRGKGLIR	Q5VUG0 SMBT2 176_181_158_160
1380	RGKEAILAR	O14777 NDC80 403_408_418_420
1381	ARPLPVHPK	P22681 CBL 678_683_661_663
1382	PAVGLRHIR	Q6BDS2 URFB1 1256_1261_1253_1255
1383	PVRAKIHSL	P10176 COX8A 20_21_23_29
1384	PLKVEPLAR	Q8NDT2 RB15B 211_216_201_203
1385	RPRASPRAL	Q5T5Y3 CAMP1 547_547_560_567; Q9P232 CNTN3 455_455_433_440
1386	PKRHGGFIL	O00267 SPT5H 67_68_71_77
1387	RGIPVAQKR	P41218 MNDA 127_128_130_136
1388	PHKFVGKTL	P08397 HEM3 119_120_128_134
1389	LPRMGRALL	Q66K80 RUAS1 181_183_160_165
1390	RKAALQALR	Q9BY43 CHM4A 68_69_61_67
1391	GVRRRAVTLR	Q8N594 MPND 91_92_72_78
1392	GRLGLRVTR	Q96EG1 ARSG 94_99_102_104
1393	RQHPGHLAL	Q96JI7 SPTCS 290_296_282_283
1394	GVKLSTRLR	Q8WXR4 MYO3B 169_172_183_187
1395	RLKGTSVIR	O14901 KLF11 196_197_171_177
1396	RALFGIRAK	P26373 RL13 186_187_191_197
1397	KGRIGVVRF	Q68CZ2 TENS3 111_117_137_138
1398	SPRLLARVK	Q96Q42 ALS2 492_496_500_503
1399	RARGKIILL	Q9UKN7 MYO15 1935_1938_1928_1932
1400	LNLRSVAIR	Q6IE36 OVOS2 93_95_99_104; Q6IE37 OVOS1 89_91_95_100
1401	RAKDLVARL	Q9H6W3 NO66 501_504_484_488
1402	RGLSDVLKR	Q14669 TRIPC 1008_1009_996_1002
1403	LKAGKYPR	Q9UP95 S12A4 718_721_707_711
1404	ITHNSKHL	Q9P2H0 K1377 833_835_839_844

1405	PARTPTHRL	Q12815 TROAP 184_185_176_182
1406	RPTHLQGKL	P16860 ANFB 72_74_49_54
1407	GTKFRSTVR	O43310 CTIF 445_450_461_463
1408	RSLAVTLHR	Q8TB36 GDAP1 265_265_250_257
1409	KPLLRRSAL	Q15785 TOM34 86_91_76_78
1410	PKRDRLSLA	P20648 ATP4A 850_855_832_834
1411	RSLDPKLAR	Q7Z695 ADCK2 602_608_614_615
1412	RSSPLAIRR	Q9UQ35 SRRM2 2029_2030_2046_2052
1413	MPAAKRLLR	P35269 T2FA 417_423_401_402
1414	ARAEKKKL	P35749 MYH11 1274_1278_1254_1257
1415	LRITTANIR	A8MZ59 LEUTX 85_86_65_71
1416	RAKRSSLQ	Q5EBL2 ZN628 118_119_102_108
1417	RLDAVPHPR	Q5T4S7 UBR4 947_948_925_931
1418	LKFKTGLQK	P42226 STAT6 128_133_151_153
1419	VHSLRNALR	Q9BZZ2 SN 1392_1395_1406_1410
1420	KLFSRSSLK	Q5TEA3 CT194 679_682_692_696
1421	RRGLPVVRI	Q9NUL7 DDX28 21_23_33_38
1422	RRALALPLR	Q8TDB4 HUMMR 4_6_11_16
1423	GKLRRRAHTK	Q8NF91 SYNE1 6167_6171_6156_6159
1424	RLAYAHPKL	P47914 RL29 95_98_100_104
1425	PRKEKSLVL	Q92985 IRF7 426_427_444_450
1426	RSKAIETLR	Q9P2P6 STAR9 4278_4279_4258_4264
1427	KIYGKLPVR	Q96RL7 VP13A 765_771_759_760
1428	ARTAFTP RR	Q15270 NKX11 262_267_259_261; Q9UD57 NKX12 166_171_151_153
1429	PSFSKRIKL	Q9H165 BC11A 626_627_632_638
1430	RKFEAVTAR	Q86Y38 XYLT1 598_603_590_592
1431	HPLPRLKAF	O95672 ECEL1 698_704_714_715
1432	LKRPHITTL	Q8TB72 PUM2 1049_1050_1025_1031
1433	NLKDFAIMK	Q3ZCV2 CA177 129_133_111_114
1434	RRLRGLVLV	P41146 OPRX 240_244_264_267; Q96RJ3 TR13C 106_110_93_96
1435	ARKDNVILR	Q01082 SPTB2 501_507_517_518
1436	PRKISRDTL	Q9P246 STIM2 622_628_619_620
1437	RSTLPLSRR	Q9P2B7 K1430 481_484_475_479
1438	RTLRSIALR	Q8WXX0 DYH7 3653_3658_3632_3634
1439	RRMTVVGLR	Q96CS3 FAF2 241_247_225_226
1440	ISKKNRTLK	Q8N9V3 WSDU1 438_441_460_464
1441	RGRGVYLIR	Q6EMB2 TTLL5 186_193_174_174
1442	KRMSGMILR	Q53GS7 GLE1 568_574_583_584
1443	MPKKGLRYT	Q8IVL0 NAV3 1414_1414_1422_1429
1444	GLRLLPLRR	B2RXH2 KDM4E 370_375_364_366
1445	RPTDKPRLL	Q96L73 NSD1 2405_2410_2391_2393
1446	IKPDRKIIL	Q9UPP2 IQEC3 798_803_786_788
1447	PYNARRAHL	Q9NZD8 SPG21 257_258_244_250
1448	RVNIPMQLK	Q9Y2K7 KDM2A 319_320_304_310
1449	RSVFDVHEL	Q15761 NPY5R 364_367_346_350
1450	RLPRGKDLF	Q9UKA1 FBXL5 577_583_601_602
1451	RVVLFILNK	Q8N8A8 F169B 9_16_2_2

1452	LRMKQIASR	Q2KJY2 KI26B 799_802_793_797
1453	AILDKNFKR	Q9Y5Q9 TF3C3 676_682_664_665
1454	RRLVAPLQR	Q6ZR37 PKHG7 114_115_122_128
1455	LRSITHLNR	Q9NRD8 DUOX2 1484_1489_1476_1478; Q9NRD9 DUOX1 1487_1492_1479_1481
1456	RPIKILTLR	P78346 RPP30 69_75_90_91
1457	RRGELLVLR	Q12770 SCAP 749_753_770_773
1458	LRRKGLEQI	A2RTY3 CQ066 374_377_357_361
1459	RADSIELRR	Q5T447 HECD3 90_91_94_100
1460	RGFEKKVPR	Q8N128 F177A 37_40_51_55
1461	GRYQKLVPR	Q8TCI5 PIFO 93_97_115_118
1462	PRSRSIYKL	Q9UKN7 MYO15 191_197_171_172
1463	RQHEIVLKP	Q8WUM0 NU133 780_787_760_760
1464	LLYGRKMKN	O15027 SC16A 1447_1452_1460_1462
1465	SRFGKFILR	A7E2Y1 MYH7B 245_251_239_240; Q96H55 MYO19 194_200_188_189; Q9Y2K3 MYH15 255_261_249_250
1466	RRLQQLGPR	Q86Y97 SV422 266_270_281_284
1467	FRSKALEFQ	Q9ULE0 WWC3 672_673_657_663
1468	PRDLREKVL	Q7RTW8 OTOAN 201_206_182_184
1469	RLP RRPLAF	O14545 TRAD1 180_186_188_189
1470	RKILLQAQR	Q86V42 F124A 264_264_274_281
1471	PEKEQRKTL	Q8N715 CC185 325_325_315_322
1472	TSYKEKAFR	O43309 ZSC12 568_572_560_563
1473	RKV N KIKFP	Q9Y5T5 UBP16 708_712_714_717
1474	ARFLRRQAL	P43007 SATT 32_33_38_44
1475	RRQEIFGLL	Q9H307 PININ 169_172_145_149
1476	RKFGEITQR	O94915 FRYL 2719_2725_2737_2738
1477	ISKKYIMEK	Q6ZMT9 DTHD1 145_149_167_170
1478	RVNNL RVRL	P55072 TERA 86_87_90_96
1479	VRRDIQKQV	Q15392 DHC24 52_53_72_78
1480	RRLETLLIK	O95816 BAG2 172_178_170_171
1481	RKSEIIQLR	Q6TFL3 CC171 281_282_301_307
1482	RRLHYVATK	Q96RQ9 OXLA 345_350_352_354
1483	RKV V NIPVR	Q8WV28 BLNK 372_373_393_399
1484	RTTSHLLYR	Q03164 KMT2A 1655_1661_1663_1664
1485	ISNRFLLQR	Q96LI9 CX058 230_233_240_244
1486	LVFLNTRRK	Q13936 CAC1C 533_538_514_516
1487	PSTRKFPYR	Q3SYA9 P12L1 197_203_223_224
1488	RKKELELQL	O95153 RIMB1 348_350_367_372; Q9Y2K3 MYH15 1093_1099_1115_1116
1489	KRKDFGIMY	Q6ZMG9 CERS6 201_208_181_181
1490	KRRMEKQAL	Q5VT06 CE350 1879_1881_1892_1897
1491	GLYYLLHWV	O14756 H17B6 10_17_9_9; O75452 RDH16 10_17_7_7
1492	RESFMKPNR	Q8IZF0 NALCN 659_664_638_640
1493	RSVPKYIFR	P13196 HEM1 370_371_351_357
1494	RLDSRWPKI	Q9NX09 DDIT4 180_184_186_189
1495	KYNHPQQEK	Q13769 THOC5 672_677_654_656
1496	QPHFMKTYK	O43520 AT8B1 76_80_98_101
1497	RELAHYNKR	O60814 H2B1K 93_94_81_87; P06899 H2B1J 93_94_81_87; P23527 H2B1O

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1498	RSWEKVVQR	Q00839 HNRPU 336_337_346_352
1499	FEVRHLYTK	Q8N5B7 CERS5 210_217_190_190
1500	KRKDFLIMY	A2CJ06 DYN 307_310_286_290
1501	RRQQLLFRT	Q6XYB7 LBX2 99_100_102_108
1502	ELRRFVFQK	P02768 ALBU 550_556_547_548
1503	QTALVELIK	Q7Z7L8 CK096 269_272_250_254
1504	RHPAGPPAR	P49327 FAS 1527_1534_1507_1507
1505	PTAHAFVSR	O95786 DDX58 731_737_717_718
1506	GRARGSKYV	Q70CQ3 UBP30 62_67_54_56
1507	RRKGVLGPI	P09529 INHBB 90_94_105_108
1508	GRPNITALR	Q9BXH1 BBC3 84_89_63_65
1509	RPRGPRTAP	A6NCS6 CB072 132_134_117_122
1510	VRGAAREPR	O95498 VNN2 481_482_459_465
1511	GRLKDGRLV	O60566 BUB1B 321_325_330_333
1512	HRPRGLIAV	Q8NF50 DOCK8 499_503_505_508
1513	RRVKSPGLL	Q8NFM4 ADCY4 158_159_148_154
1514	LYSSLSHLL	O95833 CLIC3 36_41_47_49
1515	GVPFTLRRS	P32970 CD70 11_13_25_30
1516	RRRPLVAGL	Q8NES3 LFNG 284_286_262_267
1517	RIRSRGLAL	Q4VC05 BCL7A 19_23_41_44
1518	KRVMATSLR	Q96S94 CCNL2 357_361_375_378
1519	RRLEGPKGR	Q8IYB8 SUV3 697_699_705_710
1520	SRLSQARRT	Q14674 ESPL1 1630_1630_1645_1652
1521	HKHGRSLEI	Q14692 BMS1 39_46_57_57
1522	KRNPKAFAF	Q99623 PHB2 171_177_190_191
1523	RAKDFSLSR	Q5T4S7 UBR4 4522_4524_4515_4520
1524	RQQCVKVKV	Q9NRX2 RM17 12_18_5_6
1525	GRVFRRMVA	Q8N1V2 WDR16 524_525_532_538
1526	RKFDGTVIR	Q6UX52 CQ099 248_251_236_240
1527	GGFRYRSTR	Q5JXC2 MIIP 29_33_16_19; Q5T5P2 SKT 650_654_672_675; Q6IN84 MRM1
1528	RRSVAELLR	66_69_86_90  Q9NRF2 SH2B1 560_563_577_581; Q9UQQ2 SH2B3 397_400_414_418
1529	RRGELRLSL	Q6ZU69 F205A 888_889_896_902
1530	LTRKKVLEI	Q6UB28 MAP12 43_45_18_23
1531	RRQIFSSPL	Q6ICL3 TNG2 11_11_13_20
1532	RVSKNAYRL	Q9NR99 MXRA5 1987_1990_2008_2012
1533	PDRRRTLSI	Q8NB66 UN13C 1763_1766_1770_1774
1534	RRFANKVLL	Q15032 R3HD1 915_919_902_905
1535	PQFSRKTVR	Q86VI3 IQGA3 1111_1118_1093_1093
1536	VQRRLDIAR	Q32M45 ANO4 677_679_665_670
1537	RRKELGYPL	O95754 SEM4F 688_692_667_670
1538	RQRELFLGI	Q96Q15 SMG1 2404_2405_2388_2394
1539	RRVEGVFRL	

1540	ARFRNLSLR	Q4ZH4 FNDC1 1305_1309_1296_1299
1541	RRFGRSLDE	Q9Y2K1 ZBTB1 210_215_231_233
1542	RRKGQVWTI	Q9H1H9 KI13A 734_737_741_745
1543	RRMLEAIVR	C9J6K1 CS081 184_189_162_164
1544	RREPfalVR	Q9C0C7 AMRA1 167_172_185_187
1545	RRVWSLSKL	A6NP81 GG8L2 275_277_282_287
1546	RHKVMSQNF	Q13283 G3BP1 78_79_64_70
1547	RYLKSLIKK	Q9HBM6 TAF9B 119_120_129_135
1548	RRFQDAVLR	Q01813 K6PP 374_380_382_383
1549	RRQDFLAVR	Q8WVR3 CG043 422_423_397_403
1550	RNLSFVRNR	P27540 ARNT 290_291_282_288
1551	RRFQGQLLF	Q9UPC5 GPR34 344_348_340_343
1552	RRYVAQFIL	Q9BSE2 TMM79 281_286_291_293
1553	RRFPDLNLR	P43246 MSH2 382_388_372_373
1554	RNYEKVVQR	O43581 SYT7 231_232_211_217
1555	RQFNIHNNR	Q96KR1 ZFR 1024_1025_1042_1048
1556	PRFLERRDL	Q9H2G4 TSYL2 274_275_251_257
1557	RRMAEEFLR	P24928 RPB1 1052_1058_1045_1046
1558	RRFPLEQLR	Q9H078 CLPB 335_341_315_316
1559	RNLRLQWSR	O15091 MRRP3 436_440_454_457
1560	RYRFDFVSR	Q86TL0 ATG4D 100_103_115_119
1561	LTGPGRLAR	Q9HAH7 FBRS 384_388_370_373
1562	KRFSAKESL	Q86VD7 S2542 66_72_88_89
1563	KRLSVLRAR	Q96BT1 CC049 177_181_170_173
1564	RRFLAATLR	Q96G04 FA86A 18_23_25_27
1565	PYDDEQLAY	Q1RMZ1 BMT2 379_381_365_370
1566	RLSDVLKKR	Q14669 TRIPC 995_1001_1003_1004; Q92797 SYMPK 545_551_567_568
1567	RIRLSFAKK	Q5W5X9 TTC23 187_193_200_201
1568	DLKFPLVYK	O15228 GNPAT 47_50_57_61
1569	DDEFEQLAY	Q15911 ZFHX3 2269_2275_2265_2266
1570	IRFDLGRKK	P27635 RL10 31_32_34_40; Q96L21 RL10L 31_32_34_40
1571	RKFEAEKAR	Q9NRL3 STRN4 104_105_79_85
1572	RHIDLKLNK	Q9HAF1 EAF6 176_177_179_185
1573	RAKKRNFIL	Q00839 HNRPU 558_559_573_579
1574	KSRLKFITR	Q53QZ3 RHG15 252_255_257_261
1575	RLSIQEVR	Q96RG2 PASK 905_909_911_914
1576	RKLEKEAKR	Q9P219 DAPLE 820_821_837_843
1577	ARIIRKYKL	Q8IZT6 ASPM 1296_1299_1278_1282
1578	KRRQQKIVL	P04626 ERBB2 676_682_666_667
1579	LKRDKLFEK	Q9UBD0 HSFX1 136_139_129_133
1580	KRLDKLFKE	Q70Z53 F10C1 129_131_137_142
1581	RKLEEIMKR	Q14244 MAP7 599_600_603_609; Q3KQU3 MA7D1 709_710_712_718
1582	RRKLIYEKI	P18124 RL7 46_52_29_30
1583	RKEEQLFKR	O15131 IMA6 36_37_41_47; P52294 IMA5 36_37_41_47
1584	AQSLGESPGP	Q7L5A3 F214B 194_195_170_177
1585	PSAGGGSREM	Q86UU5 GGN 8_15_35_36
1586	PAYAHPAPGS	Q8N144 CXD3 263_270_277_278

1587	APDGSSSVNH	Q969G9 NKD1 188_192_169_173
1588	PSEHSSSGSP	Q9Y3M8 STA13 335_342_314_315
1589	VATVCGQTTN	Q9NZV1 CRIM1 434_441_443_444
1590	AHGVPPPPIL	Q9UPS6 SET1B 719_720_735_742
1591	TSNTMAGTGY	Q9UKK3 PARP4 932_937_918_921
1592	PDGHSGVTEL	Q13237 KGP2 14_19_30_33
1593	GSPCPQPLAF	Q9P0T4 ZN581 22_22_6_14
1594	AHAGTFNISL	O76090 BEST1 385_388_363_368
1595	QHAEPGNAQP	P21964 COMT 65_72_44_45
1596	VKGQAQEDMK	Q16566 KCC4 387_392_367_370
1597	TEIEVAGAEY	P19174 PLCG1 1124_1124_1113_1121
1598	GAPSGGPALF	Q96T25 ZIC5 268_270_254_260
1599	PARLGPGAPA	O15105 SMAD7 146_147_135_142
1600	VGSVAPIAAK	Q8IW19 MGAP 2982_2985_2976_2981
1601	VPNSAVSGAI	Q9UI32 GLSL 425_427_415_421
1602	PSLKAAGGPK	O15417 TNC18 1758_1760_1770_1776
1603	PGGDVSGLKP	Q7Z7J7 LHPL4 227_233_209_211
1604	VAGDIPTGVV	Q9H2B4 S26A1 319_326_300_301
1605	IPGVTALGSL	Q9NS82 AAA1 100_101_84_91
1606	AVFHGGSSAV	O95528 GTR10 278_279_263_270
1607	PPPARGSAAL	Q12852 M3K12 635_640_615_618
1608	APPGSIGRAI	A8MPP1 D11L8 827_830_845_850
1609	GRAPATPLAS	Q8WY21 SORC1 63_70_50_51
1610	VGVGNASKLP	Q86YQ8 CPNE8 469_472_458_463; Q96FN4 CPNE2 470_474_460_464
1611	PACGAAKILV	P20132 SDHL 268_273_263_266
1612	DTQAASAGQV	Q9ULI4 KI26A 1251_1258_1274_1275
1613	IHSAGGASHL	Q8NGE9 OR9Q2 228_233_242_245
1614	PPRPAASAAL	Q13219 PAPP1 37_42_14_17
1615	PGRGALPLGL	Q9NZR4 VSX1 64_65_75_82
1616	SPAGCTIGLH	Q7Z408 CSMD2 1285_1286_1306_1313
1617	VAPGNVKTIG	Q9UBX8 B4GT6 34_37_56_61
1618	GSPGPMIKGL	Q01955 CO4A3 1146_1151_1126_1129
1619	VPASLGQCAL	P11912 CD79A 38_42_29_33
1620	GLSLSLSPGK	Q05925 HME1 26_34_9_9
1621	GGLGPVDVPR	Q8TAD4 ZNT5 17_25_28_28
1622	PLPSALAAAR	Q7RTX0 TS1R3 244_246_227_233
1623	PATIATPAII	Q13085 ACACA 392_399_387_388
1624	LVGPVALLAD	Q14CM0 FRPD4 440_443_458_463
1625	LDPGGRPGGL	Q3YBR2 TBRG1 175_181_188_190
1626	PGAALSRLAL	Q9UK80 UBP21 121_121_136_144
1627	VTLGGVLGQK	O60266 ADCY3 439_440_421_428
1628	VWGPPPPGAP	Q6P050 FXL22 191_191_193_201
1629	ATLSLSGCPK	Q9NYF0 DACT1 199_204_206_209
1630	PLKPGAPLAL	Q6UXT8 F150A 3_9_16_18
1631	PAGPRPASLL	O75190 DNJB6 254_256_263_269
1632	PKASSGSFSL	Q9C0D2 K1731 2357_2358_2373_2380
1633	PASQAALQVP	Q5JTZ9 SYAM 736_743_728_729

1634	PARTGAALAR	Q9P2P6 STAR9 884_888_908_912
1635	HPLAGPTALL	Q99497 PARK7 126_128_107_113
1636	GAPRTPSPLV	P33241 LSP1 156_157_173_180
1637	SSRPATPLTA	Q6NV74 K121L 333_339_318_320
1638	GAIYNPPSGK	Q9BZZ5 API5 501_502_480_487
1639	FAILGGTIVI	Q6P995 F171B 355_355_358_366
1640	PRPIASPAVP	O75914 PAK3 208_210_225_231
1641	ARPPPIGALL	Q07820 MCL1 77_84_96_97
1642	SPKPSKSSCS	Q8N5F7 NKAP 27_33_46_48
1643	PRSPLPGSSL	Q8NCE2 MTMRE 537_539_543_549
1644	PAAPEVGTIR	A7MCY6 TBKB1 555_557_535_541
1645	VALLSARPLA	P46095 GPR6 227_232_220_223
1646	PATRRTAPAA	Q96S07 PRR25 342_349_327_328
1647	LPSPCGVLIL	P29376 LTK 462_465_443_448
1648	KCGLGTLGTY	O75027 ABCB7 288_290_298_304
1649	LTPSASLPRA	P06576 ATPB 20_27_34_35
1650	GLLQCGPLVL	Q6PIS1 S23A3 173_176_192_197
1651	VPAQSRPCVG	Q5BLP8 CD048 41_49_29_29
1652	SPPTVCTPVI	Q9BWT3 PAPOG 599_605_585_587
1653	VSLLTGTAPR	Q70EL4 UBP43 850_857_842_843
1654	VPAPSRDSTS	Q99684 GFI1 32_37_39_42
1655	AAPSIFDPAK	P29536 LMOD1 313_319_306_308
1656	VTSTGLRPSV	Q7Z7B0 FLIP1 800_804_786_790
1657	LSANSNALDL	Q9NR97 TLR8 512_518_535_537
1658	PKEKATVASS	Q9H799 CE042 104_106_109_115
1659	GIHGNLLAL	O75976 CBPD 992_996_1003_1007
1660	PPAPRGVTLI	P38646 GRP75 509_515_504_506; Q9UL49 TCFL5 199_204_218_221
1661	PSAPPDVARL	O94763 RMP 15_18_28_33
1662	PRAPALTVP	Q96JP9 CDHR1 789_794_810_813
1663	IHSVRGAGLL	Q5VZ19 TDR10 189_194_196_199
1664	APAAISFLSF	Q8N201 INT1 1971_1977_1988_1990
1665	LHLKGGBTNAI	O00442 RTCA 119_127_133_133
1666	NVTAATTIAY	O60443 DFNA5 200_202_213_219
1667	PLRGVNVSAL	P38606 VATA 105_106_120_127
1668	CFSPVASTSK	Q96MR6 WDR65 345_348_354_359
1669	YGTAAAGLVQF	O95460 MATN4 443_447_426_430
1670	LPRQGSPVAC	Q4AC94 C2CD3 2141_2147_2152_2154
1671	CIGAVRSPPE	Q96PE2 ARHGH 1552_1556_1572_1576
1672	PSSSSPLNLK	Q9P219 DAPLE 1570_1572_1583_1589
1673	LVDPVATALM	Q86Z02 HIPK1 323_326_299_304; Q9H2X6 HIPK2 332_335_308_313
1674	PCVAQTGLEL	P08195 4F2 57_57_43_51
1675	PFAPGKTVTL	Q9H6A0 DEN2D 186_187_198_205
1676	AHNPLGVPI	O95872 GPAN1 235_236_248_255
1677	APKETDCVGI	P51003 PAPOA 30_37_21_22
1678	RPAPVGPLL	Q5TG53 SEAS1 23_29_37_39
1679	SVLLGPHVVL	Q16787 LAMA3 3173_3178_3167_3170
1680	SLDPPPVAEL	P58401 NRX2B 384_391_374_375; Q9P2S2 NRX2A 1430_1437_1420_1421

1681	PPQGARVVTL	O60391 NMD3B 407_411_418_422
1682	PVGLLCIVIL	P55289 CAD12 609_611_621_627
1683	RAQGGGLVLL	Q93038 TNR25 23_27_16_20
1684	GIPHCTQATL	Q9UKK3 PARP4 1088_1088_1090_1098
1685	ICLAYCGIGK	P53804 TTC3 565_565_576_584
1686	GLATPPLSER	Q66GS9 CP135 1118_1125_1103_1104
1687	PRVPGASPFL	Q2M2I3 FA83E 16_23_25_26
1688	PRGTSPVLTL	P62683 GAK1 178_184_191_193; P62684 GAK5 178_184_191_193; P62685 GAK6 178_184_191_193; P63126 GAK4 178_184_191_193; P63128 POK4 178_184_191_193; P63145 GAK11 178_184_191_193; Q7LDI9 GAK2 178_184_191_193
1689	TPTIPHCSMG	Q9Y3D0 MIP18 87_95_100_100
1690	RLPSSGVVTK	Q86VP3 PACS2 787_792_804_807
1691	LDSSVVSQVL	Q9Y4R8 TELO2 207_211_214_218
1692	LSGCTALLNR	P49915 GUAA 243_245_252_258
1693	KPTTVTECLG	Q86SE9 PCGF5 27_35_23_23
1694	LSRPGSTSLM	P15923 TFE2 475_478_454_459
1695	KGGSKYLIAL	Q15080 NCF4 48_55_64_65
1696	RAPGAQPLQI	Q9H2X6 HIPK2 678_678_689_697
1697	HVANLQLSGL	Q8IWT3 CUL9 680_682_696_702
1698	GLELSGCIVY	Q9H3T2 SEM6C 493_496_508_513
1699	GKPCPVQIVL	Q8NHH9 ATLA2 40_40_57_65
1700	PGREAKALVI	Q96KQ7 EHMT2 627_631_634_638
1701	RSPKPDGGQI	Q12934 BFSP1 453_456_432_437
1702	TPRISPATTI	Q8IVW6 ARI3B 373_373_378_386
1703	GSNNLKSPLPK	Q14241 ELOA1 391_396_413_416
1704	GATCELPLQK	Q8IXW5 RPAP2 275_275_286_294
1705	VTLMAGDTRP	P01912 B13 17_20_29_34; P04229 B11 17_20_29_34; P13760 B14 17_20_29_34; P20039 B1B 17_20_29_34; P79483 DRB3 17_20_29_34; Q29974 B1G 17_20_29_34; Q30134 B18 17_20_29_34; Q30154 DRB5 17_20_29_34; Q30167 B1A 17_20_29_34; Q5Y7A7 B1D 17_20_29_34; Q95IE3 B1C 17_20_29_34; Q9GIY3 B1E 17_20_29_34
1706	QALQEAGCLK	Q9Y240 CLC11 158_163_176_179
1707	VQPGVVTTPY	Q9BX46 RBM24 128_133_146_149
1708	AAFREPGLSI	Q3MIP1 IPIL2 85_86_92_99
1709	GALLNPLLH	Q8IY67 RAVR1 363_364_345_352
1710	YAPGAPTKPY	O15054 KDM6B 76_82_73_75
1711	GEFGAVMILK	P30530 UFO 545_551_561_563
1712	PSPTPIRSVL	Q6PGN9 PSRC1 238_239_244_251
1713	DRPKGGIVLI	Q15751 HERC1 3594_3596_3616_3622
1714	GPPPPEKLH	Q3T8J9 GON4L 447_452_464_467
1715	LTTSVSLPPR	Q6DN03 H2B2C 159_163_140_144
1716	KTVGLSLPTR	Q99678 GPR20 85_86_102_109
1717	QVHVPGPHAM	P43378 PTN9 289_289_278_286
1718	PSQQKLAGML	Q9Y2A7 NCKP1 8_14_26_28
1719	VGHALHLEVV	Q9GZR2 REXO4 324_329_307_310
1720	PAPANPLQRI	P10398 ARAF 200_204_206_210
1721	EGVYVPKCIA	Q8IWA0 WDR75 166_170_158_162

1722	KANTHLLLGI	Q6DKK2 TTC19 229_237_213_213
1723	GQMIISMTTV	Q8TDN1 KCNG4 431_433_413_419
1724	VHLSPKDTAL	Q6ZN18 AEBP2 475_478_481_486
1725	FNLDGMEAGK	P36896 ACV1B 57_63_78_80
1726	NPIEVTLAKP	Q9NQ94 A1CF 275_275_295_303
1727	PARPVDEPAM	Q9Y2X0 MED16 427_428_412_419
1728	VVYVIDSCKG	Q08211 DHX9 725_733_705_705
1729	AVANRNLVIL	Q9NUG4 CCM2L 307_311_302_306
1730	GATETKTITY	O43491 E41L2 914_915_899_906
1731	HAAELGFRAL	Q9Y2E5 MA2B2 312_317_329_332
1732	GGHLITYKLS	Q53LP3 SWAHC 409_410_422_429
1733	TVGDISLLIY	Q6ZN68 D19P2 322_327_299_302
1734	VHQVRAAISL	Q8N5I2 ARRD1 108_115_127_128
1735	LNVPSLLPLK	Q6TDP4 KLH17 247_251_232_236
1736	QELGLGCVLY	P07741 APT 77_85_60_60
1737	VSYDLLRAAS	Q13422 IKZF1 452_453_435_442
1738	RMAPPLLGLQ	Q9GZV8 PRD14 72_77_82_85
1739	TSVPIVKPQK	Q9UQR0 SCML2 242_248_268_270
1740	TTATFPSPHY	Q9BX63 FANCJ 483_488_505_508
1741	PGRPITQSEL	Q96S82 UBL7 291_292_265_272
1742	LTASQRLTPL	P32970 CD70 171_172_154_161
1743	AEMPPSEVKL	Q9BWG6 SCNM1 170_171_146_153
1744	HYVEKAAAVI	Q96PY5 FMNL2 886_894_867_867
1745	PVTFAEQIAK	O00442 RTCA 316_318_327_333
1746	PETIPPPPRT	Q96EB6 SIR1 207_213_198_200
1747	GRQPNPLIL	Q7Z6Z7 HUWE1 2558_2558_2569_2577
1748	DLLQSSQIAM	O43739 CYH3 92_97_69_72
1749	LNPGERPLVL	P32927 IL3RB 794_800_814_816
1750	GRKASYTLVL	A6NM03 O2AG2 233_235_216_222
1751	GHDGEDSTYEY	P23327 SRCH 184_189_206_209
1752	VLSHNQILSV	Q7L5Y6 DET1 215_220_231_234
1753	HINLRSAVSI	Q8N5C6 SRBD1 676_677_651_658
1754	NSVISQVTYY	Q15031 SYLM 733_741_731_731
1755	PNLTNADQQN	Q05932 FOLC 440_443_450_455
1756	GRLIEDCIPV	P52788 SPSY 267_268_252_259
1757	QDKVKTLTGK	P0CG47 UBB 31_33_5_11; P0CG48 UBC 31_33_5_11; P62979 RS27A 31_33_5_11; P62987 RL40 31_33_5_11
1758	FQDVQTPSAK	Q9UKF5 ADA29 688_688_708_716
1759	YPTEKVNCGLG	Q14847 LASP1 13_21_9_9
1760	PARDREQAAL	Q9Y5I4 PCDC2 235_237_216_222
1761	GRNIEVVQVI	Q7L5N1 CSN6 78_83_66_69
1762	SLYASPSMLY	Q75460 ERN1 292_299_284_285
1763	GQLCEVLQNK	Q8IXQ6 PARP9 90_90_80_88
1764	LKVFDGPPPY	P40429 RL13A 102_107_109_112; Q6NVV1 R13P3 16_21_23_26
1765	VETHDGISNY	Q12888 TP53B 961_965_941_945
1766	EKMATNSEKV	P30876 RPB2 198_203_190_193
1767	PSQELPAELR	O15488 GLYG2 429_436_438_439

1768	VLDPELVLNQ	Q9Y5E2 PCDB7 199_201_192_198
1769	PEISRPKEAL	Q9P2T0 THEG 100_104_80_84
1770	EASSDSILRY	O15534 PER1 619_622_632_637
1771	YAAPRAFTSY	Q6UWL6 KIRR2 693_695_667_673
1772	SPSKEDRKTV	Q8WVM7 STAG1 756_761_766_769
1773	PTMENSRLS	P54687 BCAT1 353_357_363_367
1774	LDTSEAFEQL	Q9NSY0 NRBP2 110_115_91_94
1775	AHMVKEQAQQL	Q13190 STX5 291_297_311_313
1776	LAIDYENSNK	Q9Y5X3 SNX5 338_339_317_324
1777	DEEAQNLLKL	Q12923 PTN13 2066_2073_2093_2094
1778	KVFYVCLTLS	Q86T24 KAISO 529_531_503_509
1779	TSQEPEIPIY	A2RUR9 C144A 248_253_263_266; Q3MJ40 C144B 248_253_263_266; Q8IYA2 C144C 198_203_213_216
1780	DKDGVLKEY	Q9C0D0 PHAR1 164_166_157_163
1781	DKDGCMVEQY	P42892 ECE1 621_624_644_649
1782	GKQLDEKLE	P13535 MYH8 1060_1060_1076_1084
1783	FIEETNAVCY	Q9NVD3 SETD4 386_393_383_384
1784	ALPRMQPTEF	P28062 PSB8 43_46_48_53
1785	GNYYLLGIFY	O60494 CUBN 1100_1103_1119_1124
1786	QHFNFLQTV	Q14185 DOCK1 346_348_358_364
1787	EVRYQATDSW	Q9HC10 OTOF 115_122_127_128
1788	PQTVDWPQQY	Q9BXB7 SPT16 369_374_379_382
1789	FQEENVVEAW	P02549 SPTA1 1930_1934_1939_1943
1790	ETDKFKTDFY	Q7L5N1 CSN6 255_255_272_280
1791	GAAALDIYK	P35523 CLCN1 528_532_514_518
1792	AGKAGGKPGL	Q9Y6F6 MRVI1 396_402_407_409
1793	IGFGGAGVGK	P06576 ATPB 202_203_205_212
1794	PQRGAGVAGL	Q96RQ9 OXLA 59_61_66_72
1795	PRSASTAGAI	F5GYI3 UBA1L 194_197_217_222
1796	ARCGGALLAL	Q9NSC2 SALL1 214_219_233_236
1797	GALAGFSAAW	Q9Y5N1 HRH3 14_17_28_33
1798	GPRTAAGLLL	Q14257 RCN2 4_9_11_14
1799	GEPCGLRGAL	Q9NX09 DDIT4 128_128_138_146
1800	APGRQSEAGL	P83110 HTRA3 199_203_181_185
1801	SPGLQRSAGL	Q6W4X9 MUC6 26_31_16_19
1802	GRCGPIITGL	P35556 FBN2 508_510_482_488
1803	PADLSPRSPG	O43312 MTSS1 717_723_708_710
1804	RPTPGVASVL	Q86UU0 BCL9L 1315_1317_1299_1305
1805	GWAAPIRAVG	Q9BXW7 CECR5 300_306_310_312
1806	APGSDKKPAK	Q03111 ENL 311_313_325_331
1807	PGRSASLLSL	Q9Y4H4 GPSM3 43_44_53_60
1808	SASGPSRLII	Q562E7 WDR81 1327_1334_1352_1353
1809	LAAGICNLLL	Q8NBJ9 SIDT2 702_704_722_728
1810	GRAPMSLASL	Q8NF50 DOCK8 1560_1563_1553_1558
1811	VPAGFIGQTL	J3KSC0 CR064 96_99_115_120
1812	GGCPRNFAAI	Q86UN2 R4RL1 23_27_44_48
1813	VHLPPASATL	Q9P2A4 ABI3 192_195_177_182

1814	RPHSASAPAL	P40238 TPOR 199_205_195_197
1815	PGGRCLLLADL	Q14004 CDK13 656_658_643_649
1816	GEPNGRTAL	P25963 IKBA 194_194_213_221
1817	GVPSLPFTSL	P31785 IL2RG 20_21_4_11
1818	IAGAPLFTDI	Q5W0V3 F16B1 519_522_529_534
1819	GRGAGLEPVY	Q8NI99 ANGL6 354_357_330_335
1820	NAGLFGESKV	Q96ND0 F210A 22_27_42_45
1821	PSRSPSSSTL	Q9H6K5 YS027 376_383_365_366
1822	PSRGSSFIAL	O94927 HAUS5 478_479_489_496
1823	GSRLSQMGVT	Q96PV0 SYGP1 894_895_905_912
1824	VVTGNDVPVH	Q92834 RPGR 49_52_34_39
1825	GAPPARILEL	Q9BY89 K1671 41_49_28_28
1826	HYPGGPPSLL	Q969W9 PMEEPA 238_241_251_256
1827	AHGVPRSSDL	Q9NVH2 INT7 361_364_339_344
1828	AVFWGAGLVK	P06331 HV209 43_45_27_33
1829	TVAGGAWTYK	P61513 RL37A 63_71_44_44
1830	PRMNGGTVIL	Q9BWV1 BOC 62_65_50_55
1831	LGFPGTPLKK	Q86XN7 PRSR1 183_184_159_166
1832	NSVRQGVNVS	O14926 FSCN2 267_267_272_280
1833	PRLEAGPQSL	Q53EP0 FND3B 962_965_969_974
1834	GGRCDATILY	Q96JI7 SPTCS 108_108_123_131
1835	LAVSTLVVRN	Q9UIR0 BTNL2 186_189_205_210
1836	SIDVHPVGSY	Q9H7U1 CCSE2 537_539_524_530
1837	GLRSMTPISI	Q04726 TLE3 336_340_359_363
1838	PYRSGTGQTI	Q8TBM8 DJB14 274_275_280_287
1839	LAMTSMLMSL	Q9H583 HEAT1 497_499_481_487
1840	PSRPNIIILGL	Q9BTC0 DIDO1 1171_1172_1186_1193
1841	GARNLYIAGF	P51572 BAP31 87_88_101_108
1842	LTMALLVSQI	A6H8M9 CDHR4 324_326_341_347
1843	RAPTVISLSF	Q9C075 K1C23 30_34_43_47
1844	GSPCLKVFEL	Q12788 TBL3 344_344_356_364
1845	GGHLRLLNTL	Q9Y4G8 RPGF2 367_374_387_388
1846	GGRCVYITPM	O75643 U520 1355_1355_1374_1382
1847	FSAIASQLVY	O95235 KI20A 500_508_491_491
1848	PQGAFQGLRQ	P02750 A2GL 234_235_254_261
1849	PTRNTVSQSI	Q9BY44 EIF2A 511_512_520_527
1850	APGHPREVEL	Q9Y6N6 LAMC3 617_618_598_605
1851	PSRSPSTTYL	Q13111 CAF1A 786_787_774_781
1852	KVNILLPLKA	Q5FVE4 ACBG2 152_157_177_180
1853	ESAMKQMDIG	Q6PJP8 DCR1A 577_579_554_560
1854	DKSLGGIEQY	Q5R3I4 TTC38 44_51_37_38
1855	GKDHTAVLNR	Q96EX1 SIM12 63_67_82_86
1856	GRCGQEAREL	Q14005 IL16 651_652_632_639
1857	RLSDINQDSA	Q9Y4F3 MARP1 534_537_556_561
1858	KVNCMSIVLL	Q5THJ4 VP13D 960_964_937_941
1859	GARTVITEEF	Q96I24 FUBP3 69_70_75_82
1860	GDSKLLSQIY	Q5TEA3 CT194 356_359_369_374

1861	KNKAGGILYY	O00370 LORF2 864_870_877_879
1862	RPMEQSICGI	Q63HN8 RNF213 4518_4525_4534_4535
1863	CVTLQQQNSL	P22670 RFX1 794_794_810_818
1864	RSCQAFLVTL	Q13018 PLA2R 404_408_424_428
1865	ISEAEDVTIY	Q8WZ42 TITIN 12347_12350_12331_12336
1866	KEVTICGDLY	O14829 PPE1 165_173_185_185
1867	PEERYPTAAL	Q9NY74 ETAA1 73_77_63_67
1868	CSAQQLLLSY	Q6W2J9 BCOR 1525_1528_1547_1552
1869	CGIRDQTISY	Q92834 RPGR 302_303_292_299
1870	AGSFLFQLLY	Q9NPD5 SO1B3 436_437_418_425
1871	LGIADRFLLY	P61968 LMO4 57_58_30_37
1872	GYTCPFVEKF	O00562 PITM1 119_119_99_107
1873	DTDHQTLQLY	Q06609 RAD51 184_184_197_205
1874	DSKRKQMQEIQ	Q15413 RYR3 1307_1308_1313_1320
1875	YLDPNQLYRD	Q86YE8 ZN573 24_29_32_35
1876	LDAAVPVPGV	O75592 MYCB2 791_793_805_811
1877	PGGLRKGGVL	P04626 ERBB2 134_138_150_154
1878	PARPGGSKKG	Q5TCY1 TTBK1 1278_1280_1289_1295
1879	VGAAPPPPR	Q96B36 AKTS1 14_15_33_40
1880	GVAAVVMVGR	Q7RTX9 MOT14 131_133_145_151
1881	LAGGRPGIR	Q9GZV7 HPLN2 244_247_219_224
1882	GAPLAAKRAL	Q2M296 MTHSD301_306_323_326
1883	AILRVGGVGK	Q8NGS0 OR1N1 222_226_230_234
1884	GKAAQALHAL	P01023 A2MG 1273_1277_1257_1261
1885	GAPFLLGIKA	P21399 ACOC 775_776_787_794
1886	RAVGCAGAIK	Q7Z2Z1 TICRR 1690_1696_1681_1683
1887	APRPGPAGLR	Q8IU68 TMC8 688_693_699_702
1888	PRAPGPRGAL	Q5TCX8 M3KL4 221_227_206_208
1889	VGLLKEAPAV	O43175 SERCA 376_382_372_374
1890	GILKSGVPRA	P26572 MGAT1 418_419_407_414
1891	PGIGRKGLLS	O15018 PDZD2 2737_2741_2725_2729
1892	PRGAAAPLHI	Q9H0E3 SP130 231_236_222_225
1893	GAGCSVLKRL	Q13115 DUS4 27_29_12_18
1894	GRPTAPPRGP	Q7Z7M0 MEGF8 606_607_621_628
1895	GVAPLRGPLK	Q12870 TCF15 190_197_186_187
1896	ASSNAPLPPR	Q6IMN6 CAPR2 748_750_770_776; Q7Z4K8 TRI46 667_671_686_690
1897	RPGKAANPVC	Q9UG01 IF172 1702_1708_1725_1727
1898	LKSPSLGPTL	Q9BZC7 ABCA2 1544_1547_1551_1556
1899	LRSGLALVK	O14511 NRG2 169_174_159_162
1900	DAVDSPVLLS	P31371 FGF9 15_16_27_34
1901	QGFLKPAGIS	Q6ZS27 ZN662 75_76_54_61
1902	RPAPGTGPLR	Q6ZW31 SYDE1 279_283_303_307
1903	ARAAGPRPLL	C9JTQ0 ANR63 223_227_215_219
1904	PIRKPVAGAL	Q99627 CSN8 190_191_165_172
1905	VIGALGRLPQ	Q16880 CGT 319_320_310_317
1906	APIRGREGALL	Q8TF74 WIPF2 61_63_35_41
1907	IISGLGHQS	Q68DN1 CB016 391_398_416_417

1908	GAPGRILLDI	Q9BWT7 CAR10 309_312_315_320
1909	GRPCA KPSVL	Q5T1R4 ZEP3 190_190_199_207
1910	RGVVG VQEAL	Q14674 ESPL1 1976_1980_1988_1992
1911	APGLTGRRSL	Q9C0C7 AMRA1 411_416_392_395
1912	GKVGCKLIP	P28336 NMBR 112_120_122_122
1913	SPVSTKHCAV	Q13216 ERCC8 150_157_160_161
1914	LPSGMKGLLL	Q99467 CD180 313_320_322_323
1915	KVLGPPP HIA	Q6ZVT6 CC067 140_146_134_136
1916	PGKGGFIRAK	Q8NFZ0 FBX18 536_536_546_554
1917	TRSTGLLGVK	P13056 NR2C1 230_236_248_250
1918	GAAAPYLLKK	P12883 MYH7 10_16_33_35
1919	RNTLSGSVSL	Q8NEA9 GMCLL 433_436_441_446; Q96IK5 GMCL1 433_436_441_446
1920	PARKGSFSAL	Q13619 CUL4A 24_25_7_14
1921	LSFVRSVG LG	Q8N6T3 ARFG1 56_62_51_53
1922	STSAHLVPPK	O15037 KHYN 106_112_85_87
1923	GIAEFTVSIT	P42857 NSG1 59_59_66_74
1924	PSRRPGAPSL	Q5QP82 DCA10 35_36_55_62
1925	GAPKRDPLAI	Q6NUN0 ACSM5 235_238_222_227
1926	PAAALRG RLL	Q5RKV6 EXOS6 81_82_90_97
1927	QFLHGVGAP L	Q96BD0 SO4A1 234_241_243_244
1928	KAGVPN RVVV	P08922 ROS1 1749_1754_1728_1731
1929	LTPAARL ALL	Q96MU8 KREM1 16_17_4_11
1930	GKAGQKR GHT	Q68DY1 ZN626 179_181_162_168
1931	PAKPSSRP SL	Q8N3V7 SYNPO 834_839_812_815; Q9P1W9 PIM2 252_253_270_277
1932	PAGARV RVL T	Q8NFA2 NOXO1 259_267_269_269
1933	LRS PRGA AAVL	O60704 TPST2 38_44_33_35
1934	VKNVLAGL AR	Q9H8L6 MMRN2 708_711_694_699
1935	PEADLSLL KG	Q3MJ13 WDR72 965_973_958_958
1936	LPIKANTK AS	Q12955 ANK3 3865_3869_3883_3887
1937	PKSDV LGSKI	Q9NVC6 MED17 605_610_589_592
1938	VMAAEKLIG I	Q86TD4 SRCA 609_612_630_635
1939	NIATGKL LTD	O14862 AIM2 34_40_17_19
1940	RGGTFG QVVK	Q9H2X6 HIPK2 219_220_208_215; Q9H422 HIPK3 217_218_206_213
1941	RGTHVP GLVL	O43184 ADA12 616_620_629_633
1942	PRAAGPD PRL	P30281 CCND3 40_42_15_21
1943	VRALRAPPL G	Q495D7 CL036 74_77_86_91
1944	ARTSGGYV KL	Q53LP3 SWAHC 336_342_357_359
1945	PKPGARNITV	Q96A65 EXOC4 475_475_490_498
1946	QRGVV VIPG K	P51857 AK1D1 265_272_248_249
1947	GPRPSPTR SV	Q8NHJ6 LIRB4 219_219_224_232
1948	LCTPPPLITV	Q4LDE5 SVEP1 2380_2387_2403_2404
1949	LLLVEAA VLL	Q96A05 VATE2 141_148_124_125
1950	AAAELK LLLL	P30679 GNA15 20_22_42_48
1951	RGPSRASL VI	Q8N2C7 UNC80 307_309_312_318
1952	GGIVLLEELL	Q9Y3D6 FIS1 65_65_54_62
1953	SPGADRKT LL	O60346 PHLP1 151_154_173_178
1954	PARSRSAV TL	Q3KQU3 MA7D1 303_303_309_317

1955	LTQVGSIALAR	O00161 SNP23 156_163_147_148
1956	RGLIDGVVKT	P14866 HNRPL 107_114_97_98
1957	LNDRGGSVIK	P51956 NEK3 416_417_390_397
1958	GALDCAIRLK	Q5UE93 PI3R6 131_131_116_124
1959	GRTCDEVIVK	Q9Y2X9 ZN281 374_374_365_373
1960	ARPAPPALL	P09683 SECR 18_25_6_7
1961	GAVYRGALQK	P20591 MX1 562_563_537_544
1962	PRASPPVVKL	Q9BX95 SGPP1 184_185_187_194
1963	PLTRAGLHLS	Q96S90 LYSM1 207_210_188_193
1964	IACVVMAFVI	Q9NRX6 KISHB 61_68_50_51
1965	LSVHRKAAAL	Q13470 TNK1 600_603_576_581
1966	PLAAIPRSKN	Q49A92 CH034 197_200_207_212
1967	PRKPSSSPVVL	Q8NA72 POC5 110_114_104_108
1968	PLIGHVLVGY	O95264 5HT3B 300_304_277_281
1969	LPSSPKRGII	Q8TAP6 CEP76 80_85_59_62
1970	VPTSPGKLLR	C9J798 RAS4B 757_763_772_774; O43374 RASL2 757_763_772_774
1971	ARKSPALVIL	O43314 VIP2 261_267_284_286
1972	VPNGAKRLTI	Q14197 ICT1 61_66_76_79
1973	LPGGKDRLTL	Q6ZUS6 CC149 291_296_280_283
1974	RGIVSAAQLR	O43303 CP110 845_850_861_864
1975	SPSSTRKPVI	P12525 MYCP1 156_158_176_182
1976	KVATLIPSSR	Q8N3V7 SYNP0 403_404_418_425
1977	LLARTLASVK	P53621 COPA 505_507_481_487
1978	GAIKLCNLLK	P17405 ASM 102_102_116_124
1979	GHIVAHIVVE	Q66K89 E4F1 141_143_117_123
1980	GAIFKPIISK	Q92769 HDAC2 263_264_241_248
1981	NTELLLSLAT	P11229 ACM1 53_56_34_39
1982	QVAKFGSIPK	Q01415 GALK2 12_14_29_35
1983	GKKCPFIVAL	O60841 IF2P 732_732_747_755
1984	PPKIEALPRG	Q8WZ42 TITIN 34255_34262_34252_34253
1985	KLSGPLLPPR	A8MU76 YP034 251_257_239_241
1986	PRSSPPVVKL	Q8IWX5 SGPP2 142_143_145_152
1987	KDSLFLSGSK	Q3ZCV2 CA177 367_368_375_382
1988	RIGDGPIILK	O14522 PTPRT 328_328_315_323; Q15262 PTPRK 331_331_318_326
1989	PSRGEVTSLH	Q86X29 LSR 446_449_433_438
1990	GRVKDIKPG	Q9BQ15 SOSB1 27_28_7_14
1991	GTVCNVKLLH	Q92621 NU205 1223_1223_1225_1233
1992	PLRAAAERIS	O94766 B3GA3 36_42_50_52
1993	GTLCKPLVPR	Q9UHH9 IP6K2 27_27_39_47
1994	PAAQASDRLR	Q96JN8 NEUL4 512_516_488_492
1995	RPLIKNACGL	P23769 GATA2 330_334_317_321; P23771 GATA3 298_302_285_289; P43694 GATA4 252_256_239_243; Q92908 GATA6 425_429_412_416
1996	GLINPVKTSR	Q9H098 F107B 44_44_20_28
1997	KPSLSGARRL	Q86UW9 DTX2 249_256_260_261
1998	RITISVAGR	O15031 PLXB2 820_823_838_843
1999	PSRAQATSRL	Q9NQX3 GEPH 267_268_272_279

2000	GVRGVIQATW	Q9H0B3 K1683_936_939_955_960
2001	QTGIKTAKNK	Q5T890 ER6L2_798_798_777_785
2002	KPQFTALVGK	P11277 SPTB1_1343_1350_1336_1337
2003	GALHLLPSQR	O15234 CASC3_57_61_48_52
2004	PRAVIPGLRI	Q12913 PTPRJ_417_425_401_401
2005	LDSLKDSSI	Q8IWI9 MGAP_2765_2767_2743_2749
2006	LPLQSPARVL	Q92935 EXTL1_324_327_336_341
2007	GKAFGVCREK	Q6P280 ZN529_372_379_363_364
2008	RAVLNPLAKL	Q15436 SC23A_67_73_80_82
2009	ARVGTL MANY	Q6ZMG9 CERS6_228_233_250_253
2010	TRACKVASLF	Q7L775 EPMIP_565_566_544_551
2011	PRSSSTHVLL	Q4ADV7 RICK1_443_449_422_424
2012	GVPCCRALLL	Q8IY22 CMIP_24_24_38_46
2013	LSQAAPRDKL	Q9BZH6 WDR11_939_941_953_959
2014	ARVSDVVPEK	Q8NBP5 MFSD9_138_140_157_163
2015	NRIDQAAAKL	Q5T7V8 GORAB_233_238_258_261
2016	LRANSPVNTK	Q9BPX5 ARP5L_54_56_63_69
2017	LNSVLAERVV	O14920 IKKB_265_272_244_245
2018	GKLCPDILLK	Q9HCM1 K1551_1625_1625_1636_1644
2019	GTRCPLVLKL	P20591 MX1_92_92_103_111; P20592 MX2_140_140_151_159
2020	LPRSKIICGL	P51684 CCR6_161_168_173_174
2021	GRSCSLVLEH	Q14318 FKBP8_313_313_293_301
2022	LPINSRKCLG	P49755 TMEDA_36_43_24_25
2023	GAIAEPLRKF	P11678 PERE_617_623_600_602
2024	CGVRIITEVI	Q5K651 SAMD9_979_984_970_973
2025	VSGRCVIIQK	O15085 ARHGB_61_63_46_52; Q9NZN5 ARHGC_86_88_71_77
2026	PSFALEQLKA	Q92888 ARHG1_534_534_520_528
2027	ASVMMIKNVL	P07954 FUMH_426_428_411_417
2028	GAPRLTYKTV	P21281 VATB2_27_28_43_50
2029	PAFRADKVGF	Q8IY18 SMC5_101_103_106_112
2030	SVTHIKTKGH	Q7L0J3 SV2A_393_399_385_387
2031	RIPTRPPNSA	Q9H8Y8 GORS2_201_206_180_183
2032	HVQRLTGISV	O00159 MYO1C_980_983_964_969
2033	VQKGSDRAHI	P30520 PURA2_114_117_130_135
2034	PQRRVAAISL	Q9H6R0 DHX33_108_109_128_135
2035	IPGRKLVNTI	Q92900 RENT1_953_955_928_934
2036	KPYVRPGTPP	Q9NWS9 ZN446_330_332_304_310
2037	GKPCDLPLRL	O00425 IF2B3_173_173_192_200
2038	ARELANLVIL	Q9NR4 RHG35_609_613_599_603
2039	GISRKEPLVI	Q5T890 ER6L2_1421_1428_1446_1447
2040	RAWLGAVLLL	O43464 HTRA2_104_107_115_120
2041	PEGSTRRAQI	Q96RT1 LAP2_1100_1101_1092_1099
2042	KGTQDPRVTI	Q58EX2 SDK2_509_512_522_527
2043	ISEWIAGIVK	Q05BQ5 MBTD1_172_174_193_199
2044	RPPGLPLPRL	P48634 PRC2A_1446_1453_1464_1465
2045	PSRKTAQDTL	O95267 GRP1_686_687_696_703
2046	STGLDRILKN	Q8N8K9 K1958_501_502_484_491

2047	KYPLPTLSAK	Q969R2 OSBP2 788_792_779_783
2048	PYLPKTITGK	P0C7M7 ACSM4 546_547_559_566; Q08AH1 ACSM1 543_544_556_563
2049	LPRPLPLLKA	Q8NHY0 B4GN2 181_188_165_166
2050	GAACSKFFYK	P52739 ZN131 42_42_53_61
2051	MEIKEASSKT	P41218 MMDA 278_285_305_306
2052	PGPDSPRREL	Q8IVL5 P3H2 38_39_27_34
2053	GVICTRFISK	P41002 CCNF 356_356_361_369
2054	LPRSVPLTLK	Q86UK0 ABCAC 699_706_694_695
2055	PAREPFAHSL	A2A288 ZC12D 332_333_323_330
2056	RPSGLRQTL	Q8N135 LGI4 296_302_307_309
2057	SRPVGNPFPY	P0CG12 CTF8A 349_353_360_364
2058	ALYSVYRGAK	Q969V5 MUL1 24_30_41_43
2059	PSDQKKIISL	Q96HH9 GRAM3 52_53_60_67
2060	ISNPKESILK	P06400 RB 401_402_410_417
2061	SCSDCTTIHY	P04637 P53 241_242_227_234
2062	PRLLKALGDF	Q8N6S4 AN13C 213_218_222_225
2063	PARGYQDPKV	O43157 PLXB1 1169_1172_1159_1164
2064	NIIAGVFQRI	Q08AI6 S38AB 71_75_81_85
2065	RGVGDVYIPR	Q01130 SRSF2 55_56_40_47; Q9BRL6 SRSF8 55_56_40_47
2066	LPPYSSQLVK	Q15751 HERC1 4817_4825_4797_4797
2067	SKAAERDKDL	Q8IXQ4 GPAM1 286_290_303_307
2068	DGHLKDPLIK	Q5TGY1 TMCO4 127_129_104_110
2069	RLLFFNGVLG	Q643R3 LPCT4 98_102_91_95
2070	RTMLAAQSMK	Q9BY43 CHM4A 104_106_108_114
2071	GVVCEYIVKK	P41091 IF2G 218_218_234_242; Q2VIR3 IF2GL 218_218_234_242
2072	KGNPDPLPLKR	P23759 PAX7 195_197_209_215
2073	RNPTQTHATL	Q12882 DPYD 43_45_22_28
2074	LRYTINGCAK	Q9P275 UBP36 213_217_226_230
2075	NLARTAEDHL	O00443 P3C2A 516_523_533_534
2076	IGYKTLCSV	Q96I36 COX14 10_14_29_33
2077	LPIEGRKDRG	Q16586 SGCA 187_193_180_182
2078	LSLRNPVTNK	P09661 RU2A 118_119_121_128
2079	KEAAQILLQK	Q9C0D5 TANC1 1306_1310_1287_1291
2080	LKLPPPLPPRL	A6NE52 K1875 1575_1578_1597_1602; Q53EP0 FND3B 974_975_957_964
2081	ANAEYHQLAK	Q8WUM4 PDC6I 254_260_263_265
2082	IRQETGLLSK	Q9UQL6 HDAC5 730_731_719_726
2083	KGDFHVDQVT	P01009 A1AT 215_216_231_238
2084	ITQYGLGCKY	Q8WZ64 ARAP2 1130_1130_1140_1148
2085	KLFQAPCQRG	Q6P2C8 MED27 275_283_285_285
2086	ANNEKMSLLK	Q9C093 SPEF2 1714_1720_1724_1726
2087	NTREQAIVSM	Q8WXI7 MUC16 4012_4012_3988_3996
2088	IPFNSAMQLK	P54922 ADPRH 120_124_107_111
2089	LHLETPLVVK	Q8WYP5 ELYS 1170_1171_1173_1180
2090	RPIPRPDFPG	Q8NEZ4 KMT2C 2610_2611_2594_2601
2091	IRVEALPILK	Q5TCS8 KAD9 57_65_38_38
2092	RPPSFTPHTL	O75081 MTG16 93_100_109_110
2093	RSSMQQQGVF	Q8IXB3 TUSC5 131_139_113_113

2094	QHGFPLLTKL	Q7Z2K6 ERMP1 573_575_559_565
2095	LFYPGSSTRK	Q9NZJ0 DTL 286_287_264_271
2096	RPNTGKQLEI	A3KN83 SBNO1 1235_1241_1244_1246
2097	MVEAVQLIPR	Q3SY69 AL1L2 198_205_211_212
2098	RALEVENQAK	Q9UP83 COG5 234_235_237_244
2099	TRDAILLGHY	Q9UK97 FBX9 326_327_332_339
2100	VSITTKVTWK	Q8WZ42 TITIN 29621_29625_29605_29609
2101	LDLNLTEFAK	Q07869 PPARA 300_303_287_292
2102	LIQFGTMVVR	Q9H5I5 PIEZ2 2238_2246_2248_2248
2103	RSILLPIVQK	Q5FWF4 ZRAB3 169_170_172_179
2104	ISRIDPIRSL	Q8N4A0 GALT4 298_306_282_282
2105	RTPARRGRSL	Q9UQ35 SRRM2 684_690_705_707
2106	KEESEPPVEK	O43167 ZBT24 216_221_232_235
2107	KDILDGRLNK	Q8N475 FSTL5 815_816_820_827
2108	LSGHFENLQK	Q9ULV3 CIZ1 816_817_823_830
2109	ARLQSKNNPF	P57082 TBX4 260_265_242_245
2110	SGDNHLKEIY	O43172 PRP4 426_429_406_411
2111	RAIVAAEFLK	P59998 ARPC4 156_157_159_166
2112	FLRGDALTQR	Q9HD67 MYO10 379_382_371_376
2113	RLGFEGTIQR	O15516 CLOCK 256_257_232_239
2114	IVYSGIPEYH	Q685J3 MUC17 4224_4232_4206_4206
2115	PTDPKRLIQL	O43426 SYNJ1 1348_1349_1351_1358
2116	LANEKQILEK	P34947 GRK5 249_250_233_240; P43250 GRK6 249_250_233_240
2117	RPDGFLLVRL	Q86V86 PIM3 115_122_108_109
2118	LPHPVHFLLL	Q969E3 UCN3 22_24_4_10
2119	FGFDTEFLSK	P51959 CCNG1 66_71_83_86
2120	GTMCPHILRY	P60228 EIF3E 228_228_248_256
2121	HVVWPNRGIL	Q9H422 HIPK3 751_755_768_772
2122	SRMKIDPEAF	Q92616 GCN1L 674_674_693_701
2123	IEPPEEKIIQ	Q5H9R7 PP6R3 173_176_188_193
2124	LIYFQAASRK	Q92729 PTPRU 703_710_699_700
2125	EKLDNLPQKL	Q9NU02 ANKE1 645_651_657_659
2126	PLDTRLWGLQ	Q6UY18 LIGO4 59_62_71_76
2127	VNSFTEVDKY	Q9P2N7 KLH13 215_218_209_214
2128	LELKYLSQL	A6NES4 MRO2A 525_526_499_506
2129	LQRLILTPQK	Q9NXL2 ARH38 415_422_438_439
2130	APRLDSWTWP	Q9UMF0 ICAM5 407_411_418_422
2131	NFYEAALKLY	P53675 CLH2 1223_1224_1211_1218
2132	KTMEVLEETR	Q5VST9 OBSCN 2743_2748_2723_2726
2133	LSYRNPNESFK	Q9BW72 HIG2A 24_25_29_36
2134	VRKHVNNDLYV	Q03001 DYST 52_60_36_36
2135	LRFQEPTEPK	P31350 RIR2 73_74_52_59
2136	PQFFQKRSEL	P0DME0 SETLP 113_114_90_97; Q01105 SET 103_104_80_87
2137	PDSAAGRKLL	A6NNT2 CP096 896_901_885_888
2138	RGILSGVVTK	P62280 RS11 69_70_72_79
2139	GKLCNIFSTK	P11388 TOP2A 160_160_168_176; Q02880 TOP2B 181_181_189_197
2140	GRVCDIILPR	Q8NAV1 PR38A 137_137_156_164

2141	PAKKGGLAAG	Q9NZ56 FMN2 465_468_473_478
2142	LAVSSSVAAI	Q53QW1 CB057 35_42_61_62
2143	LDLSLAAGAL	Q9BTN0 LRFN3 161_164_146_151
2144	GVGVGVGP RR	Q8NE35 CPEB3 273_279_268_270
2145	PGAGSRSGRL	Q86U90 YRDC 43_44_25_32
2146	VAGLSLVCAK	Q92618 ZN516 328_333_336_339
2147	PVATAFSAVV	Q9HCE3 ZN532 447_452_426_429
2148	RGLPGALAR	Q8NE62 CHDH 6_9_11_16
2149	GLRAAGLGPR	Q15526 SURF1 10_17_33_34
2150	PGGDGCGR LH	Q04756 HGFA 628_629_619_626
2151	TPAGAGRRAL	B3EWF7 EP2A2 157_158_142_149
2152	GFPPEAIVGV	P47897 SYQ 526_532_539_541
2153	GKSSLINGGR	P36915 GNL1 372_379_382_383
2154	GGLCKGRS VL	Q7LBC6 KDM3B 576_576_567_575
2155	GAHRPVGLAL	Q14142 TRI14 51_54_57_62
2156	LRGAAAGR LL	Q9NQX5 NPDC1 29_35_14_16
2157	GLATSLRAVL	Q8N239 KLH34 198_200_177_183
2158	GRGCRSLVVG	O60307 MAST3 22_26_32_36
2159	RGPPARAAVL	Q6P9B9 INT5 78_79_67_74
2160	ISSSSTSVQL	Q5T3J3 LRIF1 84_89_92_95
2161	RPPRAVAGNA	Q6IQ55 TTBK2 178_185_196_197
2162	KAHGNLATVV	Q99708 COM1 237_240_252_257
2163	PGRDGAGLLR	Q8N612 F16A2 884_890_864_866
2164	APRGSGSLLR	P22681 CBL 447_447_436_444
2165	LSGALSRPGR	P01891 1A68 13_17_37_41; P01892 1A02 13_17_37_41; P04222 1C03 13_17_37_41; P04439 1A03 13_17_37_41; P05534 1A24 13_17_37_41; P10316 1A69 13_17_37_41; P13746 1A11 13_17_37_41; P17693 HLAG 13_17_37_41; P18462 1A25 13_17_37_41; P30443 1A01 13_17_37_41; P30447 1A23 13_17_37_41; P30450 1A26 13_17_37_41; P30453 1A34 13_17_37_41; P30455 1A36 13_17_37_41; P30456 1A43 13_17_37_41; P30457 1A66 13_17_37_41; P30464 1B15 13_17_37_41; P30484 1B46 13_17_37_41; P30499 1C01 13_17_37_41; P30505 1C08 13_17_37_41; P30508 1C12 13_17_37_41; P30510 1C14 13_17_37_41; P30511 HLAF 10_14_34_38; Q07000 1C15 13_17_37_41; Q09160 1A80 13_17_37_41; Q29960 1C16 13_17_37_41; Q29963 1C06 13_17_37_41; Q95604 1C17 13_17_37_41; Q9TNN7 1C05 13_17_37_41  O43318 M3K7 97_103_110_112
2166	LNPVCLVGSL	Q8WZ42 TITIN 13226_13231_13250_13253
2167	GATAVLEILK	Q9NQ31 AKIP1 66_66_44_52
2168	GRPKGCMGV L	Q8N114 SHSA5 145_150_152_155
2169	VVTTTTTTVV	Q00537 CDK17 88_89_74_81
2170	PRHSVIGGSL	Q14186 TFDP1 301_309_312_312
2171	KRMGMACGL G	Q96K78 GP128 285_292_298_299
2172	LVSSSTFIGL	Q9UMN6 KMT2B 2089_2096_2078_2079
2173	GVVRAGVLPR	Q96HC4 PDLI5 194_197_204_209
2174	LSAGPRQPTV	A6NGW2 STRCL 140_145_134_137; Q7RTU9 STR C 140_145_134_137
2175	LVEVLLAGVL	Q8NE01 CNNM3 276_281_262_265
2176	LLELAAAVLL	Q9H8H2 DDX31 606_606_621_629
2177	PRIGCHGSSL	Q14204 DYHC1 3074_3079_3082_3085
2178	GLKDRASP AL	Q96RL6 SIG11 321_328_346_347
2179	LRGV RAGD AL	

2180	SPRRGASALL	Q8IZS8 CA2D3 6_8_12_18
2181	LRRAGALASL	Q9H254 SPTN4 1560_1561_1577_1584
2182	LMVGLPGKTI	Q1KMD3 HNRL2 456_462_447_449
2183	VGTISVLKDV	Q05BV3 EMAL5 81_82_97_104
2184	RGLCSSGPVR	Q9UHB4 NDOR1 415_420_430_433
2185	AGPRGKAMVF	Q7Z624 CMKMT 278_279_253_260
2186	PRGPVRPSVA	Q86SG6 NEK8 299_305_280_282
2187	VPNDPAPVDL	Q5VV67 PPRC1 674_677_663_668
2188	PGVRHLSSAI	Q5VZP5 DUS27 73_76_55_60
2189	HIAGNVQVSL	B2RNN3 C1T9B 244_247_261_266; P0C862 C1T9A 244_247_261_266
2190	PSLGHAGPFR	Q8NI60 ADCK3 105_110_123_126
2191	GSPKHCQAVL	O95625 ZBT11 187_187_193_201
2192	LRGINAAVLL	O95382 M3K6 415_416_395_402
2193	AAAHAPALRY	Q9Y235 ABEC2 95_99_113_117
2194	RGVVQGQAIL	O95932 TGM3L 231_237_256_258
2195	GRASTLTAHK	A6NK75 ZNF98 300_302_307_313; Q03938 ZNF90 291_293_270_276; Q9P255 ZN492 259_261_266_272
2196	GKASPRIEAL	Q7RTR2 NLRC3 380_387_371_372
2197	PMLTKGVAIL	A6NM76 O6C76 280_281_267_274
2198	RPRLGATCGL	O95881 TXD12 4_11_29_30
2199	LVSLDGTQVL	Q6UXK5 LRRN1 540_542_521_527
2200	RGLGGRFVAL	Q9NNW7 TRXR2 9_15_6_8
2201	GVSLADLSER	Q6DN12 MCTP2 472_474_483_489
2202	KPGGRFLCGI	Q5HYK3 COQ5 237_244_218_219
2203	GSDSIDVSLY	Q0ZLH3 PJVK 106_110_85_89
2204	PGRRPASSDI	Q9UPR6 ZFR2 581_589_600_600
2205	PRIRSSGVAL	Q8NDA2 HMCN2 3216_3224_3213_3213
2206	PQALMVGVEL	Q86T20 CF001 137_141_129_133
2207	VGSAQVRRALA	Q8N0V4 LGI2 50_51_27_34
2208	PRASRALSSL	Q86VI1 EX3L1 711_715_699_703
2209	PSRATGRLSL	Q68CZ2 TENS3 753_759_775_777
2210	VNSLNVVTLT	Q13740 CD166 495_500_481_484
2211	GRACGERLSSL	Q9NR12 PDLI7 55_55_71_79
2212	PRPPRGLGCI	Q92529 SHC3 135_140_160_163
2213	PRRGALLIL	Q9UK80 UBP21 337_344_327_328
2214	NPRGARVIAL	Q8N0W3 FUK 160_161_169_176
2215	AILIENVILA	Q5VTH9 WDR78 393_395_375_381
2216	ILDKSVAPLL	O75426 FBX24 148_150_126_132
2217	VPRLGRVCGL	P53007 TXTP 280_286_262_264
2218	LRGATGINLR	Q7L273 KCTD9 340_343_321_326
2219	IGCLVILLNL	Q8N8F6 YIPF7 181_186_189_192
2220	VLLRACGMPL	Q9NUB4 CT141 124_124_144_152
2221	NGLPRILAGY	P45844 ABCG1 146_150_130_134
2222	PRSGGVFKNL	Q9H5Q4 TFB2M 156_161_173_176
2223	VKGPTFNAKL	O14646 CHD1 1197_1202_1210_1213
2224	KLNSALCNRG	Q9NR09 BIRC6 771_779_782_782
2225	VDDLTSLGK	Q96GE6 CALL4 165_167_153_159

2226	RAIASGIYLL	P13498 CY24A 127_127_115_123
2227	YPSGSRDALL	Q8N0U2 TMM61 150_150_158_166
2228	RSISLGSFLV	P00519 ABL1 161_165_147_151
2229	GARLSFSVSR	Q8N983 RM43 37_38_28_35
2230	RAGPRLSVLL	Q7RTS6 OTOP2 17_21_31_35
2231	VRGQSLPVKV	Q9NZU0 FLRT3 329_331_321_327
2232	RPDRPIGCGI	Q93100 KPBB 552_559_542_543
2233	IPRIKNACAV	Q6P3W7 SCYL2 489_496_503_504
2234	SSDKGRLCYG	Q53GS7 GLE1 16_24_5_5
2235	PGVLDERRCGL	O60243 H6ST1 161_167_147_149
2236	LDVVDEGINL	Q6ZW61 BBS12 479_483_495_499
2237	GLSDTRGLLR	Q96P48 ARAP1 40_45_63_66
2238	KPSSTVNRKA	Q96L73 NSD1 1025_1028_1042_1047
2239	RISAAGFPIR	Q96H55 MYO19 663_663_651_659
2240	AARSPFRLLG	Q06033 ITIH3 18_19_24_31
2241	GRVRCILTL	B5ME19 EIFCL 422_422_440_448; Q99613 EIF3C 421_421_439_447
2242	PRAANCTRSL	O94766 B3GA3 296_303_283_284
2243	GRAAAVLERF	Q8WY41 NANO1 156_162_146_148
2244	SPAЛЕETCIK	O14544 SOCS6 165_168_145_150
2245	RPVGLIVSHL	Q96G21 IMP4 126_126_146_154
2246	PSRPPHDSSL	Q86VV8 RTTN 1611_1612_1591_1598
2247	HPRDPSLSAL	O95190 OAZ2 36_37_49_56
2248	RIALSRRGPLL	Q99678 GPR20 218_219_222_229
2249	RVASSSSLYK	Q15652 JHD2C 1051_1057_1077_1079
2250	VRRNQGAALL	P55160 NCKPL 213_219_204_206
2251	VPGKVDRNTI	P51512 MMP16 103_104_86_93
2252	IVDDLLNLAI	O75691 UTP20 1255_1262_1237_1238
2253	RAYGGSMCQK	P49207 RL34 76_83_100_101
2254	VKVSELQEAV	P83110 HTRA3 409_411_420_426
2255	GKQCGKTFSF	P17017 ZNF14 415_415_422_430
2256	HPNVHCLSPV	Q9BU40 CRDL1 84_84_75_83
2257	LSGCTLQKRP	Q96HA7 TONSL 1313_1316_1300_1305
2258	SCRVDKPSIV	Q9NP64 NO40 51_58_60_61
2259	PRPRPAPPTL	Q02779 M3K10 885_890_878_881; Q9NYQ6 CELR1 160_164_149_153
2260	AARPKSADF	Q9Y5V3 MAGD1 71_78_93_94
2261	GKVESRIAHL	Q9NY28 GALT8 397_400_405_410
2262	RPADVTIIL	P23634 AT2B4 123_125_103_109
2263	DDLLPNEIAI	Q8NG31 CASC5 1150_1151_1167_1174
2264	GVDVQAVRNR	Q8N443 RIBC1 39_44_33_36
2265	AISYETNLGF	O75386 TULP3 305_311_313_315
2266	AVNMIDNIPK	Q96NI6 LRFN5 166_167_181_188
2267	APRSWARCGL	Q9Y256 FACE2 151_158_145_146
2268	PRKNLSMGTI	Q9Y2K9 STB5L 695_698_674_679
2269	ILNSHCFARG	P54368 OAZ1 9_17_21_21
2270	KGPCLVIKLF	Q5MJ70 SPDYA 60_66_76_78
2271	NCLNVSFHGK	Q13797 ITA9 490_494_499_503
2272	GRITCAEVNR	Q9Y5P8 P2R3B 279_285_273_275

2273	YPRSLRSGPS	Q8NEB9 PK3C3 302_303_275_282
2274	QRCKDISSAL	P13489 RINI 28_28_44_52
2275	LFSCPAENLK	Q8IXY8 PPIL6 31_35_44_48
2276	PRSSFKGNTQ	O95970 LGI1 522_523_539_546
2277	PRQLPGGREI	Q8NEZ4 KMT2C 871_876_865_868
2278	RKSCTGTSKR	Q86TH1 ATL2 79_81_90_96
2279	PSRQNRGPIV	O60494 CUBN 1605_1611_1589_1591
2280	GRLAREPLVL	Q12796 PNRC1 16_19_9_14
2281	PQKQIRDAGL	Q08AD1 CAMP2 937_943_950_952
2282	GCVDGTFHKY	Q9Y484 WIPI4 313_313_327_335
2283	PRGPQTRSDL	O14744 ANM5 48_49_64_71
2284	RPARLLECLG	O15021 MAST4 481_489_463_463; O60307 MAST3 278_286_302_302; Q6P0Q8 MAST2 422_430_446_446; Q9Y2H9 MAST1 284_292_308_308
2285	IEEVLNAETL	Q32P28 P3H1 572_575_593_598
2286	GARINRIMGF	P49069 CAMLG 56_57_43_50
2287	PARWGNPRAL	P00973 OAS1 151_152_125_132
2288	WGPHSDTPEI	Q9UKE5 TNIK 1056_1057_1032_1039
2289	ELIKEGDTSF	Q96FX7 TRM61 8_15_2_3
2290	IRYSQICAKG	P56381 ATP5E 13_21_9_9; Q5VTU8 AT5EL 13_21_9_9
2291	IITQSKQLHA	O60343 TBCD4 1159_1162_1169_1174
2292	DKLPLPTDKI	Q8NHU6 TDRD7 386_386_405_413
2293	LKDQALLPEL	O00253 AGRP 51_52_35_42
2294	RRPAIDQTAI	Q8N9V6 ANR53 78_80_100_106
2295	PLRDARVSDL	Q2M296 MTHSD 333_335_316_322
2296	IPRRTDICLG	Q9H4B6 SAV1 44_52_41_41
2297	GSRCPHLLDF	A6NI72 NCF1B 93_93_110_118; A8MVU1 NCF1C 68_68_85_93; P14598 NCF1 92_92_109_117
2298	GRPCDISRQL	P15863 PAX1 112_112_132_140; P55771 PAX9 18_18_38_46; Q02548 PAX5 30_30_50_58; Q02962 PAX2 30_30_50_58; Q06710 PAX8 23_23_43_51
2299	GVLAEGWWAR	Q9Y6N6 LAMC3 529_531_508_514
2300	RRSTLQEAL	Q8TF39 ZN483 401_405_422_426
2301	RQQFLGGLLI	Q9Y693 LHFP 149_150_125_132
2302	GRVYISKCYG	Q96TC7 RMD3 420_428_415_415
2303	GSEVLDNHIY	Q5S007 LRRK2 1751_1758_1738_1739
2304	LMDLNLLTI	Q9UM44 HHLA2 304_308_325_329
2305	IEVLSDSHPR	P49756 RBM25 211_214_229_234
2306	FPHNLPVLA	Q5H8A4 PIGG 809_809_811_819
2307	GKLCGYVIFR	Q14739 LBR 503_503_494_502
2308	ALQEIQLETL	Q7Z3Y8 K1C27 232_234_209_215
2309	GRRDSRGVTR	P0C867 YB052 44_49_35_38
2310	RSKNNIPANF	Q96QD9 UIF 175_176_166_173
2311	APFDRRATDI	Q92466 DDB2 108_115_135_136
2312	GWREGFLRAA	P18583 SON 2317_2321_2298_2302
2313	GRFDREICGI	O15381 NVL 424_431_433_434
2314	KGQQADLRYS	Q9HBB8 CDHR5 326_332_334_336
2315	GARNVNIFKF	P00338 LDHA 97_99_113_119
2316	KRFNSEILCG	O95819 M4K4 923_931_936_936; Q8N4C8 MINK1 1016_1024_1029_1029; Q9UKE5 TNIK 1044_1052_1057_1057

2317	KRVESIQCGF	Q14527 HLTF 889_896_875_876
2318	GRSSTYELVR	P05161 ISG15 91_97_85_87
2319	IPEEDRHICIG	O95373 IPO7 83_91_76_76
2320	KNHTLVTNEL	Q9H974 QTRD1 357_360_368_373
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2322	RRPGETLTEI	P46940 IQGA1 1426_1427_1400_1407
2323	RIPRGALLYL	Q9ULZ3 ASC 38_45_60_61
2324	IFFSTDEISN	Q86Z14 KLOTB 15_22_31_32
2325	PRREGAMDEL	Q9UKI8 TLK1 57_58_45_52
2326	LCSDVILYRT	Q96AG3 S2546 325_332_347_348
2327	GKEAMRRPEN	Q9Y320 TMX2 226_233_249_250
2328	PRSETHADYL	P98170 XIAP 155_156_133_140
2329	KERPVSMFSL	Q15678 PTN14 826_831_833_836
2330	GVRGNYFLNR	O95400 CD2B2 84_86_105_111
2331	RTLDFADFGR	O43432 IF4G3 664_667_681_686
2332	QRFFSDCKGI	P31943 HNRH1 28_35_42_43
2333	LLRDRTNTTL	P51955 NEK2 58_60_76_82
2334	GPYNKRTLFL	Q16557 PSG3 213_215_198_204
2335	NGSKYLEDRK	O00186 STXB3 527_530_521_526
2336	GYYEAHIHNL	P51793 CLCN4 580_581_572_579
2337	VHLLMEDTFI	Q8NFY9 KBTB8 230_232_244_250
2338	NHVLPDQLYR	Q14241 ELOA1 622_625_612_617
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2356	GGRHCGYLAL	
2357	SVGTNEKISL	
2358	GGRSCFGVNR	
2359	QLASTPSTLH	
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2369	LGRVLAQIVL	
2370	ISPSSKRKAL	
2371	PRGSGSEERL	
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2374	PPEAHLKPAH	
2375	RPGEAEESIL	
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2377	LAKDQDSVLL	
2378	LLTSDNNVII	
2379	PRAVLAPLLR	
2380	RVLVTHGISK	
2381	LARPDLGKLK	
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2384	RPGMDQSRGL	

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2386	RRFGILSNCG	Q13064 MKNR3 327_334_311_312; Q9UHC7 MKNR1 297_304_281_282
2387	APRVVAKLIR	P49750 YLPM1 1670_1673_1655_1660
2388	GIINKKRIAL	P18124 RL7 183_184_162_169
2389	VKDGRVVEPK	P09651 ROA1 104_105_80_87; P22626 ROA2 111_112_87_94; P51991 ROA3 117_118_101_108; Q32P51 RA1L2 104_105_80_87
2390	LKATQESEIL	P13682 ZNF35 76_81_100_103
2391	LLDTFDAILI	P35573 GDE 1018_1021_1007_1012
2392	GLLKHLVTPR	Q9NUQ2 PLCE 196_197_200_207
2393	RAVKLQKALL	Q9NY61 AAFT 225_227_243_249
2394	PHPSRDFSLS	Q9Y3M8 STA13 1006_1012_1031_1033
2395	LDDIRRAGNI	O95427 PIGN 781_787_802_804
2396	IDIITQDIVL	Q9HCS2 CP4FC 422_425_403_408
2397	KDIVALMTKK	Q02880 TOP2B 254_261_281_282
2398	RGGGRYQLEI	P61086 UBE2K 40_41_53_60
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2400	PVGRDKPLRL	P68104 EF1A1 263_266_243_248; Q05639 EF1A2 263_266_243_248; Q5VTE0 EF1A3 263_266_243_248
2401	GSLCYKLLKK	Q9UBT7 CTNL1 720_720_705_713
2402	IPDLDTRSEL	O95834 EMAL2 34_36_44_50
2403	DILKGKMQVK	P27708 PYR1 1958_1963_1950_1953
2404	CMTELLLELV	Q8WVM7 STAG1 501_508_484_485
2405	RVLAQNIIK	Q96PB7 NOE3 321_325_310_314
2406	PGHHLQQQLL	P09086 PO2F2 116_121_104_107
2407	ARAHSIQIQF	Q02543 RL18A 119_126_144_145
2408	VKKYSTLVLK	P14625 ENPL 268_272_248_252
2409	LAKENSYVKK	P28289 TMOD1 244_245_221_228
2410	ARILQKLIKP	Q5T4S7 UBR4 4000_4000_4018_4026
2411	SFFGEKLLLK	Q5THJ4 VP13D 3951_3954_3943_3948
2412	LPSRREKLAL	Q6IN85 P4R3A 151_153_156_162
2413	PEFQLPEPDI	Q9UPU9 SMAG1 681_686_689_692
2414	VDPPELQELF	Q8IZL2 MAML2 318_319_303_310
2415	RRQTAQQDAL	O43763 TLX2 213_217_235_239
2416	AKKKQVQVIR	Q9H6F5 CCD86 331_335_319_323
2417	RSGQFQPTKR	Q96MF4 CC140 73_77_51_55
2418	GIRYKSIVKY	P14324 FPPS 284_285_258_265
2419	GKRCFLWAY	Q8N806 UBR7 168_168_187_195
2420	RLTDLFPKTR	P10124 SRGN 69_70_72_79
2421	SIIFQTFRKD	Q7L0X2 ERIP6 151_152_139_146
2422	RLLRSRSLRK	Q76NI1 VKIND 310_313_299_304
2423	LPAGRGPKPQ	Q8IZC6 CORA1 282_288_299_301
2424	RAAPP GPAKR	Q6ZRP0 PR23C 40_43_23_28; Q6ZRT6 PR23B 40_43_23_28
2425	RAARGPGLLL	Q9ULZ9 MMP17 4_10_25_27
2426	AGVLLFSVLL	Q6UWB4 PRS55 27_29_2_8
2427	RHTLPGAGKI	Q9H0K1 SIK2 482_485_496_501
2428	RGLASPPPVR	Q5FWE3 PRRT3 837_844_826_827
2429	RVGATAARHL	P0C0S5 H2AZ 46_52_35_37; Q71UI9 H2AV 46_52_35_37
2430	GGSDCTTIHY	P04637 P53 244_244_226_234

2431	RPSAVGTIRP	Q9NSU2 TREX1 299_303_282_286
2432	RKIVEGISPG	Q15126 PMVK 93_100_88_89
2433	LSRSMKPGAL	O15273 TELT 156_160_148_152
2434	LNTSLEVKG	Q5T197 DCST1 524_527_503_508
2435	GVIKSARPVL	P13942 COBA2 187_189_177_183
2436	PHVRSSGHVT	O94759 TRPM2 593_595_610_616
2437	PVDRGPIMPV	Q9HC10 OTOF 1099_1099_1114_1122
2438	RGSPLKVLLV	Q9NSD4 ZN275 89_92_112_117
2439	MPGKAPRGLR	Q8WY21 SORC1 820_820_793_801
2440	GRKAPAPFRP	Q9C0C2 TB182 123_123_143_151
2441	GRDGRLVGLR	Q14160 SCRIB 1146_1151_1153_1156
2442	VRKDRLAAGD	Q8TC59 PIWL2 109_113_126_130
2443	GKRCKLLLGI	Q10589 BST2 16_16_18_26
2444	NSVSSKEDIK	Q8N1W1 ARG28 307_311_317_321
2445	PTEPLRAVHS	Q9Y4A5 TRRAP 2224_2227_2209_2214
2446	VRGGAEKLG	P56705 WNT4 67_71_44_48
2447	RRVSQGLLGK	A4D2P6 GRD2I 222_223_210_217
2448	RGVTLLTRV	Q9NPC4 A4GAT 274_278_253_257
2449	GRMLMKGGIR	P03372 ESR1 262_265_251_256
2450	GVPRAKLIIR	O14917 PCD17 691_694_677_682
2451	RPAVLKGLLR	Q2M3M2 SC5A9 521_526_500_503
2452	VSHLSEKNIP	Q9C0F0 ASXL3 1209_1215_1206_1208
2453	PMGRRGLHSL	Q96N28 SLMO1 28_29_45_52
2454	RSFKALSICT	O60449 LY75 615_623_602_602
2455	PRTFVGVHGR	P19526 FUT1 211_218_205_206
2456	GVVTKSRIRL	P54753 EPHB3 699_705_695_697; P54762 EPHB1 685_691_681_683
2457	GVLFGRVLLR	P09544 WNT2 118_119_96_103
2458	VRAEHHVATL	Q12834 CDC20 295_296_298_305
2459	KIRDVTKCLG	B5ME19 EIFCL 72_79_86_87; Q99613 EIF3C 72_79_86_87
2460	LRKDLSKMAA	Q6GMV3 PTRD1 31_36_14_17
2461	GAPEEHRPKI	P49756 RBM25 673_674_659_666
2462	GRYSGRVIVK	P61353 RL27 16_21_24_27
2463	GGRCFKLILK	Q00403 TF2B 172_172_192_200
2464	GRYGVSTQIR	Q8WZ42 TITIN 378_382_367_371
2465	LCLLPHLISK	O94915 FRYL 2105_2112_2087_2088
2466	KKSLYLMsav	A0JNW5 UH1BL 488_493_497_500
2467	IRYGQTKGAF	P49591 SYSC 408_414_387_389
2468	KQTALVELIK	P02768 ALBU 549_556_547_548
2469	RALREMISGI	Q53GS7 GLE1 313_318_290_293
2470	RDGKYGPPTR	Q08170 SRSF4 75_77_95_101
2471	ELSVKSLQVF	Q8IXQ6 PARP9 119_122_105_110
2472	IIGMAYILTR	Q92597 NDRG1 134_137_143_148
2473	RRADLAARLL	Q8TDF6 GRP4 117_118_96_103
2474	RRVEVTRAGL	Q9UII4 HERC5 48_54_40_42
2475	RRVLTASKL	Q969M7 UBE2F 28_30_2_8
2476	SPEFDHVTLL	P11277 SPTB1 1715_1717_1722_1728
2477	RPRPLLGHV	P05177 CP1A2 32_34_49_55

2478	RPRPLHGLVL	P22004 BMP6 92_99_86_87
2479	ELVARAGWTR	Q86TI2 DPP9 337_339_353_359
2480	GGRLLKLFTR	O60216 RAD21 367_368_384_391
2481	KRMVTKVCGF	O95478 NSA2 147_154_159_160
2482	RASRILSIQK	Q00341 VIGLN 633_634_641_648
2483	PTSHTARLHR	P48730 KC1D 348_353_372_375
2484	GVHNNKTIHR	Q8NEV4 MYO3A 163_164_142_149
2485	GARTRLLNKF	Q8WYA6 CTBL1 450_451_423_430
2486	HRFPSPLAPR	Q6P5S7 RNK 23_30_8_9
2487	IGRSRYLANK	O00567 NOP56 357_359_369_375
2488	RRAELVFKCG	Q9NQ89 CL004 489_497_500_500
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2490	EVSMLYLATR	Q9H9E1 ANRA2 140_142_162_168
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2492	QRGSENLPKR	Q5JSZ5 PRC2B 1150_1155_1144_1147
2493	RPKRLQTS	Q6UWF9 F180A 34_38_47_51
2494	LRSDVHFSVK	O95503 CBX6 90_91_93_100
2495	MVKRCKQLLA	P33176 KINH 604_611_629_630
2496	PADRKKLYSL	A3KN83 SBNO1 670_671_673_680
2497	PSSLRKRLQL	Q96CP6 GRM1A 13_14_18_25
2498	CLALFELYTK	Q8N806 UBR7 75_77_88_94
2499	LMNIRRSSL	Q7Z6Z7 HUWE1 3434_3436_3443_3449
2500	PRRGLRPLEL	Q9BUA3 CK084 214_215_194_201
2501	RPRAPVRLEL	A6NGR9 MROH6 470_477_481_482
2502	RLREQVLCHG	Q9HCK8 CHD8 1895_1903_1917_1917
2503	PRRTNTPKQL	Q9Y6Q9 NCOA3 1155_1156_1163_1170
2504	RRVNDKSLAR	Q9P202 WHRN 183_183_190_198
2505	VSDNRTRRT	Q9NP80 PLPL8 357_363_371_373
2506	GARLRYIKQL	Q9Y3Z3 SAMH1 159_160_143_150
2507	REQFSAVVQR	O95361 TRI16 365_368_348_353
2508	PRGAYYARIR	Q3MIR4 CC50B 279_283_266_270
2509	RRFDDAVVQK	P11142 HSP7C 76_84_56_56
2510	PRRITDDQLK	Q86UP3 ZFHX4 2087_2088_2090_2097
2511	YTRFDLLGDF	Q6UX01 LMBRL 434_434_416_424; Q8WVP7 LMBR1 429_429_411_419
2512	KPYDCSHKRI	Q96NG5 ZN558 178_183_170_173
2513	RSYNQVVKEK	Q5BJF6 ODFP2 445_446_448_455
2514	HLPDRREIIC	P35558 PCKGC 221_229_212_212
2515	RRL GSL THYR	Q5T3U5 MRP7 1093_1099_1084_1086
2516	RRKQEMLAAR	Q6UW78 CK083 33_39_53_55
2517	PQRSSKMRR	Q6NV74 K121L 232_232_235_243
2518	RRVPFNQTLK	Q7Z7M8 B3GN8 204_205_217_224
2519	PRLSFRHISF	Q86W26 NAL10 441_443_463_469
2520	PRRYDDTVIK	Q53TS8 AL2SA 174_179_159_162
2521	ARKETEFLRR	Q15208 STK38 70_77_64_65; Q9Y2H1 ST38L 71_78_65_66
2522	RTVEDVFLKR	Q96EL2 RT24 85_91_110_112
2523	RTGWPTQFKR	Q13202 DUS8 570_574_581_585
2524	RLYFVMLDKP	P17252 KPCA 412_417_394_397

2525	RRPEYQVKDI	Q92576 PHF3 1891_1894_1885_1890
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2527	VNVGPKALAP	O75364 PITX3 177_180_158_163
2528	GVTVQNLLGV	P46019 KPB2 800_808_785_785
2529	KTPTSSLHGV	Q14684 RRP1B 727_732_722_725
2530	PAAQKAVLHP	Q8IXI1 MIRO2 183_184_162_169; Q8IXI2 MIRO1 183_184_162_169
2531	GGRCCHGFGL	P14317 HCLS1 464_464_468_476
2532	RVGAARTAHI	Q8IYK2 CC105 15_18_29_34
2533	RVGATAARIH	P0C0S5 H2AZ 46_52_32_34; Q71UI9 H2AV 46_52_32_34
2534	AVLGNKILLL	Q8WWZ7 ABCA5 628_632_634_638
2535	VRGLSGGRLR	Q9H221 ABCG8 210_216_196_198
2536	RRGGAALLTR	Q96FT7 ASIC4 10_16_20_22
2537	PGAIYLSIDK	O43149 ZZEF1 2721_2728_2716_2717
2538	IYGKDGVUIL	P55210 CASP7 150_157_140_141
2539	RPRGRGGLPL	Q6ZW31 SYDE1 636_642_626_628
2540	GVFPEVDTIL	Q8IWZ3 ANKH1 877_881_899_903
2541	HRDSHLTAVG	P24855 DNAS1 86_86_63_71
2542	VGSFSRLLLCC	O76090 BEST1 9_9_15_23
2543	RKFGGFTGAR	Q13519 PNOC 141_142_130_137
2544	LSTSYKTATK	O95389 WISP3 188_194_213_215
2545	RPGVSEKEVV	Q9UN79 SOX13 88_93_109_112
2546	GGRCPKWSGR	Q8TF05 PP4R1 821_821_833_841
2547	LSYSPLQTSI	Q6YHU6 THADA 554_558_568_572
2548	LDLGFFLGNL	O15151 MDM4 186_190_202_206
2549	IDLMAISFAK	Q6ZTN6 AN13D 294_300_304_306
2550	GARSKSFSLR	Q9BT23 LIMD2 6_7_26_33
2551	IDPSFLNPPL	P78559 MAP1A 2461_2462_2450_2457
2552	LLTPIAFILL	Q8TAA9 VANG1 105_105_125_133
2553	PAVNGKFTQR	P55199 ELL 350_355_344_347
2554	LDNFIYIGGL	Q6NUS8 UD3A1 283_287_267_271
2555	PRRADTGHAF	Q9Y618 NCOR2 1951_1952_1960_1967
2556	RRHGESICGL	Q9H2M9 RBGPR 384_391_379_380
2557	LQVLTELAQL	Q9H171 ZBP1 19_24_31_34
2558	VRGGEGRIER	P04196 HRG 186_191_179_182
2559	GKRCKLANVF	Q9Y5P8 P2R3B 451_451_459_467
2560	RATLYTARAL	Q96N23 CL055 293_299_319_321
2561	GVIMLPELLR	Q92504 S39A7 458_461_436_441
2562	GVRWGMLLTL	Q8N5H7 SH2D3 616_621_623_626
2563	GVLYGMELLR	Q5DID0 UROL1 371_374_349_354
2564	RGVQPRIVAR	O15230 LAMA5 904_905_912_919
2565	RRFGSRSLSS	P28838 AMPL 20_28_42_42
2566	GARFRLQHGL	Q5TAQ9 DCAF8 175_176_182_189
2567	NVVEKKVDAR	Q92784 DPF3 151_152_127_134
2568	AIMTFYSLGR	Q92736 Ryr2 2387_2393_2399_2401
2569	GVRLSFPEIF	Q14213 IL27B 134_138_157_161
2570	PHRYRGTVL	P68431 H31 39_43_45_49; P84243 H33 39_43_45_49; Q16695 H31T 39_43_45_49; Q6NXT2 H3C 38_42_44_48; Q71DI3 H32 39_43_45_49

2571	IEDVINVEQI	Q8N841 TTLL6 308_312_300_304
2572	GRAFSRSKHK	Q5JNZ3 ZN311 421_426_431_434
2573	DFLKDGPIYI	P06241 FYN 352_357_337_340
2574	RRALLERCLG	Q15075 EEA1 1292_1300_1276_1276
2575	AAFEVEGRRR	Q96BJ8 ELMO3 318_324_335_337
2576	GKLCQHIIKR	Q8NDN9 RCBT1 442_442_457_465
2577	RRLAREQIVG	P09228 CYTT 65_67_73_79
2578	IQAIRISKRI	Q0VDD8 DYH14 2700_2704_2686_2690
2579	RLREAGNINR	Q02241 KIF23 353_360_345_346
2580	RRNDKQLCIG	Q9HCG8 CWC22 246_253_229_230
2581	VGIEGRTRYR	Q5GH73 XKR6 422_424_435_441
2582	RVRDGFCFGR	Q7Z478 DHX29 984_991_980_981
2583	RRRDAVIADF	P42356 PI4KA 15_22_5_6
2584	GKRCHEFVTF	P05129 KPCG 60_61_76_83; P05771 KPCB 59_59_76_84; P17252 KPCA 59_59_76_84
2585	RKQGRTLYGF	P62805 H4 79_80_94_101
2586	RGYSDRFSSR	Q13243 SRSF5 77_78_85_92
2587	YNVDFAFSLY	P08185 CBG 29_29_43_51
2588	RIYNAARGYR	P28827 PTPRM 1329_1335_1339_1341
2589	GHRCRIFQNL	Q02809 PLOD1 212_212_202_210
2590	LKKAWNDIKK	P36578 RL4 171_172_175_182
2591	RGRCREIEQV	P0C1Z6 TFPT 68_69_88_95
2592	GRLCNWVSRR	O43432 IF4G3 992_992_980_988
2593	RLFLVNKLRV	Q3MJ13 WDR72 907_914_924_925
2594	PKRSQRYESL	P47914 RL29 37_38_25_32
2595	RIYEPPHIKK	Q14683 SMC1A 627_628_600_607
2596	RRNFLEQGLR	Q9NRC6 SPTN5 2254_2259_2231_2234
2597	EYVQFKTQQY	Q96CM8 ACSF2 164_166_180_186
2598	KTVKSGVVIV	Q5THJ4 VP13D 2443_2450_2440_2441
2599	LGSQQAQVVL	O95071 UBR5 172_175_192_197
2600	RRAGAPWGGR	C9JH25 PRRT4 524_529_519_522
2601	GSTAEEKAWL	O43324 MCA3 62_69_74_75
2602	RRIGGTLVKL	Q8TE04 PANK1 223_224_243_250
2603	LRRPGKIVGK	Q9BVS5 TR61B 211_214_190_195
2604	RVGGGWFPQE	Q7Z698 SPRE2 40_42_28_34
2605	IKDNKGGRKE	Q8WXD9 CSKI1 77_82_93_96
2606	RSIPPMLAK	Q9H2Y7 ZN106 960_964_949_953
2607	IVCIHKATRK	O60229 KALRN 2696_2697_2700_2707
2608	IHRGPPYAHK	Q13454 TUSC3 269_270_252_259; Q9H0U3 MAGT1 257_258_240_247
2609	PHRPSLSRIK	Q9HCX4 TRPC7 326_326_304_312
2610	RRLAVAIPRR	Q96S97 MYADM 292_298_271_273
2611	RPRRLGVVVR	Q9BZ71 PITM3 703_709_717_719
2612	RGISERLKTR	P52789 HXK2 764_765_772_779
2613	DFYSSPHLKK	Q14865 ARI5B 830_837_816_817
2614	GRVRDYLVKR	O00178 GTPB1 142_149_151_152
2615	RINFLKLRDQ	Q5MJ70 SPDYA 170_171_159_166
2616	KRFEQKGFLR	P22392 NDKB 26_32_40_42

2617	RKLEHTERQF	Q8IY67 RAVR1 45_46_48_55
2618	DIVLNAVALL	O75762 TRPA1 573_577_563_567
2619	PAPAAGGPSLP	Q5TGS1 HES3 127_134_146_148
2620	PAPAGDPPDSI	Q5HYR2 DMRTC 155_160_142_146
2621	ICHTEAADGGP	Q8J025 APCD1 153_158_176_180
2622	DSGTPGAEPQQ	Q6NY19 KANK3 515_520_536_540
2623	AHALNDSLVAL	O43933 PEX1 689_694_704_708
2624	SPAGSHDTEPK	Q9Y283 INVS 804_808_780_785
2625	VAQSSTECRTG	Q5VT06 CE350 405_407_409_416
2626	QPLGSSHNISD	B0FP48 UPK3L 67_70_73_79
2627	SGLSQEVQCQL	Q6IN84 MRM1 261_268_271_273
2628	PEEAAAVWEND	Q496H8 NRN1L 88_96_74_75
2629	PPEPFWNFTQA	Q6UVK1 CSPG4 1663_1668_1645_1649
2630	PRAAGAGMAAA	Q9Y6N6 LAMC3 15_21_1_4
2631	LGPRAAAAGAL	Q9BUN1 MENT 16_21_4_8
2632	LPAACGLLAGL	Q96ES6 MFSD3 97_100_81_87
2633	LAAGSSVSLTL	Q8N0W3 FUK 361_367_339_342
2634	AHPLSAGPPAL	O95502 NPTXR 82_85_68_74
2635	GAQLCGGTVLL	P08709 FA7 234_241_228_230
2636	APAAARTPAIP	Q9UQ35 SRRM2 2223_2226_2245_2251
2637	RGPAAGALVLL	Q13641 TPBG 7_12_22_26
2638	GSTCIYGGAPK	P17844 DDX5 208_208_198_207; Q92841 DDX17 268_268_275_284
2639	APAPRSGECCGL	Q9Y3B6 EMC9 32_40_28_29
2640	RLGTVTVAGAL	Q9BZJ4 S2539 172_177_166_170
2641	LLYGPPGCGGK	P46459 NSF 257_265_274_275
2642	PGGPLHVLSSV	Q13202 DUS8 24_28_42_47
2643	SPLAASKECAV	Q9H8H0 NOL11 278_286_274_275
2644	AILCSCLSPGL	O15360 FANCA 840_841_856_864
2645	ADVAVGLFACL	P29275 AA2BR 52_60_78_79
2646	RHVIGGAAVTV	Q8N2H3 PYRD2 66_75_48_48
2647	LPMSGIAGQPI	Q16206 ENOX2 32_35_53_59
2648	PSSHGLVTSSL	Q9UER7 DAXX 670_671_690_698
2649	PSIGSLARLSS	Q5T0Z8 CF132 584_589_572_576
2650	TPRPSSPGGQL	Q5R372 RBG1L 114_122_102_103
2651	GTPRCPPSGLL	Q03518 TAP1 533_533_545_554
2652	PGRPVLGGSFL	Q9UK96 FBX10 395_396_382_390
2653	AAPTQKSLSSL	Q5SWA1 PR15B 116_119_121_127
2654	TERTPGSGVSI	Q7RTP6 MICA3 864_872_879_880
2655	VAHGRSLALSV	Q92616 GCN1L 2495_2496_2483_2491
2656	PRSPGNLASTL	Q9H0F6 SHRPN 163_169_150_153
2657	AGDSLSNCALY	Q8NI99 ANGL6 384_389_409_413
2658	VKNVDVTGVQV	Q8WXE0 CSKI2 11_20_23_23
2659	PSNNSTSPLSL	P0C7T3 O56A5 4_11_30_32
2660	APLGAPIYTAF	Q8WZ42 TITIN 1385_1390_1361_1365
2661	STLTDSLVCVGK	P13639 EF2 33_41_31_32
2662	PSSPGLFRASL	Q9HAW4 CLSPN 832_833_810_818
2663	VSVDNANKAKS	Q13126 MTAP 231_234_243_249

2664	VESAGTLPCM	Q86YS3 RFIP4 94_102_81_82
2665	GPVCAYDKTAL	P46109 CRKL 236_238_249_256
2666	PQRNSLPASPA	Q8TEK3 DOT1L 985_986_995_1003
2667	RPALSPAPTTM	O95388 WISP1 45_46_24_32
2668	PGSQAHSALYL	O94900 TOX 379_380_363_371
2669	PIQGGRGAIQF	Q15436 SC23A 470_471_473_481
2670	ERFPAQAAAAL	Q9H254 SPTN4 1050_1057_1029_1031
2671	KSPSENIASVL	Q6NVY1 HIBCH 233_236_238_244
2672	ASYTTSSLSTK	Q9Y520 PRC2C 2307_2308_2321_2329
2673	SDPTVPLMAKS	Q9ULT0 TTC7A 446_454_429_430
2674	VPRASVPSVQI	Q86YP4 P66A 294_294_272_281
2675	GAPRDPPETL	Q9UIM3 FKBPL 65_66_39_47
2676	EGPEQAVLNSL	P41182 BCL6 393_398_382_386
2677	SVGSRQVARDS	Q8WXG9 GPR98 5501_5505_5519_5524
2678	TPSLVKSTSEI	Q06055 AT5G2 10_18_34_35
2679	HLTPKGLLTAL	Q6P589 TP8L2 134_138_154_159
2680	SSDGAISLHDY	P55735 SEC13 124_131_114_116
2681	PDTTNHTPVAL	Q15653 IKBB 158_160_172_179
2682	GLLHNVSQNIA	O76075 DFFB 144_144_122_131
2683	VPDSSLSHLKS	Q5T6S3 PHF19 509_510_529_537
2684	AGIFNPPLSEK	Q8NB78 KDM1B 656_658_639_646
2685	EKPHSEAGTAF	P14618 KPYM 28_28_3_12
2686	LPSFSRVPGLT	Q9UIF9 BAZ2A 846_848_838_845
2687	FVSCGARQVPL	O43246 CTR4 183_189_161_164
2688	PKVNPNPSQL	O14734 ACOT8 203_204_190_198
2689	RANPGDPTQLL	Q9Y334 VWA7 643_649_631_634
2690	LSLQPEGTPLK	O95486 SC24A 341_347_363_366
2691	VSSSSDH SYKS	Q562E7 WDR81 1843_1850_1865_1867
2692	PPTQRGLATFP	Q5TGY3 AHDC1 874_876_882_889
2693	PSDLGKNLQLT	Q9UII4 HERC5 801_802_812_820
2694	SLPVTKSTDQL	P98082 DAB2 723_731_706_707
2695	TSVIQSTAKKE	Q9UIF8 BAZ2B 372_378_393_396
2696	GTTDCLQILAY	P35222 CTNB1 277_277_297_306
2697	VPDSDPARVLE	P43355 MAGA1 254_261_279_281
2698	GITCPQVLIQK	Q8IWV7 UBR1 1354_1354_1367_1376
2699	EITQVEDALAL	Q9NRX1 PNO1 164_166_145_152
2700	TKDSAELQQAL	Q86YR7 MF2L2 796_800_804_809
2701	GATECLPLDKY	Q7L0Y3 MRRP1 320_320_332_341
2702	VPNPIITLVPR	Q8WZ42 TITIN 14335_14343_14349_14350
2703	TVTPENGCRSR	Q9C091 GRB1L 259_265_238_241
2704	LLDPAQKCLGY	Q14587 ZN268 97_104_120_122
2705	HGLKSNKLTIL	Q502W6 VWA3B 43_51_55_56
2706	PGGSEHQINKY	Q9ULX7 CAH14 118_126_102_103
2707	PSARTSYQVPK	A6NHC0 CAN8 460_465_436_440
2708	WLLCFVPATNA	O95255 MRP6 140_145_147_151
2709	HRAPTSEEKAL	A8MYJ7 TTC34 334_340_330_333
2710	FHMTEAGVYTI	Q9UHJ9 PGAP2 230_233_209_215

2711	EMIFNLQSSSI	Q587J7 TDR12 708_714_697_700
2712	RELTDTLQADE	P01100 FOS 159_167_174_175
2713	IEERNFANLEL	Q96M63 CC114 293_299_308_311
2714	DTLKVYDTQLY	O75923 DYSF 1500_1508_1527_1528
2715	VVDNGSGMCKG	P60709 ACTB 9_18_20_20; Q562R1 ACTBL 10_19_21_21
2716	RGGPDGGLGAL	O95977 S1PR4 38_41_43_49
2717	VVSGSTSTGVS	P19013 K2C4 476_484_472_473
2718	PRGAGAGAVSF	Q9NYQ7 CELR3 1335_1342_1328_1330
2719	GPRAVPSSAA	Q8IWD4 CC117 46_53_57_59
2720	AAKGFGQGSAL	Q9NW07 ZN358 251_251_269_278
2721	APTPAVCAVAL	Q96T53 MBOA4 78_79_65_73
2722	VNNGAGTATVL	P25391 LAMA1 2953_2958_2968_2972
2723	SGGTQKPSAVS	Q9NPG3 UBN1 978_982_994_999
2724	GGSGRGPSVPR	O14559 RHG33 587_589_598_605
2725	RATLACGGVAL	P40227 TCPZ 315_316_325_333
2726	ARAGLGLLVLL	Q8TE02 ELP5 7_10_24_30
2727	VRSPGATASSL	Q9H2K2 TNKS2 815_821_838_841
2728	GSPKTPGCSDL	Q6PJG6 BRAT1 461_461_481_490
2729	VGCAPDGGMQMK	Q9P2S2 NRX2A 801_805_786_791
2730	VSSMSSAPGSR	P15924 DESP 2808_2810_2819_2826
2731	RGSSVGGAYVI	Q99683 M3K5 80_86_94_97
2732	GGKQALTSCGF	Q03426 KIME 336_337_357_365
2733	LEPNVGGGPPH	Q8WUY3 PRUN2 1472_1474_1476_1483
2734	VRGGGGVLYVP	O94818 NOL4 70_75_80_84
2735	SPTPGTRSCGI	P27987 IP3KB 280_288_260_261
2736	PSRGGGPLLL	F5H4A9 CC080 34_39_22_26; Q6UXH8 CCBE1 6_10_21_26
2737	VNSTTSTEASS	Q685J3 MUC17 498_500_484_491
2738	PTRPGSAESAL	Q9ULC8 ZDHC8 350_351_334_342
2739	SPVDGQGRCAV	O94829 IPO13 155_162_141_143
2740	PRSGDPLAVAL	O95382 M3K6 6_9_19_25
2741	NCLVAGQQQTL	P98160 PGBM 2457_2463_2451_2454
2742	PGPRTSSSSF	Q03111 ENL 312_313_316_324
2743	SPFSTGCGSRL	Q00059 TFAM 31_34_23_29
2744	PVGWQAGKTGL	Q6PRD1 GP179 1219_1223_1195_1200
2745	YQANGAGALSY	O95453 PARN 133_133_152_161
2746	QPGDSGERTGL	Q8IZC6 CORA1 1527_1533_1512_1515
2747	GPAANGRLVQH	Q9P2F5 STOX2 664_666_676_683
2748	SLSGPQCLCSK	Q685J3 MUC17 4361_4369_4350_4351
2749	GLVNKVPLTGK	Q8WUH6 TM263 81_83_103_110
2750	GGRCQLAGYGF	Q9BPU9 B9D2 69_69_87_96
2751	GVWEEVGCAKG	O95456 PSMG1 91_100_76_76
2752	PAVILAQLSSL	Q99965 ADAM2 299_299_308_317
2753	RSSSPTSSATY	Q96Q15 SMG1 3543_3544_3526_3534
2754	NPSSQRALCGI	Q7RTP0 NIPA1 220_228_208_209
2755	PRLPTSSTSSL	Q96L91 EP400 695_696_698_706
2756	DFASEAEVATL	Q9P2P6 STAR9 2461_2469_2452_2453
2757	PGRSADEADEL	Q8TBE0 BAHD1 109_110_84_92

2758	GARCGLNPVLY	P46092 CCR10 297_297_301_310
2759	HVLGVQLIATL	Q9H6L2 TM231 131_138_149_151
2760	VYGCQLNSGLL	Q9NY59 NSMA2 391_395_403_408
2761	AVVDGRVVEPK	P51991 ROA3 110_111_100_108
2762	PRADSAQLLSL	P19532 TFE3 19_20_32_40
2763	ANGQGYDSAEG	Q8TF72 SHRM3 339_345_318_321
2764	VESGKALSVVV	P04275 VWF 956_958_967_974
2765	GQTDGCNGLRY	P32780 TF2H1 165_165_177_186
2766	GGRMNCVLATY	Q96IX5 USMG5 14_14_26_35
2767	ITLIIDSLGIQ	Q14442 PIGH 71_72_91_99
2768	RDSASGQDIQL	O95714 HERC2 4587_4588_4607_4615
2769	GCLDPGQRALY	P17097 ZNF7 7_7_20_29
2770	YSSSHSDGAQY	P0C7V8 DC8L2 430_431_451_459; Q5TAQ9 DCAF8 395_396_416_424
2771	STAIAAYATLEY	P20585 MSH3 982_983_988_996
2772	GCLDPAQRALY	Q86XU0 ZN677 6_6_24_33; Q8WV37 ZN480 25_25_43_52
2773	QTETAADCRYG	O75362 ZN217 667_676_653_653
2774	GCLDTAQKNLY	A6NNF4 ZN726 2_2_20_29
2775	QRMIAAVDTTK	Q07812 BAX 77_85_56_57
2776	GRMCTATGLYY	Q9H6K1 CF106 153_153_160_169
2777	GIPNFEGRCPF	Q9HBL0 TENS1 193_198_202_206
2778	GCLDPAQRTLY	A2RRD8 ZN320 6_6_24_33; P0CJ79 ZN888 6_6_24_33; P17035 ZNF28 6_6_24_33; Q3MIS6 ZN528 6_6_24_33; Q5VIY5 ZN468 6_6_24_33; Q6PDB4 ZN880 5_5_23_32; Q6ZN06 ZN813 6_6_24_33; Q7L2R6 ZN765 6_6_24_33; Q86XN6 ZN761 6_6_24_33; Q96IR2 ZN845 6_6_24_33; Q96NG5 ZN558 83_84_60_68; Q96SE7 ZN347 6_6_24_33; Q9NV72 ZN701 6_6_24_33
2779	TSIPPELVKQK	Q9BVS4 RIOK2 485_486_496_504
2780	IALQDKNLMAQ	Q14C86 GAPD1 1166_1167_1172_1180
2781	SRYASPEMCFG	P30566 PUR8 19_28_4_4
2782	PKMLDFNTTSV	Q15029 U5S1 601_605_582_587
2783	GCLDTAQRNLY	O75346 ZN253 2_2_20_29; O75373 ZN737 2_2_20_29; P35789 ZNF93 2_2_20_29; Q03923 ZNF85 2_2_20_29; Q03936 ZNF92 2_2_20_29; Q68DY1 ZN626 2_2_20_29; Q8NEM1 ZN680 11_11_29_38; Q8TD23 ZN675 2_2_20_29
2784	VAIPEKQLVEK	O60281 ZN292 2036_2037_2039_2047
2785	PQRPQDSNLSL	Q9UPP1 PHF8 962_963_943_951
2786	AVNYDLLVDEL	Q12840 KIF5A 495_499_514_519
2787	YDNLAAMVLME	Q9H1D0 TRPV6 89_92_94_100
2788	QPDYSERLCGL	P31785 IL2RG 322_330_316_317
2789	LLDEAQRCAVY	Q6P9A3 ZN549 43_50_33_35
2790	GKLCDVQPMQY	Q9NUX5 POTE1 170_170_152_161
2791	LYDPVQLHPEA	Q96EZ8 MCRS1 179_183_194_199
2792	LDAGLKKQFYK	Q99961 SH3G1 29_30_4_12
2793	YSDLSDGEKRF	Q86XD5 F131B 113_121_124_125
2794	YTEQQRCGYG	Q9Y561 LRP12 389_398_383_383
2795	GAAGAVTGLPK	O00268 TAF4 403_408_398_402
2796	AAVSGATGSRP	O15231 ZN185 363_365_352_359
2797	PAAGARAGARV	Q86SX3 CN080 10_18_7_8
2798	PAAARAGGAVR	Q9HBB8 CDHR5 762_769_773_775
2799	HQVPPGPGGPA	P56945 BCAR1 154_154_166_175

2800	AGPARPRAGLA	Q9BYB0 SHAN3 1458_1464_1452_1455
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2802	PVVGASTPRLG	Q8N4F0 BPIB2 16_23_6_8
2803	AAAGIAKILL	Q9HCC8 GDPD2 164_169_188_192
2804	KGGVSVRLAGL	Q15735 PI5PA 540_548_532_533
2805	DPALGSSSVRA	O60784 TOM1 328_330_344_351
2806	APRPRALAAAA	P53007 TXTP 3_5_7_14
2807	KGVSAAGILEK	Q9Y606 TRUA 147_153_166_169
2808	GAGPNIHLLKG	Q5TF58 IFFO2 34_37_53_59
2809	PAELPNRAGAP	O43734 CIKS 371_374_358_364
2810	PARPAPSRGAL	Q9H8W2 CF155 26_34_16_17
2811	RPALGGSIPPM	Q9Y6Q9 NCOA3 951_959_932_933
2812	LTPVGATALPR	P50990 TCPQ 336_338_328_335
2813	VPRKVDGGGTI	Q9NPR9 GP108 160_169_182_182
2814	ARGGASLLLLK	Q16829 DUS7 66_75_55_55
2815	LSTISKSATTV	P47869 GBRA2 384_393_369_369
2816	PRAAAGTVKEL	Q9HBR0 S38AA 826_828_844_851
2817	KGQGLGNLTKP	P51828 ADCY7 793_793_771_780
2818	GAPRRISA VSV	Q7L2E3 DHX30 481_482_491_499
2819	KLPSSPLGCRG	Q8NCD3 HJURP 638_647_622_622
2820	GFGLTRLVGPV	Q8TCX5 RHPN1 547_551_534_539
2821	PARPASGPIRP	P26373 RL13 29_30_49_57
2822	GKPGLPCQPAR	P12109 CO6A1 272_277_252_256
2823	PQVAGSVPRGR	Q6UY14 ATL4 292_296_304_309
2824	RSLPCGAVRPA	Q8WWC4 CB047 15_23_27_28
2825	RKSSPSPSGPK	O14598 VCY1 20_23_26_32
2826	KEMAAAPPGR	Q8N5I9 CL045 88_97_74_74
2827	PTAKIAKSTKS	O60563 CCNT1 608_609_589_597
2828	RGSTLSSQPSI	Q6ZVL6 K154L 1524_1525_1539_1547
2829	GISEARGSKDL	Q96EF0 MTMR8 671_677_649_652
2830	AASKERSGVVE	P10412 H14 49_57_73_74; P16402 H13 50_58_74_75; P16403 H12 49_57_73_74
2831	SFSFASGTAVY	Q8WZ42 TITIN 9320_9329_9343_9343
2832	ALPHGSRQSLA	Q13796 SHRM2 1237_1241_1225_1230
2833	PDSAAGRKL	A6NNT2 CP096 896_901_885_889
2834	PSNDNVISPSI	Q9H799 CE042 2612_2618_2594_2597
2835	PAERALRPGAL	Q8IXL6 DMP4 116_122_126_129
2836	PARSFGSAVIF	P29972 AQP1 193_201_211_212
2837	GRLPLLPCARG	A6NED2 RCCD1 132_141_121_121
2838	KPPDTGHAFLA	Q9Y618 NCOR2 1970_1972_1962_1969
2839	NLLVNSGNQAK	Q7Z3Y9 K1C26 389_391_411_418
2840	PSRGSRSTPTL	Q9H2E6 SEM6A 770_775_760_764
2841	IRGVDSGSKKL	O43320 FGF16 106_111_125_129
2842	PGNGFTLTIKI	P24387 CRHBP 166_175_150_150
2843	GALNAARVHPR	O95954 FTCD 61_68_82_84
2844	ISFEPAKGGEK	P55265 DSRAD 961_962_940_948
2845	SAVTVRNSMAK	B2RTY4 MYO9A 501_501_491_500
2846	IVALGLDHMVP	Q9UHL9 GT2D1 389_390_366_374

2847	LPLPSSAGLR	P0C7U0 ELFN1 399_404_385_389
2848	RLPEAAALSKI	Q9H2D1 MFTC 216_220_231_236
2849	LAREAATSNLK	P30153 2AAA 487_488_459_467
2850	TPSKARNQCLG	Q14680 MELK 466_475_488_488
2851	TPRSLCLATCL	Q18PE1 DOK7 407_414_387_389
2852	KDPQKGGPLNK	Q9UNY4 TTF2 296_297_275_283
2853	SPRSPTQHCGL	O75161 NPHP4 510_518_501_502
2854	PRAGPREESAL	Q15772 SPEG 2021_2027_2017_2020
2855	AYKDVKFGADA	P10809 CH60 25_26_28_36
2856	SPISSNSHLSR	Q9NR09 BIRC6 581_588_594_596
2857	GKVCNPIITKL	P11142 HSP7C 615_615_601_610
2858	NHVTDQSADSL	Q8NHM5 KDM2B 1249_1255_1227_1230
2859	RSAGLQFPVGR	P04908 H2A1B 18_19_22_30; P0C0S5 H2AZ 20_21_24_32; P0C0S8 H2A1 18_19_22_30; P16104 H2AX 18_19_22_30; P20671 H2A1D 18_19_22_30; Q16777 H2A2C 18_19_22_30; Q6FI13 H2A2A 18_19_22_30; Q71UI9 H2AV 20_21_24_32; Q7L7L0 H2A3 18_19_22_30; Q8IUE6 H2A2B 18_19_22_30; Q93077 H2A1C 18_19_22_30; Q96KK5 H2A1H 18_19_22_30; Q96QV6 H2A1A 18_19_22_30; Q99878 H2A1J 18_19_22_30; Q9BTM1 H2AJ 18_19_22_30  Q7Z6I6 RHG30 66_67_57_65
2860	LRSGVSSNIQK	Q0D2K0 NIPA4 152_156_134_139
2861	TRAVDSSVILK	P17844 DDX5 39_39_25_34
2862	ERAGPLSGKKF	O95433 AHSA1 161_168_153_155
2863	QGMILPTMSTL	P11532 DMD 84_86_67_74
2864	LQNGSTRVHAL	P84243 H33 16_24_31_32; Q6NXT2 H3C 16_24_31_32
2865	APRKQLATKPS	P43146 DCC 432_433_408_416
2866	PRNAQTSAQLI	Q14929 ZN169 268_270_272_279
2867	GRRSQKASLSI	P00451 FA8 1417_1421_1406_1411
2868	SIRPIPLPIAK	Q14764 MVP 402_403_389_397
2869	IGYVQDVKTGK	Q5THJ4 VP13D 3838_3844_3857_3860
2870	GLSLINKINVH	O43143 DHX15 411_412_399_407
2871	GARIFEPPPP	P29803 ODPAT 295_298_309_315
2872	PGVSRSKRDPI	Q6XUX3 DUSTY 899_908_896_896
2873	LGIVQPMLQGR	P0CG22 DR4L1 204_212_194_195; Q6PKH6 DR4L2 199_207_189_190; Q9BTZ2 DHRS4 201_209_191_192  P23443 KS6B1 433_435_444_451
2874	APRNIRVNCGL	Q8NFZ0 FBX18 500_509_517_517
2875	RSPTPVSPVKF	Q86TV6 TTC7B 774_779_755_759
2876	RVFPSNVICKG	Q75665 OFD1 771_772_774_782
2877	LHQLGREALAI	P60981 DEST 99_100_117_125
2878	PLSPTESRHSL	P0C2L3 F163B 144_146_155_162
2879	LMYASSKDAIK	Q9NU22 MDN1 3321_3329_3336_3337
2880	LNPFAFARSRSI	Q8IYW5 RN168 230_232_241_248
2881	PAYESLVQESI	Q96HL8 SH3Y1 144_152_155_156
2882	TPKSEAVQEVR	Q00796 DHSO 39_42_57_63
2883	RSSAAVFTYSR	P33121 ACSL1 376_383_389_391
2884	MHSVIGNFIVK	P14866 HNRPL 481_482_485_493
2885	RIFGQANTLLD	Q92615 LAR4B 461_462_464_472
2886	RNFSTPEQAAK	P33121 ACSL1 401_402_378_386
2887	RTIQNPSAYAK	
2888	LRFGQANTTLK	

2889	LAAQAESLRYK	P23396 RS3 113_114_100_108
2890	ERVASSDLVLY	P15538 C11B1 383_391_375_376
2891	VHMGEKQSSH	Q14588 ZN234 197_202_215_219; Q9NZL3 ZN224 197_202_215_219; Q9UK10 ZN225 197_202_215_219; Q9UK13 ZN221 219_224_237_241
2892	RRPPTAELAL	Q96HB5 CC120 84_88_107_112
2893	GCQRQRRLPLAL	P14222 PERF 101_104_86_92
2894	GRVCDIILPRL	Q8NAV1 PR38A 137_137_156_165
2895	GKLCNFSTKF	P11388 TOP2A 160_160_168_177; Q02880 TOP2B 181_181_189_198
2896	LVYDVSHNIAK	Q9Y3I0 RTCB 371_372_349_357
2897	IARNQATMVQK	Q13574 DGKZ 802_803_805_813
2898	PAYEEALQLVK	Q7L4E1 FA73B 309_309_318_327
2899	LNAWRYVGAVI	Q86VE9 SERC5 151_160_144_144
2900	FQQYATGPLLK	P62341 SELT 43_44_34_42
2901	RMMMQSGEAVK	Q9H0C2 ADT4 249_257_269_270
2902	PSRVQRQVTSL	O75592 MYCB2 4033_4034_4015_4023
2903	PSPLPFEFRAI	Q9HD23 MRS2 168_169_181_189
2904	NNEIVKIQSLH	Q13576 IQGA2 751_760_750_750
2905	PVRKVIIDDQL	Q9Y6W3 CAN7 352_353_343_351
2906	EYVQKTMLTAL	P40763 STAT3 229_234_206_210
2907	NCLSKQQQLLK	Q53RD9 FBLN7 26_31_41_45
2908	ETDTFKLHCYG	Q9Y296 TPPC4 138_147_122_122
2909	LSYDSKIWTTK	Q9NUX5 POTE1 447_448_419_427
2910	QFLEENTNILK	Q9NYL9 TMOD3 321_322_309_317
2911	APRRPTQGTVT	Q8TAU3 ZN417 5_10_12_16
2912	PAGVGKDGEKG	Q14050 CO9A3 218_220_204_211
2913	KGVLSRAAGAL	Q9UPP2 IQEC3 177_182_162_166
2914	PAEALSSPLAV	Q9BU19 ZN692 270_272_248_255
2915	APLVTATVLLA	Q9NPI6 DCP1A 487_493_500_503
2916	SRPAHVNGGAL	Q9HBL0 TENS1 465_468_486_492
2917	ETAVPPLPLGS	Q8NCU4 K1407 472_478_483_486
2918	NAERTGPSGTV	Q9NUL7 DDX28 405_405_391_400
2919	RPAACGRTGIS	P30048 PRDX3 31_38_23_25
2920	GVSALGWLGKT	Q8IWT3 CUL9 1390_1396_1367_1370
2921	AAVLASGYVSR	P58107 EPIPL 2519_2520_2539_2547
2922	AAGSLSRLHPV	Q04721 NOTC2 2251_2251_2238_2247
2923	RMASSGGLCAR	Q9BTZ2 DHRS4 18_23_8_12
2924	GGRCGSVLVRL	P15880 RS2 168_168_186_195
2925	VSITNPSTIVS	P51826 AFF3 1162_1166_1144_1149
2926	LVPSETVSSL	P46095 GPR6 134_141_157_159
2927	RAAPSPDPGP	Q9NT22 EMIL3 165_170_155_159
2928	RAGGPAPVRETL	Q9UKN7 MYO15 596_604_579_580
2929	IPTPSLSSLTL	Q86XN7 PRSR1 524_527_499_505
2930	PAELDSGSRAK	Q96BW1 UPP 61_67_45_48
2931	PPGFRASATAR	Q86XM0 CTSRD 784_786_772_779
2932	RPSTS RACVVG	Q6PIJ6 FBX38 796_805_807_807
2933	TISSNKSTSIP	O75376 NCOR1 1506_1513_1528_1530

2934	APSRTPDPAPE	Q13487 SNPC2 174_176_180_187
2935	RPEPPMGIALG	Q9UK80 UBP21 145_148_121_127
2936	PARDPELVVAA	O60391 NMD3B 80_84_73_78
2937	PRAGTALKNGR	Q2VWP7 PRTG 339_344_361_365
2938	GVQVAATVQNR	Q8IY21 DDX60 809_810_823_831
2939	LFMLAGAVII	P08195 F2 188_189_196_204
2940	RPPGRGCVQAL	Q8NBR0 P5I13 183_186_167_173
2941	GLSFTACGRSR	Q2LD37 K1109 4147_4153_4127_4130
2942	VHTAAKNSTLL	Q8IVP9 ZN547 373_378_390_394
2943	PVGEVLTEAEL	O95985 TOP3B 477_481_494_499
2944	PQLKQCSLAGL	A5YKK6 CNOT1 1387_1392_1366_1370
2945	TAGNRMLGLDL	Q9H7D0 DOCK5 149_150_155_163
2946	LHFLGGSMSTL	Q9UBI4 STML1 244_251_237_239
2947	RGFGSGMNMGR	P52272 HNRPM 382_383_363_371
2948	GARNGVMPSHF	P39019 RS19 69_70_84_92
2949	PVGHRGKAVFL	Q8IXN7 RIMKA 150_151_158_166
2950	VVSSARTPRPN	A6NEH8 ZNAS2 76_81_67_71
2951	PTLPIYQGSTL	Q8IUG5 MY18B 2276_2281_2266_2270
2952	MSDSLLQLGLL	A1A5C7 S22AN 528_530_507_514
2953	TPDKFGRTCLG	Q8N8A2 ANR44 400_409_415_415
2954	GASQKNACQKY	Q8IYA8 CCD36 389_392_405_411
2955	GAPRNFSHNSL	Q14154 DELE 181_182_171_179
2956	PARKSGAESWL	O95905 SGT1 149_150_152_160
2957	GVSLACYSPRR	O14511 NRG2 107_115_94_95
2958	LSSGNHRAQQQL	Q9UGL1 KDM5B 1270_1274_1264_1269
2959	PQLLENTAITI	Q92973 TNPO1 791_792_775_783
2960	RAEHLPGEPPLP	Q9Y2J2 E41L3 546_554_539_540
2961	QPLDTVSSEEL	Q9NX07 TSAP1 274_280_261_264
2962	DTNVDKVENAL	A0AUZ9 KAL1L 160_166_176_179
2963	GRPKCVDEVAF	P35249 RFC4 27_27_45_54
2964	LHMLMLPEAIAI	Q96FJ0 STALP 361_362_369_377
2965	PRLGDLIEMAL	Q9NWW9 HRSLS2 8_15_1_3
2966	HRPSLQLDTAI	Q9UBJ2 ABCD2 663_667_687_692
2967	IVPEVELLQDL	A6NCK2 TR43B 251_252_240_248
2968	GRTCEWTGLKF	Q6UXN9 WDR82 182_182_193_202
2969	RKCQLPDGSFR	O75643 U520 439_440_428_436
2970	RLTLSLEPEPR	Q8N0Z6 TTC5 273_279_258_261
2971	RVYSPPEWIRD	P11309 PIM1 296_305_286_286; Q86V86 PIM3 208_217_189_189
2972	RPRLGATCLGL	O95881 TXD12 4_12_29_30
2973	VAAHATQVAAK	P26992 CNTFR 295_300_279_283
2974	GDVAGEVLAQL	Q8IUW3 SPA2L 190_193_166_172
2975	VGPGNCSVLC	Q9UHJ3 SMBT1 529_538_511_511
2976	KHANPGGPIGF	O15455 TLR3 547_555_573_574
2977	GVAETLVLLGK	Q13308 PTK7 821_828_802_804
2978	VGRSGGMQQKG	Q6HA08 ASTL 157_164_174_176
2979	LPDGRVVPAVS	Q08477 CP4F3 408_413_395_399
2980	GVSSHALSDSR	Q96JQ2 CLMN 366_375_363_363

2981	PTLPAKPSLVP	A6NJB7 PRR19 100_107_95_97
2982	GVRAVPSLGHK	Q5BKX5 CS054 244_251_230_232
2983	VSSNSSELKTA	P22004 BMP6 397_399_404_411
2984	ASLRKVGIVGK	P61513 RL37A 20_23_7_13
2985	LITSNTDAVIS	Q14789 GOGB1 1125_1132_1146_1148
2986	LGLALNFSVIS	P27348 1433T 168_176_155_156; P31946 1433B 170_178_157_158; P31947 1433S 170_178_157_158; P63104 1433Z 168_176_155_156; Q04917 1433F 173_181_160_161
2987	ARIAGKVPGLR	Q8WWM7 ATX2L 524_532_545_546
2988	ACRDAASTAK	Q9P219 DAPLE 877_883_858_861
2989	RAVAGPVPRAR	Q9Y5Z7 HCFC2 27_30_17_23
2990	ALLGVPHCRGK	Q8N2U0 TM256 54_62_37_38
2991	NYIGQQAIMVS	Q9UHI7 S23A1 181_184_157_163
2992	LALTSSDLGYL	Q8IY95 TM192 257_265_244_245
2993	LNSALPLQDAI	O75335 LIPA4 72_77_58_62
2994	VGEIAPRTVIT	Q12904 AIMP1 181_189_163_164
2995	LGSAAFLGRR	Q86VU5 CMTD1 16_20_29_34
2996	GAPDCHHVVKV	Q9Y4X5 ARI1 300_300_278_287
2997	LRAASCSDLKK	Q6FI81 CPIN1 232_238_223_226
2998	APPESLIAELQ	Q8NFC6 BD1L1 2688_2693_2701_2705
2999	GPRWADAVSVL	Q9BW91 NUDT9 107_112_101_105
3000	GGNVKIDSQKK	P11137 MTAP2 1752_1761_1733_1733
3001	LHAVAPATKRL	Q9HC56 PCDH9 274_276_295_302
3002	LTDLSASPTKR	O14863 ZNT4 148_153_167_171
3003	LAKEVDPQDAL	P50570 DYN2 189_196_185_187; Q9UQ16 DYN3 189_196_185_187
3004	GKDELPIEANL	Q92598 HS105 607_609_595_602
3005	IARVKGTDQVL	Q8WZ42 TITIN 32228_32230_32211_32218
3006	RTPVVESARGE	Q8WXX7 AUTS2 945_953_930_931
3007	GKEVETIQDAL	Q8NCM8 DYHC2 1776_1780_1760_1765
3008	GRGEARAMEAR	P33240 CSTF2 401_403_416_423
3009	ENTFPSTPSAR	Q9GZM8 NDEL1 226_231_245_249
3010	AAKLPYLPHT	Q4KMQ1 TPRN 469_477_455_456
3011	PKEVLSLGRGR	O60241 BAI2 762_768_784_787
3012	AFPNRAHSTIV	O75751 S22A3 116_120_136_141
3013	RRGCSPLENLA	O75095 MEGF6 448_455_429_431
3014	VGSTSINKVRNY	P78314 3BP2 531_533_504_511
3015	LALATQRISRP	Q9HCJ1 ANKH 244_245_248_256
3016	SVMSKLALEKK	Q460N5 PAR14 1396_1402_1420_1423
3017	LGFQGKTPLRK	Q9ULW0 TPX2 46_47_55_63
3018	GLRTVQKGLQF	Q53H47 SETMR 152_155_133_139
3019	GRIKEIFCPKG	P26358 DNMT1 994_1002_981_982
3020	LSSNIGQHLRK	Q9H2K0 IF3M 163_170_157_159
3021	LPELSSKLQML	P29375 KDM5A 888_891_871_877
3022	KPNISSRKLS	Q9NYY8 FAKD2 150_152_154_161
3023	RHLMNDNASSSF	A0AVF1 TTC26 261_262_245_253
3024	GLRDALKTEFK	P56381 ATP5E 9_10_24_32; Q5VTU8 AT5EL 9_10_24_32
3025	GKLCKEVPNYK	P62851 RS25 38_38_57_66

3026	KPDTEHAVILR	P00813 ADA 273_281_252_253
3027	GVNLRQAEELKR	Q13310 PABP4 293_296_272_278
3028	KGILPRSWSIQ	Q14204 DYHC1 4457_4465_4476_4477
3029	LGLLISFPFFF	Q92959 SO2A1 259_263_272_277
3030	APRPDRLVNLR	O75534 CSDE1 747_755_773_774
3031	LRLETHLPSK	O00567 NOP56 76_77_79_87
3032	LKMGYTNLLTR	Q0VAK6 LMOD3 371_375_387_392
3033	LVYAKNKYLAK	O60678 ANM3 367_368_346_354
3034	MLLNQHSLLSR	Q15118 PDK1 193_201_187_188
3035	LTDPHRAPSYR	Q96RT6 CTGE2 551_559_572_573
3036	SMYDKGPFRSK	P15559 NQO1 146_146_132_141
3037	RANQVDVEIKR	Q9H0H5 R GAP1 88_89_77_85
3038	RADEIEAMIKR	Q460N5 PAR14 1527_1528_1509_1517
3039	DAREIMESIKR	Q14683 SMC1A 486_488_502_509
3040	GRILQEYAKRY	Q6ICH7 ASPH2 143_145_130_137
3041	SKAAGGNPELA	Q13207 TBX2 646_652_660_663
3042	GKGTSPFTGLA	Q9Y232 CDYL1 283_289_277_280
3043	VGIIGGGHLGR	Q6NXP6 NXRD1 79_88_62_62
3044	VEAGTVGLLSN	Q7Z5J8 ANKAR 780_783_762_768
3045	GLGGLLEVPPR	Q562E7 WDR81 744_752_755_756
3046	GLVRGGLGHRV	Q9Y6R9 CCD61 221_225_235_240
3047	RRVAAGRGA LP	Q6ZRH9 YB011 412_413_389_397
3048	LKAAGGNLLLR	Q8TF61 FBX41 652_660_662_663
3049	GAGPARRRPSL	Q96GP6 SREC2 8_15_26_28
3050	KPLQASAGPLR	Q9H6W3 NO66 21_22_4_12
3051	PNLPAVPIQSI	Q9BQE6 CK048 68_76_86_87
3052	LSIAAGIRTVR	Q96JQ5 M4A4A 117_125_130_131
3053	REAVAGATVKR	O60285 NUAK1 24_31_42_44
3054	LEATIADLILS	Q6UX73 CP089 43_44_33_41
3055	GPGRTPRLGRV	Q8TAV3 CP2W1 331_338_320_322
3056	GSLIYGVCAQR	O75879 GATB 163_171_155_156
3057	IAKNLELPIGV	P54886 P5CS 460_466_472_475
3058	VVSVAYLGFC L	P49281 NRAM2 513_521_529_530
3059	KEESLPATEPA	O15265 ATX7 500_503_481_487
3060	RAGGPRMASLR	O60895 RAMP2 8_13_1_5
3061	GKNPTFGGIKR	O75747 P3C2G 1086_1089_1061_1067
3062	PRRTAGPAVHL	Q9Y2X0 MED16 411_412_423_431
3063	PRPSSAHVGL	Q8TF72 SHRM3 982_983_960_968
3064	RPGVGGPD LRR	Q0VDD8 DYH14 167_168_152_160
3065	RSALARVRAPS	Q96L34 MARK4 410_411_383_391
3066	VSNLEELPKGV	Q9BRQ8 AIFM2 209_216_199_201
3067	GLGVSTRINLR	O95388 WISP1 231_238_255_257
3068	ARTRQMGKGGK	P18065 IBP2 223_225_200_207
3069	GVAVKELDLPR	P08651 NFIC 170_178_195_196
3070	LRGGPEDGKLR	Q15772 SPEG 2075_2083_2070_2071
3071	RPGASKANKLR	Q14184 DOC2B 186_186_172_181
3072	NAQVNGLERSL	Q9UIU6 SIX4 587_591_571_576

3073	GELKRAICGTR	Q5JR59 MTUS2 1017_1025_1009_1010
3074	GKQFGRRLSVG	Q8N370 LAT4 259_262_270_276
3075	NFLSAVKVMAE	Q9UBW5 BIN2 66_74_55_56
3076	RGLRPGDGLLR	Q2M2W7 CQ058 60_61_63_71
3077	PRAASERGVRL	Q96SB3 NEB2 96_98_86_93
3078	TFQSSSIEIGF	O43364 HXA2 31_37_8_11
3079	GRLVKEGCSLR	Q02641 CACB1 147_154_167_169
3080	GIAKQDDFTAR	P48637 GSHB 114_116_95_102
3081	ELLGSYSLSVR	Q9H6Q3 SLAP2 106_108_128_135
3082	ELEVKESVGGLK	Q6YP21 KAT3 345_349_358_363
3083	GRNERAKVCFG	O14879 IFIT3 150_159_143_143
3084	SPGYRCRSLSL	Q8N9P0 YF006 11_19_6_7
3085	PRRADTGHAFL	Q9Y618 NCOR2 1951_1952_1960_1968
3086	RGELRGQVGLR	Q9H2X0 CHRD 638_645_655_657
3087	GVRAFCAILHR	Q8N3D4 EH1L1 1056_1058_1071_1078
3088	APSRRNRSSVL	O15042 SR140 247_255_257_258
3089	RGLKFLEAWGA	Q6ZS72 CS035 316_317_292_300
3090	RAISNFNTTLKP	Q9H4K7 MTG2 242_246_256_261
3091	RPTQQAAKPRP	Q5T011 SZT2 2620_2627_2600_2602
3092	ARSYGKEKANK	P29074 PTN4 356_358_344_351
3093	IRRTGIPIGNR	O94952 FBX21 295_302_277_279
3094	RIREEGSIIGK	Q15365 PCBP1 38_42_26_31
3095	RADLYDAGVKR	A6NMY6 AXA2L 179_180_197_205; P07355 ANXA2 179_180_197_205
3096	GVKYQFRALKG	Q8WZ42 TITIN 16598_16605_16585_16587
3097	SRPGRGEPEFLR	P30511 HLAF 34_41_54_56
3098	LRRETDANLGK	Q96AJ9 VTI1A 185_186_168_176
3099	RRLQFSSGAPR	Q6X4T0 CL054 95_102_77_79
3100	RGVLKQVAEQF	P22695 QCR2 241_242_229_237
3101	GKRCKLANVFF	Q9Y5P8 P2R3B 451_451_459_468
3102	GRYTADGKIRF	Q9Y296 TPPC4 73_80_96_98
3103	FEELSQLLVVI	Q5JUK3 KCNT1 327_330_308_314
3104	LKIGEYGLRNK	P46781 RS9 29_30_32_40
3105	PLRGPRQNSRL	Q9BSV6 SEN34 49_50_38_46
3106	RRIQDAGLLPR	O75962 TRIO 2186_2188_2175_2182
3107	VEKDKSYDSLL	Q8IYD8 FANCM 1898_1901_1916_1922
3108	RPRDTAMTQII	Q6UX01 LMBRL 381_383_386_393
3109	NKGYRRIPSL	Q86YW0 PLCZ1 579_587_594_595
3110	RRQAMPFKCMG	P50914 RL14 46_55_40_40
3111	QIAWVQLVSQR	Q96KS0 EGLN2 239_243_223_228
3112	RSFQSKSGYLR	O76075 DFFB 165_166_149_157
3113	VRFDAFDQRGK	Q5JVS0 HABP4 227_228_205_213
3114	PEKSQRERALK	P51955 NEK2 293_297_316_321
3115	PRRQTPFAEKL	Q8WXG6 MADD 517_518_534_542
3116	RYYRPGTVALR	P68431 H31_54_55_42_50; P84243 H33_54_55_42_50; Q16695 H31T 54_55_42_50; Q6NXT2 H3C_53_54_41_49; Q71DI3 H32_54_55_42_50
3117	PRQGKGRWQQL	Q9BU23 LMF2 68_69_49_57
3118	PRSEEAIRREL	Q8N819 PPM1N 330_331_333_341

3119	LRRDLNDEINK	Q9ULR0 SY1 81_82_71_79
3120	RRMEELHNEMQ	P23246 SFPQ 547_554_556_558
3121	RVYWSTTDAKR	Q03164 KMT2A 2053_2061_2063_2064
3122	SKGILVGVGAL	Q9C0H2 TTYH3 235_242_255_257
3123	ALPAGPFPLLA	Q9HCC6 HES4 200_203_184_190
3124	LAKPSSAVLAL	Q6ZRI0 OTOG 1363_1368_1375_1379
3125	LSSSLSSQGNL	Q99698 LYST 663_669_655_658
3126	GIVGSRVVPLN	A8MX76 CAN14 96_99_118_124
3127	AAAGKLKSFAR	O75448 MED24 453_455_459_466
3128	GELKKVEDAAA	P54253 ATX1 585_592_564_566
3129	VGAARSELAKE	P31937 3HIDH 163_168_142_146
3130	RRNGLGQLGGI	O43166 SI1L1 957_965_972_973; Q9P2F8 SI1L2 954_962_969_970
3131	QTLKTGSQAIQV	A6NHR9 SMHD1 1007_1010_994_1000
3132	AASRLTSAIEH	O15063 K0355 127_135_122_123
3133	KRVSGACIGRI	Q9H3R0 KDM4C 818_825_799_801
3134	LGCCIVILAKQ	A6NHS7 MANS4 298_306_312_313
3135	LSLAALELIFA	Q96S82 UBL7 355_357_369_376
3136	PNLHTGSVETL	Q8NBF4 YG006 69_71_83_90
3137	AKLMLESTEVG	Q9NZN4 EHD2 391_394_402_408
3138	GVLDTSVLNIR	Q8N309 LRC43 318_325_315_317
3139	GVLDLLSSNRL	Q3SXY7 LRIT3 185_189_160_165
3140	GVETELEAVQR	O95248 MTMR5 842_844_864_871
3141	GVISIPLYCVF	Q9H3N8 HRH4 65_72_87_89
3142	RRWAGPAGALR	O75078 ADA11 5_8_26_32
3143	CAQPQRSVDVI	Q8N3S3 PHTF2 651_653_628_635
3144	RRAGALGTLRF	P29474 NOS3 627_628_639_647
3145	LGDHLGQPVQR	Q04912 RON 505_509_495_500
3146	VQTGCIEKLLQ	Q9BVA0 KTNB1 575_579_563_568
3147	FLKAGLDLEKK	Q8IUG5 MY18B 1319_1323_1304_1309
3148	SRFLPKGTKKT	Q9BYW2 SETD2 52_60_37_38
3149	RRYNGGVGRQCQ	P18621 RL17 61_70_54_54
3150	EPITKGEILKR	Q96M61 MAGBI 126_131_147_151
3151	RRDACELTQVP	Q9UIW2 PLXA1 543_548_566_570
3152	YALPQSGLIYY	A0AVI4 TM129 131_137_110_113
3153	RRSTSQSTTDY	Q5T5U3 RHG21 438_441_418_424
3154	RRVYLEGRCVG	P30443 IA01 180_189_191_191
3155	KRSYPHLITMA	P55317 FOXA1 163_168_178_182
3156	RRADGERSESR	Q71H61 ILDR2 442_446_458_463
3157	RSMSSRDPLNR	O75448 MED24 877_881_894_899
3158	GRRCKLEEMGF	Q92599 SEPT8 315_315_301_310; Q9P0V9 SEP10 336_336_323_332
3159	RAPNIHRHVIL	Q9BQ70 TCF25 550_552_554_561
3160	GLYGQKEIHKR	Q13283 G3BP1 44_45_56_64
3161	RRETDVIQSL	Q2MV58 TECT1 300_305_290_294
3162	SALQKKWILTR	O14646 CHD1 719_723_727_732; O14647 CHD2 722_726_730_735
3163	RKIRVSQPLTR	P58005 SESN3 25_26_30_38
3164	RRNTYVCTADR	P27448 MARK3 504_510_515_518
3165	PSKRDPKLYKK	Q9NR48 ASH1L 137_142_144_148

3166	RKLDIQEALKR	Q6STE5 SMRD3 130_132_142_149; Q96GM5 SMRD1 155_156_166_174
3167	TPRRPFEKSLR	P46781 RS9 15_23_37_38
3168	RRWLDGASFER	O95071 UBR5 320_328_302_303
3169	GARGYYRYYNK	P56134 ATPK 42_43_46_54
3170	RSMDEKFLLKR	Q5VT06 CE350 1850_1851_1853_1861
3171	IKEEQRPERVK	P13693 TCTP 92_93_104_112; Q9HAU6 TCTP8 92_93_104_112
3172	LRQPRKEFVEK	Q9Y6K5 OAS3 40_41_20_28
3173	QEEEEEASGSG	Q9UBS9 SUCA 582_589_597_599
3174	HVTDPAAEAL	Q6ZNJ1 NBEL2 2313_2316_2291_2297
3175	TYLSATCLSVV	Q9H1A4 APC1 1497_1501_1514_1519
3176	SKTPAPLQLT	Q8TAX0 OSR1 3_9_16_19
3177	IMGCTHDITI	Q9NQ89 CL004 450_452_461_468
3178	VKRVGDTLLLQ	Q9H9G7 AGO3 533_541_516_517; Q9HCK5 AGO4 524_532_507_508; Q9UL18 AGO1 530_538_513_514
3179	RTRSLSGLILK	O14787 TNPO2 54_54_62_71
3180	RIISAAVKKDR	P24593 IBP5 176_180_151_156
3181	ATLQGGKLKWR	Q9P2J9 PDP2 18_23_36_40
3182	GKRCVLKVHSF	Q9NNW5 WDR6 897_897_910_919
3183	ARWLVRPKSGL	Q8IZV5 RDH10 23_30_46_48
3184	KEIEKYSSSIK	Q6NSI4 CX057 537_540_518_524
3185	RKFHQAGLSLR	Q70EL2 UBP45 670_671_689_697
3186	KNDGCLLKRL	Q8N7P7 YH007 45_52_24_26
3187	LHKGEELSFRI	Q8N4X5 AF1L2 418_424_414_417
3188	LRRDPDSHIVK	Q96EK5 KBP 524_525_496_504
3189	GPPRPFEKSRL	P46781 RS9 33_33_16_25
3190	RKAQEDISRLR	O75150 BRE1B 917_918_908_916; Q5VTR2 BRE1A 891_892_882_890
3191	HREIVNTEIHK	Q86X52 CHSS1 335_339_346_351
3192	HSRPHRLLQQL	Q92837 FRAT1 221_223_199_206
3193	RPQEPRNRSLR	Q6ZNA4 RN111 358_366_375_376
3194	WRKKQSDVMYR	P61313 RL15 11_19_30_31
3195	PAAGTAAGGCAK	O60548 FOXD2 374_381_361_364
3196	VTSTSGSSGSSF	Q01546 K22O 512_522_526_526
3197	AHIPSGGAPael	Q96FN4 CPNE2 2_11_27_28
3198	EEEAGEEAGSSG	O75474 FRAT2 8_15_35_38; Q92837 FRAT1 8_15_35_38
3199	QSDLTSSSSHYPY	Q2LD37 K1109 4135_4143_4163_4165
3200	GAPAIALGCLSL	Q9BV20 MTNA 47_53_55_59
3201	PVRPAAAATAL	Q9UKJ3 GPTC8 1456_1457_1470_1479
3202	VALSSAGLKAIS	P41226 UBA7 349_355_373_377
3203	GVSSGLVRGGIQ	Q9NYQ6 CELR1 2775_2783_2770_2772
3204	SPRAPPLAGPAL	Q9UL51 HCN2 786_790_802_808
3205	GGASKERSGVSL	P16403 H12 29_30_50_59
3206	PSSSTPSVPLQG	Q13233 M3K1 986_994_1006_1008
3207	LPRGGSVLVTG	P05362 ICAM1 38_48_18_18
3208	GKAFFGRSSSSAL	Q86W11 ZSC30 419_426_397_400
3209	DASGTKLATAMI	Q9Y4P8 WIPI2 211_220_197_198
3210	LVVDNGSGMCKG	P60709 ACTB 8_18_20_20; Q562R1 ACTBL 9_19_21_21
3211	HSTRAVTEAAAA	Q8TCU4 ALMS1 3381_3388_3407_3410

3212	TPRPSGPGPSSF	Q96T58 MINT 3012_3012_3026_3036
3213	IGFGPDGTLLAK	Q9NQR4 NIT2 81_82_100_109
3214	GPDSSKTLCLG	Q14690 RRP5 1209_1219_1200_1200
3215	LVIDNGSGMCKG	A5A3E0 POTEF 708_718_720_720; P0CG38 POTEI 708_718_720_720; P0CG39 POTEJ 671_681_683_683; P63261 ACTG 8_18_20_20; Q6S8J3 POTEE 708_718_720_720; Q9BYX7 ACTBM 8_18_20_20
3216	APKEALAQCVLG	O75131 CPNE3 498_507_478_479
3217	PQLSGACVALLQ	P0C671 CF222 526_532_543_547
3218	PARIITGPAPVL	Q96PU8 QKI 212_213_227_236
3219	PTAAGDVRPITL	O00139 KIF2A 557_566_540_541
3220	SPRQISANASAL	Q14CZ7 FAKD3 404_410_424_428
3221	GLYTCIAGVTPK	Q9H3W5 LRRN3 492_498_485_489
3222	PSPPGSPRDPVK	P98095 FBLN2 383_385_374_382
3223	PLSSDAILSLEV	Q6GQQ9 OTU7B 435_440_415_420
3224	DLLLDGDGL GSL	O15085 ARHGB 435_442_427_430
3225	SKLNANSFPGTL	Q5TB80 CE162 1156_1158_1146_1154
3226	VYCGPLVQSSL	P51610 HCFC1 1951_1955_1960_1966
3227	RFTSSAVGKTSL	Q15669 RHOH 23_26_13_20
3228	AQAEPLWQAAAI	Q9NXH8 TOR4A 334_337_353_360
3229	PSQGWRNVLSAG	Q96PY6 NEK1 434_435_407_416
3230	SPRMSNQGIAVL	Q53GT1 KLH22 334_334_337_347
3231	YTGGGDQNYSGY	O14979 HNRDL 379_381_366_374
3232	NTCQDAIVGYK	P07737 PROF1 5_5_16_26
3233	PSLLTPDESAQE	H7BZ55 CROL3 249_255_268_272
3234	IPNGPIESIPSY	Q9HCJ2 LRC4C 139_142_159_166
3235	ESQSETAGSTKY	Q93008 USP9X 1843_1845_1855_1863
3236	APPERQVLPAVL	O15360 FANCA 737_742_757_762
3237	GVVCPVS DILYK	P54687 BCAT1 322_322_336_346
3238	YSVCVVADDGLY	Q5VU13 VSIG8 247_252_232_237
3239	IPDSSRQLDCLG	Q12769 NU160 1024_1033_1011_1012
3240	IGFPNEDGSQLQK	Q9NRV9 HEBP1 74_75_87_96
3241	SPALNKMFCQLG	P04637 P53 127_136_111_112
3242	GCTDLLNKANTY	O95198 KLHL2 160_160_170_180
3243	CELPN PRIEGATL	Q92830 KAT2A 653_659_646_650; Q92831 KAT2B 648_654_641_645
3244	SKSPNLSKHENL	Q86YQ8 CPNE8 102_110_91_93
3245	ISDNLHKMSNSL	Q9NPB8 GPCP1 191_194_179_186
3246	GVTECEKYAQLY	Q8IWT3 CUL9 1098_1098_1105_1115
3247	VAGFGGSSQGVY	A6NJ46 NKX63 77_82_84_89
3248	AGVATGAVVTIS	Q8N3G9 TM130 24_27_43_50
3249	GVSIGALGPTGR	O15270 SPTC2 358_359_348_357
3250	AASPSSRSAVSI	O95789 ZMYM6 406_408_380_388
3251	LNLAGSGISPRG	A6NKF2 ARI3C 357_365_342_344
3252	PRAPGKASGPLP	Q8WTP8 AEN 122_123_98_107
3253	GVPQE PSSVVG L	Q76N32 CEP68 218_218_232_242
3254	MVTGTGKG L SLL	Q9HCJ6 VAT1L 280_283_259_266
3255	PSLLGKDGRAAV	Q71F56 MD13L 869_871_844_852
3256	LGSPSSLPKTSI	Q8NA96 YE027 13_19_6_10

3257	GLAGRLPPAALR	P0DKB5 TPBGL 178_181_186_193
3258	GLPVLVVEVAIAL	O00192 ARVC 710_716_729_733
3259	PSRHPLSGCSAP	Q8TAI1 CR056 88_92_101_107
3260	RAGLSSAAVQPR	Q9HBU6 EKI1 19_28_6_7
3261	GARCTAGTLHNL	P35222 CTNB1 227_227_211_221
3262	PGRGGLNTSRSRSL	Q02080 MEF2B 212_213_219_228
3263	RTAFRAARAAAA	Q96JG8 MAGD4 125_128_115_122
3264	KGYGCVPVANK	O75391 SPAG7 173_174_188_197
3265	GKYGCVPVANK	O75391 SPAG7 172_172_187_197
3266	GKPACRPADSMML	Q9BTL4 IER2 184_184_203_213
3267	KLADMGIAALSR	Q9Y3I0 RTCB 451_458_433_436
3268	IGYNGMPNGIVN	P32321 DCTD 51_59_41_43
3269	AVYEGHVSCVKKG	P58546 MTPN 75_83_96_98
3270	LSKSLSCASSRI	Q9Y4J8 DTNA 303_313_333_333
3271	LKNLACGSNPLK	O60832 DKC1 56_58_72_80
3272	KSLDEQCVVGKG	O15162 PLS1 248_258_232_232
3273	LEEMGAKCVGLL	Q9UPW5 CBPC1 1123_1129_1131_1135
3274	GDVIEAMFRGGI	Q14146 URB2 264_266_237_245
3275	VYTGCAKSLPNI	Q86V20 FA35A 695_701_690_694
3276	VSGSRSPDRPSK	Q8N5F7 NKAP 4_12_30_32
3277	GIEARGEVAKW	Q9P031 TAP26 14_22_8_10
3278	SPNDKKSFCSIG	Q96SU4 OSBL9 611_621_599_599
3279	GRYEVAVPLCKG	Q07866 KLC1 227_237_248_248; Q9H0B6 KLC2 212_222_233_233; Q9NSK0 KLC4 225_235_246_246
3280	KPYSSKDSSPTL	O43166 SI1L1 1725_1727_1729_1737
3281	RGNMVANRALVL	Q53EV4 LRC23 253_259_273_277
3282	PKRRGCLAKDGL	Q9Y259 CHKB 33_36_16_23
3283	IRTNGSACFILK	Q13045 FLII 1059_1065_1085_1089
3284	CRIHRMLPAGGI	Q8IY37 DHX37 486_487_463_472
3285	PTHKPIESSSLK	P49792 RBP2 1809_1814_1795_1800
3286	SGLPYPTQQHSI	A6NJ64 NPIL2 241_245_265_271; A6NJU9 NPIL5 226_230_250_256; A8MRT5 NPIB5 226_230_250_256; C9JG80 NPIB4 226_230_250_256; E9PIF3 NPIA2 245_249_269_275; E9PJ23 NPIB6 244_248_268_274; E9PJI5 NPIA7 226_230_250_256; E9PKD4 NPIA5 226_230_250_256; E9PQR5 NPIB8 244_248_268_274; F8W1W9 NPIB9 241_245_265_271; F8WFD2 NPIA3 226_230_250_256; O75200 NPIB7 226_230_250_256; P0DM63 NPIA8 226_230_250_256; Q92617 NPIB3 226_230_250_256; Q9UND3 NPIA1 226_230_250_256
3287	APRRPTQGTVT	Q8TAU3 ZN417 5_10_12_17
3288	KDRSLDAKISSL	Q68CZ6 HAUS3 332_335_310_317
3289	GKLCEGFNEVLK	Q9Y6H1 CHCH2 129_129_132_142
3290	NNIGGIRKGYEK	Q96PR1 KCNC2 602_604_589_597
3291	PSRNLQPQRAAL	Q6ZS81 WDFY4 1020_1021_1009_1018
3292	GYTLSSRSHSIF	Q9P2E2 KIF17 199_202_207_214
3293	KCTIESIFPGFK	Q92800 EZH1 82_92_62_62
3294	GDFILNNIMALY	Q16531 DDB1 918_922_907_913
3295	PSRNQQLHTVTL	P32519 ELF1 457_458_434_443
3296	LMIRSEAPHQTI	Q9GZV9 FGF23 73_78_64_69
3297	HPAPEENLRLQY	Q9HD67 MYO10 1820_1826_1833_1837

3298	PTAGSVGGGMLL	Q9UPU9 SMAG1 582_591_561_562
3299	AGIRRPEGGGAA	Q12946 FOXF1 41_47_21_25
3300	PQGFIGATGTLG	Q6ZT12 UBR3 319_319_329_339
3301	HPAAPPGGRPAT	Q6NUN9 ZN746 443_452_456_457
3302	GVGHPPSAGAER	Q66K74 MAP1S 389_391_399_407
3303	GREGPPGRTGEG	P39060 COIA1 959_968_943_944
3304	PFGSLRPLGAA	P49640 EVX1 299_306_287_290
3305	PRSGGAPVSELD	Q9NX00 TM160 28_33_51_56
3306	TSPSVTPTPSTL	Q8WXE0 CSKI2 841_849_821_823
3307	AVRCGSSHKGPGV	Q9BVI0 PHF20 575_576_578_587
3308	SPSLICVYGPGD	Q6ZNI0 GCNT7 376_379_362_369
3309	RPRLGATCLGLG	O95881 TXD12 4_12_29_31
3310	GPGGRSPGSWLF	P58335 ANTR2 26_29_9_16
3311	GGSQE FMLPVG	P06733 ENO A 155_157_166_174; P09104 ENO G 155_157_166_174; P13929 ENO B 155_157_166_174
3312	KDSGGIVNLELV	Q9NYL2 MLTK 422_426_435_441
3313	GRAGDCARSSLR	Q8WXH2 JPH3 521_530_547_548
3314	QPAAPSRGQPQEL	P78325 ADAM8 734_736_718_726
3315	TSIIAESLDAIK	O75899 GABR2 139_146_119_122
3316	PEKPDPAQKPPS	P58012 FOXL2 46_54_31_33
3317	SPRAQREVSCGI	Q05823 RNSA 398_407_378_379
3318	REASSAESVSQR	P48552 NRIP1 1091_1101_1082_1082
3319	QLRGTRALDGLI	O14764 GBRD 18_24_44_48
3320	RETEEGGSSKSR	Q96CF2 CHM4C 30_34_11_17
3321	LQRSGSRAVELL	Q9HAP6 LIN7B 24_28_15_21
3322	LLRTGYTQAHSI	O95835 LATS1 922_929_907_910
3323	HLDPNNSGRCFYG	Q9BRR9 RHG09 222_232_207_207
3324	RVVVSPADSPFR	Q9UP52 TFR2 712_713_721_730
3325	PRYGSDKPWPSL	Q8N5F7 NKAP 87_88_108_117
3326	RVVSPPEWGRSA	P11309 PIM1 296_303_311_314; Q86V86 PIM3 208_215_223_226
3327	RVYHSTPSDLRS	Q0VG06 FP100 357_364_370_373
3328	GVPGGFMGPRGL	Q02388 CO7A1 2605_2608_2617_2624
3329	AGLVFLAAVSGR	Q8NE01 CNNM3 229_234_241_246
3330	RGDGPSGKDGPK	P02458 CO2A1 932_934_921_929
3331	GTVIAGRLRAVS	Q8NGR3 OR1K1 254_258_234_240
3332	GDRSGISLENGV	Q8TDM6 DLG5 758_760_730_738
3333	RTAAPTTAPLRG	Q96L91 EP400 1487_1494_1501_1504
3334	TISGRMASVDAI	O00154 BACH 291_296_273_278
3335	SVISLATKCALK	Q7Z5K2 WAPL 677_686_665_666
3336	SPVVHSVLLTLS	Q8IZF4 GP114 408_415_422_425
3337	QTVVAGQRAVTK	Q96J84 KIRR1 30_39_54_55
3338	CPHLSPAFAFSSF	O75360 PROP1 153_154_137_146
3339	ALKDNLALARKE	Q9Y276 BCS1 9_13_29_35
3340	GKAITMPSPYGR	Q02880 TOP2B 1213_1216_1233_1240
3341	LPGKLCRLAKGE	A8MUH7 PDZ1P 281_283_260_268; Q5T2W1 NHRF3 398_400_377_385
3342	IVRTGGHFICKG	Q8N1G2 CMTR1 394_404_415_415
3343	RLADKSVLVCKG	Q15021 CND1 412_422_411_411

3344	PVDAPNPQNLK	Q9UDY8 MALT1 427_433_443_447
3345	EAARESHPHGVK	O00193 SMAP 28_28_3_13
3346	GVRCLNVGLIRK	Q9NWZ3 IRAK4 31_31_11_21
3347	PNVIHQKGCTIK	Q9UKR8 TSN16 195_203_210_212
3348	APRPTRPDKAQL	P61313 RL15 39_48_32_33
3349	PSRTPTPKHAL	P10242 MYB 491_492_465_474
3350	RPSIYSGPAKQR	Q8NAT2 TDRD5 108_115_92_95
3351	KPDFKRSIVCGL	Q8N5C6 SRBD1 903_912_888_889
3352	GSIMKCDVDIRK	P60709 ACTB 268_268_281_291; P63261 ACTG 268_268_281_291; Q562R1 ACTBL 269_269_282_292
3353	ARVKEVEEMCKG	Q13315 ATM 2150_2160_2180_2180
3354	QTWTVVDAKTLK	P13010 XRCC5 269_269_275_285
3355	LYKENAMKLSTV	P06133 UD2B4 437_446_431_432
3356	ELVLKEDFILPD	Q15276 RABE1 679_683_666_672
3357	LRYEQLPEVQKK	Q8TCU4 ALMS1 4146_4147_4122_4131
3358	AAVGTSVSVTH	Q9NYQ7 CELR3 769_779_762_762
3359	ELSPGDEAITAI	Q9BRQ3 NUD22 24_27_37_44
3360	RLAASSSKAVAR	Q9C0C2 TB182 1442_1442_1460_1470
3361	AASVKGRNSLRA	P01769 HV308 61_67_84_88
3362	RAPSGGLRSALR	Q5TZA2 CROCC 1448_1451_1434_1441
3363	RLASMLVAMAIA	Q96HP0 DOCK6 1191_1196_1214_1219
3364	VAVRVGCLTQLP	Q3SYG4 PTHB1 331_338_324_327
3365	PARRGRGSSTVL	Q96HE8 TMM80 19_20_30_39
3366	RPRRGQPGAASL	Q6ZMN8 CCNI2 77_81_61_67
3367	RSSSSQAIVHPV	Q96D71 REPS1 427_432_449_454
3368	GYRCGESGHLAK	P62633 CNBP 35_35_55_65
3369	PGRGARRLLALV	Q9NS67 GPR27 263_271_254_256
3370	GIVRIFCGKQIG	O43900 PRIC3 172_177_189_194
3371	VPNETIIVTSQP	Q9H2W1 M4A6A 6_13_2_5
3372	GRFEVGKKICLG	Q9Y385 UB2J1 82_92_96_96
3373	YRRMGGPGTASR	P08670 VIME 11_14_16_23
3374	LMRGRAEKALAL	Q04323 UBXN1 39_40_17_26
3375	RERPELPEGPVG	Q8N6L0 KASH5 18_22_3_9
3376	GFTFLSEANLLK	Q86YG4 NT5D4 94_101_78_81
3377	PRSGAKQSRLML	Q86T82 UBP37 48_49_65_74
3378	SPSKEKKESSLK	Q8IZX4 TAF1L 543_547_549_555
3379	KPSSPREVKAEK	Q9UK58 CCNL1 339_348_350_351
3380	PDINIDLEKSLR	P19447 ERCC3 304_310_321_325
3381	GKRCQYVTEKVL	P04075 ALDOA 182_182_200_210; P09972 ALDOC 182_182_200_210
3382	PSRSSSRMEERL	Q8WXI9 P66B 121_122_137_146
3383	GLGWRSYKHVSR	P06401 PRGR 762_772_788_788
3384	VGARDRFELLQR	Q12851 M4K2 22_24_13_21
3385	SRVYWSTTDAKR	Q03164 KMT2A 2052_2061_2063_2064
3386	RPRLTSNEKLYP	Q9Y296 TPPC4 100_109_92_93
3387	GVSTLKSGIGAV	Q8NEZ4 KMT2C 923_926_912_919
3388	PAVTSLPQAASK	A8MX19 F90AC 263_268_241_246
3389	FSGVALFGTVAI	Q13491 GPM6B 45_51_61_65

3390	VKLRDGIPGAVV	P59817 Z280A 181_189_194_196
3391	DKVGNLLKGGSF	O00444 PLK4 11_11_13_23
3392	FSSADRATALSL	Q07075 AMPE 650_655_640_645
3393	PRRREGGPPGGL	A6NC98 CC88B 1308_1309_1327_1336
3394	ILLSLASIIIVV	Q9NRS4 TMPS4 24_24_40_50
3395	PAVWAGVLAQSR	Q9BYT1 S17A9 239_243_216_222
3396	IYALGCFDVLA V	Q53HC5 KLH26 510_514_523_529
3397	GIQQAGMNLEAR	P04150 GCR 499_501_483_491
3398	GRRCGNNPLIGR	O60306 AQR 1232_1232_1243_1253
3399	AGRIEHLIGKKL	Q9H0S4 DDX47 357_358_377_386
3400	KPRPLHKTC SGL	Q9BX P5 SRRT 413_422_409_410
3401	VRHSFILILGNS	Q7RTR8 T2R42 296_297_280_289; Q9NYW0 T2R10 252_253_273_282
3402	QLLVGSVRRILC	Q6ZU69 F205A 116_120_93_99
3403	QLQEKKKEKSGVI	Q86UP2 KTN1 333_337_309_315
3404	KIEGAIDRPERK	P19174 PLCG1 68_74_45_49
3405	RLRGLLREATDL	Q9ULE0 WWC3 1017_1025_1006_1008
3406	RLRSTSNSRRSP	Q9Y252 RNF6 302_310_312_314
3407	IAYQKKLCKFG	P14209 CD99 146_156_129_129
3408	RKFDFEQVTVKK	Q8WYQ5 DGCR8 473_474_448_457
3409	GVIGSQKGNIVV	Q9UNX4 WDR3 17_27_11_11
3410	IVTIGYVLAVAV	Q9UPY5 XCT 276_283_302_305
3411	GVRIINGLKT VG	Q86WA8 LONP2 403_404_424_433
3412	LCASLSNNAPLF	Q9Y613 FHOD1 210_215_235_240
3413	KLEEILDAPQGV	Q6PGN9 PSRC1 73_79_58_62
3414	GRVCSNRHGLIR	P62273 RS29 2_2_22_32
3415	RRLDTVRSICHG	Q68EM7 RHG17 34_43_58_59
3416	RIKFSDDRVCKG	Q9Y383 LC7L2 27_37_16_16
3417	PSDGRRSRYVRL	Q9NR96 TLR9 999_1000_974_983

## GR-LCL EThcD 2D – non-spliced peptides

#	sequence	origin
1	SPAPPPAV	Q14814 MEF2D 450_458
2	SPLPAGNAL	Q86SX3 CN080 62_70
3	SPQSPGDAL	Q96KR1 ZFR 960_968
4	PPGPPMAPL	Q8N693 ESX1 340_348
5	APVPPPTSL	Q9NTJ4 MA2C1 660_668
6	SPLPSPSAM	Q8WXI9 P66B 334_342
7	SPAPTTSL	Q7Z6Z7 HUWE1 2826_2834
8	APSPLQPAL	Q9BW85 CCD94 218_226
9	NPASPLSL	Q13155 AIMP2 127_135
10	APALPGPQF	Q16633 OBF1 197_205
11	APAPPPEEV	Q8IVF7 FMNL3 507_515
12	APAPVQPPM	O14497 ARI1A 1626_1634
13	IPPPPPPAM	Q9NTJ3 SMC4 65_73
14	TPLSSTVTL	P12004 PCNA 219_227
15	SPQSNSPVL	Q96FZ2 HMCES 45_53
16	YPAAVPQAL	Q9H0Z9 RBM38 207_215
17	PAELGPQLL	Q9NX08 COMD8 16_24
18	FGSVKIAAF	Q5SR56 HIAL1 285_293
19	SPQAPTLQV	Q12772 SRBP2 106_114
20	TPIQGTSEL	Q13761 RUNX3 231_239
21	SPFPTSTPL	Q13111 CAF1A 310_318
22	APAQPQPQL	Q9UIF9 BAZ2A 1229_1237
23	SPQQVSAQL	Q2TAL8 QRIC1 111_119
24	LPAPPTQNM	O75177 CREST 75_83; Q15532 SSXT 75_83
25	CPEGTKPML	Q9H7B2 RPF2 135_143
26	ATETQPIVY	Q00610 CLH1 1626_1634
27	LSEPSSLQY	P04035 HMDH 503_511
28	SVDPTQTEY	O75534 CSDE1 607_615
29	QTDPVTLQY	Q9BYK8 HELZ2 612_620
30	NLDPLTETY	P61599 NAA20 19_27
31	TTEVVNELY	Q969X5 ERGI1 49_57
32	DSDMQTLVY	Q9UID3 VPS51 101_109
33	FTEEQAVLY	Q9UHB9 SRP68 225_233
34	KRHRIQFKY	P11388 TOP2A 632_640
35	LLGPIGAGK	Q8TCB0 IFI44 191_199
36	AVAPPAGPR	Q6SPF0 SAMD1 189_197
37	AVRIPGGPA	P09958 FURIN 35_43
38	APPGVRGAL	Q9UGQ3 GTR6 161_169
39	GPRPAAIAV	P11166 GTR1 398_406
40	APGGGRLLL	Q68E01 INT3 30_38
41	SPAGLKAVL	Q6P9B9 INT5 681_689
42	VPKVVGSAV	Q9Y5A9 YTHD2 203_211
43	SPSGKPATL	P27695 APEX1 54_62
44	AARAVTGVL	Q9UG63 ABCF2 69_77

45	LPGSGKSTL	P09543 CN37 58_66
46	SPSGAMSNL	Q8NFD5 ARI1B 1300_1308
47	KPGAPLPAL	Q6UXT8 F150A 5_13
48	LPAPKGAL	Q92733 PRCC 42_50
49	GPAPSRPAL	Q8TDD1 DDX54 620_628
50	APRPPVSAA	Q8TF74 WIPF2 122_130
51	APAGPRLAL	Q5FWE3 PRRT3 496_504
52	SPGPSRPGL	Q92888 ARHG1 10_18
53	APIAKVGVL	Q9UHB6 LIMA1 496_504
54	APGPPGRSM	Q8IY67 RAVR1 298_306
55	GPADRAAVL	Q8IW40 CC103 156_164
56	ALLSPGSPK	Q9H9L7 AKIR1 16_24
57	LARPASAAL	P40926 MDHM 5_13
58	VLGGVLGQK	O60266 ADCY3 420_428
59	ITGPNMGGK	P20585 MSH3 894_902; P43246 MSH2 667_675
60	TPSAGKAML	P46013 KI67 1167_1175
61	VIFTGGVGK	Q9Y6K0 CEPT1 268_276
62	APASPADHL	Q6WKZ4 RFIP1 877_885
63	SPGPSRPAL	Q9H211 CDT1 391_399
64	APILRAAGL	P0CG12 CTF8A 276_284
65	VPNAGRGLV	P27695 APEX1 172_180
66	SPSPLRAGV	A6NED2 RCCD1 31_39
67	SPAEKAGLL	O14745 NHRF1 46_54
68	AARPATSTL	Q04637 IF4G1 1112_1120
69	SPGPPAPHM	Q86SX3 CN080 149_157
70	APIGVHPSL	Q9Y4C2 F115A 90_98
71	TPRPPGPGL	Q8NEZ4 KMT2C 2275_2283
72	RPAPLPAAV	Q6ZRI6 CO039 658_666
73	GVSAAATFLK	B5ME19 EIFCL 190_198; Q99613 EIF3C 190_198
74	GVRPPAPSL	Q92673 SORL 1840_1848
75	APSSPRPAL	P05362 ICAM1 2_10
76	VPRLPATAA	Q01581 HMCS1 500_508
77	SPALPGLKL	O14836 TR13B 147_155
78	GRAPVLVAL	O75365 TP4A3 109_117; Q12974 TP4A2 106_114; Q93096 TP4A1 109_117
79	ILAAPGILK	Q9NRW4 DUS22 168_176
80	SPTHPSSL	P98175 RBM10 541_549
81	GLGEPLALK	Q8IXM6 NRM 176_184
82	SPASPKISL	Q8WWM7 ATX2L 493_501
83	APRTVALTA	P04440 DPB1 9_17
84	TPAARISAL	Q9NXR1 NDE1 246_254
85	TIAPALVSK	P06733 ENO A 72_80
86	SPAKNPSSL	Q9GZR7 DDX24 60_68
87	SPAIGRTSI	Q9C0D2 K1731 1856_1864
88	KPLGPTAAF	O60331 PI51C 467_475
89	SPSLSGLKL	P49643 PRI2 170_178
90	SVLGISTPK	Q8N128 F177A 123_131
91	IVAGSLITK	O75400 PR40A 225_233

92	PVAPAVPPR	Q96SQ7 ATOH8 79_87
93	TPAPPHTHAL	Q5SXM2 SNPC4 1152_1160
94	TPSGDKTSL	P08133 ANXA6 535_543
95	SLFGSPVAK	Q9ULH7 MKL2 859_867
96	TPHAVGVLL	Q9UBM7 DHC7 334_342
97	SAIASTKVM	Q9NVT9 ARMC1 198_206
98	PSVPSHADV	P0CB46 CASPG 70_78
99	SPKPNGPVL	O15164 TIF1A 523_531
100	PAAGPQRVL	Q9NQ31 AKIP1 63_71
101	TPSPARPAL	Q9H211 CDT1 29_37
102	GPAPRVLSL	P49750 YLPM1 1668_1676
103	APGVRAVEL	Q9Y508 RNF114 72_80
104	IPEAGKALL	Q70J99 UNI3D 484_492
105	APASRLLAL	Q96S16 JMJD8 72_80
106	IIAIPTGVK	P00395 COX1 311_319
107	APKPQGPAF	Q99704 DOK1 422_430
108	APSARQGIL	O00750 P3C2B 1011_1019
109	NPASKVIAL	P53675 CLH2 74_82; Q00610 CLH1 74_82
110	KPVSLGQAL	O60341 KDM1A 404_412
111	VPAEARTGL	Q9H089 LSG1 83_91
112	IPKSAVGEL	P05107 ITB2 337_345; P26010 ITB7 363_371
113	VPRVLGSSV	Q07021 C1QBP 8_16
114	VPIATTAKL	Q9H2M9 RBGPR 1352_1360
115	GPASRVSQ	Q9H7N4 SFR19 1073_1081
116	TPMPGPGRTV	O00214 LEG8 193_201
117	TPSSRPASL	Q96S82 UBL7 248_256
118	TPTTGRAVL	Q9BV44 THUM3 435_443
119	IISSPLTGK	Q9P275 UBP36 461_469
120	LPKTGTVSL	P49327 FAS 925_933
121	KPMEAASAI	Q9BVP2 GNL3 332_340
122	LTRPGSSSL	Q9HB19 PKHA2 315_323
123	SPRIATTAA	Q14980 NUMA1 2087_2095
124	SPASRSISL	P32970 CD70 134_142
125	APNFKATAV	Q06830 PRDX1 12_20
126	APSLKNAAF	P24539 AT5F1 14_22
127	SLGVAALYK	P09669 COX6C 30_38
128	VPATPRLPA	Q15035 TRAM2 331_339
129	APAPRPSLL	Q92620 PRP16 41_49
130	APSPPLRAL	Q14674 ESPL1 328_336
131	SPLSSHVV	Q8WUX9 CHMP7 170_178
132	APVAPHFAL	Q8WU76 SCFD2 161_169
133	SPAPTHNSL	P49327 FAS 2326_2334
134	SVASPFTSK	Q4VNC0 AT135 873_881; Q4VNC1 AT134 871_879; Q9H7F0 AT133 906_914
135	SPRPVALAL	Q8N201 INT1 1372_1380
136	APLPDGRSL	Q15648 MED1 380_388
137	IPAEGRVAL	Q9UBQ7 GRHPR 15_23
138	APDVARALL	O00468 AGRIN 1216_1224

139	APAPSTVHF	Q13118 KLF10 111_119
140	ITDSAGHIL	P49755 TMEDA 76_84
141	ILGPNLGDK	Q8NB66 UN13C 2089_2097
142	VPVAKTAEL	P49790 NU153 551_559
143	VARPLSTAL	O14561 ACPM 28_36
144	LPRSSAVVV	Q14669 TRIPC 512_520
145	IPLLGKSSL	Q9NYP3 DONS 544_552
146	APSMVHSSL	Q16649 NFIL3 370_378
147	SPGPEKMAL	O75995 SASH3 120_128
148	SPIEKSGVL	Q8NG31 CASC5 837_845
149	GPSVLRSTL	O75376 NCOR1 1455_1463
150	ALPALVMSK	P36578 RL4 132_140
151	LAKDGVTLT	P27816 MAP4 558_566
152	AARVVLTLSL	Q16690 DUS5 104_112
153	LPQKAGGFL	P00558 PGK1 181_189
154	SPAPPPLLHV	Q8N163 CCAR2 124_132
155	SPESVKATL	Q96JM3 CHAP1 214_222
156	SPMVAKSTL	P23921 RIR1 113_121
157	LPASPAHQL	Q8TEK3 DOT1L 998_1006
158	APGLIKTSF	P0CG22 DR4L1 214_222; Q9BTZ2 DHRS4 211_219
159	VPVPHTTAL	P15291 B4GT1 117_125
160	TPDAMKAAM	P02792 FRIL 93_101
161	ALFDGVVSK	Q8N442 GUF1 274_282
162	APKPVQALL	Q9UGK8 SRGEF 374_382
163	VPKTASTSF	Q7LGA3 HS2ST 81_89
164	SPEVPKPAL	Q2NKJ3 CTC1 753_761
165	APSPRPLSL	Q6NUT3 MFS12 11_19
166	VISPPTPVK	Q9H9Y6 RPA2 81_89
167	APIRSPALI	Q6P9A2 GLT18 323_331
168	TPSKPPAQL	P18887 XRCC1 257_265
169	LPHSATVTL	Q8WUA7 TB22A 168_176
170	APNSRPALL	P55011 S12A2 797_805
171	APRQPGLMA	Q5T1J5 CHCH9 49_57; Q9Y6H1 CHCH2 49_57
172	SPGQRRAVLL	Q12772 SRBP2 1098_1106
173	APAQRAQSL	Q63ZY3 KANK2 349_357
174	LPAGSRVEL	P20023 CR2 672_680
175	TPAVGRLEV	Q53HL2 BOREA 171_179
176	LPKISPSSL	Q9Y4E8 UBP15 238_246
177	VPRSASVLL	Q9Y3Q3 TMED3 5_13
178	AVSTPNTPR	Q9Y5W7 SNX14 552_560
179	VVKNVGLTL	Q14289 FAK2 909_917
180	SPITARDAL	Q7Z5L2 R3HCL 688_696
181	IPMTGKPSL	Q9H9Y6 RPA2 598_606
182	ALSTPVVEK	P29084 T2EB 16_24
183	VPISKSEAL	Q8IX18 DHX40 383_391
184	VTDAVALRV	O43427 FIBP 29_37
185	AARAIISEL	P78344 IF4G2 647_655

186	SPSGTILRL	Q5T5C0 STXB5 846_854
187	APLLRGAVF	P49815 TSC2 289_297
188	TPKMPGQSV	Q8WYP5 ELYS 1764_1772
189	APSRNGMVL	P26373 RL13 2_10
190	LPSQKTASL	Q14684 RRP1B 585_593
191	VIFVGANPK	P0C7U1 ASA2B 59_67; P0C7U2 ASA2C 516_524; Q9NR71 ASAH2 674_682
192	SPVRPAATF	Q9Y618 NCOR2 1913_1921
193	MVFGAPVPK	A6NHR9 SMHD1 1889_1897
194	SPRVVSTSL	Q9Y6D5 BIG2 80_88
195	SPLTKSISL	Q12802 AKP13 1683_1691
196	YAVSELAGH	P36578 RL4 52_60
197	TLFASPLAK	Q96HA1 P121A 104_112
198	IVFVTGNNAK	Q9BY32 ITPA 10_18
199	ILGPMFSGK	P04183 KITH 24_32
200	APRVPVQAL	O75179 ANR17 744_752
201	ASELKALGY	Q12996 CSTF3 538_546
202	ATSKVALVY	P06576 ATPB 261_269
203	PAPLSLLIK	Q8N2C7 UNC80 1570_1578
204	GRAPQVLVL	Q9NR30 DDX21 258_266
205	APPVSKSSM	Q6ZSR9 YJ005 146_154
206	APEERPAAL	Q96BI1 S22AI 145_153
207	IPVSSHNSL	Q06413 MEF2C 147_155
208	IPAGERPTI	Q96MX3 ZNF48 185_193
209	GTAQLTLLH	Q2VPB7 AP5B1 317_325
210	KPAESLPVI	Q8IWX5 SGPP2 302_310
211	ITAPPSRVL	O00767 ACOD 20_28
212	GPTEGRPQL	O15235 RT12 50_58
213	VPQPSGRTL	O95644 NFAC1 568_576
214	IPANSSRPL	Q9NYZ3 GTSE1 340_348
215	VPISKAVQL	Q9UBK8 MTRR 303_311
216	TPRPTAAEL	Q9BSJ8 ESYT1 769_777
217	MPSPVSPKL	Q9UHB7 AFF4 1053_1061
218	VPSKPPMSL	Q6AI12 ANR40 223_231
219	IPAKPPVSF	Q6PKC3 TXD11 92_100
220	KPLSSLTPL	O75914 PAK3 538_546; Q13153 PAK1 525_533; Q13177 PAK2 504_512
221	AVILRALSL	P20036 DPA1 12_20
222	VPATDRNAL	P60228 EIF3E 158_166
223	ATDPNILGR	P78527 PRKDC 4111_4119
224	SPSLPSRTL	O75140 DEPD5 503_511
225	LPSTRLGTL	Q7KZF4 SND1 772_780
226	APARGLLL	Q9UBP0 SPAST 373_381
227	ATEQPLTAK	Q9H173 SIL1 278_286
228	ILNVSAVDK	P11142 HSP7C 485_493
229	NVRATTAL	Q13571 LAPM5 16_24
230	SVAQLLLSK	P29375 KDM5A 796_804
231	NPMKAGTQL	P06756 ITAV 715_723
232	SPNSKVNTL	P40939 ECHA 56_64

233	IPKFAVATL	P28072 PSB6 228_236
234	EPCNGRTAL	P25963 IKBA 213_221
235	VPRPPSNPP	O43734 CIKS 387_395
236	VNVVPTFGK	P62861 RS30 43_51
237	KPANVFITA	Q8TDX7 NEK7 163_171; Q9HC98 NEK6 174_182
238	LPYKAGLSL	Q96P48 ARAP1 868_876
239	LPRPVPLVA	Q9H1C4 UN93B 399_407
240	LPRLPVPAV	P50416 CPT1A 171_179
241	IPKPLNPAL	P62952 BLCAP 13_21
242	FPSPSKTSL	Q86XL3 ANKL2 257_265
243	STFSAPLNU	Q9H6R7 CB044 449_457
244	ATAVAQLYK	Q14CZ0 CP072 67_75
245	GTYYVSSVPR	P06340 DOA 242_250
246	SPHVQSVI	O94915 FRYL 212_220
247	SPAPPQEKL	O75376 NCOR1 1981_1989
248	SPEAPKPQL	Q4KMP7 TB10B 97_105
249	FPVLPGSHL	Q07864 DPOE1 2087_2095
250	SPRAPVQVI	Q9BRP4 PAAF1 310_318
251	LPKPVNTSL	Q5VT52 RPRD2 429_437
252	VPSEPKLSL	Q6L8Q7 PDE12 43_51
253	TPRSPVVTI	P46199 IF2M 177_185
254	ALSNPILNK	Q6PIW4 FIGL1 268_276
255	TPISRLVAL	Q9H765 ASB8 186_194
256	SLSPVILIK	Q9Y4K1 AIM1 1050_1058
257	VPESIKNAL	O95861 BPNT1 298_306
258	SPRVTVQL	P0C5J1 F86B2 218_226; Q8N7N1 F86B1 184_192; Q96G04 FA86A 218_226
259	SSYPNPVAH	O75153 CLU 850_858
260	KPMLPPAAF	P28360 MSX1 243_251
261	LPDSDKAIL	Q9BXL7 CAR11 294_302
262	SPIVARTDL	Q5JSH3 WDR44 96_104
263	VPAEPKLA	P18124 RL7 83_91
264	MPRGVVVT	Q9ULT8 HECD1 851_859
265	FASHVSPEV	Q9NP61 ARFG3 152_160
266	SPSKPNPVF	Q16656 NRF1 136_144
267	FPNIPGKSL	O15121 DEGS1 265_273
268	ITSPVVTQK	P04035 HMDH 354_362
269	TPMPSRPST	P27816 MAP4 892_900
270	SPWADNTAL	P57076 CU059 267_275
271	VPRSSSMVL	Q9H992 MARCH7 124_132
272	IPTSARSML	Q8WXI9 P66B 522_530
273	TPSEPHPVL	Q9Y5A9 YTHD2 381_389
274	SIFVPGTQK	Q9BUB4 ADAT1 114_122
275	IINSSITTK	P49368 TCPG 155_163
276	SMNANTITK	O43290 SNUT1 792_800
277	ATYPMPTAK	O75179 ANR17 2027_2035
278	RPAAIPIEI	Q9Y2H1 ST38L 394_402
279	LPHTVLTSL	Q9BY78 RNF26 46_54

280	PTSPKPLLQ	Q5VZK9 LR16A 1252_1260
281	IPISLHTSL	Q5JSZ5 PRC2B 1959_1967
282	NVRPPNTAL	Q17RS7 GEN 767_775
283	VPRLPGETL	Q13496 MTM1 35_43
284	IVYPPPPAK	Q9GZR1 SENP6 655_663
285	QPAPTPLKM	P36956 SRBP1 101_109
286	IPSIRNGIL	Q93008 USP9X 1578_1586
287	VPNNKITVV	P07195 LDHB 19_27
288	TPSSHTLEL	Q17R98 ZN827 75_83
289	LPNGTRVPM	P11309 PIM1 171_179
290	GVRPSPMQL	O00764 PDXK 281_289
291	ARLQTALLV	Q9NRC6 SPTN5 739_747
292	LPKTTAEL	P18583 SON 364_372
293	APASPFRQL	Q07021 C1QBP 23_31
294	APKSQIVML	Q8TCS8 PNPT1 221_229
295	SPSFPRPSL	Q92610 ZN592 1052_1060
296	LVRDVVSSL	Q9NQ55 SSF1 117_125
297	AVYETPTAH	Q9H0E2 TOLIP 84_92
298	SPQGRVMTI	Q15365 PCBP1 173_181
299	FPQVGRTAL	P49682 CXCR3 207_215
300	KPSLPFTSL	P31785 IL2RG 3_11
301	SPQKTMSVL	Q12888 TP53B 1028_1036
302	APSLKQFSL	Q9UGJ1 GCP4 251_259
303	TLNGTMILK	O60759 CYTIP 162_170
304	SPKPPTSMF	Q99081 HTF4 213_221
305	SIAPRMMSV	P30876 RPB2 1166_1174
306	QSDPAPLQH	P29401 TKT 189_197
307	TVNSPAIYK	Q9Y3A2 UTP11 238_246
308	ARIPLNPVL	O15524 SOCS1 192_200
309	SPNAEIHL	Q14807 KIF22 543_551
310	IPKNNPPTL	Q9P289 MST4 231_239; Q9Y6E0 STK24 243_251
311	VPREPPVSL	Q8TEQ8 PIGO 90_98
312	QVQGPRPVVL	Q9UK96 FBX10 377_385
313	SIDSQLGY	P50416 CPT1A 490_498
314	QTDPATLLH	Q86X83 COMD2 166_174
315	SVRPVPLEV	Q8N3C0 ASCC3 1516_1524
316	APLLKNVQL	Q9BRS2 RIOK1 287_295
317	IPASNRLLL	Q2NKX8 ERC6L 247_255
318	QVRLPLGTL	O43148 MCES 448_456
319	SPQAPTHFL	P49773 HINT1 45_53
320	LPQEAKQAL	Q8NEB9 PK3C3 341_349
321	SPRDGVTL	Q86XL3 ANKL2 512_520
322	NPEINKAVL	O43402 EMC8 199_207
323	NPQLRSVAL	Q9H469 FXL15 113_121
324	IPRSITVLV	P33993 MCM7 249_257
325	APMTPKQIL	Q8IXJ9 ASXL1 27_35
326	LPRIQSTAL	Q13085 ACACA 836_844

327	VVNSYPLAH	Q9UHI6 DDX20 282_290
328	SPTLQRNAL	P54578 UBP14 302_310
329	APLQRSQSL	Q8WUA7 TB22A 160_168
330	LVMAPRTVL	P01889 B07 2_10; P30460 B08 2_10; P30462 B14 2_10; P30475 B39 2_10; P30480 B42 2_10; P30486 B48 2_10; Q29836 B67 2_10; Q31610 B81 2_10; Q31612 B73 2_10; Q95365 B38 2_10
331	VMAPRTVLL	P01889 B07 3_11; P30460 B08 3_11; P30462 B14 3_11; P30475 B39 3_11; P30480 B42 3_11; P30486 B48 3_11; Q29836 B67 3_11; Q31610 B81 3_11; Q31612 B73 3_11; Q95365 B38 3_11
332	AVYLLPVPK	P42694 HELZ 533_541
333	AVNGVQLHY	Q86WA6 BPHL 45_53
334	LPKNPSVVF	O94915 FRYL 2375_2383
335	GTMTGMLYK	O14925 TIM23 161_169; Q5SRD1 TI23B 161_169
336	TPAFPRSL	Q7LBC6 KDM3B 602_610
337	KPVYPGQTL	P51659 DHB4 565_573
338	CVKEIGLLK	Q9HC98 NEK6 90_98
339	ALFGQPPFK	P41252 SYIC 577_585
340	LTDPEAAKY	P04062 GLCM 335_343
341	TLDTKPGLY	Q8NEG7 DEN6B 374_382
342	AIIERTASF	Q12872 SFSWA 210_218
343	LLFSATMPK	Q9UJV9 DDX41 372_380
344	ALFLTLTTK	P00403 COX2 41_49
345	MHPVPITTL	Q6KC79 NIPBL 5_13
346	LTQPQVVAR	A8MWL6 SNG2L 21_29; O43760 SNG2 21_29
347	APAERQIDL	Q29RF7 PDS5A 1327_1335
348	LPSSRQLVL	O75165 DJC13 1826_1834
349	SVRPLVTEL	P57740 NU107 315_323
350	VMAPRTLLL	P04439 A03 3_11; P10314 A132 3_11; P13746 A111 3_11; P16188 A30 3_11; P16189 A31 3_11; P16190 A33 3_11; P30443 A01 3_11; P30455 A36 3_11; P30459 A74 3_11; P30512 A29 3_11; Q07000 C15 3_11
351	SPMSQRPV	Q9NSV4 DIAP3 1093_1101
352	GTDPTPQHY	P06241 FYN 31_39
353	TPMATRLLL	Q8WUM0 NU133 632_640
354	KVCNPIITK	P11142 HSP7C 601_609
355	APQRPLSTF	Q9Y242 TCF19 158_166
356	PTDPKVVVY	Q9Y4K1 AIM1 1215_1223
357	IPKQVSISF	Q96D46 NMD3 46_54
358	STMGYMMMAK	P08238 HS90B 615_623; Q58FF7 H90B3 488_496
359	IPNEIIHAL	P52272 HNRPM 189_197
360	KVANIILSY	Q96JI7 SPTCS 1273_1281
361	TPSPTRYSL	P49792 RBP2 779_787
362	IPMAKSYVL	Q96RL7 VP13A 1901_1909
363	VPRALQPQL	Q9H4B4 PLK3 521_529
364	FTSPPSLFK	Q6UN15 FIP1 257_265
365	AMLDTVVFK	O00487 PSDE 302_310
366	VSFPIGIYK	Q8TCA0 LRC20 35_43
367	IPRVQVAQI	Q8NBM4 UBAC2 145_153
368	NTDLGNNDLY	Q8WVC0 LEO1 366_374
369	QPAPRSQQL	Q9BYK8 HELZ2 1555_1563

370	YTAVVPLVY	P01591 IGJ 132_140
371	LPQGIVREL	P63272 SPT4H 93_101
372	LIKETTTGY	P42166 LAP2A 313_321
373	APRVLQQTL	O95373 IPO7 318_326
374	IPRQVAQTL	Q14703 MBTP1 189_197
375	LPKVQSIQL	A2VDJ0 T131L 208_216
376	LTDADAMKY	P25705 ATPA 263_271
377	LPQANRDTL	Q9H0H5 RGAP1 465_473
378	IIYPTAPPR	Q5VWZ2 LYPL1 56_64
379	VPFERPAVI	Q9UKS7 IKZF2 258_266
380	VPLLRESTL	O95714 HERC2 2115_2123; Q9BVR0 HRC23 828_836
381	EPQPERSSV	Q5VY09 IER5 99_107
382	TPQSNRPVM	P24928 RPB1 527_535
383	EVDPDTILK	Q9BY77 PDIP3 392_400
384	APYPVIKEL	Q8IZA0 K319L 301_309
385	GLTDVILYH	O60506 HNRPQ 269_277
386	IPNFPRTSTV	P00491 PNPH 53_61
387	FSEQVAMGY	Q9P258 RCC2 485_493
388	VPSTERMVL	P17480 UBF1 319_327
389	QVDTPIMTK	Q9NY74 ETAA1 346_354
390	LPRPPPPEM	Q00325 MPCP 342_350
391	IIFQQQLSK	P26368 U2AF2 217_225
392	AMADTFLEH	P14618 KPYM 21_29; P30613 KPYR 64_72
393	TMDPKPLAY	Q7Z3F1 GP155 369_377
394	YTDATPLRV	Q8N8A6 DDX51 304_312
395	LVEKSQLGY	Q9C0D7 ZC12C 875_883
396	NVRPVPLEL	O75643 U520 1517_1525
397	LPKQPPLML	Q6VN20 RBP10 582_590
398	AINSKQLTY	O75365 TP4A3 140_148
399	SPREPLEPL	Q9HC77 CENPJ 1125_1133
400	VPRIQPQSL	Q9NVR5 KTU 540_548
401	TPWQPPTVL	Q9NZJ0 DTL 348_356
402	IPRLIVSQL	Q9BXW9 FACD2 172_180
403	RPKSNIVLL	P11836 CD20 222_230
404	QPRFAPVLI	Q8TED0 UTP15 431_439
405	VPEIQRTSL	O60231 DHX16 752_760
406	APEVTREEL	Q9H0H0 INT2 918_926
407	IPREVSETL	Q8N5H7 SH2D3 225_233
408	LPDERTISL	Q05048 CSTF1 370_378
409	ILYAAPQLR	P15391 CD19 506_514
410	TPETVRMVL	P29218 IMPA1 168_176
411	LSDSFSSDLY	Q9BTX1 NDC1 58_66
412	QPNPLPLRL	Q15154 PCM1 1900_1908
413	YPAQITPKM	Q9NX74 DUS2L 364_372
414	SPQKVTLYL	P05107 ITB2 99_107
415	VIDQQNGLY	P27694 RFA1 490_498
416	DSDGSFFLY	P01857 IGHG1 282_290; P01859 IGHG2 278_286; P01860 IGHG3

417	QPRLVPQTI	329_337; P01861 IGHG4 279_287  Q5JSZ5 PRC2B 1936_1944
418	AVAEKMLQY	Q9NSY2 STAR5 12_20
419	VLDNDYSLTK	Q9UKT9 IKZF3 25_33
420	TPEEVRLPL	Q9UIF9 BAZ2A 548_556
421	APRPLQPYL	Q96H96 COQ2 67_75
422	TTDTVIRSY	Q9NVD3 SETD4 84_92
423	APSQQRQQI	Q6P2Q9 PRP8 2018_2026
424	TYVPVTTFK	P62899 RL31 107_115
425	IARNLTQQL	Q99541 PLIN2 313_321
426	STDHIPILY	Q06210 GFPT1 218_226
427	SPYLRPLTL	O95848 NUD14 15_23
428	KPMMPQESL	Q5JSZ5 PRC2B 706_714
429	LLNYAPLEK	P62875 RPAB5 59_67
430	QLYSTILSH	Q9Y4H4 GPSM3 106_114
431	YPLESRPSL	Q14980 NUMA1 1938_1946
432	NVYEVVNPK	Q86YQ8 CPNE8 263_271
433	SPVFRLETL	Q9Y5S1 TRPV2 7_15
434	QLTSVQLLY	Q96RL7 VP13A 712_720
435	YHQVPLVL	Q14997 PSME4 1635_1643
436	YRLICKGTI	Q9ULG1 INO80 1222_1230
437	LTDLVDDNY	Q6P2Q9 PRP8 246_254
438	ATDLTREVY	Q8IWV8 UBR2 31_39
439	FVDPLVTNY	Q9H3H1 MOD5 85_93
440	LSELKPMWSY	Q6ZXV5 TMTC3 84_92
441	ASDMLQLEY	Q86V97 KBTB6 147_155; Q8WVZ9 KBTB7 147_155
442	MTQQPRPVL	Q9NPE3 NOP10 56_64
443	ESDEVELSY	Q00839 HNRPU 413_421
444	NVDPVQHTY	O00468 AGRIN 56_64
445	TLNPQMLQK	Q9NVU7 SDA1 441_449
446	STSQTFIYK	O60341 KDM1A 609_617
447	SPYQNIKIL	P52788 SPSY 145_153
448	FAFVTDNTY	P14635 CCNB1 269_277
449	PTDTNVIRY	Q92623 TTC9A 195_203
450	GTLDYILQR	Q9C0B1 FTO 329_337
451	ETALLVDRY	Q12996 CSTF3 520_528
452	MVDPLLLKY	Q9H5Z1 DHX35 162_170
453	NTDNLLTEY	Q9Y2F5 K0947 46_54
454	LTDdkLSQY	P42336 PK3CA 623_631
455	YILSPLSYK	Q8WUT9 S2543 300_308
456	SPQPRLIYL	Q96A54 ADR1 231_239
457	TTESEVMKY	P11586 C1TC 76_84
458	SVDSQILYY	Q96S52 PIGS 269_277
459	VPSEQRQML	Q15572 TAF1C 807_815
460	TTEVHPELY	Q9Y282 ERGI3 51_59
461	YSESSQLLY	P09884 DPOLA 732_740
462	VLYENPNLK	Q14204 DYHC1 3839_3847

463	ETDIVVDHY	Q12931 TRAP1 551_559
464	YATFIVTNY	Q9HBL8 NMRL1 73_81
465	PTDENLLKY	Q9P015 RM15 285_293
466	QTYGQQQLQK	P20591 MX1 606_614
467	ALYQPLFDK	Q99733 NP1L4 97_105
468	TTDLELIKY	Q13257 MD2L1 56_64
469	QPTEFFQSL	P28062 PSB8 49_57
470	QTDTLQNDY	P14921 ETS1 215_223
471	TLYPYTSQK	Q9P2A4 ABI3 315_323
472	QTLSTQLWK	Q8IYB5 SMAP1 459_467
473	LTEQRALLY	O15040 TCPFR2 950_958
474	QLEDEALKY	Q96IG2 FXL20 207_215
475	VTEIDQDKY	P21333 FLNA 2380_2388
476	ITEDKTELY	Q63HN8 RN213 4163_4171
477	SIYYVVDVQK	Q8TBC3 SHKB1 345_353
478	IMEKSTMLY	O75475 PSIP1 412_420
479	ETTFLVDKY	P48444 COPD 500_508
480	LTDDDLLRY	Q04446 GLGB 569_577
481	VLDPYLLKY	Q9Y2R5 RT17 34_42
482	FLQQPRPLM	Q8N6F7 GCSAM 160_168
483	YYTEFPPTVL	O14929 HAT1 263_271
484	NLDIIQQEY	Q8IWA0 WDR75 371_379
485	NTDFYQTSY	Q969M3 YIPF5 8_16
486	DTDEYVLKY	Q5JVL4 EFHC1 507_515
487	YVDPQFLTY	O43164 PJA2 568_576; Q8NG27 PJA1 529_537
488	IPMMRQQEL	Q96NB2 SFXN2 192_200
489	MIEPRTLQY	P62249 RS16 41_49
490	LLEPYNKY	P35579 MYH9 292_300
491	SSEQTFMYY	P11926 DCOR 309_317
492	LTEEETQFY	Q15208 STK38 184_192; Q9Y2H1 ST38L 185_193
493	TTDFIYQLY	Q01813 K6PP 646_654
494	VVYEKQMLY	P20701 ITAL 1083_1091
495	FLEQVHQLY	P42224 STAT1 14_22
496	LTEQYNEQY	Q9BWF3 RBM4 186_194
497	YLDQMEDLY	O43681 ASNA 302_310
498	FTEQYNEQY	Q9BQ04 RBM4B 186_194
499	GARLPGAAL	P42126 ECI1 18_26
500	TPRGGVGSV	Q9P2G9 KLHL8 448_456
501	PRAGGPLGL	Q14160 SCRIB 1008_1016
502	RPAPVAVAA	Q96KR1 ZFR 91_99
503	SPRVPGGSP	Q9Y6G9 DC1L1 398_406
504	RPAGVGVVV	P30793 GCH1 198_206
505	RAPGGGLIL	Q8N7J2 AMER2 218_226
506	TPGPAGSRL	P57086 SCND1 94_102
507	GPRGMGTAL	Q99623 PHB2 15_23
508	SRSSGVPGL	Q8N3D4 EH1L1 826_834
509	RPAPALAPA	O94985 CSTN1 4_12

510	RPAGALVAL	Q2T9J0 TYSD1 270_278
511	APNLRGSGV	Q86W92 LIPB1 825_833; Q8ND30 LIPB2 736_744
512	HPSGYGAAL	O95644 NFAC1 85_93
513	RPASAGAML	Q14814 MEF2D 198_206
514	MARGAALAL	P14209 CD99 1_9
515	MPRGSGTGI	Q9H0D6 XRN2 822_830
516	KPYGGSGPL	O75362 ZN217 988_996
517	GPHPGTSDL	Q86XN7 PRSR1 584_592
518	HPSGATPTL	Q8NFD5 ARI1B 411_419
519	RPNAAAPAL	Q6ZUM4 RHG27 647_655
520	GRADLAPAL	Q8IUW3 SPA2L 63_71
521	RPLGAGEAL	Q96SI9 STRBP 256_264
522	LPRAEGAAV	O15534 PER1 992_1000
523	SPALGLRGL	P46940 IQGA1 330_338
524	SRFSGGFGA	O00571 DDX3X 591_599
525	GPRAGGEEL	Q32MZ4 LRRF1 688_696
526	GPREAVSGL	Q9GZU3 TM39B 224_232
527	SGGPGPDRVY	Q96C90 PP14B 21_29
528	ARAAAFAVL	O60518 RNPB6 202_210
529	HPSLSAPAL	Q53ET0 CRTIC2 389_397
530	GRFGMAAAL	P49748 ACADV 340_348
531	GPSFKASSL	Q96PE3 INP4A 317_325
532	SPTHPGEGL	Q96EK6 GNA1 31_39
533	MPRGSGSGF	Q9NWH9 SLTM 1015_1023
534	RPSQAAPAV	P40222 TXLNA 33_41
535	SGMGKTAVF	O00148 DX39A 90_98; Q13838 DX39B 91_99
536	RPQSGANGL	Q8WVX3 CD003 31_39
537	GVRPVSGDL	Q9Y2U8 MAN1 90_98
538	RPSGAVVTL	Q9Y314 NOSIP 240_248
539	APRTVVSGL	Q12904 AIMP1 185_193
540	RPMGAGEAL	Q12906 ILF3 264_272
541	GPRSTASDL	Q8IWE5 PKHM2 247_255
542	LPSSGRSSL	O95817 BAG3 188_196
543	GRGPLASV	O15042 SR140 295_303
544	GARFPSGTL	Q13443 ADAM9 4_12
545	GRTGVSVVM	Q9UQ53 MGT4B 138_146
546	SIREAGGAF	Q9UII2 ATIF1 39_47
547	RPSGPGPEL	P51531 SMCA2 261_269
548	RPGPLTSAL	Q70EL2 UBP45 247_255
549	GRSLPVLGL	Q14728 MFS10 356_364
550	GRLPVGLSL	P52333 JAK3 148_156
551	VPRVGNGL	Q8WVE7 T170A 25_33
552	GRAGFTAAAY	P11717 MPRI 1534_1542
553	LPSGDRVAV	Q9BRZ2 TRI56 597_605
554	LPRGGLTSI	A2RUS2 DEND3 1029_1037
555	APRGNVTSL	Q9NR96 TLR9 60_68
556	KPLEGSATL	Q9UPV9 TRAK1 578_586

557	APRAALVFA	Q6P9G4 TM154 3_11
558	QPFGGGSHM	Q00653 NFKB2 348_356
559	RPSGGMEAL	Q96KM6 Z512B 394_402
560	SPRASMGVL	Q12888 TP53B 1656_1664
561	SPLRSSSAL	P59923 ZN445 171_179
562	GPALGRSFL	P32970 CD70 78_86
563	RVMGAVTAL	Q9UBC1 IKBL1 361_369
564	SPDSRASSL	Q9UHB6 LIMA1 362_370
565	YPRPGGSSV	Q9UN70 PCDGK 569_577
566	RPANPPGVL	P35580 MYH10 524_532
567	SPRVGGFGF	Q96DF8 DGC14 292_300
568	SPYTKGASL	Q6NUK4 REEP3 78_86; Q9H6H4 REEP4 78_86
569	RPGVSILAL	Q13206 DDX10 337_345
570	RPAALTALL	Q8NBS9 TXND5 14_22
571	SRNAGAFGF	O60610 DIAP1 991_999
572	RPSVNGLAL	Q9H2K2 TNKS2 1128_1136
573	HPMGLLNAM	Q92879 CELF1 251_259
574	SPEPGREGV	Q9NWK9 BCD1 25_33
575	GRYGAISGF	Q9BT67 NFIP1 145_153
576	APGQRVGML	P36956 SRBP1 1104_1112
577	SPRPESGTV	Q9UQ84 EXO1 376_384
578	SPRTAEGVL	Q4AC94 C2CD3 1184_1192
579	LPTGDRTGL	O00329 PK3CD 816_824
580	SPRLPVGGF	Q14669 TRIPC 1921_1929
581	NRPGTVSSL	P35659 DEK 115_123
582	APRPAGSYL	P33076 C2TA 5_13
583	KPSPIYGGL	P03923 NU6M 22_30
584	GVRPFGVSL	P25787 PSA2 126_134
585	GRVGVFPSL	Q86WN1 FCSD1 594_602
586	GRIGVFPSV	O94868 FCSD2 614_622
587	AIRNAM GSL	P55036 PSMD4 351_359
588	KPAGGYQTI	O43164 PJA2 23_31
589	GRAALITSF	Q9H7F0 AT133 928_936
590	GRLGSTVVF	P52272 HNRPM 200_208
591	RPPPIGAEV	Q07820 MCL1 78_86
592	RPAPPAQSL	O95208 EPN2 528_536
593	GIEGRYATA	P48047 ATPO 36_44
594	GRGSFMLGL	Q92905 CSN5 281_289
595	RQPLPASGL	Q96L08 SUSD3 233_241
596	TPHASNLSL	Q96RT7 GCP6 1574_1582
597	RPAVIGDVL	Q9BQ39 DDX50 374_382
598	LPALRSIGL	P19793 RXRA 422_430; P28702 RXRB 493_501; P48443 RXRG 423_431
599	YPHLVAGAL	Q9UHL4 DPP2 175_183
600	SPLNRAGLL	Q92979 NEP1 98_106
601	SPRVPNSSV	Q9NR09 BIRC6 4258_4266
602	RPSVGVQSQL	Q96AQ1 CC74A 26_34; Q96LY2 CC74B 26_34
603	SPRVPASET	Q9HD15 SRA1 60_68

604	GRQQQAITL	Q9Y6V7 DDX49 343_351
605	MPRQLSAAA	Q9UQV4 LAMP3 1_9
606	SAYGSVKAY	A6NMY6 AXA2L 22_30; P07355 ANXA2 22_30
607	VPPSRDTAL	O75179 ANR17 1316_1324; Q8IWZ3 ANKH1 1288_1296
608	LPNGDRAGF	A3KN83 SBNO1 309_317
609	RPNGTSAML	Q6P2C8 MED27 182_190
610	GTWSTGLPK	O60828 PQBP1 215_223
611	GRSAAVWSL	P11309 PIM1 311_319
612	ARAGALFQL	Q6ZTW0 TPGS1 196_204
613	GPAPVGRFF	Q8TDP1 RNH2C 40_48
614	RPAPPPEAL	Q9NQG6 MID51 288_296
615	NPKESSSSL	Q12789 TF3C1 588_596
616	HPAAFPLPV	Q9H6Y7 RN167 2_10
617	SPMGTRSTL	P09958 FURIN 507_515; Q6UW60 PCSK4 512_520
618	GRTGLALYV	O60725 ICMT 40_48
619	RVAGISLAY	Q9NX46 ARHL2 156_164
620	SRAGIATQF	Q9UQR1 ZN148 740_748
621	TSDKPGSPY	O60488 ACSL4 51_59
622	KVSAVTLAY	P15391 CD19 291_299
623	RPAWAPAAL	P48735 IDHP 18_26
624	GRYGGFLLA	P18858 DNLI1 773_781
625	RPQDGVAVL	O00159 MYO1C 689_697
626	GRSPAQILL	P14550 AK1A1 242_250
627	SPRGAGYTF	P62714 PP2AB 212_220; P67775 PP2AA 212_220
628	SRIGTSTSF	O95235 KI20A 249_257
629	RPLPAALAF	Q5T447 HECD3 34_42
630	GRFGSGMNM	P52272 HNRPM 361_369
631	IRSGISPNL	Q6UVJ0 SAS6 505_513
632	GRVNVEAL	Q8IVB5 LIX1L 96_104
633	SRPPPAAEGF	A8MXV4 NUD19 34_42
634	TPRGVEGEL	Q14966 ZN638 1588_1596
635	EPRTVVSGL	P54577 SYYC 398_406
636	SPNSSPRTL	P35125 UBP6 1192_1200; Q8NFA0 UBP32 1394_1402
637	VPRSIAANM	P24928 RPB1 380_388
638	TPVASRQSL	Q9NS91 RAD18 118_126
639	QRLPVGAAC	Q96EH3 MASU1 40_48
640	TPFGGRLLV	Q4VC44 FWCH1 119_127
641	HGIDPTGTY	P04350 TBB4A 28_36; P07437 TBB5 28_36; P68371 TBB4B 28_36
642	SARAIMAQL	P26232 CTNA2 667_675; P35221 CTNA1 668_676
643	GRSAVVEML	Q13418 ILK 45_53
644	TRTAVTSLL	Q9P0M9 RM27 10_18
645	SPHGTFLGF	O75888 TNF13 239_247
646	SPAYRDLAA	O15492 RGS16 174_182
647	GPRSYTIAV	P06280 AGAL 361_369
648	RSPSPPLPL	Q96HJ3 CCD34 49_57
649	SAMSGRNEL	Q68DK2 ZFY26 805_813
650	SADPGNLKY	Q6P435 SMG1L 32_40

651	SLYGPGTNR	Q9UMY1 NOL7 197_205
652	YPKGAGEML	Q96DE5 APC16 38_46
653	RPSTSTAVF	P12270 TPR 1808_1816
654	SPRPPLISV	Q9H0R1 AP5M1 117_125
655	RPSPPVQSV	Q5VV67 PPRC1 857_865
656	GRYDGLVGM	P12081 SYHC 361_369; P49590 SYHM 362_370
657	SPRGAGYL	P60510 PP4C 209_217
658	SLFEGSLSK	Q7L622 G2E3 424_432
659	VPNGREALL	P55199 ELL 358_366
660	QPRNPATSV	Q9C0C7 AMRA1 1091_1099
661	AAVSFISKF	P62324 BTG1 17_25
662	VRNGGQILI	P55735 SEC13 42_50
663	LPRALLSSL	Q96RQ9 OXLA 269_277
664	SPSQPRDAL	Q9Y2D5 AKAP2 135_143
665	APRLQSEVA	P53990 IST1 107_115
666	GPREALSQL	Q6R2W3 SCND3 65_73; Q9UNY5 ZN232 65_73; Q9Y2L8 ZKSC5 63_71; Q9Y5A6 ZSC21 58_66
667	RPTEGVQAL	Q9NP80 PLPL8 293_301
668	SPAHDNIAF	Q12912 LRMP 140_148
669	SPSDRPLSL	Q12769 NU160 280_288
670	RPISDPSSL	Q8N4L8 CCD24 62_70
671	GRSDLIPTI	Q14691 PSF1 54_62
672	ARSGLELLL	Q8WXF8 DEDD2 62_70
673	QPRLSGSSDL	O95613 PCNT 2473_2481
674	KSDGSFIGY	P31751 AKT2 30_38
675	SPEETRAAL	P78549 NTH 258_266
676	RPLFPGSTV	Q00536 CDK16 359_367; Q00537 CDK17 386_394; Q07002 CDK18 336_344
677	SPFLLGRAL	Q96P70 IPO9 491_499
678	RPAANFDAI	P20073 ANXA7 180_188
679	SRAGLQFPV	P04908 H2A1B 20_28; P0C0S8 H2A1 20_28; P16104 H2AX 20_28; P20671 H2A1D 20_28; Q16777 H2A2C 20_28; Q6FI13 H2A2A 20_28; Q7L7L0 H2A3 20_28; Q8IUE6 H2A2B 20_28; Q93077 H2A1C 20_28; Q96KK5 H2A1H 20_28; Q96QV6 H2A1A 20_28; Q99878 H2A1J 20_28; Q9BTM1 H2AJ 20_28
680	VPRGQGSQF	O75807 PR15A 126_134
681	KPYSPLASL	Q13469 NFAC2 70_78
682	RAYPAAITI	O95071 UBR5 1124_1132
683	TPRGTLAF	Q99519 NEUR1 85_93
684	RPAQVGDSF	Q9NTJ4 MA2C1 65_73
685	ARNPPGFAF	P84103 SRSF3 42_50; Q16629 SRSF7 43_51
686	GRSATVWSL	Q86V86 PIM3 223_231
687	ARFSGNLLV	P61619 S61A1 310_318
688	ARNALTALF	Q9ULV3 CIZ1 852_860
689	ARPLEGTSF	Q15942 ZYX 474_482
690	ARDFATPSL	Q63HN8 RN213 2259_2267
691	HPLSNPAEL	Q13907 IDI1 88_96
692	AAYLRALSL	O15294 OGT1 246_254
693	SLNTPGSFR	Q9NXR1 NDE1 225_233
694	MPSSRAYGL	Q9Y6Q9 NCOA3 411_419

695	FPDSTKSSL	Q17RS7 GEN 867_875
696	KPASFMTSI	P53396 ACLY 836_844
697	LPRNAQVAL	Q8NEB9 PK3C3 100_108
698	IRAAPPPLF	P10619 PPGB 2_10
699	VPRNLPSSL	Q9NR96 TLR9 214_222
700	GRFFLSSGL	Q9BTW4 TMM43 188_196
701	GAYGQAVRY	Q9UID3 VPS51 194_202
702	RPQASALEL	P36956 SRBP1 1003_1011
703	FRNPLAPAV	Q12980 NPRL3 377_385
704	RPLQSSALL	Q16254 E2F4 297_305
705	ARAALQELL	P62851 RS25 84_92
706	RPSMSPTPL	Q9UQ35 SRRM2 2119_2127
707	GPRALTEEL	Q63HN8 RNC213 3238_3246
708	SINAQRNAL	Q14669 TRIPC 574_582
709	SRNEALIAL	P13796 PLSL 243_251; Q14651 PLSI 245_253
710	KTDGSFIGY	Q9Y243 AKT3 30_38
711	RPYGVGLLI	P25786 PSA1 126_134
712	HSDPSILGY	O75420 PERQ1 1012_1020
713	SPRNLAMEA	O15371 EIF3D 308_316
714	SPRLMSNAL	Q9NZJ7 MTCH1 153_161
715	SPEMERAGL	Q5UE93 PI3R6 358_366
716	AANPHSFVF	Q9NQ55 SSF1 26_34
717	APRSTEESL	Q8N573 OXR1 327_335
718	SPADRMLTV	Q9H6E5 STPAP 837_845
719	TPSSSRLEL	Q9C0C7 AMRA1 626_634
720	LPSSSRTEI	Q14289 FAK2 931_939
721	ARSELLTTV	Q12789 TF3C1 448_456
722	YAKGFGGQY	P14317 HCLS1 190_198
723	GQYGNPLNK	O14672 ADA10 19_27
724	SPRGAGWLW	O00743 PPP6 208_216
725	RPAPPPEQV	Q9C0G0 ZN407 1855_1863
726	APYGNPKNM	Q92567 F168A 12_20
727	APGEFRAIM	P55265 DSRAD 469_477
728	APRTFSNSL	Q99551 MTERF 200_208
729	RPQSAISSF	Q5VT06 CE350 927_935
730	ARFGSVNEL	Q13129 RLF 751_759
731	YRAQPSASL	Q96PK6 RBM14 249_257
732	RCKDISSAL	P13489 RINI 44_52
733	SPDATRESM	Q15036 SNX17 421_429
734	STDPRPASY	O15169 AXIN1 34_42
735	ARAFPMMPGF	P34897 GLYM 493_501
736	SPRDTASLF	Q7Z2Z1 TICRR 441_449
737	GPRTDTLSF	Q86WH2 RASF3 172_180
738	SPGYRLSTL	O60244 MED14 46_54
739	HPNGNITEL	Q7KZF4 SND1 279_287
740	KPAFNLSAF	P49790 NU153 228_236
741	ARTPVTSTY	A6NEC2 PSAL 236_244

742	LSDLGKLSY	Q9H7Z6 KAT8 353_361
743	VPRAILVDL	P07437 TBB5 60_68; Q13509 TBB3 60_68; Q13885 TBB2A 60_68; Q9BVA1 TBB2B 60_68
744	GSDCTTIHY	P04637 P53 226_234
745	QPREEPGAL	Q8IV53 DEN1C 763_771
746	GPREALIQL	Q15776 ZKSC8 64_72
747	LSYNTASNK	P49207 RL34 11_19
748	SPRSGYFAL	Q9Y5J1 UTP18 530_538
749	LPRELAEAV	Q9UBT2 SAE2 7_15
750	SRNAITSSY	A8CG34 P121C 386_394; Q96HA1 P121A 409_417
751	GRAGVFTQY	Q6B0I6 KDM4D 81_89
752	TPRVPDNSL	Q13829 BACD2 258_266
753	APHDYGLIL	P55735 SEC13 112_120
754	LPNGLRESI	Q96P70 IPO9 113_121
755	SPGWVRLAL	Q9BQB6 VKOR1 7_15
756	QPRGPALLF	Q96RU8 TRIB1 15_23
757	TMEGGTLKY	P16885 PLCG2 591_599
758	QPSFHGVDL	Q86X55 CARM1 315_323
759	ARTSYLAAF	Q4ZIN3 MBRL 300_308
760	RPTNANLTL	Q9UPP1 PHF8 306_314
761	LPRTAISEL	Q9NRC8 SIR7 178_186
762	QPRGPDNSM	O75534 CSDE1 775_783
763	KMSSSVISY	Q9H900 ZWILC 355_363
764	FPHATSQTL	Q13459 MYO9B 599_607
765	GRTDVVELL	Q9ULH0 KDIS 115_123
766	GRNTIQITV	Q8NF64 ZMIZ2 519_527; Q9ULJ6 ZMIZ1 660_668
767	IPRDGAFLI	P16885 PLCG2 663_671
768	ARANQAIQM	Q9Y490 TLN1 1468_1476; Q9Y4G6 TLN2 1470_1478
769	QRTDVLTGL	Q6SPF0 SAMD1 497_505
770	GRYEVAVPL	Q07866 KLC1 227_235; Q6P597 KLC3 221_229; Q9H0B6 KLC2 212_220; Q9NSK0 KLC4 225_233
771	IRPGTAFEL	Q15149 PLEC 4095_4103
772	SEDHIIGAY	Q8TCB0 IFI44 56_64
773	NPRTGMESL	O60231 DHX16 701_709
774	GRTFLLQGL	P49411 EFTU 19_27
775	TPDPSRSVF	Q96FV2 SCRN2 308_316
776	VAYGKGTYF	Q460N5 PAR14 1707_1715
777	GPRLASEYL	O43290 SNUT1 383_391
778	GPKQQFSTL	Q2KHR3 QSER1 1160_1168
779	MPAFLRSAL	Q969X6 CIR1A 433_441
780	LPRLTPPVVL	P50990 TCPQ 333_341
781	SRFGTLVNL	Q5T8P6 RBM26 554_562
782	MRTAALPTF	Q3MIR4 CC50B 254_262; Q9NV96 CC50A 261_269
783	KPYDGITI	O75376 NCOR1 1336_1344
784	SSDVGHDEY	Q01082 SPTB2 769_777
785	SSDANPVRY	Q9NU22 MDN1 130_138
786	GRLAEAQTY	P09914 IFIT1 109_117; Q5T764 IFT1B 109_117
787	SRNSSMLTL	Q3LFD5 UBP41 186_194; Q9UMW8 UBP18 186_194

788	TPRATTESF	O75376 NCOR1 1300_1308
789	FAQNKPTGF	P52948 NUP98 109_117
790	SRLGSVFPF	Q13217 DNJC3 9_17
791	KPIPANQEL	O75626 PRDM1 188_196
792	VPHQPFSQA	Q9Y2L1 RRP44 439_447
793	SAAPFAQRY	Q8TEP8 CE192 661_669
794	RPAQEALLL	Q9UIL8 PHF11 21_29
795	NPRPTAQDL	Q9Y2H0 DLGP4 873_881
796	VAVGRALYY	Q16531 DDB1 510_518
797	RTGAFALLY	Q9H3S7 PTN23 1398_1406
798	ARLPWAGQL	Q96AQ6 PBIP1 624_632
799	APRNLQLSL	Q92673 SORL1 1653_1661
800	KPINSVLQL	Q7RTV5 AAED1 201_209
801	SSDPYHSGY	Q9BXP5 SRRT 88_96
802	TPNDGRCHL	P05107 ITB2 280_288
803	GRYPGVSNY	Q13564 ULA1 440_448
804	SRANSLFAF	P61009 SPCS3 6_14
805	NPRTPLSDL	B2RTY4 MYO9A 773_781
806	RPQESGILL	P41279 M3K8 102_110
807	IRNDGVLLL	O60763 USO1 182_190
808	RPAANPIQF	P23921 RIR1 742_750
809	NPRAMQALL	Q9NRR5 UBQL4 462_470; Q9UMX0 UBQL1 456_464
810	LPSPFLRAL	O95456 PSMG1 184_192
811	SPRNEVEAL	Q5R372 RBG1L 144_152
812	LPDANRDTL	Q8N392 RHG18 446_454
813	VRPPVQVYVG	P48047 ATPO 28_36
814	RPYQPLGAL	Q9Y5Y2 NUBP2 149_157
815	QPIKESNSL	Q9UPU5 UBP24 1353_1361
816	NPRALSFVL	P00973 OAS1 128_136
817	SPRLTFPSL	Q9H6Q3 SLAP2 161_169
818	APINFTSRL	Q9Y4B6 VPRBP 1046_1054
819	ARSNIMTLL	O14787 TNPO2 661_669
820	GRLLINSVF	Q96CP6 GRM1A 368_376
821	GPHPPWTEV	Q96PV7 F193B 642_650
822	LPRESAEAF	Q8IV20 LACC1 345_353
823	VRNNIAYGL	Q03519 TAP2 560_568
824	SPRTIVSFL	Q9NRP7 STK36 1058_1066
825	YRAQPSVSL	Q96PK6 RBM14 237_245
826	RTDGILALY	Q9UBX3 DIC 53_61
827	RPAPLVQQL	Q9Y6X9 MORC2 687_695
828	GRWPGSSLY	Q14739 LBR14 22_22
829	GTYQPLSTR	O15213 WDR46 390_398
830	GVSSIFIYH	P33076 C2TA 249_257
831	ARFGLIQSM	P53990 IST1 81_89
832	RSPSPWVPAL	Q63HK3 ZKSC2 197_205
833	AVLTKQLLH	Q14094 CCNI 179_187
834	SSDPQAQKY	Q0VDF9 HSP7E 75_83

835	KLNDNVSAY	Q9BPZ7 SIN1 222_230
836	SRFPPTMAL	Q93084 AT2A3 893_901
837	LSDLGRLSY	Q8WYB5 KAT6B 894_902; Q92794 KAT6A 683_691
838	YRLGAPFTV	P13765 DOB 109_117
839	FARVPVATY	P49005 DPOD2 24_32
840	ITDKNSLAY	Q9HCG8 CWC22 146_154
841	SPMADRSMM	P18583 SON 1076_1084
842	YRGQPGNAY	Q96PK6 RBM14 540_548
843	QPQHAFNAL	Q99967 CITE2 43_51
844	LRNIDNPAL	O75083 WDR1 42_50
845	RAASVFVLY	Q9NRF9 DPOE3 39_47
846	GRIGYIYAL	O43813 LANC1 154_162
847	LPRDQNNGL	Q9ULH0 KDIS 1168_1176
848	SLFNTGFLK	Q7Z2T5 TRM1L 534_542
849	GPRQVLFPL	Q9Y5F8 PCDGJ 12_20; Q9Y5F9 PCDGI 12_20
850	TADYHSNGY	Q8TCU6 PREX1 345_353
851	SRNAQTFGF	Q9NSV4 DIAP3 854_862
852	QTDGLKGFY	Q96CQ1 S2536 169_177
853	KTEVNSGFF	P40227 TCPZ 241_249; Q92526 TCPW 241_249
854	IPRQQNSSV	O60244 MED14 1401_1409
855	SPRIPPSQF	Q15596 NCOA2 499_507
856	SPEQSRNVL	Q96JM3 CHAP1 675_683
857	APNPYRQAI	Q7RTS9 DYM 300_308
858	RPAQVSQLPF	Q9Y520 PRC2C 2628_2636
859	RPQAPLNSF	Q6PJG2 EMSA1 193_201
860	RLNAPLSQM	Q7Z5Y7 KCD20 404_412
861	KSTAISLFY	P13639 EF2 71_79
862	LVRPVFGEL	O00506 STK25 361_369
863	LPRQDTTSI	P78382 S35A1 315_323
864	APNNYRSPI	Q15762 CD226 296_304
865	RPSQLGQVF	Q93073 SBP2L 150_158
866	YPGAERNLL	Q8NE65 ZN738 17_25
867	ARLPLVNSY	P42858 HD 2400_2408
868	VRNPFTVTV	Q49AG3 ZBED5 574_582
869	STELNHLGY	Q8IXI1 MIRO2 298_306
870	FVNPHVSSF	Q8IV63 VRK3 37_45
871	SRVLQNVAF	Q16548 B2LA1 34_42
872	RTAPLLLSY	Q12769 NU160 765_773
873	SPTYRALL	P49795 RGS19 199_207
874	QPRDFGDSL	Q709C8 VP13C 3509_3517
875	MLRENGDSL	P20592 MX2 653_661
876	SPRQALTDF	Q8WTW3 COG1 222_230
877	HPVQPWASL	Q8NDX1 PSD4 386_394
878	TPRPKF SVC	P62906 RL10A 58_66
879	SPQANRTYV	Q9Y2I7 FYV1 329_337
880	ARFPETPAF	Q9P2P5 HECW2 666_674
881	TPFPFR TGL	Q499Y3 YJ016 90_98; Q9H8K7 CJ088 255_263

882	RPNNAYTAM	Q9Y5A9 YTHD2 43_51
883	FARPGDVEF	Q15642 CIP4 276_284
884	SRNGVITQY	P10586 PTPRF 634_642
885	RPSSTITYL	Q5SWH9 TMM69 82_90
886	TVSDAILRY	Q9Y5W9 SNX11 146_154
887	RSDLQLSLGY	Q8IV63 VRK3 370_378
888	LRFQSSAVM	P68431 H31 83_91; Q16695 H31T 83_91; Q71DI3 H32 83_91
889	ARFVNVLGY	Q8TAP6 CEP76 340_348
890	LPRQPPMSL	Q13045 FLII 882_890
891	SPMAERSMM	P18583 SON 1026_1034
892	TRSQTSVNF	Q9Y252 RNF6 197_205
893	YPRLLGGFVM	Q92797 SYMPK 1009_1017
894	IPRQPSNDL	Q6UXI9 NPNT 387_395
895	QPRDIGLQI	P20592 MX2 237_245
896	LPRLEALDL	Q9NR96 TLR9 544_552
897	YSDPDSGHY	Q8N5H7 SH2D3 487_495
898	TRMDSNFGL	O43463 SUV91 377_385
899	KVDSNDSLY	Q7Z3J2 CP062 842_850
900	RPINALDEL	Q8TCU6 PREX1 1534_1542
901	SPNLRLLDL	Q8N531 FBXL6 383_391
902	LTDRGVMSY	Q14653 IRF3 252_260
903	FGNNKLTTF	P52948 NUP98 365_373
904	APRDPIPYL	P08621 RU17 14_22
905	QRNQAIQAL	Q92995 UBP13 742_750
906	FSDKELAAY	P21439 MDR3 241_249
907	VSDFGLSRY	P54762 EPHB1 760_768; Q06187 BTK 537_545
908	GTDLSIFKY	Q96JG6 CC132 401_409
909	YTSPGTQKY	Q6P1X5 TAF2 552_560
910	VPRNYDPAL	Q9NV06 DCA13 24_32
911	IRNDVLDSDL	Q9UBE0 SAE1 272_280
912	IIRENSISL	Q9H1A4 APC1 1433_1441
913	KPIEQLLGF	Q96DE5 APC16 97_105
914	SPQEARNML	P33240 CSTF2 154_162
915	EPRQTTSNL	O00487 PSDE 173_181
916	APNERPYSL	Q01151 CD83 84_92
917	FSDPNFLAH	P16885 PLCG2 1142_1150
918	GIYAYGFEK	P38919 IF4A3 52_60; P60842 IF4A1 46_54; Q14240 IF4A2 47_55
919	FPQATRQSL	Q9ULV3 CIZ1 151_159
920	SRNALLFNL	Q8WTW4 NPRL2 77_85
921	VPASFRLQM	Q9BTE3 MCMBP 414_422
922	SPRLSQTFL	Q92608 DOCK2 1780_1788
923	YADPVNAHY	O95758 PTBP3 226_234
924	KIDEPSTPY	P41236 IPP2 67_75; Q96PQ5 IPP2L 67_75
925	RPYSNVSNL	O95248 MTMR5 1581_1589
926	VPDTSRIYV	Q9UBK9 UXT 83_91
927	ARVSIVNQY	Q9GZR2 REXO4 263_271
928	GRTNLIVNY	Q15717 ELAV1 18_26

929	YPRSIILTS	O15164 TIF1A 755_763
930	RIASTLLLY	Q9UHD2 TBK1 427_435
931	SSDVSHQEY	O60381 HBP1 78_86
932	ISRETGEPY	Q04637 IF4G1 303_311
933	RSDVEILGY	Q86Y07 VRK2 230_238
934	VSDRVTVLY	Q9Y2Z9 COQ6 159_167
935	LTDRLASLY	Q5W0V3 F16B1 309_317
936	QRVAGVYLF	P48651 PTSS1 285_293
937	RAAPFSLEY	Q15181 IPYR 9_17
938	FIRVVGSEF	P43686 PRS6B 227_235
939	QPRPQDSNL	Q9UPP1 PHF8 941_949
940	LPAPKWTEL	P52333 JAK3 744_752
941	IPRNQLQSV	Q5T4S7 UBR4 92_100
942	TSDVDLDKY	Q6PJ21 SPSB3 170_178
943	ARLTDYVAF	Q99627 CSN8 198_206
944	SIGDIFLKY	Q9H8V3 ECT2 531_539
945	IPRQVSENL	O75815 BCAR3 159_167
946	QRLQQQAAL	Q8WXI9 P66B 477_485
947	LPRNEADEL	O14791 APOL1 103_111
948	RTYGVVAQY	A2RUS2 DEND3 74_82
949	LPRDEADEL	Q9BQE5 APOL2 44_52
950	RPMPDIDTL	Q9NQC8 IFT46 202_210
951	FPDNQRPAL	P43268 ETV4 432_440
952	GRAFIFPSY	Q8TBZ8 ZN564 315_323
953	KTLDALFY	Q9UPU5 UBP24 2244_2252
954	TPRTNNIEL	Q9NVM9 ASUN 320_328
955	YSQADALKY	Q15910 EZH2 728_736; Q92800 EZH1 729_737
956	APFLRNVEL	A5YKK6 CNOT1 2076_2084
957	LPRNTVVLF	Q9UJZ1 STML2 32_40
958	TADHNLLY	Q12788 TBL3 311_319
959	NPAENFRVL	P13010 XRCC5 593_601
960	QRTSILQTL	Q15025 TNIP1 203_211
961	GSDKINYTY	O15226 NKRF 193_201
962	YTFPNGAKY	Q502X0 MORN2 30_38
963	ILNSHCFAR	P54368 OAZ1 9_17
964	QPRLSSILF	O60879 DIAP2 791_799
965	LTDDGNKWL	Q13200 PSMD2 391_399
966	DIDIRPGLY	O94805 ACL6B 334_342; O96019 ACL6A 337_345
967	SPRVQFQSL	Q8N720 ZN655 12_20
968	IPYGERITL	P49750 YLPM1 1461_1469
969	RPISDFLTL	Q9UK73 FEM1B 544_552
970	LPRSEVTFL	Q96GK7 FAH2A 91_99
971	SSEAHLQQY	P48552 NRIP1 271_279
972	APRDAYWIA	O75794 CD123 109_117
973	RPQEVSAYL	Q6NXE6 ARMC6 106_114
974	CRNKTQISL	P30876 RPB2 1140_1148
975	VPMFRNVSL	O14980 XPO1 257_265

976	TRISNIFVI	Q8TD47 RS4Y2 220_228
977	NSDINSNHY	Q9UPW5 CBPC1 737_745
978	RPMEEAAL	Q9H9L7 AKIR1 9_17
979	GRTFIQPNM	Q06203 PUR1 354_362
980	MRMATPLLM	P04233 HG2A 107_115
981	IRMPSLPSY	P29401 TKT 301_309
982	ERADLIAYL	P99999 CYC 91_99
983	RLDAVTLLY	Q6ICL7 S35E4 214_222
984	MPKMDQDSL	P37268 FDFT 28_36
985	SPREMVAQF	Q86YC3 NRROS 295_303
986	KPMLNNNSF	Q14679 TTLL4 214_222
987	S RTPVLMNF	Q9H3K2 GHITM 146_154
988	SRAPVFLQF	Q4ZIN3 MBRL 120_128
989	YRLLTATNL	O95071 UBR5 1256_1264
990	YSDKYGLGY	P53350 PLK1 417_425
991	GRPCEFPFL	O60449 LY75 166_174
992	RAFPLPMSF	Q9UHJ6 SHPK 446_454
993	FPNKQGYVL	O43684 BUB3 188_196
994	RPVPWNALL	Q05923 DUS2 47_55
995	GRTFPVDQF	Q6P158 DHX57 722_730
996	YSRLPFTAL	P40306 PSB10 158_166
997	DTDSQRLAY	Q01094 E2F1 237_245
998	NPRATFSEF	O14776 TCRG1 742_750
999	AARDFLQTF	Q9BT17 MTG1 301_309
1000	ARYLVNEG F	P54198 HIRA 943_951
1001	RADGNFLLY	Q6ICG6 K0930 368_376
1002	KLADQIFAY	Q7L576 CYFP1 705_713; Q96F07 CYFP2 729_737
1003	RPSQNLLQL	Q71SY5 MED25 577_585
1004	TPRD TTM T F	P98194 AT2C1 804_812
1005	NTDHQTQLL	Q06609 RAD51 196_204
1006	YAALHGEFY	Q9BT23 LIMD2 79_87
1007	KSELGLNF Y	Q9NRM2 ZN277 333_341
1008	R P S P M Q L E L	O00764 PDXK 283_291
1009	S R G D F V V E Y	Q9NQR1 SETD8 278_286
1010	F L D S K G L E Y	Q9H1J1 REN3A 136_144
1011	K P L E D Q T Q L	P13284 GILT 213_221
1012	I P A N W K T E L	Q4LE39 ARI4B 261_269
1013	V S D S K Q F T Y	Q00653 NFKB2 317_325
1014	F T D K S A E D Y	Q13153 PAK1 145_153
1015	L S D N T P E H Y	Q9ULE6 PALD 85_93
1016	N P R D N F L S L	Q8IUR6 CRERF 54_62
1017	R P Y S Q V N V L	P46939 UTRO 165_173
1018	Q L D H S V Q S Y	Q96BY6 DOC10 940_948
1019	Y S S S R S D L Y	P38159 RBMX 327_335; Q96E39 RMXL1 327_335
1020	S P Q D S R L Y L	Q9HA65 TBC17 177_185
1021	P T D T N V L R Y	Q8N6N2 TTC9B 202_210
1022	S P R F P A Q Y L	Q15477 SKIV2 1017_1025

1023	ARNDYLLTL	O94868 FCSD2 207_215
1024	NPRQAAAYEM	Q9H0D6 XRN2 456_464
1025	LVDGYNVHY	Q9H078 CLPB 609_617
1026	GTDELRLLY	Q9Y4W2 LAS1L 107_115
1027	SRVLIFSQM	O60264 SMCA5 500_508; P28370 SMCA1 503_511
1028	RPQPQLQL	O00399 DCTN6 156_164
1029	YPDEVRGVF	P15289 ARSA 379_387
1030	KSDTQNLLY	O43909 EXTL3 281_289
1031	GRYDFTPLI	Q9P2E3 ZNFX1 553_561
1032	KTDPENTDY	Q9BW85 CCD94 90_98
1033	LSDAEFHTY	Q3MII6 TBC25 199_207
1034	NTEEEGLKY	Q9NYF8 BCLF1 430_438
1035	RVASVMQEY	P25787 PSA2 113_121
1036	QRVNQPEL	P53611 PGTB2 321_329
1037	ITDTTRDVY	Q8NC56 LEMD2 23_31
1038	FIDASRLVY	P26232 CTNA2 609_617; P35221 CTNA1 611_619
1039	DSDLRNDSY	P55197 AF10 379_387
1040	HPYLAQNEL	P14550 AK1A1 188_196
1041	KLYQSIIGY	Q9NSV4 DIAP3 976_984
1042	FGREVDAEY	Q8N6H7 ARFG2 437_445
1043	FTDAGFEHY	Q9UNH5 CC14A 237_245
1044	HSEEVPLLW	O96024 B3GT4 218_226
1045	PRCEVQLEL	Q9NY15 STAB1 2048_2056
1046	RPMQQVDTL	Q6PIJ6 FBX38 1004_1012
1047	SPLRPQNYL	P06748 NPM 10_18
1048	QIRDIMQAL	Q15554 TERF2 120_128
1049	SPTQEREEL	Q14738 2A5D 109_117
1050	RPAQFLPEM	Q15345 LRC41 686_694
1051	RPYEPINSI	Q8WUA4 TF3C2 645_653
1052	TPNEERNVM	P35606 COPB2 828_836
1053	AYKDAIYVF	Q8N653 LZTR1 75_83
1054	QRILSQPTF	Q9RX5 HHLA3 37_45
1055	SAYLHPQQF	Q12899 TRI26 343_351
1056	LPRDNYSLL	P42331 RHG25 280_288
1057	YVTTSTRTY	P08670 VIME 30_38
1058	VGDHQFLY	Q8IYS2 K2013 239_247
1059	RPFEDQTSL	Q9H7B2 RPF2 70_78
1060	LVDQRVAEY	Q9P215 POGK 261_269
1061	KPYQTMLVL	Q92966 SNPC3 199_207
1062	ATDFKFAMY	P30279 CCND2 189_197
1063	AIDEDVLRY	Q13356 PPIL2 265_273
1064	GRQFLTQLM	Q15459 SF3A1 178_186
1065	IPYKPNSL	P22059 OSBP1 409_417
1066	ETELDGLRY	P46952 3HAO 110_118
1067	QLDKNSEVY	Q52LJ0 FA98B 139_147
1068	QPRNPLEEL	Q12815 TROAP 87_95
1069	YRPAYLVTL	Q9UBI1 COMD3 145_153

1070	HSDPESDFY	O94864 ST65G 131_139
1071	IIDGMTHY	Q9BZW5 TM6S1 87_95
1072	VTDSIRDEY	O00429 DNM1L 258_266
1073	FPSYRDVTL	Q5T6V5 CI064 189_197
1074	ALAEYVIYR	Q9H2K2 TNKS2 1135_1143
1075	LSDFGLERY	Q8IX90 SKA3 158_166
1076	SRYQGVNLY	Q13310 PABP4 289_297
1077	YPFFRGVTI	O75794 CD123 15_23
1078	GRSEVIYNY	Q7Z5Y7 KCD20 337_345
1079	HPMAYQLQL	P67870 CSK2B 193_201
1080	NPRQVFNLL	P23743 DGKA 402_410
1081	SRQSYPNSY	Q96K37 S35E1 395_403
1082	VYPERSTSY	Q13242 SRSF9 182_190
1083	SPQQNRQML	Q9UPN3 MACF1 3564_3572
1084	IPNERTMQL	Q8N1B4 VPS52 527_535
1085	QIRDVQETL	Q86Y56 HEAT2 694_702
1086	IRFFGTTNF	Q8N3C7 CLIP4 501_509
1087	NPRIPYTEL	Q92830 KAT2A 656_664
1088	IPRYIISQL	O15021 MAST4 517_525
1089	RSEDTAVYY	P01743 HV102 106_114
1090	YAFNGTQRF	P04440 DPB1 45_53
1091	YAIDNPLHY	A5YKK6 CNOT1 93_101
1092	GRIASYYYL	Q8N3C0 ASCC3 1816_1824
1093	MPSQFRDIL	Q09472 EP300 2175_2183
1094	RVDQSLLLY	Q67FW5 B3GNL 221_229
1095	HLSSLQLFY	Q9BWG6 SCNM1 68_76
1096	KSELLVEQY	Q99541 PLIN2 182_190
1097	ERNPNAVYNF	B0I1T2 MYO1G 222_230
1098	LSDKNIEQY	Q96QD9 UIF 125_133
1099	ILDENSQKY	Q8N1I0 DOCK4 626_634
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1101	ALNKQIMEY	Q8N0V3 RBFA 243_251
1102	YRTDMIQAL	Q6P2Q9 PRP8 1470_1478
1103	QRQDIAFAY	P07355 ANXA2 67_75
1104	FPMGDRLYI	P49720 PSB3 43_51
1105	ETERIVTTY	P50570 DYN2 455_463
1106	KLLDAYLLY	P61803 DAD1 25_33
1107	MSEDKPQDY	P35222 CTNB1 662_670
1108	QVAERALYY	Q13362 2A5G 341_349; Q14738 2A5D 417_425; Q16537 2A5E 358_366
1109	SVDPNQYYK	Q15046 SYK 70_78
1110	SRFSLENNF	P42224 STAT1 69_77
1111	SRFLMPEAY	O43166 SI1L1 151_159
1112	TRYQGVNLY	P11940 PABP1 289_297
1113	FSKDIVENY	Q13263 TIF1B 125_133
1114	ATYNKQPMY	Q9Y6K1 DNM3A 357_365
1115	GTVYEDLRY	O00762 UBE2C 71_79
1116	IAYSRPVYF	Q96RV3 PCX1 1067_1075; Q9H6A9 PCX3 854_862

1117	MRYVASYLL	P05387 RLA2 1_9
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1119	SRNAYMLVY	Q86UV5 UBP48 410_418
1120	FTETSKLQY	Q00532 CDKL1 317_325
1121	IRPENVIY	Q5VST6 AB17B 159_167
1122	AYSSYVHQY	Q92624 APBP2 337_345
1123	VRTPYTM SY	Q9BWF3 RBM4 197_205
1124	QPREPQVYT	P01857 IGHG1 225_233; P01859 IGHG2 221_229; P01860 IGHG3 272_280; P01861 IGHG4 222_230
1125	VYKAFVDNY	Q12979 ABR 183_191
1126	QLSPQMWK	Q8WU79 SMAP2 421_429
1127	RPWTVMESL	O43237 DC1L2 141_149
1128	TPEPERDYL	O43143 DHX15 324_332
1129	FPESERPEM	Q9UHX1 PUF60 425_433
1130	SRWQQGNVF	P01857 IGHG1 298_306; P01859 IGHG2 294_302
1131	YVEGVHQGY	Q96GC9 VMP1 94_102
1132	ARIQPMPYF	Q6NW34 CC017 209_217
1133	RTEEALQLY	O76094 SRP72 241_249
1134	YARQLEMIV	P48556 PSMD8 342_350
1135	FTAERSSYY	Q7KZF4 SND1 632_640
1136	FSYQHAI EEE	O15372 EIF3H 138_146
1137	KTDLDLQQY	Q8TDW0 LRC8C 100_108
1138	FPRNNISYL	Q8N5M9 JAGN1 92_100
1139	NPRYFPMSL	Q6GYQ0 RGPA1 1445_1453
1140	LRNQSVFNF	P37268 FDFT 280_288
1141	SRDDNMFQI	P53999 TCP4 58_66
1142	RLYQAQAL Y	Q86WT1 TT30A 82_90; Q8N4P2 TT30B 82_90
1143	GRFEDVYQL	Q9HBH9 MKNK2 77_85
1144	DSDYHQEA Y	Q9UH92 MLX 114_122
1145	RLSDTLLFY	Q6ZPD9 D19L3 411_419
1146	MLDHQPPQY	Q92925 SMRD2 303_311
1147	IPRSEWDIL	P17707 DCAM 35_43
1148	FVETESVRY	P48444 COPD 48_56
1149	FSEPRAIFY	Q16512 PKN1 712_720
1150	QSDKVYEVY	Q7Z388 D19L4 287_295
1151	YRNAYTMVL	Q13618 CUL3 58_66
1152	NRGQFFT VY	Q9Y2G9 SBNO2 1086_1094
1153	VRNIVQQQF	Q86UV5 UBP48 205_213
1154	YPRQQLLTL	Q15645 PCH2 345_353
1155	FLKDNMAYM	Q8IZT6 ASPM 396_404
1156	GRNDMTYNY	O14497 ARI1A 1500_1508
1157	RQFPTPFQL	P59817 Z280A 341_349; Q6N043 Z280D 365_373; Q86YH2 Z280B 350_358
1158	RVDENNPEY	P35611 ADDA 27_35
1159	FAEHNDLQY	P41091 IF2G 322_330; Q2VIR3 IF2GL 322_330
1160	NLDSQRQLQY	Q8IX04 UEVLD 320_328
1161	KLMENILLY	O43187 IRAK2 604_612
1162	KVSDWQVLY	O43196 MSH5 329_337

1163	IRLPSQYNF	Q8TEM1 PO210 1231_1239
1164	TSDQQRQLY	Q16625 OCLN 424_432
1165	LMERNNLSY	Q01581 HMCS1 76_84
1166	YLRDALPEY	P49406 RM19 189_197
1167	FLIDRSPEY	Q7L273 KCTD9 136_144
1168	MTEKQLNLY	Q9NX18 SDHF2 97_105
1169	TTEERTQLY	Q8NBP0 TTC13 710_718
1170	VLDEAFQRY	P06865 HEXA 60_68
1171	YLDDPDALKY	P26358 DNMT1 359_367
1172	NIDNFLSRY	Q13464 ROCK1 51_59
1173	LIDNSFNRY	Q8IY81 SPB1 684_692
1174	NPREWTPEI	Q6IA86 ELP2 374_382
1175	RTMPIYPTY	Q9P2E3 ZNFX1 334_342
1176	RQFPTAFEF	Q13614 MTMR2 492_500
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1178	FSEIDLEKY	Q86XF0 DYRL1 149_157
1179	DLDsrvlyy	P26358 DNMT1 916_924
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1181	ASEYDQIRY	Q86Z02 HIPK1 395_403; Q9H2X6 HIPK2 404_412
1182	MADKNIQYY	Q5VWJ9 SNX30 408_416
1183	ATEYKNEEY	Q96MU7 YTDC1 92_100
1184	FSERSNPFY	O75586 MED6 33_41
1185	YRQPPVPQY	Q86TG7 PEG10 679_687
1186	QSERQLLLY	P57737 CORO7 704_712
1187	IIFDRPLLY	Q9UPQ8 DOLK 352_360
1188	YGYDNVKEY	Q96GN5 CDA7L 434_442
1189	YLDIPNPRY	O14578 CTRO 1865_1873
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1192	QTESQQIRY	Q9H7F0 AT133 131_139
1193	NRPEFITEF	Q8WXH0 SYNE2 5666_5674
1194	KIDENQLMY	Q96RT1 LAP2 282_290
1195	IPRETTYQF	Q9BSJ5 CQ080 357_365
1196	LADIYRELY	Q9Y6J9 TAF6L 437_445
1197	FAFEHSEEEY	Q9BQ70 TCF25 248_256
1198	YLDESKQLY	Q8TBF2 PGFS 92_100
1199	IRTTQIYTY	Q9UGP8 SEC63 225_233
1200	KMDLDNNFY	Q8NAP3 ZBT38 661_669
1201	RLPEHCIEY	Q8TBC4 UBA3 244_252
1202	YYKPDSPEY	Q86U86 PB1 126_134
1203	QSDYFRALY	Q9P2K6 KLH42 26_34
1204	TRLEFQQQL	Q9BUW7 CI016 66_74
1205	FLDDFESKY	Q8TF74 WIPF2 392_400
1206	LSERADWQY	Q5VST6 AB17B 50_58; Q6PCB6 AB17C 91_99
1207	LTDRELEEY	P35611 ADDA 567_575
1208	LRNTIMEQY	Q9BYX4 IFIH1 704_712
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1216	YSDRETQLY	Q99759 M3K3 258_266
1217	ERLQYVFGY	Q96MG7 MAGG1 132_140
1218	KVYENYPTY	P35659 DEK 349_357
1219	YVYFTNELK	P50591 TNF10 35_43
1220	IQNDRQLQY	Q9UBB9 TFP11 336_344
1221	YIDSKFEDY	Q16181 SEPT7 133_141
1222	WAYPRQVFI	Q9P2D0 IBTK 432_440
1223	YPNERFELL	O94888 UBXN7 447_455
1224	CLYPRFVQR	O43776 SYNC 537_545
1225	FSEEQLNRY	Q15544 TAF11 113_121
1226	LTD FIREEY	A2RTX5 SYTC2 435_443
1227	KTEYALWNY	Q4ADV7 RIC1 907_915
1228	YQADIERMY	O95573 ACSL3 709_717
1229	ETDNMFNRY	O00462 MANBA 118_126
1230	LTD DIRFY	P19784 CSK22 129_137
1231	YARDETEFY	P18077 RL35A 34_42
1232	YTMKEVLFY	Q00987 MDM2 48_56
1233	YSTDENFRY	Q9BYX4 IFIH1 5_13
1234	LSEWQKELY	Q9ULD5 ZN777 302_310
1235	FPMEIRQYL	P42224 STAT1 26_34
1236	YTDENQHQY	Q5HYA8 MKS3 401_409
1237	WTDNRELTY	O60449 LY75 1025_1033
1238	NRFNYPFEL	Q9H649 NSUN3 57_65
1239	VVYQYWNTK	Q8N766 EMC1 791_799
1240	LTDYDIRFY	P68400 CSK21 128_136; Q8NEV1 CSK23 128_136
1241	RLYFSQQTY	P33897 ABCD1 172_180
1242	YLEQLHQLY	P40763 STAT3 14_22
1243	YIDENQDRY	Q96KP4 CNDP2 10_18
1244	ITDEQRQYY	Q96D71 REPS1 281_289
1245	YLDYDDTRY	Q9BVI4 NOC4L 174_182
1246	ESEEQERY	Q9Y676 RT18B 60_68
1247	YIDEQFERY	Q15019 SEPT2 121_129
1248	FRYPQDYQF	P43307 SSRA 124_132
1249	APAGRKVGL	P62917 RL8 229_237
1250	GRVLIGVGK	Q15393 SF3B3 957_965
1251	GRAPVPGPR	Q6PJF5 RHDF2 340_348
1252	RPSGPSKAL	P48444 COPD 218_226
1253	KVYGPVGAK	P21333 FLNA 773_781
1254	LPKPPGRGV	Q8N531 FBXL6 341_349
1255	APRAPRALA	P53007 TXTP 3_11
1256	APGPGRKEL	Q9HBH0 RHOF 12_20

1257	APGSARRPL	P11279 LAMP1 3_11
1258	PNGALKKSL	Q86VX2 COMD7 79_87
1259	GRYAGGQQGY	O75592 MYCB2 3226_3234
1260	RPAPPRAPA	Q53GL7 PAR10 81_89
1261	SVRGVSISK	Q99683 M3K5 608_616
1262	VKGPGISKF	P49961 ENTP1 86_94
1263	RPAPGRPPS	P26572 MGAT1 31_39
1264	KPKAPPSSL	Q9NZZ3 CHMP5 9_17
1265	SPASRAPHL	Q02086 SP2 386_394
1266	MPKGAALHL	Q9NZK5 CECR1 105_113
1267	AAKPHNPGF	Q12906 ILF3 615_623
1268	GLSIPHSTK	P46777 RL5 170_178
1269	NPRVKAAAL	O15269 SPTC1 114_122
1270	APHLVGPHL	Q6P2I3 FAH2B 34_42; Q96GK7 FAH2A 34_42
1271	LPGDRAKAL	Q99683 M3K5 364_372
1272	TPKLGRGVL	Q7L590 MCM10 625_633
1273	ARKAVLVAL	P26640 SYVC 636_644
1274	GRIGQAIAR	Q9UBQ7 GRHPR 162_170
1275	SPIGRDGKL	P30876 RPB2 487_495
1276	VPRPGKAAC	O94953 KDM4B 532_540
1277	RTGIPTLGK	P13995 MTDC 186_194
1278	ARLGVISKV	Q9ULT8 HECD1 616_624
1279	VPSEGKKSL	Q9BXS6 NUSAP 156_164
1280	AVSAKREAL	Q14055 CO9A2 541_549
1281	QPAGHRPAL	Q16549 PCSK7 100_108
1282	TPSASRKSL	Q5SRE5 NU188 1380_1388
1283	GTMRGIIAK	P49748 ACADV 350_358
1284	GLFGKTVPK	P23284 PPIB 63_71
1285	RPAPGRPPT	Q8WVQ1 CANT1 63_71
1286	SPRPSVGHI	Q9NXW2 DJB12 275_283
1287	GRSPLIHAV	P20749 BCL3 276_284
1288	SPVAHRVAL	Q8TEZ7 MPRB 226_234
1289	HPKSVIVGL	Q8IX04 UEVLD 119_127
1290	GFFKGLGPK	O75363 BCAS1 555_563
1291	KLPEGTLGH	Q8IY17 PLPL6 713_721
1292	ALSGLLLHK	Q5SXM2 SNPC4 1313_1321
1293	SPGPPTRKL	Q86XA9 HTR5A 63_71; Q9P2D3 HTR5B 63_71
1294	LLGPRVIGK	A8MYP8 ODF3B 149_157
1295	GRLASTLVH	Q00610 CLH1 1225_1233
1296	AVRKPAISL	Q5VSL9 STRP1 202_210
1297	SPIKRALGL	Q15751 HERC1 2578_2586
1298	IPSGKRALI	Q8IZP0 ABI1 12_20
1299	APKRPPSGF	O15347 HMGB3 92_100
1300	KLDIPTAAK	Q2MV58 TECT1 198_206
1301	KISALALLK	Q92905 CSN5 56_64
1302	MPHSSSAKL	Q9C0B5 ZDHC5 367_375
1303	ARTSPVTAR	P25205 MCM3 608_616

1304	SPITGRSKL	Q96E52 OMA1 217_225
1305	TPRGTTKVV	Q14202 ZMYM3 1245_1253
1306	VPHGHITSL	P41227 NAA10 67_75; Q9BSU3 NAA11 67_75
1307	AVTAMKSRP	Q9BW72 HIG2A 98_106
1308	KLGDIMGVK	Q92620 PRP16 474_482
1309	ARFTGAPLK	Q13505 MTX1 179_187
1310	VRLGSLSTK	Q99541 PLIN2 218_226
1311	RLSPAPLAH	Q92545 TM131 1320_1328
1312	KIASFPTAK	Q12849 GRSF1 340_348
1313	KLADFGGLAK	P50613 CDK7 152_160; Q9C098 DCLK3 496_504
1314	GRTPIHVAI	Q9P2R3 ANFY1 803_811
1315	VPASKRPPL	O60682 MUSC 23_31
1316	MPRGPTLGH	Q96TA2 YMEL1 622_630
1317	SPKLHAEAI	Q9NQ50 RM40 154_162
1318	LPKEHAASL	Q9H0A8 COMD4 98_106
1319	APTGHTLRL	O43681 ASNA 168_176
1320	GRTVLVIAH	Q9NRK6 ABCBA 682_690; Q9NUT2 ABCB8 660_668
1321	LPREPGKGL	Q8IXJ9 ASXL1 1413_1421
1322	APRVKEGPL	Q99607 ELF4 533_541
1323	RIAPVIGLK	P78345 RPP38 167_175
1324	KLLGPVLVK	O15212 PFD6 58_66
1325	GRTTIVIAH	P08183 MDR1 579_587; P21439 MDR3 581_589
1326	RPQQGKVVAL	Q6IQ21 ZN770 679_687
1327	QPLAAKRAL	Q6ZT21 TMPPE 370_378
1328	IVNPARKGL	Q9Y6K1 DNM3A 715_723
1329	APRAALTRL	P83436 COG7 566_574
1330	LPKGKAEL	Q9ULJ3 ZBT21 262_270
1331	APHLSKVSM	Q8N392 RHG18 583_591
1332	HTFGGPLLK	Q96PM9 Z385A 60_68
1333	APKRPPSAF	B2RPK0 HGB1A 94_102; P09429 HMGB1 94_102; P26583 HMGB2 94_102
1334	SIRKPPSSV	Q86XJ1 GA2L3 654_662
1335	TPSRKGLVL	Q9H4L4 SENP3 353_361
1336	LARRASALL	Q9Y2E5 MA2B2 371_379
1337	DPRRAASSL	Q16633 OBF1 222_230
1338	AVLGKGHQY	Q12769 NU160 1360_1368
1339	SPHGHILVL	Q9BY44 EIF2A 323_331
1340	GRKLISPAM	Q92609 TBCD5 465_473
1341	SVEAVARLK	Q9H008 LHPP 36_44
1342	ARAKIPLGF	Q9NR09 BIRC6 1869_1877
1343	KVGEVIVTK	P10809 CH60 344_352
1344	RILSGVVTK	P62280 RS11 71_79
1345	GRMIVGTLK	O95777 LSM8 20_28
1346	AVKVPSVFK	Q9H7F0 AT133 197_205
1347	VTFGHSLSK	Q16553 LY6E 61_69
1348	ALFQGIAKK	Q96BP3 PPWD1 404_412
1349	GAYGEPRVK	Q15392 DHC24 438_446
1350	KVADFGLAR	P08581 MET 1219_1227; P12931 SRC 404_412; P42685 FRK

1351	GLYKAPLSK	369_377; Q04912 RON 1223_1231; Q9H3Y6 SRMS 365_373  Q8NBM4 UBAC2 9_17
1352	RVSAIFVGK	Q9BTD3 TM121 244_252
1353	APRTDHPAL	O75648 MTU1 292_300
1354	ALNFAARSK	Q14807 KIF22 358_366
1355	SVPLPISHK	P51784 UBP11 485_493
1356	APRKPPQAL	Q9BST9 RTKN 435_443
1357	AVFASEVKK	P22087 FBRL 277_285
1358	GLYKGLEAK	O43808 PM34 265_273
1359	KIGDFGLTK	O60674 JAK2 991_999; P23458 JAK1 1018_1026
1360	ALAGHQQLR	P78527 PRKDC 28_36
1361	SPRDPAHTV	Q15397 K0020 447_455
1362	GVAQHREAL	Q9BQC3 DPH2 292_300
1363	ARIAVSNLH	P23921 RIR1 79_87
1364	KIGGIFAFK	P22307 NLTP 454_462
1365	TPAPRRAVL	Q5JTH9 RRP12 706_714
1366	VPSARRPVV	Q9H6E5 STPAP 361_369
1367	LPASPRARL	Q3KQU3 MA7D1 443_451
1368	LPLARVKAL	Q9NR33 DPOE4 41_49
1369	LRNPLIAGK	P62316 SMD2 110_118
1370	RPLLKAITA	Q96GQ7 DDX27 227_235
1371	SPVGKRLLL	Q7LBC6 KDM3B 7_15
1372	HLADILSSK	Q9UHI6 DDX20 324_332
1373	SPRLAAQKL	P49454 CENPF 3108_3116
1374	FSGKAYSPK	P01374 TNFB 115_123
1375	KPAMPRSVV	P51946 CCNH 72_80
1376	KRMVVPAAL	P40429 RL13A 116_124; Q6NVV1 R13P3 30_38
1377	LPSIRKASL	Q9ULT8 HECD1 537_545
1378	TPDQGKARL	Q53FV1 ORML2 74_82; Q8N138 ORML3 74_82; Q9P0S3 ORML1 74_82
1379	IRKGQAVTL	P37268 FDFT 316_324
1380	ARKISVVNV	Q9UKE5 TNIK 1017_1025
1381	EPRVGKTSL	Q8IXI2 MIRO1 12_20
1382	KPSPKTIAF	Q9BRU9 UTP23 149_157
1383	GPAVKRITF	Q96RQ9 OXLA 324_332
1384	AQFGGKILR	Q9P1Y6 PHRF1 159_167
1385	YDRPGASPK	Q12769 NU160 1151_1159
1386	APRPPPCKM	P62854 RS26 107_115; Q5JNZ5 RS26L 107_115
1387	AAKLEPKSF	Q99805 TM9S2 232_240
1388	KIMSSPLSK	P61254 RL26 28_36; Q9UNX3 RL26L 28_36
1389	KLADFGLAR	O94921 CDK14 271_279; P06493 CDK1 143_151; P11802 CDK4 155_163; P24941 CDK2 142_150; P50750 CDK9 164_172; Q00526 CDK3 142_150; Q00534 CDK6 160_168; Q00535 CDK5 141_149; Q00536 CDK16 301_309; Q00537 CDK17 328_336; Q07002 CDK18 278_286; Q14004 CDK13 852_860; Q96Q40 CDK15 239_247; Q9NYV4 CDK12 874_882  Q14155 ARHG7 656_664; Q15052 ARHG6 595_603
1390	RPAPPLRPS	P16885 PLCG2 1151_1159
1391	ATYPIKAVK	Q9NQ25 SLAF7 36_44
1392	AVTFPLKSK	P09912 IFI6 113_121

1394	APHEPVKTL	O60291 MGRN1 76_84
1395	LPKAHVQSL	Q6N021 TET2 668_676
1396	IPAKLHNSL	Q00341 VIGLN 660_668
1397	GRAIITKSF	Q99798 ACON 683_691
1398	SPDPSKHLL	Q38SD2 LRRK1 228_236
1399	SPSLHKLVL	P43897 EFTS 223_231
1400	KISDFGLSK	P43403 ZAP70 476_484; P43405 KSYK 509_517; Q8NFD2 ANKK1 160_168
1401	SSFSGLLRK	Q5VY09 IER5 275_283
1402	ALSSYVVKK	O95714 HERC2 3041_3049
1403	VLSQKVIAH	P49914 MTHFS 35_43
1404	ALDSHPLSR	Q8IZY2 ABCA7 273_281
1405	SVAEHPLSR	O60287 NPA1P 2107_2115
1406	KMAPTVLVH	Q6W2J9 BCOR 460_468
1407	RPSNKAPLL	Q9H9B1 EHMT1 564_572
1408	RPAPARPTM	Q9Y3L3 3BP1 567_575
1409	KPNANRIAL	P17931 LEG3 139_147
1410	APKRPPPLAF	P23497 SP100 768_776
1411	IPIKKSDPV	P13639 EF2 568_576
1412	TPRKPVLSV	Q9BW66 CINP 10_18
1413	RTIAPIIGR	Q99459 CDC5L 83_91
1414	KLLPSVVLK	Q99075 HBEGF 2_10
1415	HPAAKMIVM	P50990 TCPQ 80_88
1416	APKHMGLML	Q96EE3 SEH1 122_130
1417	GLDPSQRPK	Q8WVB6 CTF18 358_366
1418	NPALRKDAL	Q9Y4F4 F179B 192_200
1419	KVIPELNGK	P04406 G3P 219_227
1420	ARIAQLVAR	Q8NHU6 TDRD7 81_89
1421	GTDGHVHLY	Q96EX3 WDR34 412_420
1422	SPRKLPTSL	Q9UIG0 BAZ1B 197_205
1423	IPRTGVRSI	Q0P651 CD029 378_386
1424	SPRVTGRL	Q9BQ67 GRWD1 223_231
1425	TPAIKRSIL	P10242 MYB 452_460
1426	ITRSHTTAL	Q8NG31 CASC5 942_950
1427	FASGLIHRV	Q8N6L1 KTAP2 84_92
1428	ARNGMPLLK	Q9UKT9 IKZF3 411_419
1429	QVRKAVDAL	O76021 RL1D1 35_43
1430	QRVSGILVK	Q9UKF6 CPSF3 479_487
1431	SPGTRKIEL	Q86U44 MTA70 525_533
1432	IRAAQNISK	Q99623 PHB2 254_262
1433	KVSDLTIPK	Q9H7P9 PKHG2 378_386
1434	KPLSRVTSL	Q9NR81 ARHG3 40_48
1435	GRTELAIKL	Q9H269 VPS16 530_538
1436	KPMKSVLVV	P32248 CCR7 5_13
1437	KPKTGILML	P22830 HEMH 66_74
1438	GRIGFLPKI	Q9NZN5 ARHGC 570_578
1439	RLFIGGIPK	A0AV96 RBM47 152_160
1440	ITFHPGTTK	P19838 NFKB1 417_425

1441	GRSKTIVQL	Q9UPN3 MACF1 850_858
1442	QPAPPREAH	P46778 RL21 131_139
1443	VVMRDPASK	P22626 ROA2 51_59
1444	SPESLRSKV	P11940 PABP1 599_607; Q13310 PABP4 608_616; Q9H361 PABP3 594_602
1445	DTGRILSKL	A2A3N6 PIPSL 552_560; P55036 PSMD4 67_75
1446	ASDIAKHVY	O95164 UBL3 32_40
1447	GRIGNFIVK	Q00796 DHSO 55_63
1448	QVFKLGLAK	P46781 RS9 113_121
1449	TIRKAMATL	Q5PSV4 BRM1L 226_234
1450	VVYAPLSKK	Q9NRZ9 HELLS 467_475
1451	KSSAISLHY	Q7Z2Z2 ETUD1 71_79
1452	RPSLPTQAH	P49792 RBP2 1016_1024
1453	SLFSKEAPK	Q9GZR7 DDX24 67_75
1454	FPKVSTKSL	Q96AQ1 CC74A 324_332; Q96LY2 CC74B 324_332
1455	TRVFTLVGK	P13073 COX41 4_12
1456	RVFTGVVTK	Q8IX12 CCAR1 148_156
1457	GTYHGMLTK	Q6P1J9 CDC73 313_321
1458	AVRPVFAHL	Q14156 EFR3A 253_261
1459	RLLASTLVH	Q9NYF8 BCLF1 569_577
1460	SPHTPSTHF	Q14186 TFDP1 80_88
1461	NRTTIVVAH	Q9NP58 ABCB6 775_783
1462	QIRKAPQAV	O00472 ELL2 165_173
1463	RPKPIITSV	P0CG13 CTF8 109_117
1464	RPTLPVKSL	Q7Z422 SZRD1 80_88
1465	KLLAIPVEK	O75717 WDHD1 200_208
1466	RPKAQPTTL	Q6P2C8 MED27 147_155
1467	ARLPSLNKL	Q9BTT0 AN32E 58_66
1468	LPRKQGSIL	Q9H2U1 DHX36 300_308
1469	GSYESTLKK	Q6ZSC3 RBM43 235_243
1470	LPKARPMSL	P42695 CNDD3 1341_1349
1471	LPRSKDAIL	P49736 MCM2 390_398
1472	LPRSVKTVL	Q8IVS8 GLCTK 280_288
1473	RPLVVKTSL	P78345 RPP38 17_25
1474	SPHPQPTHL	P26842 CD27 137_145
1475	APMNVRRGGL	Q53G59 KLH12 363_371
1476	IVRKIGTNL	Q15390 MTFR1 36_44
1477	RLVQGSILK	P12004 PCNA 5_13
1478	RLGNSLLLK	Q10570 CPSF1 387_395
1479	SPKIASHQF	Q9Y6Q9 NCOA3 489_497
1480	SPRPKMDAI	Q5SSJ5 HP1B3 156_164
1481	IPRKSSVDL	Q8NEM7 SP20H 504_512
1482	APRLETKSL	Q6P6C2 ALKB5 289_297
1483	SPEVVRSKL	Q5T200 ZC3HD 198_206
1484	TPARKEISL	Q8NDZ2 SIMC1 397_405
1485	KPILSTRSL	O95456 PSMG1 251_259
1486	SPKKPVIVF	O75643 U520 1554_1562
1487	IRAGLIPKF	P52292 IMA1 116_124

1488	SRSKIVLLV	Q93073 SBP2L 207_215
1489	RTSTSTLLH	Q14157 UBP2L 712_720
1490	TPSSVRKQL	Q8IWZ3 ANKH1 1954_1962
1491	RLGDSQLVK	Q16531 DDB1 327_335
1492	KRTTVVAQL	P60228 EIF3E 73_81
1493	KPGMKLTEL	P12270 TPR 390_398
1494	KIPAVTYPK	Q7L0Y3 MRRP1 43_51
1495	RLFVGSIKP	O43390 HNRPR 247_255; O60506 HNRPQ 244_252
1496	GRTIPVVFK	P25685 DNJB1 278_286
1497	ARTAVYSLH	Q9NRN9 METL5 149_157
1498	GRLVLSNKM	Q13948 CASP 608_616
1499	ARVVQKLGF	P20226 TBP 238_246; Q6SJ96 TBPL2 275_283
1500	APRIESKSM	O60749 SNX2 110_118
1501	VPRPTKSSF	Q5VVJ2 MYSM1 548_556
1502	LPKKEGLSF	Q6WKZ4 RFIP1 293_301
1503	RLTTPVFGK	Q16850 CP51A 133_141
1504	APMIKKIAF	Q5UIP0 RIF1 286_294
1505	YPATKKQAL	Q9H2M9 RBGPR 587_595
1506	VPRVPTHTL	Q8IWZ3 ANKH1 715_723
1507	QRFASIVAK	A3KN83 SBNO1 1003_1011
1508	APQRAHEVL	Q9NVF7 FBX28 189_197
1509	KVNAVFSQK	Q9P1T7 MDFIC 150_158
1510	KVYTPVASR	Q9NS91 RAD18 115_123
1511	AIFKPVMSK	Q13547 HDAC1 239_247
1512	VPVHKLQSL	O14910 LIN7A 45_53
1513	RVLTVFTK	Q460N3 PAR15 619_627
1514	FPAKGKLFL	Q8TDD1 DDX54 415_423
1515	RPVPVPRSL	A6NHR9 SMHD1 220_228
1516	LPDNHKNAL	Q8WWC4 CB047 186_194
1517	SPRVHSLIL	Q9NZD8 SPG21 125_133
1518	KVYTPSISK	Q5VV42 CDKAL 496_504
1519	GRSLIINHL	Q9H892 TTC12 373_381
1520	VRLPLLSPK	Q9Y2M5 KLH20 257_265
1521	VPRKQPISV	Q9Y2W6 TDRKH 212_220
1522	TRSAIILHL	P53350 PLK1 517_525
1523	RQVIPIIGK	Q96RU3 FNBP1 239_247
1524	KSYPSLTTK	Q15029 U5S1 612_620
1525	KLATTILQH	P78527 PRKDC 1617_1625
1526	KIFSGVFVK	Q6DKI1 RL7L 114_122
1527	IPREVAVKL	Q9NZJ4 SACS 2488_2496
1528	RPQVAKTLL	Q9ULT8 HECD1 439_447
1529	RPKALTQVL	Q9Y2Q5 LTOR2 3_11
1530	IPLIKKNSL	Q5VYK3 ECM29 1659_1667
1531	RLSSVVTQH	P54577 SYYC 135_143
1532	RVMAPRALL	P10321 C07 2_10; Q29865 C18 2_10
1533	TPRLRAVTL	Q5VW36 FOCAD 536_544
1534	IPDGHTKEM	P07814 SYEP 702_710

1535	KPGDFIHTL	P04818 TYSY 244_252
1536	SRIAENLPK	Q96KR1 ZFR 822_830
1537	VPSKRQEAL	Q86UP2 KTN1 186_194
1538	IPQGERKTV	Q8N9R8 SCAI 51_59
1539	KPYAHILSV	Q99504 EYA3 75_83
1540	APQIRSRSL	Q13415 ORC1 471_479
1541	GRDAVLQR	P29590 PML 317_325
1542	KPQSVTVRL	Q7Z5K2 WAPL 575_583
1543	KPKDVLTL	Q5TAP6 UT14C 619_627; Q9BVJ6 UT14A 620_628
1544	KPMEKLLGL	Q9Y3D3 RT16 85_93
1545	IVAKRLESL	A3KN83 SBNO1 1008_1016; Q9Y2G9 SBNO2 868_876
1546	ARAKFIPLI	Q9NYV6 RRN3 412_420
1547	KLYTLPASH	P49815 TSC2 574_582
1548	HPTLLQHAL	Q12980 NPRL3 96_104
1549	GLYPKPMPK	Q8NBA8 DTWD2 273_281
1550	FRIEGLAPK	Q8N4H5 TOM5 2_10
1551	KPKNTIAIF	O60488 ACSL4 148_156
1552	KPKTNIAIF	O95573 ACSL3 157_165
1553	SRTDILSLK	Q5SWH9 TMM69 27_35
1554	RLLTSITTK	Q9NQW6 ANLN 909_917
1555	GLYLKPITK	Q02040 AK17A 21_29
1556	KIFSSLPLK	Q9HCM1 K1551 911_919
1557	HVYTPSTTK	Q9H9E1 ANRA2 113_121
1558	ALNVPLHNR	Q6ZMI0 PPR21 238_246
1559	KPQPPPRTL	A6NHT5 HMX3 47_55
1560	IPRNAPAPRL	Q9UKE5 TNIK 245_253
1561	SPETKKPTF	P82650 RT22 62_70
1562	STSERTLLK	Q6P2E9 EDC4 165_173
1563	GRNFWVSGL	Q15424 SAFB1 405_413
1564	ALDTKIGRY	O60264 SMCA5 920_928
1565	VVNPKVFPH	O75140 DEPD5 24_32
1566	SLYDAVLKK	Q7Z2Z2 ETUD1 303_311
1567	KPLPPSERL	O00571 DDX3X 138_146; O15523 DDX3Y 136_144
1568	KLGNFFSPK	P46940 IQGA1 80_88
1569	LAHVDLIEK	P62875 RPAB5 50_58
1570	TPINKRPVL	Q4LE39 ARI4B 325_333
1571	SLYRIATSK	Q6N075 MFSD5 297_305
1572	SMFTAILKK	P50851 LRBA 112_120
1573	SPRLPAREL	Q9H1K1 ISCU 20_28
1574	VPRTERPAL	Q9Y6J0 CABIN 1016_1024
1575	RPLKVPSEL	Q8IZE3 PACE1 645_653
1576	RVPDVVLIK	Q96D46 NMD3 397_405
1577	KVNSMVAYK	Q13257 MD2L1 192_200
1578	KPQEAPKEL	Q92917 GPKOW 61_69
1579	SPLKKEQPL	Q53H80 AKIR2 134_142
1580	RLNVTPLAR	P24752 THIL 303_311
1581	RLLNPLVSK	Q9BSC4 NOL10 504_512

1582	NRTIVITSH	P31689 DNJA1 282_290
1583	VVDPVVREK	Q9UKV0 HDAC9 36_44
1584	GRLQLVNKL	Q7Z7A1 CNTRL 500_508
1585	GTPEKPLYH	O60337 MARTH6 16_24
1586	SPREKTPEV	A6H8Y1 BDP1 965_973
1587	GLDDPRLEK	P30533 AMRP 145_153
1588	IPIKSRTDL	Q5T5J6 SWT1 236_244
1589	GRSQLILQK	Q7Z4L5 TT21B 300_308
1590	GMNKMVINH	P50990 TCPQ 51_59
1591	VRNLSTILK	O60671 RAD1 24_32
1592	ATFHTPFSH	O75521 ECI2 266_274
1593	IPRAKAEEM	P62993 GRB2 65_73
1594	MRAAINQKL	Q9NPA8 ENY2 12_20
1595	RMLAQAVK	P04844 RPN2 619_627
1596	KPYLPSRAL	P51587 BRCA2 2882_2890
1597	KLYPLPSAR	Q8TBM8 DJB14 36_44
1598	RVLTFLPAK	Q8NEZ5 FBX22 32_40
1599	KPKFILSVL	Q9BVK2 ALG8 140_148
1600	STAKHLLY	Q5JPH6 SYEM 253_261
1601	LPKKNGLYL	A0PK00 T120B 97_105; Q9BXJ8 T120A 101_109
1602	YLSPVRSPK	P06400 RB 606_614
1603	AIFPRAFPK	O60266 ADCY3 681_689
1604	ARAKFIPLM	A6NIE6 RN3P2 298_306
1605	ILFNNAVKK	P08243 ASNS 237_245
1606	ARIIRTAVF	Q14764 MVP 596_604
1607	KVADMALHY	P50990 TCPQ 296_304
1608	IADMGHLKY	P12004 PCNA 241_249
1609	FAHLPKSTF	P26641 EF1G 280_288
1610	IRTKALTNM	Q9BY77 PDIP3 245_253
1611	SIFKQPVTK	O95983 MBD3 106_114; Q9UBB5 MBD2 250_258
1612	KPMKTSPEM	P46013 KI67 3123_3131
1613	KSIDFPLTK	O75844 FACE1 243_251
1614	TPRHLQLAI	P0C0S5 H2AZ 83_91; Q71UI9 H2AV 83_91
1615	LPHNRLVSL	Q96CX6 LRC58 51_59
1616	ARTSVFLVR	Q8TEQ6 GEMI5 32_40
1617	GRTVILYKV	Q9H8H0 NOL11 40_48
1618	ILHLPLSQK	Q5TEJ8 THMS2 156_164
1619	ARLLPLPRL	Q9BY89 K1671 58_66
1620	TPHARIIEL	O96018 APBA3 537_545
1621	KSTFVNILK	P27707 DCK 34_42
1622	GTYSKIMNH	Q13464 ROCK1 285_293
1623	APDQHTRLL	O15360 FANCA 1323_1331
1624	KPESKYVSL	P15260 INGR1 299_307
1625	DVMLKGLFK	Q9H6E4 CC134 67_75
1626	LTDIKLGKY	Q14191 WRN 628_636
1627	IIDGKTLKY	Q9Y2Q0 AT8A1 743_751
1628	VVSEKQFSK	Q6P5R6 RL22L 66_74

1629	MPKPNHDTL	Q9BRR9 RHG09 677_685
1630	IINRPNTPK	O14787 TNPO2 754_762; Q92973 TNPO1 765_773
1631	KPAIRNQII	P36507 MP2K2 108_116; Q02750 MP2K1 104_112
1632	RPQLKNAL	Q5SSJ5 HP1B3 297_305
1633	KPQGLRIEI	P30414 NKTR 1258_1266
1634	KRTNIIPVI	P22087 FBRL 206_214
1635	GRMPFPVNH	P09936 UCHL1 177_185
1636	SVRQPSLHM	Q13330 MTA1 232_240; Q9BTC8 MTA3 215_223
1637	ILYDTSSKK	Q8NHV4 NEDD1 232_240
1638	KPQHVFSVL	Q7Z4G4 TRM11 144_152
1639	LPNKQRTVV	P04049 RAF1 62_70; P10398 ARAF 25_33; P15056 BRAF 161_169
1640	SPHTPNEKF	Q32P28 P3H1 505_513; Q8IVL5 P3H2 498_506
1641	ALYSVPRNH	Q9H4W6 COE3 411_419; Q9UH73 COE1 410_418
1642	QRLEGIVNK	Q99460 PSMD1 128_136
1643	KLNEVIVNK	Q9UHW9 S12A6 1089_1097
1644	RPTTRLVTI	Q96I15 SCLY 185_193
1645	YPKRPLLGL	Q9GZR7 DDX24 383_391
1646	IPRSMKVIL	Q9NXL9 MCM9 216_224
1647	SPIERQKSL	Q6ZS81 WDFY4 61_69
1648	QLSKPLSER	Q6VY07 PACS1 517_525
1649	KVLFPLLLTK	Q92538 GBF1 1591_1599
1650	VVMRDPNTK	P09651 ROA1 44_52; Q32P51 RA1L2 44_52
1651	APYSRPKQL	Q86V81 THOC4 75_83
1652	IPELHRPVV	Q9H8H2 DDX31 211_219
1653	KVSQVIMEK	O75475 PSIP1 407_415
1654	SPSLRKQVF	Q1ED39 KNOP1 96_104
1655	APNYRLKSL	Q16594 TAF9 124_132; Q9HBM6 TAF9B 124_132
1656	AIFKVLNEK	Q9Y2X3 NOP58 12_20
1657	LLPNHVLQK	P51003 PAPOA 496_504
1658	RSYSDPPLK	P52597 HNRPF 192_200
1659	SRVQVQKAF	Q9BWW8 APOL6 214_222
1660	SRVIVMTTR	P29350 PTN6 344_352
1661	GRFLPLKTM	O60942 MCE1 22_30
1662	SPRQVHLLL	Q96BY7 ATG2B 323_331
1663	LFDHAVSKF	O60488 ACSL4 82_90
1664	QVSVRPLQH	P39656 OST48 407_415
1665	RPSLPLPHF	Q9BV38 WDR18 331_339
1666	KVYNGILEK	Q9P246 STIM2 669_677
1667	NKADVILKY	O14602 IF1AY 87_95; P47813 IF1AX 87_95
1668	LVANFFPKK	P61289 PSME3 29_37
1669	KLLQPLVPR	Q8N8A6 DDX51 637_645
1670	GPHPQREML	Q9BYI3 HYCCI 164_172
1671	NPLHKQQSL	Q9NU19 TB22B 147_155
1672	KLYDIDVAK	P62750 RL23A 115_123
1673	IPHTNRTIL	Q9NQ25 SLAF7 287_295
1674	KPRPIIPML	O94953 KDM4B 521_529
1675	IRSQAIHQQL	Q15046 SYK 79_87

1676	KLFNGTFLK	P86790 CCZ1B 146_154; P86791 CCZ1 146_154
1677	NPNLRKNVL	P23193 TCEA1 203_211
1678	GRMVQVHEL	Q15436 SC23A 170_178; Q15437 SC23B 170_178
1679	LPSAQRFHI	O00182 LEG9 248_256; Q3B8N2 LEG9B 249_257; Q6DKI2 LEG9C 249_257
1680	APPKWTLQL	Q3KRA9 ALKB6 45_53
1681	VPRVSLERL	Q13263 TIF1B 485_493
1682	NIQVQKLLN	O60890 OPHN1 414_422
1683	QVRPVTEKL	P38606 VATA 213_221
1684	KSFEDPPNH	P26358 DNMT1 1094_1102
1685	RVNINVPMK	Q13616 CUL1 681_689
1686	IPRITSDRL	O14531 DPYL4 9_17; Q14195 DPYL3 9_17; Q16555 DPYL2 9_17
1687	VRLPPITKF	Q8NI36 WDR36 439_447
1688	RPMSESPHM	Q07352 TISB 280_288
1689	RQSDLLVKL	Q06265 EXOS9 94_102
1690	IVQTVRSRSL	Q5VWP2 FA46C 51_59
1691	AVYTKMMTK	P11413 G6PD 399_407
1692	RIAEEETILK	Q9Y247 FA50B 34_42
1693	QLFQLPAKK	Q15014 MO4L2 145_153
1694	APLLRKVYL	Q5XPI4 RN123 325_333
1695	LLYSHPTSR	Q9UQ49 NEUR3 329_337
1696	VVMRDPPQT	P51991 ROA3 65_73
1697	KTEEIKNVL	Q86YA3 ZGRF1 1237_1245
1698	AMHGVFLYH	Q99707 METH 593_601
1699	IMNQEKLAK	P20290 BTF3 49_57
1700	QVFQKSLPK	Q92539 LPIN2 532_540
1701	KPVYRVAEI	Q92541 RTF1 397_405
1702	VPRTKVVYL	Q9BTU6 P4K2A 208_216
1703	VADKVHLMY	Q14258 TRI25 593_601
1704	YPAERKQAL	O43592 XPOT 608_616
1705	SLMHSFILK	Q9NP97 DLRB1 44_52
1706	NPSKKYNIL	Q9BUJ2 HNRL1 445_453
1707	SRFAQIVQK	Q9Y5J9 TIM8B 72_80
1708	LLHLPLSQR	Q8IY21 DDX60 319_327
1709	ARIQEAVYK	Q8TEM1 PO210 220_228
1710	KASEVFLQR	Q9H0A0 NAT10 520_528
1711	QIYSVVLKK	P20592 MX2 583_591
1712	KTLNIFLT	Q8TD19 NEK9 178_186
1713	LPRTPRPEL	Q8N1W2 ZN710 174_182
1714	KLISTLIYK	O14980 XPO1 245_253
1715	AVYENAREK	Q75QN2 INT8 269_277
1716	ETQKAALRY	Q7L8J4 3BP5L 129_137
1717	VRAEVQHQL	Q6P2E9 EDC4 1196_1204
1718	LIAPIFLHR	Q15022 SUZ12 105_113
1719	RIFEPPPK	O43143 DHX15 399_407
1720	IAFSRPVKY	Q99759 M3K3 58_66
1721	KLFDFVNAK	Q08945 SSRP1 413_421
1722	IPREQGLRL	Q15149 PLEC 3262_3270

1723	GRVFIIKSY	Q7Z739 YTHD3 416_424; Q9BYJ9 YTHD1 389_397; Q9Y5A9 YTHD2 410_418
1724	RPVMPSRQI	Q9UNN5 FAF1 85_93
1725	QPKLPMRTL	O43432 IF4G3 658_666
1726	RPVLTKEQL	Q9Y3Y2 CHTOP 208_216
1727	LPQTRRISL	P50851 LRBA 2191_2199
1728	IRKVMVNPLL	Q9P0J6 RM36 6_14
1729	LPSENHKEM	Q15785 TOM34 161_169
1730	KTDESLTKY	Q9HCK8 CHD8 1838_1846
1731	FTVPHTHVF	Q8NFZ0 FBX18 688_696
1732	IPLMRDRAL	Q6PJG2 EMSA1 733_741
1733	RVELRPTTL	Q6ZRI6 CO039 870_878
1734	IRTITVVQR	Q9NW64 RBM22 258_266
1735	MTKKPGMFF	P11413 G6PD 405_413
1736	KPQHVTETF	Q9BUZ4 TRAF4 400_408
1737	NINRPLTMK	P23771 GATA3 349_357
1738	LRVTPFILK	Q8N4H5 TOM5 38_46
1739	IVYGQPRTR	O15270 SPTC2 296_304
1740	QPRLHIVEV	O95936 EOMES 397_405; Q9UL17 TBX21 267_275
1741	IPDHFRPPL	Q9HAH7 FBRS 72_80
1742	QRAEVITKF	Q8IV61 GRP3 217_225
1743	KQDSNPLYK	P26010 ITB7 771_779
1744	RPMMDKTVVF	Q8NG31 CASC5 963_971
1745	RSDTPLIYK	P41252 SYIC 402_410
1746	VVYFPVRGR	P09211 GSTP1 6_14
1747	RPPQRQVVL	Q92621 NU205 486_494
1748	LVRKIYSTL	O75746 CMC1 231_239
1749	HTETKTITY	P11171 41 759_767; Q9Y2J2 E41L3 979_987
1750	ARFYAVQKL	Q16891 IMMT 633_641
1751	AIYEPKTFK	Q9BYC9 RM20 106_114
1752	KLGEFFQTK	Q15029 U5S1 713_721
1753	RIIDLVLQK	O15397 IPO8 638_646
1754	SPMVRKYAF	Q9Y2L5 TPPC8 554_562
1755	KPEEQRQAL	Q15149 PLEC 1055_1063
1756	TPHQTFVRL	P04844 RPN2 430_438
1757	SVYVYKVLK	O60814 H2B1K 39_47; P57053 H2BFS 39_47; P58876 H2B1D 39_47; P62807 H2B1C 39_47; Q5QNW6 H2B2F 39_47; Q93079 H2B1H 39_47; Q99877 H2B1N 39_47; Q99879 H2B1M 39_47; Q99880 H2B1L 39_47
1758	QRQSILIK	P33240 CSTF2 559_567; Q9H0L4 CSTFT 598_606
1759	KPIQRTILM	P13639 EF2 445_453
1760	KLLEIQTEK	Q9H3R5 CENPH 171_179
1761	KVSDYILQH	O75129 ASTN2 1097_1105
1762	NPKRQTLVF	Q9GZR7 DDX24 498_506
1763	VVYPKVIER	P30566 PUR8 363_371
1764	KLYLPVQNK	Q9Y6A4 CP080 182_190
1765	KQPTIFQNK	P62280 RS11 12_20
1766	LPRQHLVQL	Q96MT1 RN145 72_80
1767	RLDEMLVK	P21359 NF1 103_111

1768	KVLDKLLY	Q9BX5 SRRT 607_615
1769	QPRLYKTV	P21281 VATB2 42_50
1770	RPMDKTVLF	Q8NG31 CASC5 1175_1183
1771	KLYEPLSK	Q13535 ATR 289_297
1772	IRSKIITYI	Q15046 SYK 246_254
1773	ILFFNTPKK	P48556 PSMD8 290_298
1774	VIFKDFVNK	Q63HN8 RN213 1305_1313
1775	GRSGYNYFF	Q8NCE2 MTMRE 155_163
1776	RITTPYMTK	P61218 RPAB2 51_59
1777	LLKSFFTEK	Q9Y3Q3 TMED3 200_208
1778	YLDKGILKY	Q9H4L5 OSBL3 75_83
1779	SIYVYKVLK	P06899 H2B1J 39_47; P23527 H2B1O 39_47; P33778 H2B1B 39_47; Q16778 H2B2E 39_47; Q6DN03 H2B2C 39_47; Q6DRA6 H2B2D 39_47; Q8N257 H2B3B 39_47
1780	RLFTDVLLH	O14682 ENC1 43_51
1781	RLLDQIVEK	Q96AE4 FUBP1 162_170
1782	RLFEPLVIK	P42858 HD 1423_1431
1783	FSDSKIQKY	Q6KC79 NIPBL 2559_2567
1784	RPLYKNIVL	P61158 ARP3 313_321
1785	VPREYIRAL	Q9NV06 DCA13 37_45
1786	AVYNNIMRH	Q9BYX4 IFIH1 452_460
1787	MPQKERESI	P38919 IF4A3 311_319
1788	SPMEEREKL	Q96LB3 IFT74 300_308
1789	SRFIQLVQK	Q5T447 HECD3 697_705
1790	SVYFPTLRH	A6NIE6 RN3P2 209_217; Q9NYV6 RRN3 233_241
1791	LLYEKNLVK	P15907 SIAT1 372_380
1792	IRNILLHQL	P29728 OAS2 276_284
1793	NLDKNLJKY	P08575 PTPRC 434_442
1794	KSDLRPMLY	Q9UI26 IPO11 509_517
1795	DMDKVLLKY	Q02078 MEF2A 61_69; Q06413 MEF2C 61_69; Q14814 MEF2D 61_69
1796	TSERTVLRY	O60231 DHX16 487_495
1797	LLDEHHISY	Q69YQ0 CYTSA 469_477
1798	SVHWFPVQK	Q9UH36 SRR1L 294_302
1799	ILENIQRNK	P18074 ERCC2 557_565
1800	HLDLTEHY	Q9Y421 FA32A 95_103
1801	RVLYPYPFTH	Q9BVJ6 UT14A 683_691
1802	ILYPVIFHK	Q92966 SNPC3 186_194
1803	YTDKKSIYY	Q9ULZ2 STAP1 57_65
1804	RTLQQMLLK	Q14573 ITPR3 1667_1675
1805	KPYFPPRIL	Q92508 PIEZ1 1766_1774
1806	FTESQKTKY	Q9GZR7 DDX24 801_809
1807	VTLTWMRPK	Q92673 SORL1 1571_1579
1808	IPKDNRLYL	P35606 COPB2 567_575
1809	RIYEPLDVK	P47712 PA24A 533_541
1810	QRIQLAEKF	Q8N1G2 CMTR1 678_686
1811	QTDKLKELY	O76094 SRP72 107_115
1812	RPQLQRQVL	Q96HA7 TONSL 426_434

1813	LTEKANHYY	Q5TA45 INT11 271_279
1814	KTMNIYFPK	Q9Y263 PLAP 529_537
1815	ISENKFLKY	Q9NVV4 PAPD1 86_94
1816	VVYKYLTEK	Q5BJD5 TM41B 174_182
1817	YRLPEVIQK	Q9UKL0 RCOR1 370_378
1818	EIDKNDHLY	Q9UNF1 MAGD2 338_346
1819	TMNEKQLFH	Q460N5 PAR14 1674_1682
1820	YQFTGIKKY	Q96IX5 USMG5 10_18
1821	KMDDLNLYH	Q8NCJ5 SPRY3 14_22
1822	RVMQDIVYK	Q9BSM1 PCGF1 102_110
1823	KQFPEVIKY	Q9UIF9 BAZ2A 588_596
1824	FKNPIIEKY	P00973 OAS1 278_286
1825	DMDRVLLKY	Q02080 MEF2B 61_69
1826	RTIFPLFMK	Q8WYA6 CTBL1 380_388
1827	PSDPKQYRY	O43847 NRDC 107_115
1828	IVYEKIMEH	O75643 U520 707_715
1829	RQIPYTMMK	Q00325 MPCP 226_234
1830	FVYEPKEQK	Q16666 IF16 589_597
1831	YVFPKPFNR	O95453 PARN 91_99
1832	VLYDRVVLKY	Q9UHB9 SRP68 484_492
1833	ETEKMIEKY	P11277 SPTB1 299_307; Q01082 SPTB2 299_307
1834	KMYEEFLSK	P10644 KAP0 244_252; P31321 KAP1 244_252
1835	YTNKEMLK	Q9H6S0 YTDC2 389_397
1836	ARGPGRPAV	Q15561 TEAD4 151_159
1837	GPGSKRLGI	Q8WYR1 PI3R5 710_718
1838	RPAGGRPSP	Q92615 LAR4B 711_719
1839	PAGRARGIP	Q14966 ZN638 44_52
1840	VPGPRRSGA	Q99805 TM9S2 27_35
1841	RPHAPGTPA	Q8TDD1 DDX54 808_816
1842	HPARLGAAL	Q14761 PTCA 66_74
1843	ARKSAVAGF	Q9NVI1 FANCI 532_540
1844	GRGPAPRTV	Q9NTI7 F212B 82_90
1845	GRLGRAPAL	Q9H903 MTD2L 13_21
1846	GPRAGFGHL	Q96C10 DHX58 85_93
1847	GRVAPRSGL	P33316 DUT 168_176
1848	RGSLARAAL	P62851 RS25 80_88
1849	GRLSLGASR	O43318 M3K7 364_372
1850	GRVSFPAGK	Q8NHP8 PLBL2 198_206
1851	RPRAPPAGP	Q86U42 PABP2 76_84
1852	HPKPEGLAA	Q7Z7F0 K0907 299_307
1853	RGHPVGLAL	Q14142 TRI14 54_62
1854	RIVAPPGGR	Q14194 DPYL1 557_565; Q14195 DPYL3 555_563; Q16555 DPYL2 557_565
1855	RPVGPGRAL	Q5SY16 NOL9 117_125
1856	GRASYGVSK	Q00839 HNRPU 323_331
1857	RPAALRGAL	O00584 RNT2 2_10
1858	RLRLGGAAL	P53801 PTTG 14_22
1859	HAMGGREGL	P24928 RPB1 839_847

1860	SPHGPSAKF	Q8TDN6 BRX1 133_141
1861	GRSAVGHVVF	Q69YN4 VIR 808_816
1862	GRTSRIAGL	Q92542 NICA 113_121
1863	ARIKGAATF	Q8WUH2 TGFA1 114_122
1864	GRNGYGAKL	P11388 TOP2A 161_169; Q02880 TOP2B 182_190
1865	GRIEGHIGV	Q9C0G0 ZN407 795_803
1866	RPNGGPRAL	P17483 HXB4 243_251
1867	APRRPGPGM	Q92611 EDEM1 86_94
1868	GRFLGKGGF	P53350 PLK1 56_64
1869	RPGGRLVAL	A6NJ78 MET15 311_319
1870	SRLGAHEGL	Q99081 HTF4 89_97
1871	GRLNARPGV	Q9BY77 PDIP3 19_27
1872	RPRAAATVVA	P10644 KAP0 333_341; P31321 KAP1 333_341
1873	RAKGVS IPL	Q6Y7W6 PERQ2 520_528
1874	APRHGS LGF	P39023 RL3 8_16
1875	ARKGVQLGL	Q9Y276 BCS1 32_40
1876	PRSGVSLAR	Q99700 ATX2 134_142
1877	GPRAFGRAL	Q5JSZ5 PRC2B 1197_1205
1878	RPKGLGLGF	Q9NW75 GPTC2 502_510
1879	APHVHGQSL	Q8N0W3 FUK 1013_1021
1880	GRKGVA INM	P60842 IF4A1 367_375
1881	GRASISRSL	Q70CQ1 UBP49 334_342
1882	SPHRPLAGL	Q96AA3 RFT1 457_465
1883	NPRSLGGHL	O60281 ZN292 1386_1394
1884	RPRLVAAAV	O95905 SGT1 224_232
1885	SPHramaal	P42858 HD 2911_2919
1886	RPRIAGITA	Q14746 COG2 197_205
1887	GAFLRHAAL	Q9ULX3 NOB1 12_20
1888	RVRASA ALL	Q9NV31 IMP3 72_80
1889	GRTGLRVVV	Q8TEM1 PO210 1249_1257
1890	GRKQGVISL	Q8N140 EID3 301_309
1891	RTGPPMGSR	Q15056 IF4H 175_183
1892	RARAASDVL	Q8NFZ5 TNIP2 135_143
1893	GRLGLVTSR	Q7Z3U7 MON2 593_601
1894	RRVSVTAVA	O43674 NDUB5 8_16
1895	SPHF KSGSL	P35573 GDE 871_879
1896	SPGSRK MVV	Q9Y4X0 AMMR1 118_126
1897	RAKSQGMAL	P53618 COPB 930_938
1898	GRIGQVGKF	Q8NDD1 CA131 264_272
1899	GRKGVA INF	P38919 IF4A3 372_380; Q14240 IF4A2 368_376
1900	GRFSGLLGR	Q14005 IL16 881_889
1901	VRAGR GFS L	P26373 RL13 70_78
1902	KPKGYAVSL	Q8N2R8 FA43A 22_30
1903	KRLGASLA F	P78527 PRKDC 1074_1082
1904	RAFD SAVAK	Q16891 IMMT 443_451
1905	SVRPGASYK	Q8NEY8 PPHLN 172_180
1906	ARFTGIKTA	Q9GZR7 DDX24 411_419

1907	RTFVGSLGK	Q6IQ21 ZN770 383_391
1908	GRYGGGETKV	Q16629 SRSF7 5_13
1909	LPRRAALGL	Q6B0I6 KDM4D 366_374; Q6UXH1 CREL2 3_11
1910	RPAALGLRL	Q9UJA2 CRLS1 52_60
1911	RPSSHSPSL	Q9NZV8 KCND2 511_519
1912	SPRGHLTLS	Q9NPQ8 RIC8A 502_510
1913	RVAPAHGLF	Q8N0Z8 PUSL1 270_278
1914	RPKLSSPAL	Q09472 EP300 15_23
1915	RRLGLALGL	Q15293 RCN1 8_16
1916	GPRKALSQQL	Q8TF39 ZN483 65_73; Q9HBT7 ZN287 55_63
1917	RRAAIAAQAL	Q2TAY7 SMU1 141_149
1918	FGKKTGE GF	Q16836 HCDH 302_310
1919	GPRGRVSEL	Q8WTP8 AEN 121_129
1920	GRLRDVAAL	Q5UCC4 EMC10 96_104
1921	RTRLGALAL	Q6SPF0 SAMD1 289_297
1922	RARSGVIVL	P19447 ERCC3 332_340
1923	KRTGLLIGL	Q8WYP5 ELYS 90_98
1924	TRIGHGFAL	Q9NZK5 CECR1 380_388
1925	RVRVSGQQL	P21333 FLNA 2049_2057
1926	GRVGVITNR	P22090 RS4Y1 190_198; Q8TD47 RS4Y2 190_198
1927	APRERGSSL	Q9Y6D5 BIG2 270_278
1928	RVGPVRSAM	Q96RU8 TRIB1 2_10
1929	RVASAREAL	O60664 PLIN3 393_401
1930	RRSALGITV	Q14145 KEAP1 553_561
1931	RASAVRNSL	Q6N063 OGFD2 308_316
1932	GRLPYKAGL	Q96P48 ARAP1 866_874
1933	KRLGLLAGF	P55061 BI1 83_91
1934	RPHTPTPGI	P62995 TRA2B 198_206
1935	KRN SGVPAF	P42858 HD 2379_2387
1936	GRTAKSWGL	P54709 AT1B3 30_38
1937	KVWSAVTGK	Q969H0 FBXW7 404_412
1938	GRGLFLEGK	Q9NU22 MDN1 5498_5506
1939	KRFADAASL	Q9BW27 NUP85 551_559
1940	RPRGPSPLV	Q9Y2K2 SIK3 509_517
1941	EPRHGGLTL	Q9BV38 WDR18 351_359
1942	RPDG HIVSV	Q8N122 RPTOR 1222_1230
1943	SRASTLAKF	P04035 HMDH 135_143
1944	TRSGAIFTK	P52701 MSH6 720_728
1945	HRNGGLITL	Q96H20 SNF8 113_121
1946	RPGA HPLSF	Q96PU4 UHRF2 310_318
1947	HPAGPRTVF	O95563 MPC2 34_42
1948	HARTITVAL	P49588 SYAC 301_309
1949	GRFEGTSTK	P30532 ACHA5 141_149
1950	GRSSVFSSR	Q8IZF4 GP114 39_47
1951	RPGAERPSL	Q96L34 MARK4 517_525
1952	RRLAAVALI	P46940 IQGA1 387_395
1953	NAAERRGPL	P01903 DRA 246_254

1954	RVRGGVQVL	Q13620 CUL4B 482_490
1955	RPTGGRLEV	Q6P1N0 C2D1A 778_786
1956	SPEGRRVAL	Q6P9A2 GLT18 106_114
1957	SPRSGLIRV	P41250 SYG 335_343
1958	KRTAVLLAL	P33897 ABCD1 16_24
1959	GRIGVITNR	P62701 RS4X 190_198
1960	RRNIGVTAV	P18859 ATP5J 22_30
1961	HAAAYRNAL	P22695 QCR2 178_186
1962	RPTAAPRSM	Q9NQW6 ANLN 26_34
1963	GRNWAAIAK	O75376 NCOR1 644_652
1964	ARKSGQLNL	Q9H9A6 LRC40 35_43
1965	RPKEGTSTL	Q9Y5W9 SNX11 236_244
1966	RPGAFKAEL	Q969H8 CS010 151_159
1967	RPVPKGATY	P61313 RL15 73_81
1968	GRIPGIYGR	Q9NTJ3 SMC4 610_618
1969	GRFGPSLVR	Q5SNT2 TM201 635_643
1970	APKYGRGQL	Q7Z591 AKNA 346_354
1971	KRTPAQAAF	Q9Y421 FA32A 57_65
1972	QRLGAKLGF	Q9Y487 VPP2 167_175
1973	APRSGRSLF	Q9H8Y5 ANKZ1 298_306
1974	TPGSFRRGL	Q9NXR1 NDE1 228_236
1975	GRLVTRAAC	P04406 G3P 15_23
1976	GAARYRLAL	O60449 LY75 117_125
1977	SRAGLRALF	Q8N0V3 RBFA 11_19
1978	GRSSTFLSH	Q8NFH3 NUP43 306_314
1979	RPDSPAHVL	Q05923 DUS2 102_110
1980	RVFSTSPA	Q99828 CIB1 75_83
1981	GRLLRSSGF	Q6NUQ4 TM214 513_521
1982	RIATGSFLK	P22234 PUR6 102_110
1983	RPRAPIIAV	P14618 KPYM 445_453
1984	SRFQKSAGL	Q9H6U6 BCAS3 456_464
1985	RVYGGLTTK	Q8WUM4 PDC6I 606_614
1986	SRIALKSGY	Q14331 FRG1 105_113; Q9BZ01 FRG1B 38_46
1987	SRSGIRTGY	P49327 FAS 1916_1924
1988	KPKSYSSSL	Q9H0H0 INT2 675_683
1989	RPGLNKAQL	O75446 SAP30 170_178
1990	KPRLAGENL	Q5T6F0 DCA12 384_392
1991	RLGQPLTGR	Q96EY7 PTCD3 15_23
1992	TPGRVREAL	Q15269 PWP2 746_754
1993	RRDVGVIAL	Q15040 JOS1 104_112
1994	GRKQLAVNL	Q96FB5 RRNAD 13_21
1995	RRVVSILGV	Q9H3U1 UN45A 240_248
1996	TPHVVGSRF	Q9NUT2 ABCB8 124_132
1997	KPQGPRGFL	Q9BVK2 ALG8 355_363
1998	KARDINAVL	P55265 DSRAD 326_334
1999	KRVEGALNL	Q9NRC1 ST7 453_461
2000	GRLPNNSSR	Q15910 EZH2 356_364

2001	GRSRVLEAL	Q92547 TOPB1 1115_1123
2002	ARSKLQQGL	O75362 ZN217 184_192
2003	KASLRELAL	P13489 RINI 226_234
2004	GRALTAHLY	P53365 ARFP2 147_155
2005	KRGDFIPGL	P08559 ODPA 244_252
2006	KRISTITAL	Q96T23 RSF1 426_434
2007	RLFGATNPK	Q9BXJ9 NAA15 740_748
2008	SPREPGYKA	Q9Y2W1 TR150 698_706
2009	RPAKSMDSL	Q2M1Z3 RHG31 342_350; Q7Z6I6 RHG30 323_331
2010	RTRTAVTSL	Q9P0M9 RM27 9_17
2011	FPRSKSAVL	Q86WJ1 CHD1L 875_883
2012	SPAGKRYLL	Q92552 RT27 22_30
2013	GRRVLVTGF	P80217 IN35 132_140
2014	SPNGHRPQL	Q5SNT6 FA21B 987_995; Q5SRD0 FA21D 42_50; Q641Q2 FA21A 1075_1083; Q9Y4E1 FA21C 1052_1060
2015	HPRSPTPTL	Q96HE9 PRR11 341_349
2016	HPLSDHEAT	P10321 IC07 216_224
2017	RAFGTRDAL	P47974 TISD 234_242
2018	RPSNVAHIL	Q6ZW49 PAXI1 352_360
2019	GPRDHSQL	Q9NRL2 BAZ1A 874_882
2020	RPLNSHATL	Q9NU22 MDN1 455_463
2021	NRAGMFVSK	P56192 SYMC 655_663
2022	RRLAALPNV	P33992 MCM5 323_331
2023	IPRRGEIGL	Q5M9Q1 NKAPL 318_326; Q8N5F7 NKAP 331_339
2024	RPTPRGITL	Q7Z614 SNX20 298_306
2025	RPKPESQGI	Q9Y2X9 ZN281 223_231
2026	KRLLQAVAL	Q86SR1 GLT10 6_14
2027	SAKSRAVAFF	P35240 MERL 584_592
2028	RPLARVTSI	Q7Z628 ARHG8 93_101
2029	RPYSHALVA	P61353 RL27 36_44
2030	KPQGSRLDL	Q99797 MIPEP 50_58
2031	RPISGQKEV	Q99470 SDF2 168_176
2032	APRTVSRNL	Q13415 ORC1 435_443
2033	RARLSNLAL	O14737 PDCD5 53_61
2034	ARSRALVQL	Q92917 GPKOW 442_450
2035	RPGNFSHSL	O00400 ACATN 15_23
2036	KPQGQRTSL	Q92547 TOPB1 1086_1094
2037	RRFGVPVIA	P12268 IMDH2 355_363
2038	RPAARAFLL	P0CB43 F203B 186_194; Q9BTY7 F203A 186_194
2039	KPKPGNMFP	Q92585 MAML1 561_569
2040	QRGPVRVGF	Q9H0K1 SIK2 11_19
2041	RVKAAQTEL	Q5VIR6 VPS53 203_211
2042	KRSGQVLEV	P21281 VATB2 81_89
2043	RRSNVLTGL	O00257 CBX4 88_96
2044	KPKEADESL	Q9Y490 TLN1 2331_2339
2045	KPRDSSVEV	O15371 EIF3D 156_164
2046	HVVGNISK	Q9Y2F5 K0947 1936_1944

2047	APRDGRVVF	Q96FS4 SIPA1 622_630
2048	RPSSRVALM	Q96KQ7 EHMT2 470_478
2049	RRAAVETTL	Q9P2M7 CING 711_719
2050	RVRASLSDL	Q969K3 RNF34 250_258
2051	RPDGKLLAF	Q9UJX5 APC4 74_82
2052	RPLGTRLGF	O43674 NDUB5 21_29
2053	YRLGPLLGK	Q9P1W9 PIM2 32_40
2054	YPHGSTDKL	Q99436 PSB7 157_165
2055	NPRFGGKEL	Q14566 MCM6 307_315
2056	RRAAAIQTM	O75326 SEM7A 460_468
2057	GRSKLTENL	Q00537 CDK17 209_217; Q07002 CDK18 159_167
2058	RRGQFVAAL	Q6ZNJ1 NBEL2 2583_2591
2059	RPHVAQPTL	Q53H47 SETMR 591_599
2060	KPTFGRSIL	Q9UDY2 ZO2 1042_1050
2061	HPIRVVNAL	Q5T2E6 CJ076 93_101
2062	RPRGLPPLL	Q2MV58 TECT1 2_10
2063	HPRVGDLIL	Q53GS7 GLE1 513_521
2064	ARSLQKLGF	P62380 TBPL1 85_93
2065	RARPATDSF	P23588 IF4B 200_208
2066	GRTETTVTR	O00165 HAX1 234_242
2067	RIFGEAAEK	P21359 NF1 69_77
2068	ARMSKTVDL	P25205 MCM3 631_639
2069	RVKEIGSTM	O00422 SAP18 102_110
2070	NPHDRVVAL	Q15751 HERC1 3166_3174
2071	RAFAERASL	Q96K58 ZN668 371_379
2072	VRDGSVFLK	Q12802 AKP13 2233_2241
2073	SRVKFSPSL	Q9Y2X0 MED16 160_168
2074	HPKENIIAV	P63151 2ABA 425_433
2075	TPHLRNLA V	Q5JS54 PSMG4 44_52
2076	RAALFRSSL	Q9H490 PIGU 16_24
2077	KKSDPVVSY	P13639 EF2 571_579
2078	SPSYRKATL	Q15078 CD5R1 8_16
2079	HPKGWATLL	Q5QP82 DCA10 419_427
2080	KRLGSSVIY	Q07864 DPOE1 1857_1865
2081	NPDHARNSL	Q9NRR4 RNC 909_917
2082	GRLRIQPAL	Q9Y603 ETV7 45_53
2083	GRVSIYDSK	P55265 DSRAD 1107_1115
2084	SRLKASESF	Q8TB05 UBAD1 83_91
2085	RLQAPVGQR	Q9Y2Y4 ZBT32 195_203
2086	PESHLRTSV	Q9HAU5 RENT2 718_726
2087	SPRSLHSEL	Q06587 RING1 38_46; Q99496 RING2 41_49
2088	ARKAGNFYVV	P18124 RL7 75_83
2089	KRMGMSFGL	Q14188 TFDP2 316_324
2090	RPRPSGEEV	P33992 MCM5 112_120
2091	RPKAENQAL	Q96KM6 Z512B 76_84
2092	RPRAPETSL	Q9NVE5 UBP40 1219_1227
2093	RRPTEATV	Q92619 HMHA1 940_948

2094	RPSVRNGQL	Q96EB1 ELP4 53_61
2095	RPKEPSSLL	A5PL33 KRBA1 998_1006
2096	RPRPVVTTT	Q8N114 SHSA5 141_149
2097	RRVGTVLILL	P50851 LRBA 609_617
2098	RVRTLVLGL	O75081 MTG16 198_206; Q06455 MTG8 147_155
2099	FPRTEAGHL	Q96HD9 ACY3 231_239
2100	SRIHPVSTM	P07195 LDHB 269_277
2101	GRHGVFLEL	Q13200 PSMD2 299_307
2102	QPREKGLSL	Q16589 CCNG2 32_40
2103	RPTARINSI	Q9ULK4 MED23 213_221
2104	SPRKGVALL	O60568 PLOD3 702_710
2105	RTRALVQAL	Q9NP80 PLPL8 362_370
2106	GRITHGFQL	Q96LI5 CNO6L 458_466
2107	KRDDVLIGL	Q96H96 COQ2 256_264
2108	RRSSIPITV	P33992 MCM5 602_610
2109	RLNTGILNK	P11387 TOP1 567_575
2110	RAFGIPIRV	P06493 CDK1 151_159
2111	RRLALFPGV	P30101 PDIA3 4_12
2112	GRLNSVNRR	Q9NVM9 ASUN 674_682
2113	RNRDLATAL	P55957 BID 123_131
2114	RTRNIVTGL	Q9Y2R0 COA3 54_62
2115	RPRSESVTV	Q9UPN7 PP6R1 280_288
2116	RRTGIPISM	O94952 FBX21 296_304
2117	GRFADSHEL	Q9Y5Y5 PEX16 38_46
2118	RARQDSVSL	P55199 ELL 42_50
2119	SPRRIFANA	P63151 2ABA 167_175; Q66LE6 2ABD 173_181
2120	SRLATLNEK	Q8WUW1 BRK1 45_53
2121	FPRNLAKSV	O94808 GFPT2 671_679; Q06210 GFPT1 688_696
2122	HPLEGTHEL	Q8IWR0 Z3H7A 434_442
2123	SSFGRGFFK	Q86W92 LIPB1 523_531
2124	GRPCKIVEM	P63241 IF5A1 35_43; Q9GZV4 IF5A2 35_43
2125	RVMGDRSVL	Q8N766 EMC1 724_732
2126	RVAYRPISA	P48201 AT5G3 19_27
2127	RRSSLVITT	Q13303 KCAB2 109_117; Q14722 KCAB1 161_169
2128	KARVVFAEL	Q8NE71 ABCF1 748_756
2129	KPRSLQTGF	Q9H0Z9 RBM38 114_122
2130	ARIKAINTF	Q71RC2 LARP4 269_277
2131	FRYQGHVGA	P40306 PSB10 127_135
2132	SRLTAREAM	P68400 CSK21 311_319; Q8NEV1 CSK23 311_319
2133	KLNWTGTSK	O95433 AHS1 86_94
2134	SPKGRFVML	Q9Y3I1 FBX7 406_414
2135	RLKDGVLAY	Q14690 RRP5 385_393
2136	RRSAGYILV	P30044 PRDX5 10_18
2137	ARLSALYKL	P41252 SYIC 261_269
2138	YRAGIATHF	Q6NVY1 HIBCH 208_216
2139	RPHTVLTVI	Q12788 TBL3 678_686
2140	KPKSDTVDF	Q9HB58 SP110 451_459

2141	RPAFKGLTF	Q969P5 FBX32 217_225
2142	HPTDERVAL	Q16719 KYNU 23_31
2143	GTYRDANIK	Q96PU8 QKI 202_210
2144	QPRHISVAM	P15291 B4GT1 265_273
2145	GRKELFAAF	O75844 FACE1 368_376
2146	GRFISSPKF	Q9P2H3 IFT80 401_409
2147	RPALPRSEL	Q99558 M3K14 218_226
2148	RRAILTPVL	Q7Z7G8 VP13B 1682_1690
2149	ARAANMFKM	P54920 SNAA 46_54
2150	RPQIRGAEL	Q9Y4I1 MYO5A 1193_1201
2151	RPVNKLAEL	Q86YV0 RASL3 886_894
2152	RLSAETINH	P41226 UBA7 624_632
2153	KPRQSSQL	Q6XZF7 DNMBP 491_499
2154	NPRIRANSL	Q7L7V1 DHX32 367_375
2155	GRVNLNVLR	Q96AX1 VP33A 8_16
2156	GRLNLHYAV	P47897 SYQ 485_493
2157	RPDLRMAAI	P46779 RL28 103_111
2158	GRQKLEAQL	O15212 PFD6 29_37
2159	QRFGPPVSR	Q14657 LAGE3 135_143
2160	KVRGLTQUEL	Q8N4C6 NIN 754_762
2161	RPEEGKESL	Q5U3C3 TM164 82_90
2162	LPKRSDSL	Q9BZI7 REN3B 321_329
2163	RTQNVLGK	P23396 RS3 54_62
2164	KPREFALAL	Q12830 BPTF 942_950
2165	VARNRFAVL	P53621 COPA 421_429
2166	LPAWPHRGL	Q96P11 NSUN5 387_395
2167	GRFKDVLVL	Q92974 ARHG2 486_494
2168	GRNEKFPSL	Q9UGU0 TCF20 744_752
2169	QRRPAGISY	Q9ULQ1 TPC1 352_360
2170	KRTSIETNV	P09086 PO2F2 300_308
2171	GRVNYVLAR	O60306 AQR 896_904
2172	GRSLIKLNF	Q13356 PPIL2 85_93
2173	GRIKLLQGY	Q03001 DYST 345_353
2174	SRGNAFHL	Q6P2Q9 PRP8 538_546
2175	GRANHFFT	Q9H9B4 SFXN1 23_31
2176	RPDTSRFASL	Q9NQC7 CYLD 540_548
2177	GRDTFIALR	P35573 GDE 1100_1108
2178	RPQASHQLL	P06132 DCUP 184_192
2179	AVRKFTSQL	O15228 GNPAT 603_611
2180	RPDGHQNNL	Q14974 IMB1 516_524
2181	ARYGNVSHF	Q9H5I1 SUV92 320_328
2182	KPRTSLMAF	O75363 BCAS1 438_446
2183	KRTLIAEGY	Q70SY1 CR3L2 271_279; Q96BA8 CR3L1 267_275
2184	GRAFLFNKV	P62699 YPEL5 40_48
2185	GRETGTRYL	P0CG13 CTF8 87_95
2186	RRTSTFALT	Q9UDW1 QCR9 16_24
2187	KPHTESSEL	Q9BSJ8 ESYT1 855_863

2188	KRTNIIIPVL	A6NHQ2 FBLL1 218_226
2189	ARYGKSPYL	P31150 GDIA 217_225; P50395 GDIB 217_225
2190	GPRKNQIEI	Q9NYJ8 TAB2 320_328
2191	QRHDGAFLI	P62993 GRB2 77_85
2192	VPRTRGEEL	Q5SQN1 SNP47 159_167
2193	SPEERVRAL	Q96FJ0 STALP 25_33
2194	IPRDRRISSL	Q5T5P2 SKT 346_354
2195	RPREVTVSL	Q5UE93 PI3R6 602_610
2196	RAREVIEAL	Q9NS23 RASF1 225_233
2197	RQTGIVLNR	Q13435 SF3B2 59_67
2198	GRNIRQLSL	Q9NQ55 SSF1 40_48
2199	RRLGVQQSL	P33552 CKS2 44_52
2200	FAHEVGHNF	O14672 ADA10 381_389
2201	QRAPTISER	O95747 OXSR1 306_314
2202	GRLGHILEY	Q8IXQ5 KLHL7 540_548
2203	APRDWKATL	Q6NX49 ZN544 79_87
2204	TRMGPLINR	P49189 AL9A1 325_333
2205	RPPKYNALV	Q96BD5 PF21A 430_438
2206	KPREGEETL	Q16719 KYNU 191_199
2207	LRNHMAVAF	P09669 COX6C 19_27
2208	KPKFSGFTF	P54132 BLM 29_37
2209	ARVQRAVQM	Q70J99 UN13D 606_614
2210	APEFRRRLGL	P61599 NAA20 80_88
2211	SRSVIRPPF	Q9BTE1 DCTN5 65_73
2212	RRGDLPDFVV	P35579 MYH9 1922_1930
2213	KPEYGRPNV	P26640 SYVC 320_328
2214	IAMRDRNAL	Q9NRZ9 HELLS 335_343
2215	RPTQGVVF	Q9H816 DCR1B 346_354
2216	RPRATVMVM	O75787 RENR 71_79
2217	RPADRYGLL	Q9BQG0 MBB1A 21_29
2218	RRDSAMLVL	Q5SRE5 NU188 995_1003
2219	ARNNARVIF	P39656 OST48 249_257
2220	LPRGRFTFL	O14908 GIPC1 201_209
2221	RSRPVSTQMV	Q8N6V9 TEX9 68_76
2222	ARKEVLTNM	Q8IYB7 DI3L2 656_664
2223	ARIFKAWAV	Q92985 IRF7 57_65
2224	TTEQHGARY	O15533 TPSN 372_380
2225	RPRVSSTEM	Q7L590 MCM10 257_265
2226	KLGPNNDQYK	O00483 NDUA4 55_63
2227	SPFSRKLDL	Q7Z628 ARHG8 296_304; Q9NR81 ARHG3 244_252
2228	KRDALLLSF	Q10570 CPSF1 90_98
2229	RPRPPITLL	Q9H0E3 SP130 892_900
2230	GRNSFEVRV	P04637 P53 266_274
2231	KRLESGVQF	Q03001 DYST 416_424
2232	QRHGNLLLL	Q53H54 TYW2 135_143
2233	RPAPPREEI	Q9BX40 LS14B 55_63
2234	LRSKIAETF	Q9Y5A7 NUB1 112_120

2235	RPKLPEDPL	P49327 FAS 1206_1214
2236	KRLTGITYL	O60683 PEX10 193_201
2237	RVRPLVLVI	Q6PIY7 GLD2 303_311
2238	RIYAGGEHY	O14628 ZN195 319_327
2239	SVRSTTRQM	Q7Z591 AKNA 1411_1419
2240	QRSDAKITF	Q13907 IDI1 69_77
2241	KRADLQSTF	Q7L590 MCM10 426_434
2242	RPRNALLL	P51688 SPHM 21_29
2243	RVFFRAGTL	Q92614 MY18A 1169_1177
2244	NPRRVSILL	Q14191 WRN 277_285
2245	RPSQFPHSL	Q96RT8 GCP5 228_236
2246	KLRASTVMY	O95999 BCL10 146_154
2247	RPALLHSQF	Q9BYH8 IKBZ 179_187
2248	RVRDIVPTL	A1L0T0 ILVBL 181_189
2249	HPRIITEGF	P40227 TCPZ 115_123
2250	RRQGVQVQV	P49327 FAS 1933_1941
2251	RPRLALNVM	Q96KA5 CLP1L 171_179
2252	RRSQPLISL	Q9H967 WDR76 483_491
2253	RRVLLTNVV	Q8WV16 DCAF4 306_314
2254	HSEAHTLLY	P56524 HDAC4 715_723
2255	GRDATRFTF	Q8TEW6 DOK4 188_196
2256	RSYVTTSTR	P08670 VIME 28_36
2257	TPRNLNRSL	Q8NCN4 RN169 410_418
2258	RRVEPTVTI	P01920 DQB1 125_133
2259	IPRAKSTWL	O60287 NPA1P 383_391
2260	RRSSINILL	Q86X10 RLGPB 611_619
2261	MRKTFTTGM	Q92614 MY18A 1005_1013
2262	RRAAPLEEM	Q07820 MCL1 103_111
2263	YRKAGTVMF	Q12769 NU160 1094_1102
2264	TPRRSDLNL	O15169 AXIN1 60_68
2265	RPFSPREAL	Q86V48 LUZP1 742_750
2266	LPRDRVLGF	Q96JC1 VPS39 583_591
2267	RRTDLTVLV	P19388 RPAB1 54_62
2268	APRRLLYAL	Q0VG06 FP100 71_79
2269	RPRLSAILF	Q9NSV4 DIAP3 797_805
2270	RTNWPNTGK	Q6NUQ1 RINT1 784_792
2271	GPREAFRQL	P57086 SCND1 121_129
2272	ERSNVVITR	Q86UP2 KTN1 367_375
2273	GRKGFTYVF	Q9Y485 DMXL1 2905_2913
2274	RPFGTIRPM	Q9NSU2 TREX1 279_287
2275	KPRVAFDEL	O60547 GMDS 346_354
2276	QTRRNSISL	P16885 PLCG2 155_163
2277	RPASRFEVL	Q8IZ52 CHSS2 384_392
2278	HPRDPNLLL	O75530 EED 199_207
2279	ARQQSHFAM	Q15365 PCBP1 242_250
2280	MRTGWATPR	O60449 LY75 1_9
2281	SRMANRDLL	P20073 ANXA7 384_392

2282	RPRPPPVEQ	Q14296 FASTK 128_136
2283	RRMTIAQSL	O43293 DAPK3 262_270
2284	RLFGNILDK	P26358 DNMT1 1564_1572
2285	GRMESVFNH	Q7L576 CYFP1 466_474
2286	KTDLHNEGY	Q14699 RFTN1 114_122
2287	RMQSLSLNK	Q13442 HAP28 173_181
2288	KRGDVYIL	O75563 SKAP2 319_327
2289	IRHPNIITL	O43293 DAPK3 71_79
2290	RPKDYANTL	Q8IYB7 DI3L2 292_300
2291	ARKQNNFSL	P78527 PRKDC 3246_3254
2292	YLREQGKAL	Q13618 CUL3 320_328
2293	RVNVTGIYR	P33991 MCM4 387_395
2294	GRKFVNILM	Q8WWC4 CB047 217_225
2295	RVQKYGLTL	Q13257 MD2L1 45_53
2296	YPSEKRGEI	O00418 EF2K 443_451
2297	RPMYSKPPI	O43298 ZBT43 229_237
2298	ARQINIHNL	P49736 MCM2 869_877
2299	RARGFLPYV	Q9BY50 SC11C 153_161
2300	GRIASHYYI	O75643 U520 985_993
2301	LPHNRMQAL	Q96EP0 RNF31 706_714
2302	KRISEQFTA	P04350 TBB4A 379_387; P07437 TBB5 379_387; P68371 TBB4B 379_387; Q13509 TBB3 379_387; Q13885 TBB2A 379_387; Q9BVA1 TBB2B 379_387
2303	MRQKAVSLF	P09912 IFI6 1_9
2304	RPWLRPAAL	Q8N4S7 PAQR4 142_150
2305	RAYSGNLHY	Q15751 HERC1 2112_2120
2306	KPYEGRPSF	P48380 RFX3 582_590
2307	SLRARTLTY	P51679 CCR4 145_153
2308	RRTSAYTLI	Q96J88 ESIP1 62_70
2309	RPHAFQVIL	Q8IWE5 PKHM2 837_845
2310	SRYSALEQK	Q14789 GOGB1 361_369
2311	SRFGKFIQV	B2RTY4 MYO9A 294_302; Q13459 MYO9B 294_302
2312	RPKTGMDM	Q08116 RGS1 42_50
2313	QRFGKQATF	P78560 CRADD 169_177
2314	RPAVERLEL	Q9UPN3 MACF1 420_428
2315	RVYLGALKY	Q6P2Q9 PRP8 86_94
2316	RRVVLVNNI	O95295 SNAPN 90_98
2317	NTEGLHHLY	Q5MIZ7 P4R3B 187_195; Q6ZMV5 SMEK3 187_195
2318	NPRIRVESL	O43143 DHX15 448_456
2319	RRAQQIAQL	Q9NQZ5 STAR7 36_44
2320	RRNLIIEAV	Q12789 TF3C1 617_625
2321	HPIYNIKSL	Q13601 KRR1 214_222
2322	RARQQLEAL	Q9BRA0 LSMD1 40_48
2323	IRTAVRQQL	Q86VV8 RTTN 1199_1207
2324	RPNERVDTV	Q9BZ95 NSD3 226_234
2325	ATNRSVYFK	P49790 NU153 376_384
2326	VPRNRIAEM	Q6ICG6 K0930 311_319

2327	RPLPRFNSV	P09603 CSF1 466_474
2328	KRLDIQEAL	Q96GM5 SMRD1 164_172
2329	KRFIPLAEL	Q9P016 THYN1 170_178
2330	SPRRFVVLL	Q9Y5Y0 FLVC1 104_112
2331	KPEERANIM	Q9P2N5 RBM27 855_863
2332	RPNDSRMLV	Q9UJX2 CDC23 429_437
2333	KRLPVTNEM	O00429 DNM1L 474_482
2334	RPKENVTIM	Q9HBG7 LY9 91_99
2335	RPSIRTTAW	Q15013 MD2BP 249_257
2336	KPSLSWKEL	Q68DK2 ZFY26 1331_1339
2337	KRTQIVTEI	Q9BPX3 CND3 457_465
2338	STDKFKTDF	Q7L5N1 CSN6 271_279
2339	SPERDRESL	Q14676 MDC1 882_890
2340	VPRWSNAKM	Q15181 IPYR 50_58
2341	FPRDKLAEL	Q8N6T7 SIR6 124_132
2342	KRVSIEPNF	A5YKK6 CNOT1 1137_1145
2343	ARLAQRIDF	Q9NVC6 MED17 41_49
2344	KPYEGRVEI	P58215 LOXL3 52_60
2345	RVFQDVAKQ	Q96P47 AGAP3 240_248; Q9UPQ3 AGAP1 220_228
2346	ARALFIRPF	Q9UG63 ABCF2 240_248
2347	RPRPEPLII	Q6PJG2 EMSA1 603_611
2348	RPSRQYATL	O14828 SCAM3 30_38
2349	RRNTVLTTM	Q8NF50 DOCK8 1914_1922
2350	SRSNLFVLR	Q32P44 EMAL3 261_269
2351	RAYQQALSR	Q99541 PLIN2 230_238
2352	ARLKSNYQL	Q9UIA9 XPO7 335_343
2353	TVDKHSDEY	P17676 CEBPB 266_274
2354	ATGQWTRFK	Q9H3P2 NELFA 511_519
2355	TPSRYKTEL	P26651 TTP 100_108
2356	RLRSFTTTI	Q13257 MD2L1 182_190
2357	KRAPYIAYL	Q14C86 GAPD1 1209_1217
2358	ARQKGIFYL	Q9Y397 ZDHC9 32_40
2359	KLKNVFLAY	O94766 B3GA3 4_12
2360	RPYHALLL	Q12980 NPRL3 256_264
2361	RPSLRLQLL	Q7L2H7 EIF3M 98_106
2362	HRNEVTVEL	O00505 IMA4 28_36
2363	RPRVPTEEL	Q9H6W3 NO66 361_369
2364	NPDLRRNVL	Q15560 TCEA2 201_209
2365	HPREAAEV	Q99575 POP1 765_773
2366	RTDGKVFQF	P83731 RL24 23_31
2367	APRKPDWDL	Q8WUD4 CCD12 108_116
2368	RQYAKDIGF	P62273 RS29 44_52
2369	KPWEKSPIL	Q9P2D0 IBTK 1078_1086
2370	RRNTDLPLL	Q8IWJ2 GCC2 1497_1505
2371	RRVVPLVQM	Q96EY8 MMAB 194_202
2372	MRFDGRLGF	Q96DE0 NUD16 49_57
2373	GRVADVYRY	Q86U90 YRDC 123_131

2374	RPQIHGYDL	Q6IA86 ELP2 433_441
2375	LPNKNRDEL	P24557 THAS 243_251
2376	TRGIFETKF	P19367 HXP1 778_786; P52789 HXP2 778_786; Q2TB90 HKDC1 777_785
2377	RRLNQEVAL	Q8WYP5 ELYS 1476_1484
2378	TPNENRQKL	Q15022 SUZ12 418_426
2379	KPRLDTEQL	Q86UE8 TLK2 156_164
2380	RPRLNAILF	O60610 DIAP1 934_942
2381	RMEESFSSK	P42167 LAP2B 381_389
2382	GRTYLKYSI	Q92522 H1X 85_93
2383	KRIDMVPEL	Q9Y2L1 RRP44 535_543
2384	RPRPEYVAI	Q6NUS6 TECT3 453_461
2385	KVRDLQTQL	Q13439 GOGA4 2073_2081
2386	KTWNAVLLR	Q14376 GALE 176_184
2387	RVAEFHTEL	P48556 PSMD8 204_212
2388	RLWEVATAR	Q14137 BOP1 438_446
2389	RPLYKNVVL	Q9P1U1 ARP3B 313_321
2390	SLMPWFHGK	P41240 CSK 78_86; P42679 MATK 118_126
2391	SRFYDLSSK	Q9UNM6 PSD13 153_161
2392	GRLMQEVNR	Q15834 CC85B 43_51
2393	RPLSREITM	Q5VZE5 NAA35 570_578
2394	SRLDFTVEH	P69849 NOMO3 307_315; Q15155 NOMO1 307_315; Q5JPE7 NOMO2 307_315
2395	KRFQPDLSL	Q9HBI0 PARVG 148_156
2396	QRMSTRVLL	Q14152 EIF3A 316_324
2397	KRFEIINAI	P55209 NP1L1 116_124
2398	FRQDHPSM	Q01844 EWS 267_275
2399	RPRPSEDTF	Q8TAP8 PPR35 234_242
2400	RPFLSRESL	P0C7P4 UCRIL 56_64; P47985 UCRI 47_55
2401	LPRDKSLYL	Q96NM4 TOX2 479_487
2402	SPVYHSREM	Q6YHU6 THADA 1357_1365
2403	TPRKDFTQL	O15264 MK13 265_273
2404	SRLAIRNEF	Q6NXE6 ARMC6 301_309
2405	QRKAVVLEY	O95707 RPP29 52_60
2406	SSDRHLTQY	O14646 CHD1 1545_1553
2407	RPAFFAERL	P20073 ANXA7 417_425
2408	KRVEDAYIL	P40227 TCPZ 223_231
2409	KRLATEFEL	A5YKK6 CNOT1 1521_1529
2410	RARELLVSY	Q9Y4W2 LAS1L 268_276
2411	IRSSYIRVL	P33992 MCM5 289_297
2412	KRFDEATQL	P17858 K6PL 365_373
2413	RVYEANVEK	Q15057 ACAP2 477_485
2414	RTERNVAVY	Q9HCL2 GPAT1 762_770
2415	ARIYHTIAY	P10620 MGST1 113_121
2416	KTFSEILNR	Q14204 DYHC1 872_880
2417	QRFRSISTL	Q15345 LRC41 457_465
2418	RTFTWLVGK	O00159 MYO1C 388_396
2419	LIRKYGLNM	P62273 RS29 30_38
2420	RRLDPIPQL	Q96BY9 SARAF 56_64

2421	SRSELETRM	P20585 MSH3 410_418
2422	RRVYPAPSY	Q5TC82 RC3H1 673_681
2423	SRSEFLEKL	Q9ULT8 HECD1 720_728
2424	ARAFNRIYV	Q9UHX1 PUF60 222_230
2425	RPRVQNQVI	Q8N4C6 NIN 1422_1430
2426	YRFEVPTAK	Q9GZQ3 COMD5 188_196
2427	KTFWQSVSK	Q9UKT5 FBX4 32_40
2428	VRFLRAEGY	P26010 ITB7 142_150
2429	RPQLRQDVV	Q9UPN7 PP6R1 175_183
2430	HPRYNLIVV	Q92466 DDB2 345_353
2431	QPRRLNLNTL	O94782 UBP1 177_185
2432	KRTLMQTSF	Q14146 URB2 683_691
2433	HPRLEGQEF	Q9H9L4 KANL2 37_45
2434	ARHELQVEM	O60610 DIAP1 494_502
2435	SRKSFVFEL	Q9P219 DAPLE 449_457
2436	FLRDKIASY	Q6PJG6 BRAT1 725_733
2437	SRFLKSDLF	O43665 RGS10 136_144
2438	RVRQLTEVL	Q8IYI6 EXOC8 386_394
2439	RSDPYVKSY	Q8IYJ3 SYTL1 300_308
2440	GRSEYVEKF	Q92878 RAD50 1278_1286
2441	RSEKMTLSY	Q9Y4X0 AMMR1 298_306
2442	KTYGEIFEK	O95298 NDUC2 106_114
2443	RPRELVVDVM	Q14571 ITPR2 2069_2077
2444	KRLQTQVEL	Q9UH65 SWP70 375_383
2445	RRTTQIINI	Q14980 NUMA1 1809_1817
2446	KRQVALWTL	P42345 MTOR 836_844
2447	RVNEAREEL	P61204 ARF3 99_107; P84077 ARF1 99_107
2448	RPQDKFLVL	Q9P0J1 PDP1 407_415; Q9P2J9 PDP2 401_409
2449	SRKTFTETF	Q5R372 RBG1L 427_435
2450	RPERPMAFL	P10644 KAP0 42_50
2451	RVYPESIPR	Q6NSI4 CX057 700_708
2452	VRCNTIVRR	Q13115 DUS4 67_75
2453	RVRPLVYTL	Q9H6E5 STPAP 405_413
2454	KRMEIQEAI	Q92925 SMRD2 176_184
2455	VRSRVLQLF	Q15021 CND1 380_388
2456	ARLNYLLRV	P13807 GYS1 347_355
2457	TTDKRTSFY	Q8WWW0 RASF5 273_281
2458	GTTEWFHLK	Q70J99 UN13D 465_473
2459	YRTGKSYLM	P32455 GBP1 47_55; P32456 GBP2 47_55; Q6ZN66 GBP6 47_55; Q8N8V2 GBP7 47_55; Q96PP8 GBP5 47_55; Q96PP9 GBP4 62_70; Q9H0R5 GBP3 47_55
2460	RLADVFNQR	Q92989 CLP1 206_214
2461	SRKEFEPLL	O15357 SHIP2 624_632
2462	KLHDETLTY	Q12800 TFCP2 80_88; Q9NZI7 UBIP1 77_85
2463	GLYQRAFQH	P78527 PRKDC 3376_3384
2464	KRLAENPEY	Q9BYX4 IFIH1 688_696
2465	YPRINKESL	Q16851 UGPA 193_201
2466	ARFEQLISR	Q9HCS7 SYF1 332_340

2467	LPRKDYESL	P51797 CLCN6 43_51
2468	ARLKEVLEY	P14324 FPPS 109_117
2469	RPEDQRSSF	Q9UPZ3 HPS5 901_909
2470	NRFTMEVPK	Q92616 GCN1L 415_423
2471	YINGRRETL	Q9H6W3 NO66 267_275
2472	QRYAKVPLF	Q9BQ52 RNZ2 727_735
2473	KSDVHLNFY	Q14527 HLTF 499_507
2474	SRFSNVYHL	Q9GZP4 PITH1 144_152
2475	GRTLIPRYF	O43679 LDB2 81_89; Q86U70 LDB1 120_128
2476	ATDYHVRVY	Q53EP0 FND3B 348_356
2477	SRFPDFVQK	Q5T890 ER6L2 495_503
2478	RTDIARTEY	Q14204 DYHC1 3544_3552
2479	RMLTPSEK	Q7L576 CYFP1 252_260
2480	MPARWLTHL	Q92685 ALG3 375_383
2481	SRLPSYFVR	Q7LBC6 KDM3B 1525_1533
2482	GRFQTMEEK	P39023 RL3 377_385
2483	SRYFGVLQR	Q8IXM6 NRM 90_98
2484	RPFLRPNI	Q9P2E3 ZNFX1 350_358
2485	KIYNANYLK	Q8WUB2 F216A 119_127
2486	QRNLPRETL	P51114 FXR1 550_558
2487	RVYIGRLSY	Q08170 SRSF4 3_11; Q13247 SRSF6 3_11
2488	RVRQLVEQV	Q9BVK6 TMED9 167_175
2489	KRLLLQNEL	Q13464 ROCK1 782_790
2490	IIDHHDNTY	P21333 FLNA 925_933
2491	ARQRIQPQM	Q9HA64 KT3K 169_177
2492	RLQAQRNEL	P62195 PRS8 44_52
2493	ARYHLVQQL	Q9NPI8 FANCF 107_115
2494	RRLAEIQEL	O60826 CCD22 448_456
2495	ATDRFRSLY	Q03001 DYST 4021_4029
2496	IRYPDSHQL	Q9UN86 G3BP2 325_333
2497	STSrvrlfy	O43924 PDE6D 141_149
2498	LRDSHIFQL	Q63HN8 RN213 1227_1235
2499	GRLWQVQSR	Q8TAS1 UHMK1 20_28
2500	QRVFPHAEF	Q6PL18 ATAD2 721_729
2501	IRNDEELNK	P04908 H2A1B 88_96; P0C0S8 H2A1 88_96; P16104 H2AX 88_96; P20671 H2A1D 88_96; Q16777 H2A2C 88_96; Q6FI13 H2A2A 88_96; Q7L7L0 H2A3 88_96; Q93077 H2A1C 88_96; Q96KK5 H2A1H 88_96; Q96QV6 H2A1A 88_96; Q99878 H2A1J 88_96; Q9BTM1 H2AJ 88_96  Q12873 CHD3 1077_1085; Q14839 CHD4 1067_1075; Q8TDI0 CHD5 1041_1049; Q9P2D1 CHD7 1307_1315
2502	HRVLIFSQM	Q92556 ELMO1 254_262
2503	APDERRQEM	Q6PGP7 TTC37 819_827
2504	RLDSNNHLY	P35251 RFC1 925_933
2505	IRSKQNWSL	Q9H0A0 NAT10 701_709
2506	RPAERLDYL	Q1KMD3 HNRL2 476_484
2507	NPEKRYNVL	Q3LFD5 UBP41 96_104; Q9UMW8 UBP18 96_104
2508	RRSVPFQML	Q9NR81 ARHG3 122_130
2509	KRQEAIHEL	Q9UPY3 DICER 43_51
2510	TPRKYQVEL	

2511	IPYKREESL	Q9UPU5 UBP24 142_150
2512	QRINRIMGF	P49069 CAMLG 42_50
2513	KRLPPFETF	Q15022 SUZ12 341_349
2514	SRYSLHQNM	Q9BV23 ABHD6 255_263
2515	QADNQRLKY	Q9GZM8 NDEL1 66_74
2516	VPNWHRDLV	P62826 RAN 101_109
2517	LPRPRWQAL	Q5TAQ9 DCAF8 147_155
2518	YARSVHEEF	Q9BRK5 CAB45 354_362
2519	NTDRNIDKY	Q9UK61 F208A 346_354
2520	YPRPRDTSF	Q9BRT2 UQCC2 72_80
2521	KPRFQQTSF	Q8TD22 SFXN5 29_37
2522	WQFSSVTKR	P42224 STAT1 504_512
2523	KIADRFLLY	P61968 LMO4 29_37
2524	KVFERAVQY	Q14690 RRP5 1679_1687
2525	KTERSDELY	O14578 CTRO 1188_1196
2526	RTMVKTLEY	Q7Z3J2 CP062 929_937
2527	SRYFALVER	Q9UID3 VPS51 346_354
2528	IPNPRFQRL	P13010 XRCC5 482_490
2529	RSFEEAFQK	P27708 PYR1 770_778
2530	ARFFKQPTF	P05129 KPCG 40_48; P05771 KPCB 41_49; P17252 KPCA 41_49
2531	YRAKVFQVM	P09913 IFIT2 291_299
2532	RLDQPFIPR	Q86Y91 KI18B 763_771
2533	RRISQIQQL	O60306 AQR 413_421
2534	AYRQGHFTY	Q96SB8 SMC6 494_502
2535	ERHNLITEM	Q15637 SF01 108_116
2536	RLSEFIYSK	Q9UK61 F208A 1060_1068
2537	RRNTQLLEL	P98196 AT11A 705_713
2538	ERFSGTYHF	Q9Y6J8 STYL1 132_140
2539	SRNKDTYFL	Q8TAT6 NPL4 328_336
2540	RVRELEQTL	Q92805 GOGA1 355_363
2541	RRYNIIPVL	Q9UI12 VATH 261_269
2542	RRTEIIEDL	Q9Y5L0 TNPO3 165_173
2543	RRFLTQPQV	O43760 SNG2 18_26
2544	SRLQPFLQR	P46379 BAG6 288_296
2545	KSDVNKEYY	Q9NW64 RBM22 109_117
2546	ARLQDQHMF	Q9H2D1 MFTC 250_258
2547	KRFADFTVY	Q9NY61 AATF 354_362
2548	GRQEIFLQR	Q8TEZ7 MPRB 306_314
2549	RRSFIIQNI	Q9H489 TSY26 184_192; Q9UJ04 TSYL4 242_250
2550	STEERHLLY	Q13822 ENPP2 591_599
2551	KPMQLQRDFI	Q9UKB1 FBW1B 112_120; Q9Y297 FBW1A 173_181
2552	TRILRQTLF	P40306 PSB10 119_127
2553	QRKDGVYVQL	P42166 LAP2A 32_40; P42167 LAP2B 32_40
2554	RLQEAQLYK	Q8N5M4 TTC9C 4_12
2555	KVRDQQLVY	Q9UJX6 ANC2 802_810
2556	KRFEELTNL	B5ME19 EIFCL 55_63; Q99613 EIF3C 55_63
2557	RRSPFLQVF	Q15437 SC23B 587_595

2558	RRVYLTQQL	Q9UNY4 TTF2 413_421
2559	RPFERTITM	O00560 SDCB1 193_201
2560	VPRRSFFEL	Q9UHB4 NDOR1 308_316
2561	RRVFIVETM	P17858 K6PL 564_572
2562	QRNVNVFKF	P07195 LDHB 112_120
2563	GRFDRQIFI	Q9Y4W6 AFG32 467_475
2564	RPKYQFLSL	O60443 DFNA5 48_56
2565	VTDRDIDRY	Q14674 ESPL1 2064_2072
2566	QRYPNPYSK	Q9Y255 PRLD1 24_32
2567	SRFLNKQPY	P10619 PPGB 472_480
2568	APTYRFERL	Q92835 SHIP1 641_649
2569	PITFSRYIR	Q16651 PRSS8 143_151
2570	RQNKLTYTM	Q96DI7 SNR40 223_231
2571	RLWTESLLH	Q659A1 NARG2 793_801
2572	GRNVYRMLF	Q13123 RED 213_221
2573	RPLEDREQL	Q9Y4H4 GPSM3 99_107
2574	RVYNNTARY	P23921 RIR1 277_285
2575	TRNQHIPQY	Q9UBR2 CATZ 80_88
2576	IRKYNVYAM	Q9UIV1 CNOT7 31_39
2577	YQSQHPHVY	Q99700 ATX2 1058_1066
2578	GRYYLKNM	Q8TEU7 RPGF6 826_834; Q9Y4G8 RPGF2 683_691
2579	RPYSFFTQL	P82675 RT05 85_93
2580	RQYMFSSLK	P13010 XRCC5 431_439
2581	FRSNIKTMY	Q13459 MYO9B 1543_1551
2582	HQAPRQLFY	Q9C0J8 WDR33 19_27
2583	TRQKQLFQL	Q15014 MO4L2 141_149
2584	HSEYHTLLY	Q9UQL6 HDAC5 744_752
2585	HPRAYFMQL	Q9Y2Y1 RPC10 74_82
2586	KLNNRQLNY	Q12792 TWF1 192_200
2587	QRKLIYQTL	O95453 PARN 209_217
2588	YTETVNHHY	Q8WUA4 TF3C2 787_795
2589	KRLDQELDF	P37198 NUP62 387_395
2590	YRMLPLSER	P14316 IRF2 109_117
2591	RVDELLEKY	Q9H0P0 5NT3A 303_311
2592	ARNQLRMYL	Q5BJH7 YIF1B 285_293
2593	QRNVNIFKF	P00338 LDHA 111_119
2594	RVFPWFSVK	Q03164 KMT2A 1764_1772
2595	LPRREGYEF	Q5TC12 ATPF1 201_209
2596	TLYRIFNNK	Q15024 EXOS7 108_116
2597	QRNKLYVTF	Q76N89 HECW1 1276_1284; Q9P2P5 HECW2 1242_1250
2598	KLFDKLLEY	Q9BZZ5 API5 309_317
2599	KVDEEQMKY	P13010 XRCC5 325_333
2600	NRIVLYTK	P49207 RL34 28_36
2601	ESERKTEEY	Q96KA5 CLP1L 388_396
2602	FRKVDVDEY	O15511 ARPC5 11_19
2603	HRFQTQQLL	Q06187 BTK 491_499
2604	KSDLFFHDY	P35251 RFC1 870_878

2605	KTDHFIFTY	Q9Y546 LRC42 68_76
2606	TRFDQVMKF	Q9HCN4 GPN1 100_108
2607	ETEKDFSRY	O60306 AQR 887_895
2608	KRTTFFQF	Q9NVP1 DDX18 463_471
2609	SRFEKEFSF	O95613 PCNT 1289_1297
2610	RPTFRQMQL	O75369 FLNB 69_77; P21333 FLNA 96_104
2611	ERRLQTQVF	P46781 RS9 107_115
2612	KRQEVIYEL	Q12802 AKP13 1994_2002
2613	RLYQHAVEY	Q9UN37 VPS4A 30_38
2614	KRYNEDLEL	P25787 PSA2 176_184
2615	YRQLSLHTYL	O00567 NOP56 277_285
2616	ETERTRNLY	Q9BZJ0 CRNL1 691_699
2617	RPDYRNITF	Q99707 METH 161_169
2618	IRKQFQSQF	Q8TCG2 P4K2B 282_290
2619	SRLQYYVPR	Q93008 USP9X 1657_1665
2620	RRQQQQQLI	O14910 LIN7A 208_216
2621	KRLNFITEY	P53667 LIMK1 407_415
2622	ERMDEEFTK	B5ME19 EIFCL 450_458; Q99613 EIF3C 449_457
2623	YLDEGRRLRY	Q9UBE8 NLK 426_434
2624	SRFIKFQEM	P33993 MCM7 227_235
2625	RRQQVLLLY	Q9NU23 LYRM2 18_26
2626	RRIQFPIEM	Q7L576 CYFP1 634_642; Q96F07 CYFP2 658_666
2627	KTDYDTREY	Q7Z6E9 RBBP6 1474_1482
2628	VSDFRKEFY	O75419 CDC45 3_11
2629	ETARKFLYY	P43304 GPDM 593_601
2630	YSDKFRDVY	P49354 FNTA 92_100
2631	KRMQEIEEM	Q96SB4 SRPK1 284_292
2632	RQYPEVIKY	Q9UIF8 BAZ2B 781_789
2633	ERFEKTFQL	Q13724 MOGS 370_378
2634	RRFMQTFVL	Q13283 G3BP1 106_114
2635	FLDHKTLYY	O95251 KAT7 428_436; Q8WYB5 KAT6B 811_819; Q92794 KAT6A 600_608; Q92993 KAT5 323_331
2636	RIREQQEQL	Q92844 TANK 40_48
2637	KMLRDTLYY	P42356 PI4KA 321_329
2638	YTERAVFRY	Q9P253 VPS18 381_389
2639	YRKPTYYESY	Q04656 ATP7A 1410_1418
2640	YRWDIVAQR	Q15646 OASL 317_325
2641	KQYDSFTYR	Q9Y3Q3 TMED3 83_91
2642	RIEKQFLLY	Q96GC9 VMP1 105_113
2643	FTEPNRHFY	Q7Z6M2 FBX33 537_545
2644	RLMDRPIFY	P34059 GALNS 376_384
2645	YRKDFQQLL	Q9UL03 INT6 497_505
2646	TRYDLYHTF	Q9BVK8 TM147 157_165
2647	FRQQQRPLEF	Q15773 MLF2 203_211
2648	QRFFYTKSF	Q96S94 CCNL2 107_115
2649	FRPLYTHEY	Q99442 SEC62 278_286
2650	RIYQYIQSR	Q13627 DYL1A 317_325; Q9Y463 DYL1B 269_277

2651	TRTIYQFHY	Q9Y2R2 PTN22 182_190
2652	DTDHYFLRY	Q969N2 PIGT 165_173
2653	RLQDQHMFY	Q9H2D1 MFTC 251_259
2654	YRPVRQYVY	Q9NZB2 F120A 602_610
2655	ETERRMDFY	Q8N3F0 MTURN 26_34
2656	QLDERRLYY	O14964 HGS 459_467
2657	IRKPYIWEY	P07814 SYEP 415_423
2658	RPRPGTGLG	Q9BVK6 TMED9 11_19
2659	RRSSVGVGV	O95198 KLHL2 436_444; Q9UH77 KLHL3 430_438
2660	RSRVVGSSL	P18031 PTN1 371_379
2661	RAFAGRSGL	P58317 ZN121 207_215
2662	RRAVGGQSL	Q8TE82 S3TC1 653_661
2663	RRLGANSGL	P46459 NSF 314_322
2664	ARGYGRSAL	Q9ULT8 HECD1 1155_1163
2665	GRGVFHNGL	Q96JN8 NEUL4 1219_1227
2666	APRNRGSGF	Q9Y5A9 YTHD2 353_361
2667	SRYGGGPRL	Q86UV5 UBP48 540_548
2668	HRDSGILGL	Q8NI36 WDR36 589_597
2669	RRAPSVANV	P21333 FLNA 2148_2156
2670	RRSDLPGGL	Q02080 MEF2B 207_215
2671	RRLANAAGF	Q8IV20 LACC1 230_238
2672	GRWNGFGGK	P36639 8ODP 71_79
2673	GRVKIIVGH	Q9NPA5 ZF64A 495_503
2674	GRSGKSFSY	P0CK96 S352B 284_292
2675	RRAASNMAL	P53041 PPP5 101_109
2676	RRSDSAISV	Q6Q0C0 TRAFF7 84_92
2677	KRFSAASNL	Q7L3S4 ZN771 126_134
2678	RRNGIGTNL	Q147X3 NAA30 294_302
2679	RRSTGVVNI	Q96IZ0 PAWR 160_168
2680	GRFHGGNL	P55789 ALR 8_16
2681	RRFGQSAAL	A6NFI3 ZN316 810_818
2682	PHPSNQSSL	Q9UPW0 FOXJ3 341_349
2683	HLPVHVIGH	Q86VV8 RTTN 987_995
2684	ARFGHGSDY	Q9NWH9 SLTM 753_761
2685	ATYGKPVHH	P61313 RL15 79_87
2686	ALARALIRK	Q03518 TAP1 712_720
2687	RRIALGNNV	Q9NW38 FANCL 226_234
2688	GRGSFKTVY	Q96J92 WNK4 181_189; Q9H4A3 WNK1 228_236; Q9Y3S1 WNK2 202_210
2689	RRWLGSAGL	Q8TDM0 BCAS4 150_158
2690	SVAKTILKR	Q7L9L4 MOB1B 146_154; Q9H8S9 MOB1A 146_154
2691	SSYGSGRFF	P09651 ROA1 364_372; Q32P51 RA1L2 312_320
2692	RRIATGSFL	P22234 PUR6 101_109
2693	KRFAQSSSL	P0CJ78 ZN865 911_919
2694	SRSGHTSFF	Q9GZM8 NDEL1 304_312
2695	KRTSQGFGF	Q5T5U3 RHG21 53_61
2696	FPRKPSAPK	P26373 RL13 127_135
2697	ALDIAKRLK	Q9ULH1 ASAP1 673_681

2698	RPGPNRSNM	Q13330 MTA1 440_448
2699	KAGEVFIHK	Q15233 NONO 99_107
2700	GRNWSAIAR	Q9Y618 NCOR2 631_639
2701	RRFAIGSQV	P33992 MCM5 681_689
2702	ALASRFLKK	B5ME19 EIFCL 251_259; Q99613 EIF3C 251_259
2703	RRGFTLVGM	O00746 NDKM 63_71
2704	KRFNGSESI	Q9H972 CN093 320_328
2705	RTDFHGSGY	O43934 MFS11 41_49
2706	KRFSSTSNL	O75626 PRDM1 638_646
2707	KRFSQSSSL	O60304 ZN500 388_396
2708	GRIDKPILK	P62917 RL8 173_181
2709	RANPNRSEV	Q92540 SMG7 79_87
2710	ALFEHGLKK	Q96HU1 SGSM3 570_578
2711	RRNLDITGV	Q9NW9 SLTM 36_44
2712	KTFNKVLGH	Q8TB36 GDAP1 287_295
2713	SRFRDGPPL	Q15056 IF4H 182_190
2714	APEPKRPHI	Q9Y6X8 ZHX2 415_423
2715	RGNSQRSQL	Q9BW72 HIG2A 69_77
2716	RRGVISPNF	Q05923 DUS2 290_298
2717	YPAAKRVKL	P01106 MYC 319_327
2718	RRSSDIISL	Q9UJX6 ANC2 496_504
2719	GRWSDSRAL	Q9Y573 IPP 302_310
2720	RRNSEAAML	O14744 ANM5 100_108
2721	RPRGFGFIT	Q96EP5 DAZP1 152_160
2722	ALHLHPLLH	Q9UKJ3 GPTC8 1478_1486
2723	KVLSILLKH	P19838 NFKB1 629_637
2724	RRFSQSSAL	Q96H86 ZN764 266_274
2725	KVIPSPFKH	P34897 GLYM 262_270
2726	SRLRNSSSF	Q8N3D4 EH1L1 1288_1296
2727	RPAFPVKKL	Q13111 CAF1A 24_32
2728	RRFSGTAVY	Q6AHZ1 Z518A 652_660
2729	RRSGLNQNL	Q8NF91 SYNE1 6577_6585
2730	VPHKIITHL	Q13505 MTX1 215_223
2731	AILEKSRLK	O94906 PRP6 764_772
2732	RRTEEGPTL	P43243 MATR3 148_156
2733	SRNGKSYTF	P11274 BCR 838_846
2734	GLYPKPRTK	Q8NFZ0 FBX18 40_48
2735	RRSQQSVDL	Q12802 AKP13 1893_1901
2736	KRGWIPASF	A6NI72 NCF1B 202_210; A8MVU1 NCF1C 177_185; P14598 NCF1 201_209
2737	KILDSDLHH	Q5T447 HECD3 416_424
2738	RRFSLSPSL	Q9NYF3 FA53C 229_237
2739	RVDPNGSRY	Q16531 DDB1 263_271
2740	GRTTREAFNL	Q6UX07 DHR13 129_137
2741	RRAQLADSF	Q13813 SPTN1 565_573
2742	KTLDHVLTH	Q9BTW9 TBCD 1045_1053
2743	RRISQAYGL	Q9H799 CE042 2961_2969
2744	RTLKPILSH	Q9UPW5 CBPC1 1055_1063

2745	KRILVLVSH	Q9UG63 ABCF2 275_283
2746	RRLQSSFTA	Q92673 SORL 2163_2171
2747	NPRKHITSL	Q13888 TF2H2 123_131; Q6P1K8 T2H2L 123_131
2748	SRLPTINKH	Q86X10 RLGPB 935_943
2749	RRTISSLNSF	Q9H714 K226L 185_193
2750	GRFGRNTFL	Q96C24 SYTL4 450_458
2751	RRSTTYSSL	Q8IZT6 ASPM 242_250
2752	SPRHSFNNL	Q01201 RELB 217_225
2753	RRAQGWQGL	Q08752 PPID 312_320
2754	FPAPDRKKL	A3KN83 SBNO1 669_677
2755	RPWSNSRGL	Q9NRR8 C42S1 71_79
2756	RIRNISNTV	Q0VDF9 HSP7E 56_64
2757	LPAFKRKTL	O14936 CSKP 734_742; Q00013 EM55 277_285
2758	FQGKTPLRK	Q9ULW0 TPX2 55_63
2759	KLLAHPLQR	Q9NWV8 BABA1 297_305
2760	TIFGKIIRK	P49773 HINT1 17_25
2761	VLYKGVLKR	Q6NW34 CC017 185_193
2762	RPSDRDAFL	O15287 FANCG 601_609
2763	GRWFGGGRQI	O43719 HTSF1 334_342
2764	RRDAADFLL	P53355 DAPK1 1385_1393
2765	FRRDGTNVL	O75953 DNJB5 254_262
2766	RRTTANPVY	Q96BD5 PF21A 392_400
2767	RRTVYVGNL	Q8WXA9 SREK1 65_73
2768	RRAVLSETF	P51530 DNA2 138_146
2769	RRVTVNAY	Q9Y639 NPTN 85_93
2770	SRNSLRSNF	Q9H992 MARTH 218_226
2771	KRFTQSSNL	Q8TF50 ZN526 535_543
2772	IVDEAHRIK	Q5T890 ER6L2 281_289
2773	RRSSIQSTF	Q92542 NICA 232_240
2774	RRAANSFFL	Q9Y2Q0 AT8A1 74_82
2775	KPREKVLVI	Q8N6R0 MET13 47_55
2776	RRLDLPSNL	Q5VZ89 DEN4C 1494_1502; Q7Z401 MYCPP 1680_1688
2777	KQAEIVKRL	Q04725 TLE2 76_84; Q04727 TLE4 83_91; Q08117 AES 77_85
2778	RVLEAIQKK	Q96ST3 SIN3A 631_639
2779	RRVSNIQNV	Q8IZT6 ASPM 167_175
2780	RRDSALQQL	Q6P2H3 CEP85 620_628
2781	KLFSEVVHK	Q02224 CENPE 779_787
2782	KQLGRIMLK	P62304 RUXE 72_80
2783	RVAELILHH	Q7Z695 ADCK2 522_530
2784	KTPYPLKK	O75626 PRDM1 560_568
2785	KLMTVRIVK	P46782 RS5 86_94
2786	RPKYAGYSF	P45983 MK08 263_271
2787	RRFPEAEAL	Q2NKX8 ERC6L 5_13
2788	RRILQQAGF	Q8WUH2 TGFA1 350_358
2789	KPREGAWDM	Q9P1Y6 PHRF1 1430_1438
2790	RRQDSIPAF	Q9Y6D9 MD1L1 695_703
2791	KAYEKPPEK	Q12905 ILF2 356_364

2792	RRSIISPNF	P28562 DUS1 291_299; Q13115 DUS4 313_321
2793	RIADIIVKK	Q6ZV73 FGD6 951_959
2794	GRYSRSAMY	Q02878 RL6 55_63
2795	ALYRLAQKK	Q9Y285 SYFA 335_343
2796	SRWSGSHQF	P15056 BRAF 602_610
2797	RRDGTVLY	O75953 DNJB5 255_263
2798	KRVAESWAF	Q9H7M6 ZSWM4 41_49
2799	ARWNKTVGY	Q9Y2I9 TBC30 329_337
2800	IIDEAHRLK	Q3L8U1 CHD9 995_1003; Q8TD26 CHD6 596_604; Q9HCK8 CHD8 946_954
2801	FVFKPNSKK	Q9UBD5 ORC3 11_19
2802	VLSERLLHK	Q96AZ6 ISG20 132_140
2803	ILYDHAVVK	P11926 DCOR 329_337
2804	RLPKEVLLK	Q9BQW3 COE4 366_374; Q9H4W6 COE3 373_381
2805	PPEYHRKAV	Q9UBU8 MO4L1 354_362
2806	GRGWFPKSY	Q9NZM3 ITSN2 942_950
2807	RRIQSGFSF	Q96TC7 RMD3 340_348
2808	HPRDVYNSL	O60512 B4GT3 50_58
2809	RRWGDSVLL	Q9BYD3 RM04 210_218
2810	RVTPFILKK	Q8N4H5 TOM5 39_47
2811	KPRQLIIVH	Q9P2I0 CPSF2 557_565
2812	RPRDSQLYA	P82930 RT34 27_35
2813	KLFSEKLLK	Q15067 ACOX1 537_545
2814	VVLRHIIQK	Q8NEC7 GSTCD 107_115
2815	RRSSQSWSL	Q641Q2 FA21A 29_37; Q9Y4E1 FA21C 29_37
2816	RRFGIQAQHM	P49720 PSB3 26_34
2817	KRTEPGWSF	P48553 TPC10 211_219
2818	RRAYLPDGY	Q9UFW8 CGBP1 147_155
2819	STIKFQMKK	P62906 RL10A 153_161
2820	KLLDPIREK	P54577 SYYC 319_327
2821	GRNFHTFSF	Q02040 AK17A 201_209
2822	RRGDTFYVV	P18850 ATF6A 561_569
2823	RRNGTLPWL	P31153 METK2 168_176
2824	RRSQMTTSF	Q9H147 TDIF1 52_60
2825	RPRPSWITT	P42785 PCP 401_409
2826	KRFSQTSNF	O75123 ZN623 354_362
2827	KRNSTSIFYF	P19256 LFA3 167_175
2828	LPMKKERTL	Q9Y4E8 UBP15 468_476
2829	KPRTFIKL	Q9UBJ2 ABCD2 139_147
2830	RLRWQASSL	Q14204 DYHC1 3559_3567
2831	KIMKDILEK	P07900 HS90A 573_581
2832	HRQAQAFNF	Q96LW4 PRIPO 46_54
2833	RPRMPNNSF	Q15788 NCOA1 500_508
2834	KMADIYLKH	Q7Z4L5 TT21B 693_701
2835	RVRDINEAF	P15884 ITF2 576_584; P15923 TFE2 561_569; Q99081 HTF4 589_597
2836	TPLYKKKEL	P35555 FBN1 2834_2842
2837	RVRDDVAEY	Q13895 BYST 257_265
2838	RPVQKLIRL	Q5W0V3 F16B1 130_138

2839	KRFSWSSNL	Q6DD87 ZN787 129_137
2840	RRYSDLTTL	P25205 MCM3 157_165
2841	RLAQLFIKH	O60229 KALRN 2002_2010
2842	KLAVLKYYK	P62979 RS27A 99_107
2843	KRFNNSSQF	Q9NX65 ZSC32 612_620
2844	RRSPSSQYF	Q8ND83 SLAI1 362_370
2845	RISGVDRYY	O15239 NDUA1 53_61
2846	SRYGFNTER	Q6P158 DHX57 190_198
2847	RLYGGMNYR	Q9Y2M5 KLH20 582_590
2848	RVREITENL	P13796 PLSL 49_57
2849	SVYQIKVHR	Q14204 DYHC1 2957_2965
2850	KITEIELRK	Q9P2I0 CPSF2 375_383
2851	KRPPGYYSY	Q14694 UBP10 154_162
2852	RPFYRASSF	Q9Y485 DMXL1 1889_1897
2853	MLMPKKNRI	P46783 RS10 1_9; Q9NQ39 RS10L 1_9
2854	FRKEAGDFY	Q9UGU0 TCF20 82_90
2855	KLDQTIMRK	Q6STE5 SMRD3 131_139; Q96GM5 SMRD1 156_164
2856	RPRDYTVNL	O95402 MED26 398_406
2857	KRFEQEINA	O94804 STK10 596_604
2858	RRLDGNQYL	Q96EB6 SIR1 635_643
2859	RRNITMVSY	Q92902 HPS1 526_534
2860	RRSSFLQVF	Q15436 SC23A 585_593
2861	KRFYLNNSV	P51946 CCNH 88_96
2862	QRISRGYDF	Q9H223 EHD4 166_174; Q9H4M9 EHD1 163_171; Q9NZN3 EHD3 163_171
2863	RRAIYQATY	P28074 PSB5 216_224
2864	KRDNNFYSV	P45983 MK08 5_13
2865	RRDNNELL	P49736 MCM2 825_833
2866	TRWGNQPER	P03905 NU4M 134_142
2867	FRKDSSYEL	Q9HBE5 IL21R 190_198
2868	KRSSNFMYL	Q8NEB9 PK3C3 209_217
2869	KRNNSDWLL	Q9BQG2 NUD12 132_140
2870	IRYLVEKPK	Q9NZ32 ARP10 323_331
2871	SRFGKYFEI	O00160 MYO1F 166_174; Q12965 MYO1E 168_176
2872	QRVLFVEKK	O75394 RM33 52_60
2873	RRDNYVPEV	P08708 RS17 80_88; P0CW22 RS17L 80_88
2874	KRWGPNYNL	Q8NG31 CASC5 2247_2255
2875	RRGEFIQEI	P00973 OAS1 94_102
2876	RRLIMNP SY	Q8N3C0 ASCC3 1761_1769
2877	RRIYDITNV	O00716 E2F3 216_224; Q01094 E2F1 165_173; Q14209 E2F2 167_175; Q15329 E2F5 89_97; Q16254 E2F4 56_64
2878	RPSFRNLDF	Q92540 SMG7 428_436
2879	RRMENLVAY	Q09472 EP300 603_611; Q92793 CBP 624_632
2880	RRYGDVFQI	Q16678 CP1B1 79_87
2881	RRFFMGNQV	P13010 XRCC5 353_361
2882	NRYKQEIGF	Q9NPA3 M1IP1 170_178
2883	RRVNQAIWL	P46782 RS5 145_153
2884	ARYSLRDEF	P04818 TYSY 63_71

2885	RRLENLENL	Q8TD17 ZN398 111_119; Q9UDV7 ZN282 166_174
2886	SRFRYSTEL	P52849 NDST2 109_117
2887	KRSAQFFNY	Q02809 PLOD1 45_53
2888	RRLVFDNQL	Q99741 CDC6 94_102
2889	RRNDDIINF	Q13905 RPGF1 1033_1041
2890	RRYQEQLGL	Q8N4T4 ARG39 35_43
2891	RQKEVNENF	O75380 NDUS6 59_67
2892	RRINSLLEY	Q6P4F7 RHGBA 843_851
2893	HRNELQMQL	Q13464 ROCK1 1072_1080
2894	RRVFITDDF	P14625 ENPL 414_422
2895	RPRPTWEEV	Q5BKY9 F133B 36_44; Q8N9E0 F133A 36_44
2896	RSEEGRLYY	Q5PSV4 BRM1L 255_263
2897	RRSDDMFTF	P49792 RBP2 1126_1134
2898	RRLENMENL	Q9ULD5 ZN777 253_261
2899	RPENRSFYLY	Q9BQ70 TCF25 337_345
2900	SQHYHQGYY	Q00839 HNRPU 817_825
2901	RPDEKWNEL	Q92562 FIG4 459_467
2902	SRYRPQYGY	Q8IYM9 TRI22 399_407
2903	RRNYIIQNI	Q9H0U9 TSYL1 267_275
2904	SRFNFDNKY	A3KN83 SBNO1 1033_1041
2905	RRFNQNQDL	Q63HN8 RN213 2172_2180
2906	RSEKPNWDY	Q9H9J2 RM44 60_68
2907	RRFMEQNTL	Q9P0T4 ZN581 180_188
2908	RRFPSQEEF	Q5HYK3 COQ5 289_297
2909	RRQEAIYEM	Q7Z628 ARHG8 174_182
2910	RRQNVAYQY	Q86VI3 IQGA3 25_33
2911	RRWEQELNA	O43463 SUV91 129_137
2912	SRFNRRYSL	O60287 NPA1P 853_861
2913	RRQNIAYEY	Q13576 IQGA2 32_40
2914	RRYSEFELL	O95219 SNX4 105_113
2915	RRYNDFVVF	Q9Y5X2 SNX8 108_116
2916	TRHNYYYESF	Q6NYC1 JMJD6 27_35
2917	NRSODYMFQR	P48637 GSHB 124_132
2918	YRYGREEML	O75420 PERQ1 39_47; Q6Y7W6 PERQ2 41_49
2919	RRLFPYSQY	P49642 PRI1 18_26
2920	RRMEVYNEF	Q13206 DDX10 353_361
2921	RRFFYDQAF	P41250 SYG 130_138
2922	RRFQYEEEV	Q9BZJ0 CRNL1 476_484
2923	RRFTEIYEF	A6NI72 NCF1B 43_51; A8MVU1 NCF1C 18_26; P14598 NCF1 42_50
2924	PVTVKSPVL	Q5T3J3 LRIF1 171_179
2925	KPGRKGISL	P53999 TCP4 97_105
2926	GRTGALHLR	O15234 CASC3 54_62
2927	GRGKFAVVR	O94768 ST17B 40_48; Q9UEE5 ST17A 68_76
2928	HPKVGRVSI	P55265 DSRAD 1103_1111
2929	RPAGVRGHF	Q8IY81 SPB1 813_821
2930	GRLSARPKL	P09211 GSTP1 182_190
2931	GRVVGIIKR	Q9Y2L1 RRP44 343_351

2932	RRAGIKVTV	Q99497 PARK7 27_35
2933	ARVTKVLGR	P62857 RS28 12_20
2934	GRFTIAAKH	P54920 SNAA 115_123; Q9H115 SNAB 115_123
2935	SRIGHIAHL	Q32P41 TRM5 201_209
2936	HPRVAPSKL	Q8WX92 NELFB 512_520
2937	LPRGKGIRL	P22090 RS4Y1 238_246; P62701 RS4X 238_246; Q8TD47 RS4Y2 238_246
2938	KRGGFVLVH	Q9H6P5 TASP1 39_47
2939	KRALIVASR	O95149 SPN1 128_136
2940	GRHSTPLHL	Q9H2K2 TNKS2 677_685
2941	ARFDKLAAK	O60266 ADCY3 349_357
2942	RVRSHLAAL	P35613 BASI 317_325
2943	KRVGARLLL	Q8NBZ7 UXS1 191_199
2944	IRAGNLARR	Q7KZF4 SND1 54_62
2945	ARLKAEALAR	Q96P11 NSUN5 100_108
2946	GRIGRLVTR	P04406 G3P 12_20
2947	GRITHGFKL	Q9ULM6 CNOT6 460_468
2948	VPSLHHRAL	Q9Y5J6 T10B 33_41
2949	RRGPPPPP	P38159 RBMX 93_101
2950	KLDGSRLIK	P62081 RS7 147_155
2951	GVDKLTRLK	Q15435 PP1R7 159_167
2952	KLRGIVSEK	Q02224 CENPE 1739_1747
2953	KVDAGKLHY	Q12789 TF3C1 203_211
2954	FPRGGTRKI	Q14690 RRP5 8_16
2955	RRLGIGTKM	Q9GZZ1 NAA50 84_92
2956	ARLFGIRAK	P26373 RL13 189_197
2957	RRFGVAKVV	Q9UPV9 TRAK1 848_856
2958	RIGQVGKF	Q8NDD1 CA131 265_273
2959	RVAAHPILR	Q9UNH7 SNX6 150_158
2960	GRFEVGKKI	Q9Y385 UB2J1 82_90
2961	ARVRKGFSL	O14492 SH2B2 129_137
2962	KRGFDVSVK	Q96T37 RBM15 195_203
2963	RIHGSPLOQK	O00566 MPP10 57_65
2964	GRHVQGILR	A8MWD9 RUXGL 24_32; P62308 RUXG 24_32
2965	GRINHVFGH	Q8WVP5 TP8L1 141_149
2966	KVRAHLAEL	B0I1T2 MYO1G 747_755
2967	ARHGEKLLL	Q9C035 TRIM5 96_104
2968	VRTHIRVGV	Q9NVN8 GNL3L 249_257
2969	IRHGATHVF	O60264 SMCA5 654_662; P28370 SMCA1 669_677
2970	GRLHLGHTF	Q9P2J5 SYLC 57_65
2971	RRGLPRLAV	Q96AZ6 ISG20 171_179
2972	KRLDAAPHM	Q49AG3 ZBED5 660_668
2973	GRFGLQPHK	Q8IZ69 TRM2A 94_102
2974	SRLPLARVK	Q9NR33 DPOE4 39_47
2975	KVRNVVRGL	Q5VZ89 DEN4C 647_655
2976	KVRQRVAL	P11387 TOP1 471_479
2977	KLSGFSFKK	P29966 MARCS 165_173
2978	RLGPSLRDK	Q5VV67 PPRC1 68_76

2979	ARAVVEKRL	O60888 CUTA 85_93
2980	GRKSTPLHF	Q9H2K2 TNKS2 56_64
2981	KSHFIVALK	Q96GD4 AURKB 98_106
2982	GRNKVGYHL	Q8N655 CJ012 90_98
2983	SRLDIRVGK	P54577 SYYC 366_374
2984	KRAAVPRFV	Q9NXE4 NSMA3 365_373
2985	RPKKPGQSF	O15042 SR140 863_871
2986	KLKIPFGNK	Q5JUR7 TEX30 7_15
2987	SPRSVIHHL	O95163 ELP1 523_531
2988	KRLKSIMGL	Q8WVM8 SCFD1 356_364
2989	FRKTGIPTK	Q7Z7K0 COXM1 88_96
2990	KRASVFVKL	P50502 F10A1 153_161; Q8IZP2 ST134 149_157; Q8NFI4 F10A5 153_161
2991	SRAKVKFNV	O00567 NOP56 153_161
2992	KIRPHIATL	Q14671 PUM1 1143_1151
2993	RRALIVLAH	P15559 NQO1 4_12
2994	RVRQLGHAL	P26010 ITB7 170_178
2995	RRKPVLPAL	P36507 MP2K2 4_12
2996	APRRLTSHL	P25054 APC 300_308
2997	RIRGHVLSL	Q14671 PUM1 920_928
2998	GRHSTPLHF	O95271 TNKS1 682_690
2999	GTFPRAFKK	Q9NUP1 BL1S4 164_172
3000	KRFKSAAML	P35610 SOAT1 442_450
3001	RVHLRSATL	Q8TDP1 RNH2C 13_21
3002	GRNKPHTPF	O00139 KIF2A 496_504
3003	IPKRIRSAL	Q6NUQ1 RINT1 99_107
3004	ARHGIKIF	Q9H3E2 SNX25 792_800
3005	RRLGLAQKL	P41227 NAA10 82_90; Q9BSU3 NAA11 82_90
3006	GRIQIALKR	Q6BDS2 URFB1 214_222
3007	RRLEAALVK	Q9UQ35 SRRM2 43_51
3008	SPRRKLISV	Q9HBE5 IL21R 170_178
3009	RRIAEVAKL	O43252 PAPS1 111_119; O95340 PAPS2 101_109
3010	RRLKAELGI	Q13907 IDI1 110_118
3011	KPRKAFPVL	P19634 SL9A1 84_92
3012	KRIVEGILK	Q15370 ELOB 28_36
3013	VPRHPNTHV	Q01543 FLI1 436_444
3014	GRLLDSLKR	Q9BQ39 DDX50 277_285
3015	KRDGTVLRL	Q9H867 MT21D 22_30
3016	KRSELIAKI	P0DME0 SETLP 93_101; Q01105 SET 83_91
3017	RLLTSLRAK	P49368 TCPG 461_469
3018	SRLKSILKL	Q9BRT6 LLPH 27_35
3019	GRLVKDMKI	P15880 RS2 67_75
3020	YPRKGRIAV	Q14117 DPYS 389_397; Q14194 DPYL1 395_403; Q16555 DPYL2 395_403
3021	RLFGLTKPK	Q12802 AKP13 2772_2780
3022	FVRKAVRAI	P63010 AP2B1 369_377; Q10567 AP1B1 369_377
3023	KRFLGRIVA	P55042 RAD 279_287
3024	SRSYLVHK	Q8N988 ZN557 184_192
3025	APNAKRKYL	Q9HCE5 MET14 59_67

3026	RPHIPISKL	Q8TF42 UBS3B 532_540
3027	RRGAWGNMM	Q01543 FLI1 226_234
3028	LPRKHIQGL	P41214 EIF2D 566_574
3029	VPESHRKPL	Q01850 CDR2 298_306
3030	GRDIPIVHR	Q9BY50 SC11C 101_109
3031	KRLGSLNKF	Q9H0S4 DDX47 301_309
3032	HPALRSLRL	Q86VU5 CMTD1 66_74
3033	KRVSKMPAF	Q969X6 CIR1A 428_436
3034	RRAIPTVNH	Q16513 PKN2 522_530
3035	KRFSGTVRL	P62906 RL10A 47_55
3036	RVRQVVAHV	P29590 PML 282_290
3037	HPVIRRSSL	Q7Z6Z7 HUWE1 3440_3448
3038	RRVEIAHAL	P17483 HXB4 191_199
3039	GRMPHVLQK	Q9ULD5 ZN777 69_77
3040	SRYDGVIKK	P11182 ODB2 112_120
3041	YRTGVKVDK	P52566 GDIR2 130_138
3042	KRLDIATHL	Q9P260 K1468 1105_1113
3043	RPLGQRARL	Q5JUQ0 FA78A 223_231
3044	RPLKGRINL	P00374 DYR 66_74
3045	RPTRKPLSL	Q86TN4 TRPT1 221_229
3046	SVRKVTEHL	Q8N201 INT1 1775_1783
3047	NPRRGDIKL	Q5VTE6 ANGE2 314_322
3048	KRLAHPFSL	P01130 LDLR 603_611
3049	GRITKRLLL	Q9BV86 NTM1A 73_81
3050	APLQHRHVL	Q504T8 MIDN 161_169
3051	NPQERTLTL	P08238 HS90B 78_86
3052	KRLDEKLGI	Q9Y520 PRC2C 486_494
3053	RRGDITIKL	Q8WWY8 LIPH 343_351
3054	RARKPAFIL	O60733 PLPL9 459_467
3055	ARSKEVINR	Q14807 KIF22 363_371
3056	KRTALALHY	Q8IZT6 ASPM 3251_3259
3057	KTFHGLLTR	Q8IV04 TB10C 414_422
3058	ARAEIRARM	Q9UNF1 MAGD2 495_503
3059	GRFKARPEL	Q96GC5 RM48 196_204
3060	RIVFPSRAK	Q92616 GCN1L 125_133
3061	KLYGKPIRV	Q15427 SF3B4 78_86
3062	RTAVYSLHK	Q9NRN9 METL5 150_158
3063	KRGNFLVLK	Q9BQ52 RNZ2 250_258
3064	RIGNFIVKK	Q00796 DHSO 56_64
3065	IRFGGRKEI	Q8TEQ0 SNX29 26_34
3066	RRFIGSIVK	Q9GZU3 TM39B 136_144
3067	SRQGVFVKR	Q02556 IRF8 283_291
3068	KTNGKFLIR	P43405 KSYK 187_195
3069	TRIGKFEAR	Q13347 EIF3I 260_268
3070	KRFEGLTAR	Q15208 STK38 446_454
3071	KIYGRALEK	Q9BVV7 TIM21 140_148
3072	KRKEYGIAL	Q9Y5A7 NUB1 248_256

3073	ARKMKFALL	Q15084 PDIA6 364_372
3074	TRLKYAVKV	Q8WV28 BLNK 447_455
3075	SRGKQDFLK	A6NKT7 RGPD3 363_371; O14715 RGPD8 363_371; P0DJ0 RGPD1 354_362; P0DJ1 RGPD2 362_370; P49792 RBP2 362_370; Q7Z3J3 RGPD4 363_371; Q99666 RGPD5 363_371
3076	GRKYIPAKF	Q5H9U9 DDX6L 1476_1484
3077	SVFNHAIRH	Q7L576 CYFP1 470_478
3078	RTRAHPVML	Q92759 TF2H4 369_377
3079	RRLDLVHTA	O75643 U520 952_960
3080	KRHPLSVML	Q13769 THOC5 342_350
3081	RPIRRAAQL	Q69YL0 NCAS2 24_32
3082	RLSSKLIQH	P17097 ZNF7 288_296
3083	ARVKVFSKF	Q8TF20 ZN721 73_81
3084	RPQVANKRL	Q8IYL2 TRM44 30_38
3085	ATWKNAVRH	O15409 FOXP2 546_554; Q8IVH2 FOXP4 509_517; Q9H334 FOXP1 507_515
3086	GRLQKVMNH	Q63HN8 RN213 505_513
3087	RPKAKEIQL	Q9Y2H6 FND3A 673_681
3088	KVRVPRQSL	O15254 ACOX3 265_273
3089	AIYGTRKFK	Q2M385 MPEG1 675_683
3090	KRKVLILTL	Q10469 MGAT2 7_15
3091	IRSKLKLLL	P78527 PRKDC 3045_3053
3092	GRLRSVIQR	Q8IY17 PLPL6 663_671
3093	RPKTVRDTL	Q7Z5L9 I2BP2 301_309
3094	KLDSVRVLR	P01106 MYC 326_334
3095	RRIDITAKL	Q0D2I5 IFFO1 332_340; Q5TF58 IFFO2 296_304
3096	ARITSRIIR	P01591 IGJ 38_46
3097	GPREKMQKL	Q9Y5X3 SNX5 101_109
3098	KVWRGTLAR	O94832 MYO1D 707_715
3099	RVMKALVNR	Q08945 SSRP1 316_324
3100	KVRFPLISK	Q8IXQ5 KLHL7 232_240
3101	FPRSKVLKL	O75354 ENTP6 445_453
3102	APRNKISRF	Q9GZY8 MFF 180_188
3103	ARKRVAIQF	O95470 SGPL1 492_500
3104	RPRPTKTSF	Q9UGR2 Z3H7B 486_494
3105	RRLGVYPTK	Q96MG7 MAGG1 203_211
3106	QRQKIKAAC	P20073 ANXA7 219_227
3107	GRKKQVVQF	O95825 QORL1 341_349
3108	GRKVLKLLY	Q8TDB6 DTX3L 670_678
3109	ARFRGIFSH	O00170 AIP 322_330
3110	KRAIFATQR	P13807 GYS1 429_437
3111	KRFNVAVTR	Q9HCE1 MOV10 903_911
3112	ARAKLLQKY	Q04637 IF4G1 1506_1514
3113	RAYAKALHY	P42345 MTOR 1391_1399
3114	VPRKDVGHEI	Q4LE39 ARI4B 225_233
3115	RTAFTLKQK	Q68D06 SLN13 489_497; Q7Z7L1 SLN11 489_497
3116	RLKEAYSVK	Q6P2Q9 PRP8 845_853
3117	QRIEHLIGK	Q9H0S4 DDX47 376_384

3118	RLGLPLRLR	O75326 SEM7A 24_32
3119	KAMGYFLKH	P50851 LRBA 741_749
3120	ALNHKVLHY	Q96JJ3 ELMO2 573_581
3121	RRIEIAHSL	P09017 HXC4 185_193
3122	KLFNKFIGK	P48200 IREB2 803_811
3123	RPTDKPLRL	P68104 EF1A1 240_248; Q05639 EF1A2 240_248; Q5VTE0 EF1A3 240_248
3124	RPRVRVEAL	Q9Y697 NFS1 273_281
3125	RRLPTVLLK	Q9NV31 IMP3 109_117
3126	RINKRILAL	P26038 MOES 275_283; P35241 RADI 275_283
3127	KRFSVPVQH	Q99829 CPNE1 190_198
3128	RVKYGTVFK	Q96ST3 SIN3A 1263_1271
3129	KRTPLLTRL	Q7Z6Z7 HUWE1 155_163
3130	RVNKPPYPK	P13796 PLSL 441_449
3131	KRIQLPSEK	P60520 GBRL2 66_74
3132	RLAEVIKNR	O94966 UBP19 729_737
3133	ARLDLERKV	P08670 VIME 216_224
3134	GRTDLLRLR	P78527 PRKDC 2721_2729
3135	RVSLVRKEL	Q96P16 RPR1A 271_279
3136	KRLKTVLEL	Q14444 CAPR1 144_152
3137	ARHVVVKVEY	Q86Y07 VRK2 56_64
3138	RRSQALEKL	Q9H3U1 UN45A 97_105
3139	SRVMNVHKM	Q53G44 IF44L 382_390
3140	GRLSHYLQK	P17812 PYRG1 549_557
3141	RPIRKGDIF	P55072 TERA 144_152
3142	RVLAAPLRR	Q9HB09 B2L12 99_107
3143	RPKTYHTSL	Q66K64 DCA15 509_517
3144	KRVQVDVKM	Q13263 TIF1B 289_297
3145	KRLNMATLR	Q08211 DHX9 943_951
3146	RPLSKTVRF	P62280 RS11 132_140
3147	KRKGQVIQF	P83881 RL36A 98_106; Q969Q0 RL36L 98_106
3148	KRLVVFDAR	P53803 RPAB4 50_58
3149	RRFILASKL	Q8IW89 TEX2 702_710
3150	KRFSSEITH	Q8IWV8 UBR2 731_739
3151	ARHLKLFGY	Q8NCW5 NNRE 128_136
3152	KIRTSPTFR	P62750 RL23A 39_47
3153	RPKYPGIKF	P45984 MK09 263_271
3154	TPERHKPEL	Q7Z4H7 HAUS6 858_866
3155	KVYDKAINR	Q6KC79 NIPBL 2574_2582
3156	RRWLDGASF	O95071 UBR5 320_328
3157	IRDKYITAK	O14776 TCRG1 1008_1016
3158	RRIEIAHTL	P09016 HxD4 183_191; P09629 HXB7 166_174; Q00056 HXA4 244_252
3159	RRVNPPTLR	Q27J81 INF2 555_563
3160	RRLSTLILH	Q5HYK9 ZN667 368_376; Q9NYB0 TE2IP 40_48
3161	SRFKAIKEM	O14776 TCRG1 758_766
3162	LPRKTRIIL	Q9BUN1 MENT 56_64
3163	KPRSRQLLL	O00159 MYO1C 934_942
3164	RLLARILQK	Q9UH36 SRR1L 255_263

3165	ARIMQIHSR	P17980 PRS6A 363_371
3166	KPKRTTSFF	Q9BZ67 FRMD8 433_441
3167	RPDLKRQSL	Q15916 ZBTB6 415_423
3168	KVRRAIEQL	O15392 BIRC5 130_138
3169	RPKRPANQF	P67870 CSK2B 175_183
3170	VRYKQVHAL	Q6UX65 DRAM2 73_81
3171	GRIREIELK	Q13242 SRSF9 38_46
3172	RVREEILAK	Q9H0D6 XRN2 134_142
3173	SRAELRLLR	P01137 TGFB1 151_159
3174	RPRKAFLLL	P13667 PDIA4 2_10
3175	SRMFFGKNK	Q9UKD2 MRT4 63_71
3176	VRKSRAWVL	O43709 WBS22 245_253
3177	EVRKKTLQL	P53618 COPB 335_343
3178	KRNDYVHAL	Q99873 ANM1 266_274
3179	SRLTKFHNL	Q96EK7 F120B 832_840
3180	RRKEIMLGL	Q06210 GFPT1 520_528
3181	GLFNRIIRK	Q9H0A0 NAT10 893_901
3182	RPGYRVKEI	O00422 SAP18 98_106
3183	KRAYIPRTL	Q9BRS2 RIOK1 426_434
3184	TRLKKLFLV	Q15435 PP1R7 164_172
3185	RAYPHVFTK	O14949 QCR8 25_33
3186	KARNIFKEL	Q9UII4 HERC5 447_455
3187	QREKGIFKL	P32519 ELF1 232_240; Q15723 ELF2 232_240; Q99607 ELF4 233_241
3188	SRFARLQKL	P04035 HMDH 626_634
3189	KRFQAIISR	Q49AN0 CRY2 170_178
3190	IRKSKNILF	E9PAV3 NACAM 1959_1967; Q13765 NACA 96_104; Q9BZK3 NACP1 95_103
3191	RVRDVFEAK	P12268 IMDH2 126_134
3192	RLKYPPFAK	Q8IV48 ERI1 247_255
3193	VRKKFVTEL	O94915 FRYL 195_203
3194	KRASYILRL	Q96Q15 SMG1 2084_2092
3195	SRHSLDMKF	Q16665 HIF1A 244_252; Q9Y2N7 HIF3A 243_251
3196	ARHEHQVML	Q15233 NONO 303_311
3197	KLFSVTRNR	Q12769 NU160 93_101
3198	KRLTVQTKF	Q01082 SPTB2 1459_1467
3199	RARQVLEHL	Q96H20 SNF8 208_216
3200	KRIDIIHNL	Q9ULM3 YETS2 299_307
3201	RRKSLLTTF	Q5VYS8 TUT7 1259_1267
3202	GRKALTWKY	O94952 FBX21 156_164
3203	RVLSERLLH	Q96AZ6 ISG20 131_139
3204	RIKPPWVVK	Q8IXJ9 ASXL1 578_586
3205	KLNIRPLLR	Q15029 U5S1 409_417
3206	KPTRKFAYL	P40429 RL13A 130_138
3207	SRFGKFIRI	A7E2Y1 MYH7B 245_253; P11055 MYH3 243_251; P12882 MYH1 245_253; P12883 MYH7 242_250; P13533 MYH6 243_251; P13535 MYH8 245_253; P35579 MYH9 233_241; P35580 MYH10 240_248; P35749 MYH11 240_248; Q7Z406 MYH14 260_268; Q9UKX2 MYH2 245_253; Q9UKX3 MYH13 244_252; Q9Y623 MYH4 245_253
3208	RRVQPRVNV	P04440 DPB1 120_128

3209	RRLLQPKNV	P23258 TBG1 295_303; Q9NRH3 TBG2 295_303
3210	IRYGQTKKM	P49591 SYSC 408_416
3211	KVFKQIFSK	O15228 GNPAT 128_136
3212	ARFKERVGY	Q96AT1 K1143 19_27
3213	GRWKDILTH	Q8TD26 CHD6 1110_1118
3214	RPREEVRAL	Q9P2D1 CHD7 1943_1951
3215	RRIQVVHAF	O75771 RA51D 165_173
3216	QPRRNLTKL	P22681 CBL 146_154
3217	KRILIQAQR	P52630 STAT2 116_124
3218	KRLLVVREL	O95163 ELP1 1136_1144
3219	KRNELVIRV	P11413 G6PD 386_394
3220	GRLKEQRQL	Q15075 EEA1 435_443
3221	RRLDIVRSL	P40337 VHL 176_184
3222	KRVELLKEL	P33991 MCM4 444_452
3223	SRVREVINR	O76081 RGS20 331_339; Q9UGC6 RGS17 153_161
3224	RTAHVILRY	Q9UKV5 AMFR 229_237
3225	KRNDKIELL	Q4FZB7 SV421 219_227
3226	RVTQVRKEL	Q9NQG5 RPR1B 285_293
3227	KRTLILTHF	Q92830 KAT2A 348_356; Q92831 KAT2B 338_346
3228	STFRESFKK	P23497 SP100 389_397
3229	RLREVSEKL	O95071 UBR5 21_29
3230	RRTETVQKL	O00299 CLIC1 50_58
3231	KIRKTIMQL	P19388 RPAB1 12_20
3232	KVLHFFNVK	O94855 SC24D 492_500
3233	RPRKVISYL	P54277 PMS1 869_877
3234	LRHPNILRL	O14965 AURKA 188_196
3235	RTYEEGLKH	P31948 STIP1 93_101
3236	ARKQVEVFR	Q9UL46 PSME2 13_21
3237	IRNSRVPKY	P13196 HEM1 346_354
3238	RRYIGIVKQ	P52597 HNRPF 217_225
3239	KRTFLRQAL	O00231 PSD11 121_129
3240	GRLDRKIEF	P17980 PRS6A 346_354; P35998 PRS7 335_343; P43686 PRS6B 325_333
3241	KRKELITVF	Q96QT4 TRPM7 373_381
3242	KRSESWTLK	Q8IYM9 TRI22 257_265
3243	KRFEGLTQR	Q9Y2H1 ST38L 444_452
3244	RVSYQKLLK	Q6P2Q9 PRP8 444_452
3245	HLEDIVRQK	Q14669 TRIPC 1751_1759
3246	RRIAAYLFK	Q00610 CLH1 1508_1516
3247	KMHDKVFAY	Q5SW96 ARH 123_131
3248	SRMKKEVNF	Q8NG31 CASC5 219_227
3249	GRIEKVWVR	Q86U86 PB1 1177_1185
3250	HRAQVIYTR	P62851 RS25 103_111
3251	KRLTHVYDL	P24928 RPB1 139_147
3252	ARIWDVRTK	O43660 PLRG1 312_320
3253	QRVKILFNK	P26599 PTBP1 365_373
3254	FQNKKRVLL	P62280 RS11 17_25
3255	RPRQQDPHL	Q96BZ8 LENG1 254_262

3256	HTDILKEKY	Q8N5C7 DTWD1 262_270
3257	RTTSHLLRY	Q03164 KMT2A 1655_1663
3258	KRKLLINDF	Q14493 SLBP 96_104
3259	SRIRKLFNL	P62753 RS6 139_147
3260	KVIDRILYK	O75533 SF3B1 554_562
3261	KRQLRTVTF	Q86Y13 DZIP3 768_776
3262	ARKETEFLR	Q15208 STK38 70_78; Q9Y2H1 ST38L 71_79
3263	KRKEFLSEL	Q92599 SEPT8 329_337
3264	RPAYRKVFL	Q12772 SRBP2 1026_1034
3265	KRKELVTLY	Q8TD55 PKHO2 477_485
3266	RPRIPRELL	Q5T7W7 TSTD2 485_493
3267	KRLLFQKAF	Q92540 SMG7 281_289
3268	IRIEDPPRR	P61160 ARP2 342_350
3269	KRTFLSIMR	P45844 ABCG1 410_418
3270	RRFTMKTVL	P48729 KC1A 106_114; Q8N752 KC1AL 106_114
3271	FTDKKTHLY	P27824 CALX 230_238
3272	RRFGDKLNF	Q13794 APR 30_38
3273	SPRYKSLRF	Q8N2G8 GHDC 467_475
3274	ARTDKRFFL	O43913 ORC5 321_329
3275	RRMLVQTHL	Q8WYJ6 SEPT1 266_274
3276	FGFHKPCKMY	Q9NP50 FA60A 2_10
3277	RTSQIYLHH	Q4ADV7 RIC1 822_830
3278	RRSADMWSF	Q13418 ILK 370_378
3279	RRKEIDLLO	O75643 U520 153_161
3280	RRVEVTRQL	Q9UII4 HERC5 48_56
3281	KRKELELQI	Q14155 ARHG7 453_461
3282	RLNERVAYH	Q8TE82 S3TC1 1188_1196
3283	KRYQEALHL	O00231 PSD11 141_149
3284	TRWNKIVLK	Q9BZL1 UBL5 37_45
3285	RRLPIFSRL	P47974 TISD 481_489; Q07352 TISB 325_333
3286	HVYSWPKNK	O43734 CIKS 537_545
3287	RRAVLLQRF	Q5T447 HECD3 406_414
3288	RPERVKPFM	P13693 TCTP 107_115
3289	RRVVYPLEK	O60832 DKC1 283_291
3290	RRNDKIIVF	P19447 ERCC3 553_561
3291	QRFDARQKI	Q9BY77 PDIP3 52_60
3292	KRQKLMPNF	P19838 NFKB1 362_370
3293	RRIKTEFLV	O75351 VPS4B 252_260; Q6PIW4 FIGL1 518_526; Q9UN37 VPS4A 245_253
3294	RRKEVVVYL	P52948 NUP98 795_803
3295	RRFFSSSEF	Q9P2F9 ZN319 465_473
3296	TRMRHVISY	O14949 QCR8 9_17
3297	RRSQVIEKF	Q6WCQ1 MPRIP 299_307
3298	GLWHMKTYK	Q9ULC4 MCTS1 173_181
3299	GLYYIHRNK	P50750 CDK9 136_144
3300	KIYNSRVQR	Q5VY09 IER5 17_25
3301	RPYYPRKAL	Q6NTF7 ABC3H 21_29
3302	RVIQRILEH	Q14671 PUM1 1008_1016; Q8TB72 PUM2 888_896

3303	RLSYNVREK	Q13247 SRSF6 8_16
3304	YRVTIHKTF	Q6P2Q9 PRP8 1786_1794
3305	IRTRIYESK	Q8NAV1 PR38A 25_33
3306	IRRGFQVYK	P08574 CY1 110_118
3307	FPHKRLQQL	O43542 XRCC3 146_154
3308	GRFQEFAQKK	P09914 IFIT1 385_393
3309	RRLDLPIER	P17812 PYRG1 268_276
3310	RRLLEKQLL	P57678 GEMI4 877_885
3311	GRHIQQYHM	Q13438 OS9 125_133
3312	KLRGRTLYY	Q16760 DGKD 76_84; Q86XP1 DGKH 88_96
3313	KSFDFKNLYR	P33991 MCM4 216_224
3314	RLYTEKAYK	O43143 DHX15 483_491
3315	VRTKRDWLV	Q07820 MCL1 299_307
3316	KVVDRWNEK	Q4U2R6 RM51 42_50
3317	TRLFAPWKR	Q6IA86 ELP2 412_420
3318	FRYNGLIHR	P46779 RL28 38_46
3319	QRQRAILYK	P62424 RL7A 64_72
3320	RRLKTEFLI	Q9UBP0 SPAST 459_467
3321	ARTYLERHM	P25786 PSA1 168_176
3322	DRIRFTVNR	Q9H0C5 BTBD1 349_357
3323	KRMFEPTRL	O95562 SFT2B 91_99
3324	KVREEFKEL	P02545 LMNA 108_116
3325	VRFGQQKRY	Q68E01 INT3 321_329
3326	GRKLFYVHY	Q92993 KAT5 39_47
3327	RLFPLLRQR	Q8NBM4 UBAC2 277_285
3328	TRLTWLHEK	Q8TCB0 IFI44 5_13
3329	KRFDDKYTL	Q15005 SPCS2 164_172
3330	QRFLLKNLR	P19474 RO52 56_64
3331	RLDTDHLRY	Q96P48 ARAP1 351_359
3332	HRLEELYTK	Q9UNM6 PSD13 23_31
3333	RSYEEHLEK	P82914 RT15 137_145
3334	KRLQYLEKL	Q08AF3 SLFN5 179_187
3335	KRKMLQQF	P49736 MCM2 896_904
3336	RDTIFQKER	Q05655 KPCD 216_224
3337	RTEYNLRLK	Q15149 PLEC 622_630
3338	ERLQHIIQR	Q66GS9 CP135 462_470
3339	RRFNYVVVKL	Q8TCJ0 FBX25 120_128
3340	KRDFNQFIK	O60264 SMCA5 847_855; P28370 SMCA1 862_870
3341	RPKEYTVRF	Q8NE71 ABCF1 604_612
3342	LRKKLYQTF	O75665 OFD1 19_27
3343	RIYDIFRSK	Q01432 AMPD3 475_483
3344	QRKERLYPL	P42766 RL35 108_116
3345	KRFEQQQKL	Q9UMZ2 SYNRG 125_133
3346	RQYDKFLTH	Q7Z6M2 FBX33 416_424
3347	RQYMHVLQH	Q8WUB2 F216A 132_140
3348	VRWEKIQPR	Q15762 CD226 163_171
3349	QLYWSHPRK	P62273 RS29 5_13

3350	RRVYEILRL	O14929 HAT1 329_337
3351	KRVFPKWTY	Q2NL82 TSR1 771_779
3352	LTYRRRLSY	P49207 RL34 5_13
3353	YRKFFETKL	O15042 SR140 615_623
3354	RIFQKFLQR	Q12965 MYO1E 627_635
3355	KRYDREFLL	Q04637 IF4G1 610_618
3356	KMNKRQLYY	Q9BY50 SC11C 24_32
3357	RVVNIYIRR	Q8IZF4 GP114 345_353
3358	FRNFKIIYR	P53680 AP2S1 52_60
3359	RLYERLFQH	P47897 SYQ 690_698
3360	HTYYYKFDYK	B5ME19 EIFCL 510_518; Q99613 EIF3C 509_517
3361	GRGAFGHLR	Q15345 LRC41 760_768
3362	RPRGHLGSL	Q99973 TEP1 1917_1925
3363	RRISGHVGI	Q9NNW5 WDR6 203_211
3364	KPRGFARGL	P83916 CBX1 109_117; Q13185 CBX3 113_121
3365	RPHRGILAV	B0I1T2 MYO1G 459_467
3366	KRKGFSEGL	P51858 HDGF 78_86
3367	RPRRGIPGL	P27708 PYR1 1836_1844
3368	RRHVGVISV	Q9P2G9 KLHL8 356_364
3369	RRHIVAAGF	Q969Z0 TBRG4 586_594
3370	RRNKGPVSI	Q15459 SF3A1 699_707
3371	KRKSSGFAF	Q8IYM9 TRI22 380_388
3372	RRAAFAARL	Q14674 ESPL1 161_169
3373	GRMHGKFSL	Q99661 KIF2C 482_490
3374	RRHEGLPGL	P49327 FAS 2048_2056
3375	RRHAALVL	P42345 MTOR 164_172
3376	RRHSIPTGL	A8MPS7 YDJC 54_62
3377	RPRRVGIAL	Q12899 TRI26 485_493
3378	RPRRNGLGL	Q96I76 GPTC3 468_476
3379	GRHRAPVTF	Q9NVW2 RNF12 512_520
3380	RSRRAIAVL	O75064 DEN4B 313_321
3381	RRHGSMVSL	Q9Y5P4 C43BP 128_136
3382	RRQAQQAGK	P84090 ERH 96_104
3383	HRANIFSAK	Q58WW2 DCAF6 93_101
3384	RRSSIGLRV	Q96GN5 CDA7L 136_144
3385	GRHSLDHLL	Q01780 EXOSX 399_407
3386	KRKGFNEGL	O75475 PSIP1 73_81; Q7Z4V5 HDGR2 73_81; Q9Y3E1 HDGR3 77_85
3387	RRGHVTPNL	Q96CP6 GRM1A 272_280
3388	HVRRNALAL	Q9H9L4 KANL2 91_99
3389	ARHGSKIWV	Q86TI2 DPP9 498_506
3390	RRNRVLAGL	Q92616 GCN1L 1881_1889
3391	RPHQKSVGF	Q93009 UBP7 109_117
3392	GRFSEPHAR	P17612 KAPCA 137_145; P22694 KAPCB 137_145
3393	KRHVVNSANF	Q6GPH4 XAF1 12_20
3394	RARGKPMEL	O00170 AIP 54_62
3395	RRLKSDVAL	Q9NRZ9 HELLS 450_458
3396	GRARVHTDF	O75995 SASH3 176_184; O94885 SASH1 557_565; Q9NSI8 SAMN1 166_174

3397	RPTSKRDSL	P35251 RFC1 530_538
3398	RRFLPARGS	Q8IVG5 SAM9L 632_640
3399	RRGTLAVMR	P41229 KDM5C 943_951
3400	RRISFSASH	Q03393 PTPS 16_24
3401	RRSGVKTLF	Q9H477 RBSK 168_176
3402	HPRRGSLEL	Q16549 PCSK7 536_544
3403	KRFKGTESI	Q00688 FKBP3 70_78
3404	RRLRPLAAL	Q9UMX5 NENF 8_16
3405	HRDGRVITL	Q9NVC6 MED17 506_514
3406	RLRNHMAVA	P09669 COX6C 18_26
3407	RRLNNSPIGR	P30876 RPB2 483_491
3408	RRFPLAPGR	Q9BQC3 DPH2 201_209
3409	RRRDAVIAL	P42356 PI4KA 15_23
3410	RRIKGEVTL	Q9P2K8 E2AK4 631_639
3411	RRFLAARAL	A6NEL3 F86C2 18_26; Q9NVL1 FA86C 18_26
3412	KRKNPDLGF	O95926 SYF2 116_124
3413	KPRRGSFEV	Q8IZQ5 SELH 73_81
3414	GRKSTEFPR	P46013 KI67 105_113
3415	RPRGYTSKI	P14735 IDE 429_437
3416	RRKSSVLTM	Q13415 ORC1 380_388
3417	RPRHSLNSL	Q9UGL1 KDM5B 982_990
3418	KRHNLAILD	Q9UPT9 UBP22 97_105
3419	RPHKPGLYL	Q5SRI9 MANEA 428_436
3420	KRYFGARAI	Q9BQ70 TCF25 192_200
3421	RRARANPQL	Q9BQE5 APOL2 228_236
3422	RRVHPVSTM	P00338 LDHA 268_276; P07864 LDHC 268_276
3423	RRNVGRVLL	Q9NWN3 FBX34 309_317
3424	RPRRDIGTI	Q504T8 MIDN 298_306
3425	RARRQGINL	Q9NWK9 BCD1 312_320
3426	RPFHTRATV	Q2KJY2 KI26B 831_839
3427	RRINVAVTR	P38935 SMBP2 595_603
3428	RRSALNVRL	Q9UNS1 TIM 332_340
3429	HRFLGTVEK	O75534 CSDE1 426_434
3430	RLDSNRIGR	Q12986 NFX1 37_45
3431	SRHAALLYR	O15254 ACOX3 601_609
3432	RRFSQGSHL	Q9BWE0 REPI1 438_446
3433	RRKIMSSPL	P61254 RL26 26_34; Q9UNX3 RL26L 26_34
3434	GRHVKTVEV	Q16531 DDB1 187_195
3435	RRDISSSL	O94776 MTA2 47_55
3436	RRAASLLRF	P13804 ETFA 11_19
3437	RRSRAFLAL	O43291 SPIT2 8_16
3438	GRYIIRSALR	O60716 CTND1 699_707
3439	GRLRLVLKH	Q96GQ5 CP058 290_298
3440	RRHNINIGI	Q9Y5Y0 FLVC1 516_524
3441	KRYGRVESV	Q96T58 MINT 27_35
3442	RPHSSLREL	P52333 JAK3 445_453
3443	HRNKAMINL	Q9NZ45 CISD1 39_47

3444	FRKKLNAGY	O75717 WDHD1 837_845
3445	KRFGKAYNL	Q86XP3 DDX42 347_355
3446	RRGPSRQQL	Q9NV64 TM39A 5_13
3447	RRVARQAQL	O60239 3BP5 105_113
3448	RRAHIFPMA	P13196 HEM1 224_232
3449	RRHPASYLV	Q9UPP1 PHF8 422_430
3450	RVRNPTKDL	O60478 G137B 314_322
3451	RRLNVAITR	P51530 DNA2 998_1006
3452	RVRFQSHGL	Q9NWL6 ASND1 507_515
3453	RREDVVLGR	P56279 TCL1A 52_60
3454	RRRLDSALL	Q96C34 RUND1 87_95
3455	RTRLVRGEL	Q05923 DUS2 77_85
3456	RPRRSSTQL	P28908 TNR8 439_447
3457	HRNKSSLLF	Q8TF40 FNIP1 589_597
3458	RRRGYAPLL	Q495W5 FUT11 204_212
3459	RRFLAARTL	Q96G04 FA86A 18_26
3460	SRKTFSHEL	P30101 PDIA3 303_311
3461	ARHRIYAAF	Q12894 IFRD2 427_435
3462	RRFGSQLIK	Q4L235 ACSF4 294_302
3463	RRFLASNKL	Q9UNN5 FAF1 588_596
3464	KRFNADNKL	Q9NRZ9 HELLS 371_379
3465	RRDTPKYGL	Q9Y2X3 NOP58 332_340
3466	RRFEAGEKL	B2RD01 CENP1 32_40
3467	GRDVSRFLR	P61163 ACTZ 187_195
3468	ARARHAWQL	P41273 TNFL9 220_228
3469	RRTGYLGY	Q9Y5S9 RBM8A 108_116
3470	GRHRSNQLF	P78344 IF4G2 399_407
3471	RRARINESL	Q14469 HES1 46_54; Q96HZ4 HES6 37_45; Q9HCC6 HES4 46_54
3472	RRNSLLHGY	Q9HA65 TBC17 363_371
3473	RRMARLAEL	Q86XL3 ANKL2 927_935
3474	RRLDTVRSI	Q68EM7 RHG17 34_42
3475	RRKESILTI	Q8IZT6 ASPM 1509_1517
3476	SRIRAAWTR	P14543 NID1 6_14
3477	RRFSQSSH	A6NFI3 ZN316 922_930
3478	RRVLKELGF	Q96S94 CCNL2 181_189; Q9UK58 CCNL1 186_194
3479	KRFGLNIDR	O43920 NDUS5 8_16
3480	RRFSQALLK	Q8NEB9 PK3C3 522_530
3481	RRFRGDVTL	Q96F44 TRI11 283_291
3482	RRKALYEAL	O75496 GEMI 106_114
3483	RRISGVDRY	O15239 NDUA1 52_60
3484	RRFTTSVVR	P15954 COX7C 7_15
3485	RLSRSFLSR	P53355 DAPK1 317_325
3486	RRRSSTFTL	Q9C0G0 ZN407 428_436
3487	KRYSRSLTI	Q99426 TBCB 26_34
3488	RRHDLLTTL	Q96GE4 CEP95 620_628
3489	RRFALKATY	P57071 PRD15 1027_1035
3490	RPRRPPTVF	Q96DN6 MBD6 365_373

3491	QRKKAYADF	P09669 COX6C 44_52
3492	RRADHVILF	Q8N139 ABCA6 660_668
3493	RRNLAFHTL	Q5T2E6 CJ076 668_676
3494	KRNREIAQL	O75037 KI21B 779_787
3495	SRKKPIWNV	P35610 SOAT1 493_501
3496	RRVDAENRL	P02545 LMNA 189_197
3497	RRKEEQIGL	Q86UU0 BCL9L 532_540
3498	RLREGQTLR	O00165 HAX1 118_126
3499	KRADWLARL	Q86SQ9 DHDDS 320_328
3500	RRLATVEER	Q12824 SNF5 52_60
3501	GRWKRVNTL	O15031 PLXB2 1537_1545
3502	RRKEVESIL	Q12983 BNIP3 102_110
3503	RRGDFIHVM	P62993 GRB2 178_186
3504	NPRRSFRSL	Q9H0M5 ZN700 78_86
3505	RRNGLFEKL	Q6ZS81 WDFY4 703_711
3506	KRHLSMQSF	Q8N4C6 NIN 265_273
3507	GRIDRKIEF	P62191 PRS4 345_353; P62195 PRS8 309_317
3508	SRTKRNFIL	Q1KMD3 HNRL2 527_535
3509	RRKTAVQYI	Q14527 HLTF 387_395
3510	RRFTLRSSL	Q8N680 ZBTB2 261_269
3511	RRSNLFTSR	Q9UPQ3 AGAP1 313_321
3512	RRNSNLLKY	Q8N2Z9 CENPS 87_95
3513	GRWRDILSH	Q9HCK8 CHD8 1459_1467
3514	RPRRTILEV	Q9UHB4 NDOR1 348_356
3515	QRKKEGFTF	O75175 CNOT3 734_742
3516	RRQKFGYSV	Q9Y3C1 NOP16 9_17
3517	RRNREIAIL	Q567U6 CCD93 473_481
3518	KRKDFGIMF	Q6ZMG9 CERS6 201_209
3519	RRKTPEELL	O43633 CHM2A 7_15
3520	RARDVREQL	O60231 DHX16 910_918
3521	GRLDRELQR	O43752 STX6 141_149
3522	RIRRATEQL	Q8TEX9 IPO4 20_28
3523	RRVRLQTTL	P12270 TPR 2324_2332
3524	KRKGYSYEL	P52735 VAV2 438_446
3525	KRHNIYSNI	P51003 PAPOA 232_240
3526	RRTSIHDFL	Q3V6T2 GRDN 1817_1825
3527	RNRKVIMDL	Q8TCB0 IFI44 119_127
3528	RRKQLEALM	Q15154 PCM1 839_847
3529	RSYSRSFSR	Q7Z6E9 RBBP6 713_721
3530	RIRERSESL	Q5SW79 CE170 874_882
3531	HRKVMSQNF	Q13283 G3BP1 62_70
3532	RPRRSFSEL	Q96FS4 SIPA1 766_774
3533	RRREAFEAI	Q9BQC6 RT63 66_74
3534	KRVRLEEAFL	Q13115 DUS4 299_307
3535	SRFRGFLEH	Q9P241 AT10D 253_261
3536	GRIRQEFDK	Q9UPQ4 TRI35 185_193
3537	RAREYNARL	Q00653 NFKB2 442_450

3538	RRFKGQILM	P62910 RL32 47_55
3539	RRFARSDEL	Q13118 KLF10 408_416
3540	RRFRASPLF	Q2NL82 TSR1 621_629
3541	RRKILETSF	P59045 NAL11 503_511
3542	SRFKNRETI	O15514 RPB4 72_80
3543	KRSNYITRL	Q7Z6Z7 HUWE1 143_151
3544	KRFQFVNGR	Q8NFA0 UBP32 1283_1291
3545	RRRLTPLQL	Q8N163 CCAR2 893_901
3546	KRFKEANNF	P18124 RL7 199_207
3547	HSERHVLLY	Q8WUI4 HDAC7 581_589
3548	RRKDGVFLY	P62829 RL23 89_97
3549	RRIARIQQI	P25054 APC 216_224
3550	RPRDDLDRL	Q14142 TRI14 383_391
3551	RRAAIYDKY	Q13084 RM28 183_191
3552	RRTRIGYSF	Q9NYH9 UTP6 71_79
3553	RRNREIAQL	Q7Z4S6 KI21A 790_798
3554	RPRIKTWQA	Q460N5 PAR14 377_385
3555	RRRLEQSTL	Q8N2G8 GHDC 52_60
3556	RRYTSLNHL	P22670 RFX1 749_757; P48378 RFX2 512_520; P48380 RFX3 497_505
3557	RPRAEAVRF	Q13438 OS9 186_194
3558	RRFQDAVRL	Q01813 K6PP 374_382
3559	RRVRLDEAF	Q05923 DUS2 276_284
3560	RQKGEQFRL	Q7Z7A1 CNTRL 1051_1059
3561	RRILRLSTF	O94804 STK10 7_15
3562	RTFGHLLRY	Q13200 PSMD2 673_681
3563	RRFTMGERI	O14503 BHE40 267_275
3564	RRTNYTRSL	P42345 MTOR 2316_2324
3565	RRRPDLDEI	O00488 ZN593 23_31
3566	YRKAFESRL	Q9BRQ8 AIFM2 252_260
3567	KRKEYLTGF	Q9UGY1 NOL12 26_34
3568	KRYSRALYL	Q9UJX3 APC7 353_361
3569	RRDFNHINV	P32969 RL9 35_43
3570	RRNGKQWLL	Q6P2I3 FAH2B 199_207; Q96GK7 FAH2A 199_207
3571	RTYDREGFK	Q9NZJ9 NUDT4 10_18
3572	HPRYRETTL	Q9HBW0 LPAR2 229_237
3573	RPRDKQMEL	Q9BUP3 HTAI2 216_224
3574	RRLKVQDQM	Q7Z3B4 NUP54 335_343
3575	RRRPEILSF	Q8N201 INT1 2075_2083
3576	NRIKFVIKR	P78347 GTF2I 532_540
3577	HPRDFFSRL	Q03989 ARI5A 358_366
3578	RIWSRSELK	Q9NZS9 BFAR 379_387
3579	RRYPQVVTR	Q6ZV29 PLPL7 680_688; Q8IY17 PLPL6 724_732
3580	GRYLRRELL	Q9UHH9 IP6K2 296_304
3581	RRQIFSQKL	Q9H211 CDT1 294_302
3582	FSDHHENKY	Q8TEL6 TP4AP 465_473
3583	KRFRPMNDL	Q14683 SMC1A 1120_1128
3584	RRYQDAIRV	Q9Y262 EIF3L 327_335

3585	RRYPIARVF	Q8TBA6 GOGA5 692_700
3586	YRHDLKIYA	O43314 VIP2 556_564
3587	KRWAKTYLL	Q9C0E2 XPO4 643_651
3588	RRKQMNLAY	P43304 GPDM 31_39
3589	KRWEGGYER	Q13888 TF2H2 9_17; Q6P1K8 T2H2L 9_17
3590	RRYQKSTEL	P68431 H31 53_61; P84243 H33 53_61; Q16695 H31T 53_61; Q6NXT2 H3C 52_60; Q71DI3 H32 53_61
3591	RRSKYDILM	Q12789 TF3C1 251_259
3592	RRRLNQLL	Q9UJX4 APC5 57_65
3593	ARHYYFLGR	Q15386 UBE3C 815_823
3594	RRHQNVVQF	Q8TDR2 STK35 256_264
3595	RLRRENQVL	Q10589 BST2 136_144
3596	RRNPEPLRF	E9PQ53 NDUCR 4_12; O95298 NDUC2 4_12
3597	RRAARQWQL	Q15834 CC85B 92_100
3598	RRQAARWEL	Q7Z7A3 CTU1 103_111
3599	RRRDIQQTL	Q9HAV4 XPO5 174_182
3600	RRKFGVFNY	Q9ULU4 PKCB1 354_362
3601	RRNMERLTL	P40227 TCPZ 318_326
3602	RRKVEDLQF	Q9UDT6 CLIP2 439_447
3603	RRFSDIQIR	P11586 C1TC 487_495
3604	RRLSVYRQI	P29590 PML 114_122
3605	RVYSPYNHR	Q9NS56 TOPRS 582_590
3606	RRDLLRLSY	P55265 DSRAD 1174_1182
3607	YSDHHENKY	Q16659 MK06 427_435
3608	RPYGRRPQY	P67809 YBOX1 200_208
3609	RRKEFETNL	Q75V66 ANO5 100_108
3610	RRDMPRSEF	Q5JRA6 MIA3 1696_1704
3611	RRLETESRF	Q6P3X8 PGBD2 539_547
3612	RRYLSPKYI	P60842 IF4A1 168_176
3613	GRFH PYTRY	Q9H2G9 GO45 374_382
3614	RRLQVQERL	P30793 GCH1 177_185
3615	GRRRLRQWLI	Q02556 IRF8 7_15
3616	KRRLQQQEL	O00139 KIF2A 172_180
3617	YRQGHFTYK	Q96SB8 SMC6 495_503
3618	RRLEEVRL	Q8TD31 CCHCR 102_110
3619	QRHQRLYSL	P42858 HD 2050_2058
3620	KRFTKNNFF	Q53GS9 SNUT2 455_463
3621	KRWESERVL	Q9Y2T2 AP3M1 240_248
3622	KRYSERAFF	Q9C0D3 ZY11B 332_340
3623	KRFYARYSL	P24863 CCNC 70_78
3624	RRRALQEYL	Q7Z614 SNX20 157_165
3625	RRYNQRISL	Q15018 F175B 152_160
3626	RRLSELLRY	P08238 HS90B 449_457
3627	QRFARMELR	Q9H0S4 DDX47 407_415
3628	RRKYTELQL	Q5T8P6 RBM26 835_843
3629	KRHYQEAYL	Q9Y6Q9 NCOA3 316_324
3630	RRMYQDARL	Q9BRS2 RIOK1 312_320

3631	RRLRQLQQL	O43290 SNUT1 507_515
3632	RRKDFQYEA	Q9UBB9 TFP11 739_747
3633	RRKGEQIYY	O95711 LY86 114_122
3634	KRNKIFMEF	Q8NHQ9 DDX55 306_314
3635	RRTNYSLRF	Q6ZU35 K1211 850_858
3636	ARRFFNKEF	P47712 PA24A 735_743
3637	KRKELWNL	O14920 IKKB 649_657
3638	RRASYEFMR	Q9NW61 PKHJ1 104_112
3639	RRNLRDFEL	Q8WXW3 PIBF1 153_161
3640	RRNQQFTRL	Q9C0D2 K1731 55_63
3641	RRKQLQNYL	Q8TEQ0 SNX29 734_742
3642	RRREFVMQV	O95793 STAU1 315_323; Q9NUL3 STAU2 336_344
3643	KRWQAIYKQ	P04632 CPNS1 172_180
3644	RRYKQFSQI	Q04446 GLGB 47_55
3645	RRQQEEILR	Q6Y7W6 PERQ2 762_770
3646	RRNVWKQEL	Q8N1A6 CD033 93_101
3647	RVARYFEYK	Q96M11 HYLS1 212_220
3648	RRQLLRENF	P18858 DNLI1 678_686
3649	RRRLQIEDF	Q9P0J0 NDUAD 57_65
3650	KRYGYRLDY	O95478 NSA2 12_20
3651	ERIRVYMNR	Q13901 C1D 88_96
3652	MRRQKQINY	Q14493 SLBP 136_144
3653	ARLRREYLY	Q96G21 IMP4 6_14
3654	KRQQLHWNM	Q149N8 SHPRH 17_25
3655	RRWLKDQEL	O95139 NDUB6 20_28
3656	RREQLEKYM	Q15036 SNX17 75_83
3657	RRSQQRFQF	Q16513 PKN2 644_652
3658	RRWDDSQKY	Q16543 CDC37 166_174
3659	HRFKTYQQF	Q96SB8 SMC6 925_933
3660	RRMKEQYLM	Q14789 GOGB1 2964_2972
3661	KRFLWQHQL	Q6P9B9 INT5 494_502
3662	RRFFNKEFL	P47712 PA24A 736_744
3663	RMNKRQLYY	P67812 SC11A 12_20
3664	RRQQQQQLRY	Q9NWH9 SLTM 710_718
3665	RRQQEQLRY	Q14151 SAFB2 713_721
3666	RRSQYYMKY	Q53F19 CQ085 275_283
3667	RPYQYLRRF	Q63HN8 RН213 2166_2174
3668	YRWQDEHKF	Q96BX8 MOB3A 99_107
3669	RRYRQQTYF	Q8IZT6 ASPM 2201_2209
3670	SSLLEKGLD	P81605 DCD 63_71
3671	RPHLSGRKL	Q96RR4 KKCC2 91_99
3672	GRIPKKFAR	Q7L590 MCM10 437_445
3673	ARLGRLVHR	P62424 RL7A 188_196
3674	GRLSIHRIK	Q06210 GFPT1 305_313
3675	KINKKRIAL	P18124 RL7 161_169
3676	GRLTKHTKF	Q9Y3U8 RL36 31_39
3677	ARHGFLPRH	P02686 MBP 158_166

3678	RRHWGGNVL	P62424 RL7A 234_242
3679	RPREKKLGL	O60762 DPM1 90_98
3680	RRKEGIVKL	P43378 PTN9 72_80
3681	RRLPHVVSH	Q9Y4A5 TRRAP 2920_2928
3682	HRKKLQLAL	Q86W92 LIPB1 697_705
3683	KRFSLFGKK	Q01082 SPTB2 2355_2363
3684	HRALKVMKM	Q99442 SEC62 92_100
3685	HPRTRVVHL	Q14690 RRP5 335_343
3686	RLSDVLKRK	Q14669 TRIPC 995_1003
3687	KRFEHSAKL	Q9UPT9 UBP22 410_418
3688	KRKALKLNF	P45985 MP2K4 40_48
3689	RRFVTKKAL	P82914 RT15 201_209
3690	HRIDLTKI	O15519 CFLAR 160_168
3691	RRFSSREGM	Q8TEB1 DCA11 385_393
3692	RRRSSVAFF	O15297 PPM1D 93_101
3693	RTIARLRLK	Q6DKI1 RL7L 105_113
3694	KRIPFGFKH	P24928 RPB1 796_804
3695	SRLKIHFHK	Q92968 PEX13 169_177
3696	RRRWGLSSL	Q9H992 MARTH7 352_360
3697	KLDRHVLIH	Q6IQ21 ZN770 174_182
3698	MRHKLKTAF	Q9Y5B9 SP16H 772_780
3699	KRKAYEPKL	Q6KC79 NIPBL 1180_1188
3700	KRFSRKTVL	Q99986 VRK1 147_155
3701	RRIESPLKH	P78406 RAE1L 205_213
3702	KFKFPGRQK	P27635 RL10 156_164; Q96L21 RL10L 156_164
3703	KRLDRLISH	P37287 PIGA 411_419
3704	SRFIKAYKK	O95466 FMNL 991_999
3705	KRTVKNFLH	Q7Z3K3 POGZ 1269_1277
3706	KRLKVTELK	Q1KMD3 HNRL2 4_12
3707	RRDRINNSL	Q9UBP5 HEY2 60_68; Q9Y5J3 HEY1 61_69
3708	RPDKKKILF	P29084 T2EB 194_202
3709	KRYGKILMH	Q9H270 VPS11 546_554
3710	ARKKRNFIL	Q00839 HNRPU 571_579
3711	RRLDKMVTK	Q15560 TCEA2 13_21
3712	KRLGYVVRR	Q7Z6J9 SEN54 162_170
3713	RRKSLVLKF	P21675 TAF1 1337_1345; Q8IZX4 TAF1L 1356_1364
3714	LRHKLNLRV	Q86XP3 DDX42 235_243
3715	KRGKGNSEF	Q99567 NUP88 138_146
3716	RRSLLELHK	P53350 PLK1 135_143
3717	KRFQAFVKK	Q12802 AKP13 2119_2127
3718	KRNRLKLLL	P53675 CLH2 851_859; Q00610 CLH1 851_859
3719	KRIEVVVVR	O15226 NKRF 276_284
3720	RRSVKHILF	P35236 PTN7 244_252
3721	RTYKSPLRH	Q6ICC9 LDOCL 175_183
3722	SRIEKQLKR	P33992 MCM5 673_681
3723	KRKLFIHSM	Q5EG05 CAR16 9_17
3724	RRLISPYKK	O14929 HAT1 357_365

3725	ARYKRKLLI	Q14493 SLBP 93_101
3726	RRRFETANL	Q9NTZ6 RBM12 87_95
3727	SRMIRKMKL	Q07020 RL18 64_72
3728	KRYDAILKR	Q5T0U0 CC122 228_236
3729	KRINVRIEH	P46778 RL21 87_95
3730	RRFSRSDEL	P11161 EGR2 349_357; P18146 EGR1 347_355; Q06889 EGR3 284_292
3731	RLFHLHSQK	O60449 LY75 74_82
3732	RRWGPNVQR	Q92833 JARD2 619_627
3733	RRAQKLHFL	Q8TDD1 DDX54 834_842
3734	SRLRLKREL	P12755 SKI 633_641
3735	KTLKWLEKK	Q5TBB1 RNH2B 162_170
3736	KRFSLKHM	Q9Y2Y4 ZBT32 380_388
3737	KRFSFKKSF	P29966 MARCS 156_164
3738	ARYPKKIHY	Q9Y6J0 CABIN 1242_1250
3739	KTNFRLLKR	Q9NRW3 ABC3C 175_183
3740	KRYHIAKVY	P12081 SYHC 148_156
3741	KLRDDFEKK	Q9Y2W1 TR150 413_421
3742	RRLLGKYKF	Q8IX04 UEVLD 9_17
3743	KIFKNFKEK	P35606 COPB2 413_421
3744	RPRREEVKL	Q14739 LBR 169_177
3745	RMISKQFH	B5ME19 EIFCL 709_717; Q99613 EIF3C 708_716
3746	KRYSDFKKL	Q96S38 KS6C1 52_60
3747	KRYKSIVKY	P14324 FPPS 257_265
3748	KRLREELLK	O00443 P3C2A 1040_1048
3749	RRFPDLNRL	P43246 MSH2 382_390
3750	RQKKISWLK	Q96SB8 SMC6 406_414
3751	KRLKNNIRF	Q7Z3K3 POGZ 501_509
3752	ERIRFVIKK	P78347 GTF2I 427_435
3753	RRKDLVLKY	Q6XZF7 DNMBP 969_977; Q9NXL2 ARH38 287_295
3754	RRLQHLLEK	Q9NRZ9 HELLS 66_74
3755	IRNLHHYKL	Q9BQ04 RBM4B 52_60; Q9BWF3 RBM4 52_60
3756	ARYIFKRLK	Q6P1A2 MBOA5 346_354
3757	RRKQFHVLL	Q6I9Y2 THOC7 163_171
3758	RRQIIKLN	Q9GZY8 MFF 297_305
3759	RTIDKKFYK	Q2M389 WASH7 330_338
3760	KLREELREK	Q96EK4 THA11 291_299
3761	RQMERILKK	Q9Y421 FA32A 72_80
3762	RIYKPLRTR	Q14137 BOP1 158_166
3763	ARFFKLHER	Q9ULV4 COR1C 333_341
3764	VRKKIEFER	Q8IXW5 RPAP2 48_56
3765	KRFEKVYTH	Q96EK5 KBP 201_209
3766	ARFYKLHER	P31146 COR1A 335_343; Q6QE8 CORO6 334_342; Q9BR76 COR1B 335_343
3767	VIYRIRVRR	P61313 RL15 60_68
3768	KMYEEHLKR	P84090 ERH 34_42
3769	RRYVRKFVL	O43633 CHM2A 70_78
3770	KRQKEIWHL	O15111 IKKA 645_653
3771	RRKLYVLKY	Q92902 HPS1 106_114

3772	RRLDFDYKK	Q99961 SH3G1 164_172; Q99962 SH3G2 164_172
3773	RLEDMFRRK	Q8NHQ9 DDX55 144_152
3774	KRFQQFIRK	Q92974 ARHG2 360_368
3775	YRLDYHEKK	O95478 NSA2 16_24
3776	KRFEKRLMF	Q9NYY8 FAKD2 200_208
3777	ERIEKLWKR	Q8WYP5 ELYS 734_742
3778	RSDRREDYY	Q93009 UBP7 340_348
3779	ERLEKFFHR	P86790 CCZ1B 166_174; P86791 CCZ1 166_174
3780	GPNGGIVTSL	Q9HCN4 GPN1 86_95
3781	SPAAPSPLAL	Q9P270 SLAI2 462_471
3782	SPSSVTGNAL	Q9NYB0 TE2IP 154_163
3783	APAQTPAPAL	O00303 EIF3F 68_77
3784	SPSPPPGTSL	Q6WKZ4 RFIP1 1082_1091
3785	SPMPGTLTAL	O60671 RAD1 99_108
3786	VPLGGQQVPL	P80217 IN35 200_209
3787	SPLPVGQNSL	Q6IQ32 ADNP2 336_345
3788	APAPPPEEVL	Q8IVF7 FMNL3 507_516
3789	APAQPPSQT	P51825 AFF1 265_274
3790	AVDPTSGQLY	Q8TEM1 PO210 1259_1268
3791	SSDPASQLSY	Q08050 FOXM1 581_590
3792	QPSPVSNQSL	Q6FIF0 ZFAN6 86_95
3793	GVDLTGPQLY	P40306 PSB10 141_150
3794	ITESSGFLAY	Q15782 CH3L2 295_304
3795	LSDISVVSNY	Q8TCB0 IFI44 383_392
3796	VIDSAELQAY	P78527 PRKDC 3433_3442
3797	LTDPIQGTEY	Q9UDY8 MALT1 560_569
3798	PTEISQSLLY	Q92508 PIEZ1 898_907
3799	RRKDGVLFLYF	P62829 RL23 89_98
3800	ISAGAVLGKV	P18577 RHCE 125_134
3801	APSGGRLLSA	Q9NRG9 AAAS 253_262
3802	APRGTGIVSA	P15880 RS2 198_207
3803	APAEKVGGVL	Q9NPG3 UBN1 701_710
3804	SIGSPVGTPK	Q8N3J3 CQ053 348_357
3805	ATVAVPLVVGK	Q9BUN8 DERL1 21_30
3806	APAGGSPRML	Q7L0R7 RNF44 74_83
3807	VPKSASVSAL	O60307 MAST3 893_902
3808	APIIRVGGAL	O60566 BUB1B 240_249
3809	GPRTAALGLL	Q14257 RCN2 4_13
3810	APAPSKGQTL	Q6ZRI6 CO039 177_186
3811	GIYPPGSPGK	O95295 SNAPN 127_136
3812	VPAASKISM	Q9BSJ2 GCP2 122_131
3813	VLIGDGAGFK	P11310 ACADM 262_271
3814	APKIAASSSF	Q99961 SH3G1 280_289
3815	SPAPPSSHSL	Q9P219 DAPLE 1847_1856
3816	APAPAEKTPV	P10412 H14 11_20
3817	SPNSAHAVSL	O14511 NRG2 622_631
3818	APGPPGRSML	Q8IY67 RAVR1 298_307

3819	KPAASPLTSL	Q92615 LAR4B 394_403
3820	APAKNIATSL	O00213 APBB1 486_495
3821	TPSKPSGLSL	Q96NB3 ZN830 146_155
3822	APRSVAVSSI	Q6UWB1 I27RA 322_331
3823	APSMDRAAVA	Q9H0P0 5NT3A 3_12
3824	RPAPLPAAVV	Q6ZRI6 CO039 658_667
3825	ATGDMMSGLLK	Q13685 AAMP 150_159
3826	APSSPRPALP	P05362 ICAM1 2_11
3827	APPLRPSAAL	Q14155 ARHG7 658_667; Q15052 ARHG6 597_606
3828	APAPTVRLGL	P55199 ELL 418_427
3829	ATQAVAVSVPK	Q04637 IF4G1 504_513
3830	LTDPDGALAK	Q13561 DCTN2 166_175
3831	LLYGGPGTGK	O43933 PEX1 878_887; P40937 RFC5 57_66; P55072 TERA 242_251; P62195 PRS8 187_196; P62333 PRS10 171_180; Q5T2N8 ATD3C 174_183; Q5T9A4 ATD3B 349_358; Q8IYT4 KATL2 291_300; Q8NB90 SPATS 391_400
3832	APHEPDGVAL	O14576 DC1I1 313_322; Q13409 DC1I2 305_314
3833	AVFGVIGSQK	Q9UNX4 WDR3 14_23
3834	GLYAGDPVSK	Q9UJJ7 RUSD1 154_163
3835	VLSTSTGLTK	Q5T8P6 RBM26 687_696
3836	RPAAPGQTPL	Q12796 PNRC1 168_177
3837	AVISPPTVPK	Q9H9Y6 RPA2 80_89
3838	KPVLDAGPVL	P28908 TNR8 379_388
3839	MPPSGPGRGTL	Q02818 NUCB1 1_10
3840	LPRGSSPSVL	Q9GZN2 TGIF2 105_114
3841	IVPDIAVGTK	P26599 PTBP1 4_13
3842	APRTVALTAL	P04440 DPB1 9_18
3843	SPLPSRTGSL	Q8IWY9 CDAN1 277_286
3844	APSAARELSL	Q9H668 STN1 100_109
3845	APINKAGSFL	P51451 BLK 140_149
3846	VPRTVSSTTA	Q15398 DLGP5 216_225
3847	APPRGPLPTL	O43734 CIKS 560_569
3848	SPHPPSEVTA	Q9H000 MKNR2 80_89
3849	SPNGRIATPL	Q9H6V9 CB043 173_182
3850	VTSGDPPLLK	Q96T49 PP16B 539_548
3851	LPRETVAGAL	O95400 CD2B2 166_175
3852	SPRDSPAVAL	Q14687 GSE1 909_918
3853	KPMEEAASAIL	Q9BVP2 GNL3 332_341
3854	VPRPPSNPPA	O43734 CIKS 387_396
3855	TPAPSRTASF	P53396 ACLY 447_456
3856	LVDTGIGMTK	P08238 HS90B 86_95; Q58FF7 H90B3 86_95; Q58FF8 H90B2 86_95
3857	SPRPALPALL	P05362 ICAM1 5_14
3858	FLDASGAKLD	Q7L1Q6 BZW1 53_62
3859	APEVSPRPAL	Q96L73 NSD1 1378_1387
3860	TPNPVGRLAL	Q15058 KIF14 81_90
3861	APARPLSTNL	Q6UB99 ANR11 1778_1787
3862	TPMDSTGVPH	Q5JRX3 PREP 95_104
3863	YPATVHGALL	O60341 KDM1A 807_816

3864	GMYDSSLAAK	O15254 ACOX3 111_120
3865	SPRISPATTI	Q8IVW6 ARI3B 377_386
3866	SPIKVTLATL	P06748 NPM 70_79
3867	SPSPGIRSIM	Q0P6H9 TMM62 238_247
3868	SVASTPISQR	Q9BXS6 NUSAP 240_249
3869	TPTSAPRSVM	Q9NQS7 INCE 507_516
3870	APRVPVQALP	O75179 ANR17 744_753
3871	LPPAQVHSSL	Q86YV0 RASL3 752_761
3872	SPMNKSPSAM	O60343 TBCD4 782_791
3873	LSDPSGPKSY	Q96S38 KS6C1 752_761
3874	APIGPHLQSM	Q14152 EIF3A 505_514
3875	IPSSVIHPAM	Q9UI10 EI2BD 198_207
3876	VPRGSTLPLL	O75460 ERN1 307_316
3877	QPKGPDPDSL	Q96II8 LRCH3 392_401
3878	APKQELPSAL	P17028 ZNF24 201_210
3879	SVSPLLEPTK	Q9UMZ2 SYNRG 578_587
3880	VPRSASVLLL	Q9Y3Q3 TMED3 5_14
3881	APREALAQTV	Q99829 CPNE1 492_501
3882	LPRAVGTQTL	Q13596 SNX1 270_279
3883	APAQARPTVF	Q9Y478 AAKB1 73_82
3884	MILTNPVAAK	Q9UGI8 TES 92_101
3885	SPMGTRSTLL	P09958 FURIN 507_516
3886	APKSMQSAIM	Q8N697 S15A4 480_489
3887	SPRTPPPLTV	Q8TDY2 RBCC1 667_676
3888	STDPSVLGKY	Q14469 HES1 101_110
3889	LPSPSPRISL	Q8TBC3 SHKB1 620_629
3890	VPRPPDTVST	Q96PZ0 PUS7 58_67
3891	SPQLGRAVQL	Q8N2A8 PLD6 103_112
3892	APIQGSRNLL	Q16665 HIF1A 804_813
3893	TPAAVRELVL	Q92688 AN32B 15_24
3894	APIDRVGQTI	P52272 HNRPM 499_508
3895	KPAPPFNVTV	Q9HBE5 IL21R 119_128
3896	LINPSMIGPK	Q9HBM6 TAF9B 208_217
3897	SPAPTHNSLF	P49327 FAS 2326_2335
3898	LPSATRALEL	P18583 SON 575_584
3899	APRTVSVQTL	Q92750 TAF4B 387_396
3900	ALIQQATTVK	P32969 RL9 159_168
3901	SPDSQVKEAL	O60287 NPA1P 1497_1506
3902	STLDIVLANK	P23921 RIR1 119_128
3903	SPYNVSKTAL	P0CG22 DR4L1 183_192; Q6PKH6 DR4L2 178_187; Q9BTZ2 DHRS4 180_189
3904	IPRPVDGVEV	P26368 U2AF2 417_426
3905	EPMGPLKTPL	O75326 SEM7A 392_401
3906	LPRAVNTQAL	O60749 SNX2 267_276
3907	VPRQPTVTSV	Q96HC4 PDLI5 203_212
3908	SPMPPSEVKL	Q9BWG6 SCNM1 144_153
3909	SPNQSLRLGL	Q96B01 R51A1 327_336
3910	SPNGTIRNIL	O75874 IDHC 94_103; P48735 IDHP 134_143

3911	NPSALRETVV	P55072 TERA 460_469
3912	MPSASRVILL	Q14999 CUL7 926_935; Q8IWT3 CUL9 1255_1264
3913	LVFPSEIVGK	P62081 RS7 133_142
3914	ITDSAGHILY	P49755 TMEDA 76_85
3915	SPTSVRQMAL	Q96NB2 SFXN2 139_148
3916	TTVFSHAQTV	P42677 RS27 44_53; Q71UM5 RS27L 44_53
3917	QMQLVDTKAG	Q9NRR3 C42S2 75_84
3918	GPRSPSVIFM	Q86VZ1 P2RY8 53_62
3919	VLSSFVLAEK	P49327 FAS 2105_2114
3920	APSDNRVTSF	Q9UNZ2 NSF1C 66_75
3921	PSLSHNLLVD	Q9ULA0 DNPEP 466_475
3922	AAMLDTVVFK	O00487 PSDE 301_310
3923	IPRPEGNAQL	A1A4S6 RHG10 382_391
3924	ATLPNQPVEK	Q9NVI1 FANCI 1123_1132
3925	APSQQRLVVV	Q9H6Q4 NARFL 105_114
3926	VPNATIRNVL	A4QPH2 PI4P2 108_117; P42356 PI4KA 1307_1316; Q8N8J0 PI4P1 108_117
3927	STGVFTTMEK	P04406 G3P 98_107
3928	RPMTPPPTSL	Q6ICC9 LDOCL 92_101
3929	APPFVARETL	Q9Y2S7 PDIP2 208_217
3930	SILPYPVSPK	Q8IWI9 MGAP 917_926
3931	IIFVGTPVQK	P46013 KI67 1310_1319
3932	SPSINRQTSI	Q9UJ41 RABX5 302_311
3933	IPAKPPVSFF	Q6PKC3 TXD11 92_101
3934	VIMNPPFGTK	Q9NRN9 MELT5 123_132
3935	APREPPPVEL	Q13105 ZBT17 188_197
3936	ASEFPGAQHY	Q9BRR6 ADPGK 146_155
3937	SSDNATLTHY	Q5VWN6 F208B 1661_1670
3938	APRPFPEVSL	Q96KV7 WDR90 287_296
3939	NPRNTEAVTL	Q9UKF6 CPSF3 447_456
3940	LVDPASHTLY	O95754 SEM4F 69_78
3941	IPTNTMHYGS	Q86X55 CARM1 599_608
3942	TPRPVIVEPL	P23246 SFPQ 441_450
3943	APIQGNREEL	Q13435 SF3B2 41_50
3944	QPRPQSTSLL	Q96EP0 RNF31 276_285
3945	APKEQNLITL	Q3B7T1 EDRF1 281_290
3946	APHPVYYPAL	O00329 PK3CD 479_488
3947	VLLFPLLSSR	Q9Y3T6 R3HC1 78_87
3948	KVCNPIITKL	P11142 HSP7C 601_610
3949	AIQNPTMINK	Q02086 SP2 113_122
3950	LPRSINTDTL	Q8NHV4 NEDD1 374_383
3951	KVFDGIPPPY	P40429 RL13A 103_112; Q6NVV1 R13P3 17_26
3952	QVDPLSALKY	Q9UL63 MKLN1 649_658
3953	VLDISSLNSHY	Q9NYK1 TLR7 570_579
3954	TTDSSYQNY	Q92804 RBP56 41_50
3955	ATAYLPMLEK	O14503 BHE40 332_341
3956	LTDITKGVQY	P13639 EF2 662_671
3957	VPRTLENPVL	Q9Y5S1 TRPV2 730_739

3958	AIYATIPVYK	Q9P2I0 CPSF2 83_92
3959	IPRENAQISL	Q9Y275 TN13B 263_272
3960	QPDQTRIVAL	P22087 FBRL 239_248
3961	SVLEPPLFLK	Q5GLZ8 HERC4 549_558
3962	ILFDGIPLEK	P22033 MUTA 172_181
3963	ATEQAPLWAY	Q9Y6K0 CEPT1 110_119
3964	NLDQATRVAY	Q9NTJ3 SMC4 720_729
3965	SPYPTKTQTM	P04843 RPN1 164_173
3966	TLDPQTGLFY	Q7Z589 EMSY 930_939
3967	VTYVPVTTFK	P62899 RL31 106_115
3968	APNPYRQAIM	Q7RTS9 DYM 300_309
3969	VTEDGNQHVY	Q8WU10 PYRD1 98_107
3970	LLDPTQKALY	Q96N20 ZN75A 10_19
3971	LLDTAQRALY	O75467 Z324A 17_26; Q6AW86 Z324B 17_26
3972	NPPQQQRAL	Q9BSI4 TINF2 218_227
3973	YVDEEGNLVK	Q3KQV9 UAP1L 363_372
3974	VLDQGKITEY	Q9NRK6 ABCBA 703_712
3975	ATDMPVKNQY	Q96CN4 EVI5L 131_140
3976	STYISILNQK	Q8TDJ6 DMXL2 1766_1775
3977	FPRPVTVEPM	Q15233 NONO 218_227
3978	NTDHLLTVLY	Q96EF9 ZHX1R 93_102; Q96K31 CH076 125_134
3979	LLDTPVKTQY	Q6N021 TET2 1119_1128
3980	QLDSAQKNLY	Q2M3X9 ZN674 24_33; Q5JUW0 KRBX4 24_33
3981	LLDSSQKNLY	Q96BR6 ZN669 106_115
3982	VVQLQDPREP	P31785 IL2RG 129_138
3983	QPRPVSQQEL	Q96K80 ZC3HA 322_331
3984	IPRDPSQQEL	P49327 FAS 1169_1178
3985	YIYDGELVSK	Q9Y2D2 S35A3 224_233
3986	IMDSGEELFY	Q9UKD1 GMEB2 156_165
3987	LLDPAQRTLY	Q8N988 ZN557 52_61; Q96NG5 ZN558 59_68
3988	LLDPSQKNLY	C9JN71 ZN878 20_29; P17024 ZNF20 23_32; P51523 ZNF84 24_33; P52737 ZN136 20_29; Q08AG5 ZN844 20_29; Q15973 ZN124 29_38; Q7L945 ZN627 20_29; Q9BS34 ZN670 20_29  Q00610 CLH1 421_430
3989	LLDQGQLNKY	P32929 CGL 192_201
3990	SPYFQRPLAL	Q8TEK3 DOT1L 119_128
3991	VTDPPEKLNNY	P55209 NP1L1 107_116
3992	AVLYQPLFDK	Q8N3U4 STAG2 319_328; Q8WVM7 STAG1 322_331
3993	YSDAFLNDSY	Q92917 GPKOW 450_459
3994	LPRENQVVEL	P62277 RS13 29_38
3995	TSDDVKEQIY	P49588 SYAC 480_489
3996	KTDDLTMVLY	Q96RL7 VP13A 1399_1408
3997	VTDDSPKYNY	P42345 MTOR 664_673
3998	ITDPDPDIRY	Q14444 CAPR1 552_561
3999	QPHQVEQTEL	O43432 IF4G3 1503_1512
4000	DTEKELQALY	Q15782 CH3L2 80_89
4001	MLYQTINSLK	Q14152 EIF3A 514_523
4002	MPSEQIRNQL	

4003	LLDDAQRLLY	Q6PK81 ZN773 31_40; Q8TAW3 ZN671 65_74; Q96HQ0 ZN419 43_52
4004	QLDLAQRTLY	O43296 ZN264 30_39; Q5CZA5 ZN805 29_38; Q6NX49 ZN544 30_39; Q7Z398 ZN550 28_37
4005	LSEINKPNFY	Q5QJE6 TDIF2 252_261
4006	QPREPQVYTL	P01857 IGHG1 225_234; P01859 IGHG2 221_230; P01860 IGHG3 272_281; P01861 IGHG4 222_231
4007	NTDHQTQLLY	Q06609 RAD51 196_205
4008	VIENPEMLKY	P54198 HIRA 395_404
4009	ETEEDKFLLL	Q9NY93 DDX56 239_248
4010	LTEDKETLQY	Q9BSJ2 GCP2 88_97
4011	FVDPYPVNKY	Q96M94 KLH15 408_417
4012	YSEPQPSMFY	Q13905 RPGF1 561_570
4013	LTDIFQHDTY	Q96BQ5 CC127 209_218
4014	QTDADFYQQY	Q13105 ZBT17 748_757
4015	VTEEPQRLFY	Q96LC9 BMF 88_97
4016	TPRGGVGIAT	Q9P2G9 KLHL8 542_551
4017	APRNNGSGVAL	Q7L9B9 EEPD1 549_558
4018	LPRGGSGSVL	Q9NZ09 UBAP1 200_209
4019	GRVGATAAVY	P0C0S5 H2AZ 45_54; Q71UI9 H2AV 45_54
4020	SPRGSPDGSL	Q8IZL8 PELP1 477_486
4021	VVSSSLGPAR	Q9BQN1 FA83C 376_385
4022	RPNGVSAVAL	Q9NZ63 CI078 43_52
4023	TPSGSREGSL	Q6P3S6 FBX42 419_428
4024	APRAASTESL	O43292 GPAA1 135_144
4025	SRLPSLGAGF	Q8IZL8 PELP1 241_250
4026	HPFPGPGLAI	P49915 GUAA 436_445
4027	HPQPGSANSI	Q8IYI0 CT196 108_117
4028	RPPPSPSGTI	Q9Y2G0 EFR3B 783_792
4029	RPQAPATVGL	Q15370 ELOB 68_77
4030	SPHSGVQTSL	Q6PGQ7 BORA 215_224
4031	SPDTAIRSGL	Q29RF7 PDS5A 651_660
4032	IPRGVNVSAL	P38606 VATA 118_127
4033	SPDGLGRLNV	O95365 ZBT7A 549_558
4034	VPRAESGDSL	Q9NQW6 ANLN 653_662
4035	SPRSVGPFAL	Q96Q05 TPPC9 1051_1060
4036	QPSADRASSL	Q53GL0 PKHO1 231_240
4037	GRVALADIAF	Q9Y2X0 MED16 211_220
4038	SPDGNRNFATA	O75083 WDR1 198_207
4039	VPRGSTTATF	P11413 G6PD 328_337
4040	EPRDGPPSAL	Q86YV0 RASL3 217_226
4041	RPNSPSPTAL	Q9UKI8 TLK1 185_194
4042	TLLGKPLLGK	Q7Z2W9 RM21 142_151
4043	LLAEKVLAGK	P63092 GNAS2 296_305; Q5JWF2 GNAS1 939_948
4044	RPSGSWNGAL	Q02487 DSC2 5_14
4045	APRGTWSTGL	O60828 PQBP1 212_221
4046	NRFAGFGIGL	Q96AG3 S2546 98_107
4047	RPYPSPGAVL	O60828 PQBP1 243_252
4048	RPAEVGGMQL	P33316 DUT 105_114

4049	ARVTGVPLSY	P28340 DPOD1 536_545
4050	GPRNAQIQAL	Q96GC6 ZN274 122_131
4051	YSDHPSGGSY	P38159 RBMX 272_281; Q96E39 RMXL1 272_281
4052	GLLEKIATPK	Q9Y2Q3 GSTK1 154_163
4053	ALVSTPVRTK	O75376 NCOR1 2087_2096
4054	TPFGGRLLVL	Q4VC44 FWCH1 119_128
4055	IVRGQTAESL	P04839 CY24B 227_236
4056	SRMLSGGFGY	Q15773 MLF2 28_37
4057	SLDVGGPLRY	Q9NR77 PXMP2 66_75
4058	MPRGMQGTSL	Q6UX01 LMBRL 331_340
4059	YSDRSSGGSY	Q14011 CIRBP 151_160
4060	VTDKNPAGDY	O15040 TCPR2 1339_1348
4061	RPANPLGIEI	Q96KP1 EXOC2 130_139
4062	LSDIGSGIRY	O15111 IKKA 125_134
4063	GRVLFPATGY	P49327 FAS 882_891
4064	KVNIIPVIGK	Q8WYJ6 SEPT1 162_171
4065	KVNIVPVIAK	Q15019 SEPT2 174_183
4066	AVNISGLVFY	Q9Y2C5 S17A4 468_477
4067	RPSLNIATVL	Q9NPD8 UBE2T 99_108
4068	SRGPGTSFEF	Q99497 PARK7 155_164
4069	GAVCSDFFNK	Q75QN2 INT8 860_869
4070	HPIEGSTTVF	P49327 FAS 2248_2257
4071	RPNSSALETI	O94804 STK10 451_460
4072	YAAMFGPKGF	P50238 CRIP1 57_66
4073	IPRGTIGDMM	Q9H467 CUED2 71_80
4074	ESEPGRGAQY	Q5T653 RM02 197_206
4075	KPSESIYSAL	Q6SJ93 F111B 102_111
4076	AARPVPWNAL	Q05923 DUS2 45_54
4077	GPRPITQSEL	Q96S82 UBL7 263_272
4078	WPKDVGIVAL	Q01581 HMCS1 13_22
4079	RPSQNNТИГ	Q9H0H0 INT2 903_912
4080	LPPLPKRPAL	Q9NR56 MBNL1 294_303
4081	GTDGGGRYDVY	Q9Y6Y8 S23IP 313_322
4082	APYRDLPLASL	P54259 ATN1 1121_1130
4083	FAHQGNPAVY	Q9Y6Q9 NCOA3 1381_1390
4084	LDTNADKQLS	P06702 S10A9 66_75
4085	ISLKQAPLVH	P09496 CLCA 239_248
4086	KVNIIPLIAK	Q16181 SEPT7 186_195; Q6ZU15 SEP14 186_195
4087	RPQEVPAAEL	Q9Y2I1 NISCH 1042_1051
4088	RPNALAVQQL	Q14671 PUM1 390_399
4089	ATGSWDSFLK	P16520 GBB3 328_337; P62873 GBB1 328_337; P62879 GBB2 328_337
4090	NPNQNKNVAL	Q15717 ELAV1 186_195
4091	RPADSMLNVL	Q9BTL4 IER2 207_216
4092	TTDGLGKVYY	P14543 NID1 113_122
4093	RVDPIGPLSY	Q8TDJ6 DMXL2 729_738
4094	APFQGDQRSL	Q00978 IRF9 199_208
4095	QPYGTRNAVL	Q969V3 NCLN 59_68

4096	KLPPLPVVEK	Q9NUL3 STAU2 274_283
4097	SVDPHGFISY	Q3ZCQ8 TIM50 207_216
4098	FLDALDHAGY	O95786 DDX58 73_82
4099	SPGQHYFSSL	O14492 SH2B2 541_550
4100	RPFPGNMSSM	Q8NFD5 ARI1B 894_903
4101	LSDSGVTQRY	Q9NPF4 OSGEP 315_324
4102	QSDMGREAAAY	Q9NX00 TM160 91_100
4103	ALRDNSTMGY	P07900 HS90A 618_627; P08238 HS90B 610_619; Q58FF7 H90B3 483_492
4104	SPRENILVSL	O00767 ACOD 281_290
4105	RPMYGAUTSF	Q9UKT5 FBX4 158_167
4106	SPRTLNLSQL	P29597 TYK2 570_579
4107	GRFAPQFSGY	Q13107 UBP4 380_389; Q9Y4E8 UBP15 367_376
4108	SPQSGNFRQL	Q9H074 PAIP1 232_241
4109	SPSWRSTTVL	O00159 MYO1C 408_417
4110	QTALPGNDRY	Q9UHP3 UBP25 71_80
4111	GRVLLQNTSF	Q9UI26 IPO11 796_805
4112	QIFVKTLTGK	P0CG47 UBB 2_11; P0CG48 UBC 2_11; P62979 RS27A 2_11; P62987 RL40 2_11
4113	GRLQVDSAEG	P10588 NR2F6 293_302
4114	KQFDAVLPGY	O14686 KMT2D 4858_4867
4115	GTDDGRLLEY	Q9HDC9 APMAP 233_242
4116	DSDRGLQEGL	Q9C0C9 UBE2O 1085_1094
4117	NPRDLPLMAL	P04818 TYSY 183_192
4118	ISHDTFGTTY	Q9H7B2 RPF2 254_263
4119	KPFGYGYPTL	O95487 SC24B 457_466
4120	GRFFSEENSSL	Q6PK81 ZN773 393_402
4121	GQFSGFPFEK	P35659 DEK 128_137
4122	NVEWAKPSTN	O75821 EIF3G 311_320
4123	TSERGSFSLY	Q99081 HTF4 111_120
4124	SPRQALTDFL	Q8WTW3 COG1 222_231
4125	AVQKAIPMYK	P36543 VATE1 147_156
4126	SPRMPVGDFF	Q9UIF9 BAZ2A 613_622
4127	RTEEGPTLSY	P43243 MAGR3 149_158
4128	ARFSPDGQYL	Q2TAY7 SMU1 220_229
4129	QPRDPPTETL	Q9UIM3 FKBPL 38_47
4130	QPRGNVDEEL	P41236 IPP2 31_40
4131	ETDRGMSAEY	Q9Y512 SAM50 206_215
4132	YSDLVQKGY	P52701 MSH6 469_478
4133	GRFGQDFSTF	Q9Y490 TLN1 1272_1281
4134	AVFPKPFVEK	Q6PFW1 VIP1 189_198
4135	LPRPWSVPPL	Q9BYK8 HELZ2 503_512
4136	SPDFTLRNTL	Q9Y2M0 FAN1 266_275
4137	HSDVTEAMLY	Q13310 PABP4 19_28
4138	VTDHGVVYY	Q9NXW2 DJB12 287_296
4139	KVLEIPLEPK	Q13469 NFAC2 497_506
4140	RSDPNSESLY	Q93073 SBP2L 379_388
4141	YSEDHIIGAY	Q8TCB0 IFI44 55_64
4142	LHLGYLPNQL	Q92499 DDX1 727_736

4143	KFSPNTSQFL	O43684 BUB3 21_30
4144	YTDPAGLRNY	Q12770 SCAP 533_542
4145	VSEEDVSSRY	Q96IZ0 PAWR 232_241
4146	GRYGEVMPVY	Q6PL24 TMED8 271_280
4147	LPRGMQPTEF	P28062 PSB8 44_53
4148	RSYGGSYPEY	Q8NFD5 ARI1B 431_440
4149	AVDGQHLFEY	O00182 LEG9 320_329
4150	IPRSILMTTF	Q16531 DDB1 587_596
4151	STDPREALQY	Q8N1F7 NUP93 541_550
4152	YLDNVIGHSY	Q9UJA5 TRM6 53_62
4153	RPYSPSQYAL	Q14494 NF2L1 731_740
4154	SPANTRYLFL	P16298 PP2BB 116_125; Q08209 PP2BA 107_116
4155	TPYGGQFERM	Q9NR30 DDX21 296_305
4156	FLDANVKESY	Q92902 HPS1 352_361
4157	LPREATEQEI	Q9BQ04 RBM4B 9_18; Q9BWF3 RBM4 9_18
4158	TTSHLGMGMFY	P39748 FEN1 60_69
4159	TADHNLLLYE	Q12788 TBL3 311_320
4160	FRMDSSATQF	A2VDJ0 T131L 387_396
4161	ETDHINQIGY	Q9ULK4 MED23 799_808
4162	KTEVNSGFFY	P40227 TCPZ 241_250; Q92526 TCPW 241_250
4163	APRDAYWIAM	O75794 CD123 109_118
4164	ARYSGSYNDY	Q96PK6 RBM14 646_655
4165	ATDISRQNEY	Q13946 PDE7A 320_329
4166	SPSNTRYLFL	P48454 PP2BC 103_112
4167	ASEFGNHLY	Q15393 SF3B3 350_359
4168	YTDHQNSSY	P48436 SOX9 442_451
4169	YTDSEPRATY	Q9UM82 SPAT2 338_347
4170	NPRNFSDNQL	P37802 TAGL2 158_167
4171	YVRETNNQAL	Q6P9H5 GIMA6 176_185
4172	DSDINNRLVY	Q8TE02 ELP5 73_82
4173	DLDDAQRTLY	Q9BY31 ZN717 31_40
4174	TSDLQDKNEY	Q8NFB4 NUP37 108_117
4175	APSEYRYTLL	Q9BS26 ERP44 391_400
4176	TTESQELSRY	P42695 CNDD3 675_684
4177	ETDKNGFLQY	Q9NWW6 NRK1 46_55
4178	ASEAEMRLFY	Q8IY37 DHX37 105_114
4179	YSEGYPGQRY	P34896 GLYC 73_82
4180	ETDHILESLY	O75558 STX11 36_45
4181	LIDQDARDLY	P07355 ANXA2 190_199
4182	ELDHTVSMQY	P53671 LIMK2 621_630
4183	NLDRTDDLVY	Q14289 FAK2 872_881
4184	STDKAETYFY	Q06330 SUH 332_341
4185	ATEDPWKTNY	P10768 ESTD 109_118
4186	LTDGNKWLW	Q13200 PSMD2 391_400
4187	TTDELEKLLY	Q9NSI6 BRWD1 1141_1150
4188	YLDPAQRSLY	O75820 ZN189 30_39
4189	IRMGTQPIYF	Q5UE93 PI3R6 527_536

4190	ETSADNQHYY	Q9BZH6 WDR11 1019_1028
4191	FVNDSLRLSEF	Q9P013 CWC15 210_219
4192	FTDVNSILRY	P07814 SYEP 48_57
4193	APRNQTFTYM	P11161 EGR2 84_93
4194	RVYSPPEWIS	Q9P1W9 PIM2 201_210
4195	LLDEAQRLLY	Q3KQV3 ZN792 30_39; Q3SY52 ZIK1 43_52; Q68DY9 ZN772 43_52; Q9BWM5 ZN416 44_53
4196	SLDNSYKMDY	P42574 CASP3 32_41
4197	YPRQPYNAL	O14497 ARI1A 809_818
4198	FTDEEGYGRY	Q12874 SF3A3 130_139
4199	YTDFDGTRVY	P11309 PIM1 289_298; Q86V86 PIM3 201_210; Q9P1W9 PIM2 194_203
4200	FLDPAQRDLY	Q9HCL3 ZFP14 22_31
4201	KTYTGPVYYY	Q9UM82 SPAT2 112_121
4202	TSDELEDLRY	Q6ZMZ3 SYNE3 871_880
4203	NPRQINWTVL	P83731 RL24 45_54
4204	YRPETGSWVF	P52948 NUP98 866_875
4205	MMDPNSTQRY	Q9HAV4 XPO5 20_29
4206	VSERDVYLTY	Q9H4I3 TRABD 256_265
4207	SRADQFEYVM	P52434 RPAB3 83_92
4208	FLDESRSTQY	Q9Y230 RUVB2 433_442
4209	RPPYYTPNQL	Q13310 PABP4 419_428
4210	STDFTSRDYY	O43143 DHX15 677_686
4211	QRLGTQPYFF	O75431 MTX2 195_204
4212	YVDQAELEKY	Q01581 HMCS1 30_39
4213	QLDTRVSEFY	O95671 ASML 136_145
4214	YSEDLSDMHY	Q9HBG6 IF122 415_424
4215	GRTYPVQEYF	Q08211 DHX9 565_574
4216	NSEEMKEAYY	O14730 RIOK3 378_387
4217	TTEESLRNYY	P22626 ROA2 32_41
4218	YSFDNLPEKY	O00444 PLK4 673_682
4219	FSDNDKLYLY	P48382 RFX5 56_65
4220	DLEKEAPWEY	O15439 MRP4 1018_1027
4221	YADNQVMHFY	Q07864 DPOE1 1813_1822
4222	KTETEPVFWY	Q8TEQ0 SNX29 79_88
4223	LTEVDNYHFY	Q16236 NF2L2 220_229
4224	RLEIEPEWAY	Q00688 FKBP3 189_198
4225	LTDYFLKDEY	Q13107 UBP4 326_335
4226	QTDDTWRTEY	Q9UBW7 ZMYM2 873_882
4227	YTETEPYHNY	Q86VM9 ZCH18 392_401
4228	FMDPEMETRY	O60266 ADCY3 615_624
4229	ETDEKDFYLY	Q9GZR7 DDX24 571_580
4230	GRFGGNPGGF	Q13148 TADBP 274_283
4231	GVLGTVVHGK	Q9Y6C9 MTCH2 81_90
4232	GRVGPLVAGR	P07359 GP1BA 617_626
4233	ARIAGKVPGL	Q8WWM7 ATX2L 524_533
4234	APRAPRALAA	P53007 TXTP 3_12
4235	KPTGARPSAL	O15213 WDR46 596_605

4236	VPRGPKVGSL	Q08378 GOGA3 217_226
4237	IRIPGGGITK	Q969U7 PSMG2 179_188
4238	SPNPARGHSV	P01106 MYC 161_170
4239	ARFTGVGVSK	Q86UE8 TLK2 18_27
4240	SPRPRPAVAA	Q2M3G4 SHRM1 82_91
4241	ARAALTGLLH	P55084 ECHB 80_89
4242	IPSGSHKVSL	O14788 TNF11 175_184
4243	APKGPSRESV	Q96J88 ESIP1 47_56
4244	KPKGPTSAEL	Q8WWH5 TRUB1 76_85
4245	KLSDGVAVLK	P10809 CH60 396_405
4246	GRILSGVVTK	P62280 RS11 70_79
4247	GRFGPLASVK	O15042 SR140 295_304
4248	ARVPGPPARL	O75326 SEM7A 16_25
4249	GTKGPSNVFK	P42285 SK2L2 367_376
4250	RPGQSHAAVL	Q9NVM4 ANM7 604_613
4251	LPSAHRVSGL	P23258 TBG1 367_376; Q9NRH3 TBG2 367_376
4252	GTATYKVGLK	Q8IWV8 UBR2 1309_1318
4253	RPAALRGALL	O00584 RNT2 2_11
4254	APAALRGRL	Q5RKV6 EXOS6 88_97
4255	APAPTARNKL	P41218 MNDA 113_122
4256	GRALVPDSVK	Q9NPA8 ENY2 75_84
4257	ILRDGITAGK	O00478 BT3A3 99_108; O00481 BT3A1 99_108; P78410 BT3A2 99_108
4258	PRPASGPIRP	P26373 RL13 48_57
4259	KPQPHSGSVL	Q9H6W3 NO66 21_30
4260	VPRPAARVAL	P30042 ES1 38_47
4261	KLPGGSYMAK	Q30154 DRB5 5_14
4262	VPRSGKPAEL	P29401 TKT 592_601
4263	RPVGLTKAVL	O15534 PER1 774_783
4264	TPKRPGNSTV	Q7Z2Z1 TICRR 1291_1300
4265	RLAEAAVAEK	Q8N201 INT1 91_100
4266	VPIKGTRSSL	Q9H5V7 IKZF5 164_173
4267	RPAPPLRPSA	Q14155 ARHG7 656_665; Q15052 ARHG6 595_604
4268	SPDPHKGLVL	P57737 CORO7 775_784
4269	LLNGKVGSFK	O75995 SASH3 216_225
4270	APRIALHTAL	Q9UBD5 ORC3 594_603
4271	KPKGEATVSF	Q92804 RBP56 281_290
4272	RPASPPVVKL	Q9BX95 SGPP1 185_194
4273	TPSPARSTHL	Q96DF8 DGC14 419_428
4274	AVNAHSNILK	Q16891 IMMT 248_257
4275	APRKPANTLV	Q9Y6X9 MORC2 673_682
4276	IPRDNKAAAL	O95273 CCDB1 165_174
4277	RPPGARLT	Q9UKY7 CDV3 170_179
4278	APEARRSATL	Q9NQT8 KI13B 1785_1794
4279	SPRKDGLVSL	P51570 GALK1 66_75
4280	ARITATQALK	P50613 CDK7 282_291
4281	KMAEVIGSKL	Q9NU22 MDN1 592_601
4282	RPDPAGHLT	Q9NTJ4 MA2C1 1005_1014

4283	STRSSILNAK	Q14149 MORC3 546_555
4284	QPKSPAHLSSL	O76094 SRP72 440_449
4285	GRLSPVPVPR	Q9UKM9 RALY 132_141
4286	APRHPSTNSL	Q9P032 NDUF4 30_39
4287	SPRPGALRPM	Q8N4B5 PRR18 225_234
4288	KPRVPPATAF	Q99707 METH 342_351
4289	ILAERSLGPK	P35790 CHKA 186_195
4290	APRSKLISVL	Q15573 TAF1A 288_297
4291	SRVTVAIPLK	P13612 ITA4 762_771
4292	GPDSTRHTTL	Q14582 MAD4 83_92
4293	LRPLKNAAVC	Q15772 SPEG 46_55
4294	LPDSGHLHPL	Q9Y285 SYFA 218_227
4295	SPRLPVGGFR	Q14669 TRIPC 1921_1930
4296	RVIEGSLSPK	Q8IX01 SUGP2 596_605
4297	RPTVARISSV	Q9Y5J1 UTP18 248_257
4298	LPSSIRTAKAL	Q9BY77 PDIP3 241_250
4299	SPRAQATSRL	Q9NQX3 GEPH 270_279
4300	ILDSKPTANK	Q9ULV4 COR1C 409_418
4301	APRKPSIDGF	Q8NHM5 KDM2B 393_402
4302	KLLDGPSTEK	P23193 TCEA1 75_84
4303	KLSAPVSQKM	Q9P1T7 MDFIC 122_131
4304	VYDRPGASPK	Q12769 NU160 1150_1159
4305	TPSPVRLHAL	Q3KNT7 NSN5B 59_68; Q63ZY6 NSN5C 141_150; Q96P11 NSUN5 325_334
4306	MRLPSGVGF	Q9Y285 SYFA 95_104
4307	SIFDGRVVAK	Q9UM00 TMCO1 107_116
4308	KPTFSRATAL	Q96DU3 SLAF6 319_328
4309	ATDVAKGMHY	Q9NYL2 MLTK 111_120
4310	KPGQAPRLLI	P01620 KV302 40_49; P01621 KV303 44_53; P01622 KV304 40_49; P01623 KV305 40_49; P04433 KV309 59_68; P04434 KV310 60_69; P18135 KV312 60_69; P18136 KV313 60_69
4311	RVMSSPSAMK	Q99728 BARD1 406_415
4312	APGIRDHESL	P51858 HDGF 231_240
4313	RPAPP MKGQL	Q86TS9 RM52 55_64
4314	KSPSEPLIPK	Q99741 CDC6 418_427
4315	ALKNPPINTK	O15511 ARPC5 58_67
4316	LPRGSIPRSL	Q14566 MCM6 215_224
4317	SPRSSTVHIL	Q9UNY4 TTF2 908_917
4318	SPRKNPSVVI	Q8WXE1 ATRIP 224_233
4319	SPREAA RVLV	Q2T9J0 TYSD1 374_383
4320	SPRKL VVGEL	Q96CN4 EVI5L 549_558
4321	APNPSRSEKL	Q5T9S5 CCD18 55_64
4322	AVRNSDL VP K	Q96D70 R3HD4 54_63
4323	KPADRVNVTV	A6NHG4 DDTL 33_42; P30046 DOPD 33_42
4324	KPRTPMPSSV	Q9NXR1 NDE1 188_197
4325	ALRNNSPVNTK	Q9BPX5 ARP5L 60_69
4326	ALRTDLVSPK	Q9NXE4 NSMA3 452_461
4327	KNSIIIVSPR	P07992 ERCC1 97_106

4328	ALLPAGFRQK	Q9NYL9 TMOD3 44_53
4329	SRLGNSSLKK	Q10570 CPSF1 386_395
4330	QPKHFTGGVM	Q9NRZ9 HELLS 214_223
4331	SPRSSDLVKL	Q9NVH2 INT7 338_347
4332	HPRSPTPTLP	Q96HE9 PRR11 341_350
4333	MRVGPVRSAM	Q96RU8 TRIB1 1_10
4334	GRFDITIGPK	Q9Y2T2 AP3M1 289_298
4335	SIYPHGSTDK	Q99436 PSB7 155_164
4336	ASEASRLAHY	Q8N257 H2B3B 75_84; Q96A08 H2B1A 76_85; Q99880 H2B1L 75_84
4337	AMSERALAQK	P18583 SON 2226_2235
4338	QPAPASREHL	Q14005 IL16 817_826
4339	SRLTPVFGK	Q16850 CP51A 132_141
4340	ARLPVLSPPR	Q99805 TM9S2 3_12
4341	GTYVKPLSNK	Q15067 ACOX1 263_272
4342	HPRVPSLTTV	Q9BW19 KIFC1 66_75
4343	IRFSNISAAK	P50991 TCPD 33_42
4344	RVPLDPLIGK	P53384 NUBP1 266_275
4345	KLFTTSGNLK	Q13105 ZBT17 397_406
4346	RPLPRQGATL	Q7Z591 AKNA 329_338
4347	KTSDSLLSMK	Q9NVI1 FANCI 799_808
4348	RLLLPGEAK	O60814 H2B1K 100_109; P06899 H2B1J 100_109; P23527 H2B1O 100_109; P33778 H2B1B 100_109; P57053 H2BFS 100_109; P58876 H2B1D 100_109; P62807 H2B1C 100_109; Q16778 H2B2E 100_109; Q5QNW6 H2B2F 100_109; Q8N257 H2B3B 100_109; Q93079 H2B1H 100_109; Q96A08 H2B1A 101_110; Q99877 H2B1N 100_109; Q99879 H2B1M 100_109; Q99880 H2B1L 100_109
4349	RLPPATLTLK	Q9NU23 LYRM2 5_14
4350	GRIPEQILGK	Q02750 MP2K1 159_168
4351	QPRRVAAISL	Q9H6R0 DHX33 126_135
4352	RVINSIPLAK	Q86XR8 CEP57 325_334
4353	KPYSGPRLPP	Q16594 TAF9 108_117
4354	TPRRPAGLLM	O60449 LY75 7_16
4355	ALRADDPPLLK	Q96C86 DCPS 320_329
4356	MPQPPPHGHVL	Q12888 TP53B 1227_1236
4357	GLEAIQRTPK	P61769 B2MG 17_26
4358	VRSPVTNIAR	Q96CW1 AP2M1 43_52
4359	SPRDATKEPL	Q2KHM9 K0753 580_589
4360	AQLRLGVDVKN	P49588 SYAC 959_968
4361	QPRRVAAAMSV	O43143 DHX15 192_201; O60231 DHX16 452_461; Q14562 DHX8 617_626; Q92620 PRP16 584_593
4362	AIIDHIFASK	Q8TAS1 UHMK1 256_265
4363	APRKGTWWSL	Q8WUA4 TF3C2 702_711
4364	SRIIGVDINK	P11766 ADHX 217_226
4365	SPRKTAQDTL	O95267 GRP1 694_703
4366	KPTTSHFSVL	Q96LC7 SIG10 191_200
4367	KPFGLKVSQ	P49327 FAS 528_537
4368	KPKTPSLTVF	P24928 RPB1 1133_1142
4369	TPNKPSRTSM	P16615 AT2A2 499_508
4370	APRKGNLYV	P18615 NELFE 257_266

4371	HPLSDHEATL	P10321 1C07 216_225
4372	AKDIGFIKLD	P62273 RS29 47_56
4373	KVLDTIMATK	Q460N5 PAR14 278_287
4374	RTAVPSFLTK	Q96QD9 UIF 252_261
4375	STTTGHLIYK	P68104 EF1A1 21_30; Q05639 EF1A2 21_30; Q5VTE0 EF1A3 21_30
4376	LPRGEKPKNPL	P68402 PA1B2 140_149
4377	KPAPPREVEV	Q9UGN4 CLM8 244_253
4378	RPSTPHTITL	Q12770 SCAP 481_490
4379	KPKPTNPVEI	Q9ULU4 PKCB1 635_644
4380	KPNPRGEIVI	O60488 ACSL4 512_521
4381	KPAEAPRLQL	Q14690 RRP5 1524_1533
4382	SPSPFTHTHL	P38398 BRCA1 1189_1198
4383	RIFAPNHVVA	Q02543 RL18A 31_40
4384	LPRKGAAQLEL	Q9NWT8 AKIP 51_60
4385	ILRIPTQVGK	Q6WKZ4 RFIP1 1269_1278
4386	RPEEGRPVVS	P27816 MAP4 670_679
4387	GSKYKVFIAK	P48556 PSMD8 239_248
4388	RPKSNIVLLS	P11836 CD20 222_231
4389	SPAERPRDSL	Q8TF30 WHAMM 692_701
4390	AVAYHQPTLK	Q9Y5S1 TRPV2 407_416
4391	KPKPLSQAEM	O14862 AIM2 97_106
4392	RLSPSPSTSQR	P02545 LMNA 388_397
4393	RPIQGSRTTI	P48960 CD97 573_582
4394	KPRDVSSVEL	Q01082 SPTB2 1939_1948
4395	IVNKSQQTAL	Q9BQG2 NUD12 74_83
4396	RLATSLVEKL	Q96BZ9 TBC20 160_169
4397	KLIDIVSSQK	O14757 CHK1 461_470
4398	RPDSTKVESL	O75448 MED24 548_557
4399	SVNYKPPAQK	P52565 GDIR1 24_33
4400	GRVGDVYIPR	Q01130 SRSF2 38_47; Q9BRL6 SRSF8 38_47
4401	RVTSQVSNLK	Q5W0Q7 USPL1 717_726
4402	VRAGIMPFLK	Q8IWV8 UBR2 1508_1517
4403	TPYPKLKTAL	Q96JI7 SPTCS 1121_1130
4404	KTNMPIITSK	Q8NCE0 SEN2 93_102
4405	KTPDEIMSGR	P41212 ETV6 421_430
4406	APFDERRATSL	Q92466 DDB2 108_117
4407	VVNRVTGNFK	P42167 LAP2B 294_303
4408	SPHTKPWIGL	O43175 SERA 326_335
4409	APRSVMKSF1	Q9NQS7 INCE 511_520
4410	SVYYPEKLATK	Q5VYK3 ECM29 681_690
4411	KTASVFLLEK	Q96J01 THOC3 77_86
4412	IVDGNHRLTL	O15020 SPTN2 141_150; Q01082 SPTB2 138_147; Q9H254 SPTN4 145_154
4413	KTFEGNLTTK	Q6P2Q9 PRP8 1792_1801
4414	SRTSVTDVKF	Q96EE3 SEH1 112_121
4415	VPASQKLRQL	Q8WV28 BLNK 9_18
4416	KLLDELPIAK	Q9H672 ASB7 296_305
4417	IVDGHERAML	Q92993 KAT5 480_489

4418	GVKWPQSNPK	Q9UKV3 ACINU 1071_1080
4419	SIPQKPQTNK	Q14157 UBP2L 1067_1076
4420	APDSQRLKLL	Q9UQE7 SMC3 150_159
4421	KPNDSRALQL	Q9NWX6 THG1 73_82
4422	SPRDITTIKL	P56589 PEX3 254_263
4423	SSNKQILINK	Q99708 COM1 401_410
4424	RILSGPFVQK	P22102 PUR2 897_906
4425	KVYLGDIPLK	Q5VYK3 ECM29 304_313
4426	KLFSELPLAK	Q9Y291 RT33 35_44
4427	STMGYMMMAKK	P08238 HS90B 615_624; Q58FF7 H90B3 488_497
4428	ARSDKPIFTL	Q13610 PWP1 372_381
4429	KPRTFLPSTT	O60667 FAIM3 200_209
4430	IPYSKSHVSM	Q3B7T1 EDRF1 136_145
4431	SPRNSLPQHL	Q08334 I10R2 257_266
4432	GMYHGDLTEK	Q66K14 TBC9B 910_919
4433	KINPTSSLYK	O75665 OFD1 116_125
4434	RPQSSRPVLL	Q8IW87 WDFY1 8_17
4435	IRIQLPVVSK	P46013 KI67 37_46
4436	SPDLKVRPEL	Q9UPZ3 HPS5 563_572
4437	IPREQQKAAL	Q9H9Y6 RPA2 26_35
4438	RVLLPTGNQR	P53814 SMTN 476_485
4439	FAKLVRRPPVQ	P48047 ATPO 24_33
4440	KVVEGSFVYK	P31150 GDIA 103_112
4441	GPRSQKQLEL	Q96MG7 MAGG1 78_87
4442	KPRVTPVEVM	Q8N7H5 PAF1 196_205
4443	KPIDVSRLDL	Q12904 AIMP1 148_157
4444	LPSDLRRSVL	Q7Z6Z7 HUWE1 3065_3074
4445	KLTDFGFSNK	Q9NRH2 SNRK 155_164
4446	MPRQPSATRL	Q6NZ67 MZT2B 134_143; Q6P582 MZT2A 134_143
4447	RPNKPLFTAL	Q8NCW5 NNRE 145_154
4448	SPKKETLIQL	Q8TEQ0 SNX29 759_768
4449	KVLDAAIQEK	Q9NTJ3 SMC4 598_607
4450	VPRAPTKEEM	Q8IZT6 ASPM 742_751
4451	KVTEGSFVYK	P50395 GDIB 103_112
4452	APNEKMKQVL	P57076 CU059 103_112
4453	KQILTPMAQK	Q15397 K0020 310_319
4454	SLPTVIMRNK	Q12802 AKP13 1857_1866
4455	RQIYNPPSGK	Q9BZZ5 API5 478_487
4456	RPQPQPRPAL	Q9GZT5 WN10A 13_22
4457	KTLFPLIEAK	P13010 XRCC5 534_543
4458	VRSYSDPPLK	P52597 HNRPF 191_200
4459	ALDKDAPLRY	Q9BQT9 CSTN3 52_61
4460	RTMTTVLDPK	Q9Y613 FHOD1 689_698
4461	ATYYGAFIKK	O95819 M4K4 83_92; Q8N4C8 MINK1 83_92; Q9UKE5 TNIK 83_92
4462	VPRPPPLYSH	Q96L91 EP400 1847_1856
4463	KPMDTDKESI	O60502 NCOAT 497_506
4464	AMFNIRNIGK	P61247 RS3A 37_46

4465	KSLDQAISRF	Q96F07 CYFP2 802_811
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4467	SVFQQGMKNK	P05023 AT1A1 943_952; P13637 AT1A3 933_942; P50993 AT1A2 940_949
4468	LPHEVDKSEL	Q13283 G3BP1 347_356
4469	VVRNDNQVPK	Q6NSI4 CX057 445_454
4470	KPDQQKLQAL	P29401 TKT 6_15
4471	KLLPDTILEK	Q9UMY1 NOL7 112_121
4472	QPMAERKAQL	Q9UPN3 MACF1 3536_3545
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4474	SRIQQIIEGK	O60313 OPA1 480_489
4475	RLAEPSQMLK	P35222 CTNB1 124_133
4476	APAYQRFHAL	Q9H211 CDT1 167_176
4477	ARISQLEMAR	P26038 MOES 426_435
4478	KTQDQISNIK	Q14847 LASP1 112_121
4479	IIYPNDLAKK	Q9Y6W6 DUS10 149_158
4480	APRGELYKEL	Q96GD4 AURKB 157_166; Q9UQB9 AURKC 123_132
4481	QRYPDGIISK	Q86U44 MTA70 567_576
4482	RPKLPEDPLL	P49327 FAS 1206_1215
4483	SRNSFMVIPK	Q4KMQ1 TPRN 327_336
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4485	RPDITHQSLL	Q92979 NEP1 84_93
4486	VPNQKRLTLL	O60488 ACSL4 617_626
4487	AQYQFTGIKK	Q96IX5 USMG5 8_17
4488	HPREPLPPIQ	P13010 XRCC5 500_509
4489	IPRDVRDTVL	Q86VM9 ZCH18 355_364
4490	ATDSYKVTHY	P43490 NAMPT 14_23
4491	VTDKSMVDKY	Q5VYK3 ECM29 1150_1159
4492	HLNVQVSNFK	Q86UE4 LYRIC 252_261
4493	RIIEETLALK	O15144 ARPC2 9_18
4494	AVFPFKPPQR	Q9Y6X3 SCC4 53_62
4495	PTDMEHTGHY	P22794 EVI2A 2_11
4496	KPQEEQKTSI	Q14191 WRN 1237_1246
4497	VVYTSHLQLK	A6NKT7 RGPD3 492_501; O14715 RGPD8 492_501; P0DJ0 RGPD1 483_492; P0DJ1 RGPD2 491_500; P49792 RBP2 491_500; Q7Z3J3 RGPD4 492_501; Q99666 RGPD5 492_501
4498	KLLNYAPLEK	P62875 RPAB5 58_67
4499	MRQKAVSLFL	P09912 IFI6 1_10
4500	TPDQQKRSSF	P61006 RAB8A 192_201
4501	SVYDHQGIFK	Q96E22 NGBR 133_142
4502	SRFDTPLETK	O00754 MA2B1 731_740
4503	YPFKPPKVAF	P61077 UB2D3 60_69; P62837 UB2D2 60_69; Q9Y2X8 UB2D4 60_69
4504	IVKKPGNIYY	Q9BV19 CA050 112_121
4505	KLMENTFVSK	P51530 DNA2 580_589
4506	LLREQVAQLK	P17275 JUNB 316_325; P17535 JUND 316_325
4507	FVYPPGNPLRH	Q96EK7 F120B 651_660
4508	KVLENIELNK	Q9Y262 EIF3L 292_301
4509	NPYTIKKQPL	Q9UMS0 NFU1 28_37

4510	SPRAPFYRPL	A6NED2 RCCD1 145_154
4511	KLNNLVLFDK	P62851 RS25 43_52
4512	EPRETPEHPL	Q8N163 CCAR2 334_343
4513	QRAYPLEVTK	P18074 ERCC2 60_69
4514	RPTYTNKVITL	Q14004 CDK13 868_877; Q9NYV4 CDK12 890_899
4515	IVYAVDFNHK	Q9P2I0 CPSF2 170_179
4516	RPAQPQEHPF	Q15437 SC23B 217_226
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4520	IALWPPVREK	Q9Y4C2 F115A 800_809
4521	ASDKETYELR	Q6P5R6 RL22L 98_107
4522	KIIDFIYTAK	Q9P2J3 KLHL9 105_114; Q9P2N7 KLH13 147_156
4523	YVLGYKQTLK	P62888 RL30 27_36
4524	KMYDAAKLLY	Q00610 CLH1 1209_1218
4525	RQASVIIQRF	B2RTY4 MYO9A 1043_1052
4526	LVREIAQDFK	P68431 H31 71_80; P84243 H33 71_80; Q71DI3 H32 71_80
4527	RLLEYTPTAR	P49841 GSK3B 319_328
4528	PLDHLKPLEY	Q14146 URB2 1354_1363
4529	RLYVPLYSSK	O95071 UBR5 2771_2780
4530	IPQKQREITL	Q9NR30 DDX21 471_480
4531	VTFEKIFSQK	P25098 ARBK1 53_62
4532	ITESNMKSRY	P30291 WEE1 286_295
4533	SRLDQPFIPR	Q86Y91 KI18B 762_771
4534	RTLNPQMLQK	Q9NVU7 SDA1 440_449
4535	ARILLDNDHY	Q86WA8 LONP2 335_344
4536	KTPEQIMQEK	Q9H3R5 CENPH 67_76
4537	GRFPYPQIQK	Q13163 MP2K5 352_361
4538	APYERRAMEL	Q9Y3U8 RL36 51_60
4539	QSFDEKEWVAK	P13073 COX41 131_140
4540	SVQNVFYRPK	Q14562 DHX8 1013_1022
4541	IKHWKMASKL	P51815 ZN75D 217_226
4542	RIFQEPTEPK	P31350 RIR2 50_59
4543	IQRTPKIQVY	P61769 B2MG 21_30
4544	STDKFKTDFY	Q7L5N1 CSN6 271_280
4545	VPSLQRYREL	Q9NR19 ACSA 41_50
4546	LTDVREQNKY	Q96QE3 ATAD5 1663_1672
4547	ATYNKQPMYR	Q9Y6K1 DNM3A 357_366
4548	KTDMEKLTFY	Q14156 EFR3A 34_43
4549	LLEDKHFQSY	Q9NNW5 WDR6 384_393
4550	QPFFQKRSEL	P0DME0 SETLP 88_97; Q01105 SET 78_87
4551	SDKETYELRY	Q6P5R6 RL22L 99_108
4552	KLPEYFFENK	Q9BXW9 FACD2 156_165
4553	RVAPRSGLAA	P33316 DUT 169_178
4554	RPVSRGGVGL	Q96LB3 IFT74 11_20
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4556	RRLSPAGAAL	Q8TCT8 SPP2A 5_14

4557	GRGTFGQVAK	Q86Z02 HIPK1 197_206
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4559	GRKTGQAPGY	P99999 CYC 38_47
4560	APHARNGLSL	Q13422 IKZF1 419_428
4561	KVGEFSGANK	P10599 THIO 85_94
4562	RPGTGLGRVM	Q9BVK6 TMED9 13_22
4563	HPRGGVIQSV	Q96B23 CR025 344_353
4564	RPKPPSATSI	Q9UMS4 PRP19 62_71
4565	RPSGLRLGTP	P34896 GLYC 397_406
4566	APRHGSLGFL	P39023 RL3 8_17
4567	RPVSASRSSL	P50402 EMD 168_177
4568	KRYAVPSAGL	P78527 PRKDC 263_272
4569	GRKVVGDVAY	P11586 C1TC 249_258
4570	RPKPSSSPVI	Q15366 PCBP2 183_192
4571	RPRVGTPLAT	O94953 KDM4B 1060_1069
4572	RRGSPLLIGV	O94808 GFPT2 199_208; Q06210 GFPT1 202_211
4573	KPRAGQTVNV	Q9HAW4 CLSPN 544_553
4574	SPRARAEAVL	Q2M1Z3 RHG31 629_638
4575	RPLRSTGVAL	Q15437 SC23B 261_270
4576	RPQSGRVLSA	O43598 DNPH1 120_129
4577	RVRAISAANL	Q6P2Q9 PRP8 2074_2083
4578	RVSGSRLAIL	P43304 GPDM 695_704
4579	TPAERGRSSL	Q96HY7 DHTK1 372_381
4580	GRLKDIALGM	O95721 SNP29 214_223
4581	FRNSGITVGK	Q6IPR3 TYW3 127_136
4582	RAGDFSKTSL	O15049 N4BP3 93_102
4583	RPRPGDSLPS	P78325 ADAM8 187_196
4584	RPRGNTASLI	O60566 BUB1B 322_331
4585	RPRDASTLGL	Q9NR09 BIRC6 3284_3293
4586	RPRIAGITAM	Q14746 COG2 197_206
4587	RRNPAGSVVM	O00764 PDXK 207_216
4588	RPSGKGIVEF	Q15233 NONO 186_195
4589	GRNKFGQLGL	Q5GLZ8 HERC4 215_224
4590	KRNGVIIAGY	Q9UKF6 CPSF3 348_357
4591	GRMEEGSIGR	Q6NUM9 RETST 124_133
4592	ARNKVGQVGY	O94868 FCSD2 510_519
4593	GRVKIADMGF	P49336 CDK8 167_176; Q9BWU1 CDK19 167_176
4594	RPRPVSPSSL	P57059 SIK1 430_439
4595	RPPNLRGSSL	Q96QK8 SIM14 71_80
4596	ARKLIGDPNL	P62826 RAN 165_174
4597	GPRQNSRLGL	Q9BSV6 SEN34 39_48
4598	RPGPQRTTSV	Q86Y01 DTX1 296_305
4599	RVAEERGAVL	Q9H5Z1 DHX35 119_128
4600	RRLALFPGV A	P30101 PDIA3 4_13
4601	HPHAVNEIAL	Q8IVF7 FMNL3 247_256; Q96PY5 FMNL2 244_253
4602	HPRQPPAQGL	P41440 S19A1 463_472
4603	SPRRQVTSGL	Q15788 NCOA1 488_497

4604	SPRTRTGDVL	Q9UHI6 DDX20 48_57
4605	GRMNQGTARL	P43243 MATR3 43_52
4606	GRLVRSVDVAM	Q86WA8 LONP2 758_767
4607	RTGPPMGSRF	Q15056 IF4H 175_184
4608	KRVEGALNLL	Q9NRC1 ST7 453_462
4609	VRFSGADKSF	Q5VZL5 ZMYM4 742_751
4610	RRLGVQQSLG	P33552 CKS2 44_53
4611	RAAENRQGTL	P14598 NCF1 85_94
4612	RPRSSSTDALI	Q15751 HERC1 149_158
4613	RPRTEVSLSA	Q8IUR0 TPPC5 19_28
4614	RRSGLPLPATF	Q9HB15 KCNKC 185_194
4615	GCRNKTQISL	P30876 RPB2 1139_1148
4616	GRLQSLGKNF	P07992 ERCC1 155_164
4617	SRLKALNATF	O95219 SNX4 202_211
4618	RPRVTEPISA	O14791 APOL1 303_312
4619	QPRRISAISV	Q6P158 DHX57 600_609; Q9H2U1 DHX36 263_272
4620	RVRVVVDNSAL	Q6P1L8 RM14 37_46
4621	GRYGGGETKVY	Q16629 SRSF7 5_14
4622	RPRAVYAVEA	P55345 ANM2 160_169
4623	KRNTVIGTPF	Q13043 STK4 180_189; Q13188 STK3 177_186
4624	GRNKYLINGV	O95347 SMC2 111_120
4625	RPRPPPFLGP	Q9HAH7 FBRS 341_350
4626	GRIKVNGIDY	P82933 RT09 291_300
4627	RRASLSEIGF	Q00537 CDK17 177_186
4628	TPRSKGQESF	P06748 NPM 219_228
4629	RPYSDSTAKL	Q86YD1 PTOV1 106_115
4630	APRSGRSLFF	Q9H8Y5 ANKZ1 298_307
4631	RPRPSGEEVL	P33992 MCM5 112_121
4632	RPSVRNGQLL	Q96EB1 ELP4 53_62
4633	KPNIGRQSQL	Q9Y2G9 SBNO2 1095_1104
4634	ARKGEFETGF	P15170 ERF3A 185_194; Q8IYD1 ERF3B 314_323
4635	KRMNPNSPSI	P84090 ERH 41_50
4636	MPRGFYHSAL	Q5VW36 FOCAD 789_798
4637	KPRNMTGLDL	Q6ZS10 CL17A 115_124
4638	SPSGRRVYQV	Q19AV6 ZSWM7 59_68
4639	RRNIAVTTSMS	P20701 ITAL 696_705
4640	KLPKQPVIVK	P46776 RL27A 116_125
4641	KPHWNDGAIL	P42229 STA5A 586_595; P51692 STA5B 586_595
4642	KRLDLTTSAF	Q17RN3 FA98C 234_243
4643	SPRGEPRAPW	P04222 1C03 66_75; P10321 1C07 66_75; P30492 1B54 66_75; P30499 1C01 66_75; P30505 1C08 66_75; P30508 1C12 66_75; P30510 1C14 66_75; Q07000 1C15 66_75; Q29865 1C18 66_75; Q29960 1C16 66_75; Q29963 1C06 66_75; Q95604 1C17 66_75; Q9TNN7 1C05 66_75
4644	RLSYNTASNK	P49207 RL34 10_19
4645	RPREGPEAEL	Q9P2H5 UBP35 926_935
4646	KLYRPGSVAY	P53396 ACLY 650_659
4647	RPSKIQENAL	Q9NUU7 DD19A 113_122; Q9UMR2 DD19B 114_123
4648	SPSRNRSLQL	Q3KQU3 MA7D1 280_289

4649	KPKSAPWNSF	Q16637 SMN 184_193
4650	GRFLGHAQMFI	O00750 P3C2B 1215_1224
4651	RPKSVDFDSL	Q9Y5K6 CD2AP 455_464
4652	RPRTGETTVF	Q8NC24 RELL2 155_164
4653	RPRPDPSPEI	P51970 NDUA8 145_154
4654	KRLGSLVDEF	P12956 XRCC6 516_525
4655	RRFTTDAIAL	P28065 PSB9 172_181
4656	KRYDGSQQAL	Q9UBU9 NXF1 218_227
4657	RRMGIGMAEF	P37268 FDFT 148_157
4658	ARTDGKVFQF	P83731 RL24 22_31
4659	SRFVDGLTFK	Q9HCE1 MOV10 435_444
4660	APRNSNLREL	Q96EV2 RBM33 702_711
4661	HPSANRYLTL	Q08050 FOXM1 311_320
4662	RPRMNANSLL	Q16526 CRY1 236_245; Q49AN0 CRY2 255_264
4663	RPPYNRAVSL	Q9Y6Q9 NCOA3 849_858
4664	RRLAALPNVY	P33992 MCM5 323_332
4665	YRASLVSKSY	O94900 TOX 328_337
4666	GRWDEANAEK	P22059 OSBP1 727_736
4667	RPQRATSNVF	O14950 ML12B 14_23; P19105 ML12A 13_22; P24844 MYL9 14_23
4668	KPRDVTNFTV	O00267 SPT5H 650_659
4669	ARMKIDPEAF	Q92616 GCN1L 692_701
4670	GRYLDNVVNK	Q66K14 TBC9B 728_737
4671	RLIDFLESGK	Q92841 DDX17 304_313
4672	GRLSGIEERY	Q01082 SPTB2 822_831
4673	FRLKDGVLAY	Q14690 RRP5 384_393
4674	YRVKEIGSTM	O00422 SAP18 101_110
4675	RPRPEGMQTL	Q9Y253 POLH 695_704
4676	ARFSPDDKYS	Q9NPE3 NOP10 33_42
4677	GRVGFFPRSYY	Q13588 GRAP 202_211
4678	NPSERRFGIL	Q9UHC7 MKRN1 293_302
4679	RLFEGNALLR	P46781 RS9 70_79
4680	RPMDSLDSRL	P42229 STA5A 770_779
4681	GRLELVNSRF	Q9H1J7 WNT5B 261_270
4682	GRIKAIQLEY	O43242 PSMD3 293_302
4683	KRFDDPGLML	P12956 XRCC6 338_347
4684	RRIDISPSTF	Q9Y2W1 TR150 677_686
4685	SPRQNKYCSV	O60762 DPM1 21_30
4686	KRLVQSPNSY	P42677 RS27 22_31; Q71UM5 RS27L 22_31
4687	KRLDVTVQSF	Q52LJ0 FA98B 227_236; Q8NCA5 FA98A 225_234
4688	KRIADISQVY	P60900 PSA6 116_125
4689	IRAFPNKQGY	O43684 BUB3 185_194
4690	IRKFLEGNSM	Q6ZUJ8 BCAP 485_494
4691	VRNGYGFINR	P16989 YBOX3 100_109; P67809 YBOX1 68_77; Q9Y2T7 YBOX2 103_112
4692	RPGFSISRIY	O75821 EIF3G 260_269
4693	RPLREGILEL	Q9P2E3 ZNF1 382_391
4694	ESEVNRGDKY	P33176 KINH 20_29
4695	KRYNGLLEF	Q86Y13 DZIP3 193_202

4696	APNINRRNEI	Q96J88 ESIP1 71_80
4697	RLYGSSLTRF	Q5TAX3 TUT4 397_406
4698	RPRPMSSEEL	Q9H6S0 YTDC2 1178_1187
4699	HPYMKDLNAL	O75113 N4BP1 881_890
4700	RIWAAAPNRF	Q96P48 ARAP1 540_549
4701	RPRVALQQSF	Q9P265 DIP2B 1289_1298
4702	RRQDSIPAFL	Q9Y6D9 MD1L1 695_704
4703	GRFDSEKMAY	P51798 CLCN7 361_370
4704	RIRNISNTVM	Q0VDF9 HSP7E 56_65
4705	RRNGLEPVTY	O00212 RHOD 144_153
4706	KPRNVVFVDM	P34932 HSP74 194_203
4707	KRFTPDIPTM	Q9NRZ9 HELLS 291_300
4708	VRWSPKGTYL	P55884 EIF3B 340_349
4709	KSDSGKPYYY	O75400 PR40A 191_200
4710	RRSDVEILGY	Q86Y07 VRK2 229_238
4711	YPARYRPTAL	Q96L33 RHOV 56_65
4712	KRFQQAGFNL	Q9Y5T5 UBP16 698_707
4713	ARKQTQEVSY	Q15058 KIF14 479_488
4714	KRISEQFTAM	P04350 TBB4A 379_388; P07437 TBB5 379_388; P68371 TBB4B 379_388; Q13509 TBB3 379_388; Q13885 TBB2A 379_388; Q9BVA1 TBB2B 379_388
4715	RPNERQVAQL	P19878 NCF2 184_193
4716	KPMVRDGVYF	P30520 PURA2 228_237
4717	TRFSAENIFK	Q99551 MTERF 42_51
4718	RRLQSSFTAF	Q92673 SORL 2163_2172
4719	RVFQGFFTGR	O95235 KI20A 466_475
4720	RPREVQETTV	Q9NXH9 TRM1 48_57
4721	YTDRALRASY	Q96DF8 DGC14 409_418
4722	KRLNLQPLAY	Q7L8W6 DPH6 131_140
4723	GRFNGQFKTY	P63220 RS21 44_53
4724	SPRPNHSYIF	Q9C073 F117A 327_336
4725	RPRPSEDTFL	Q8TAP8 PPR35 234_243
4726	ARYGKSPYLY	P31150 GDIA 217_226; P50395 GDIB 217_226
4727	HLDQSQKSLY	Q9Y2L8 ZKSC5 234_243
4728	RARDLFEQAL	Q9HCS7 SYF1 575_584
4729	RPRSISVEEF	Q7Z333 SETX 1143_1152
4730	RPSPWWRPLVL	Q9Y4P1 ATG4B 215_224
4731	KSDTGKPYYY	Q6NWY9 PR40B 143_152
4732	RLSESQLSFR	Q96PK6 RBM14 616_625
4733	YPDDRTSRTL	Q9UJF2 NGAP 498_507
4734	KPDSDRFVFL	Q3L8U1 CHD9 1246_1255; Q8TD26 CHD6 847_856; Q9HCK8 CHD8 1197_1206; Q9P2D1 CHD7 1354_1363
4735	GRISDFHETY	Q6W2J9 BCOR 860_869
4736	SPREEPRAPW	P01889 B07 66_75; P01893 HLAH 66_75; P03989 B27 66_75; P30460 B08 66_75; P30462 B14 66_75; P30475 B39 66_75; P30480 B42 66_75; P30486 B48 66_75; P30493 B55 66_75; P30495 B56 66_75; Q29718 B82 66_75; Q29836 B67 66_75; Q29940 B59 66_75; Q31610 B81 66_75; Q31612 B73 66_75; Q95365 B38 66_75
4737	KPRTVFSNDYL	Q9ULG6 CCPG1 561_570

4738	RPWEVAQRAL	P48553 TPC10 323_332
4739	RPSTRIQQQL	P25963 IKBA 260_269
4740	RVSEFFMNAK	Q9NXR8 ING3 42_51
4741	IPDSRRENEL	Q8NCY6 MSD4 168_177
4742	RPWEKNSTTL	P50552 VASP 308_317
4743	MPRRNFPIAM	Q9H9Y6 RPA2 184_193
4744	SRAIIRENEF	Q12873 CHD3 822_831; Q14839 CHD4 812_821
4745	RRFVNVVPTF	P62861 RS30 40_49
4746	KRFEETGQEL	P36405 ARL3 98_107
4747	KRLDINTNTY	Q9H173 SIL1 117_126
4748	KSDHTDVLYY	Q5T5J6 SWT1 56_65
4749	ALLPWPFRNK	Q13077 TRAF1 335_344
4750	KRVELLQDEL	Q6ZMI0 PPR21 71_80
4751	RPQDRDNMVL	Q9UJX6 ANC2 720_729
4752	RLNESTSYKF	Q9Y2H6 FND3A 1012_1021
4753	RPRPSWITTM	P42785 PCP 401_410
4754	IPRSWSEKEL	O95319 CELF2 47_56
4755	SRFYGDLMEK	Q9BUQ8 DDX23 317_326
4756	MRYFDATAVR	P10321 IC07 29_38; Q29865 IC18 29_38; Q29963 IC06 29_38
4757	HLDGQPFLRY	Q29980 MICB 50_59
4758	WTDLISHGRY	Q9P2D1 CHD7 1621_1630
4759	SRFPQNQTR	P14854 CX6B1 19_28
4760	RPRPEYVAIF	Q6NUS6 TECT3 453_462
4761	RPREPPEQEL	Q8TA86 RP9 17_26
4762	LLDVRDRDSY	Q9BYV8 CEP41 175_184
4763	GRFSQLYPER	P48449 ERG7 717_726
4764	GRYDMAQLRF	Q6P1Q9 MET2B 294_303; Q96IZ6 MET2A 294_303
4765	HLDEAQRLLY	Q8IVP9 ZN547 27_36; Q8NEK5 ZN548 24_33
4766	FLDSRKEDSY	Q8IYH5 ZZZ3 252_261
4767	VRWAPNENKF	O15143 ARC1B 102_111
4768	RVREITENLM	P13796 PLSL 49_58
4769	SRKTFTETFF	Q5R372 RBG1L 427_436
4770	QRYDHSVINRL	O94913 PCF11 1328_1337
4771	ESDGKSRWFY	Q9H993 CF211 101_110
4772	YRGDFETFIK	Q9NUQ8 ABCF3 405_414
4773	RRLQIEDFEA	Q9P0J0 NDUAD 58_67
4774	QRLKTNILQY	P06400 RB 762_771
4775	QPRRWPVQVL	Q8N6S5 AR6P6 100_109
4776	YTDTHDNTRY	Q13635 PTC1 630_639
4777	RVRFLEQQTL	Q9Y448 SKAP 286_295
4778	NPSQYRFEHL	Q9BX10 GTPB2 76_85
4779	QTDRANRFY	O60264 SMCA5 85_94
4780	RTDLHSTWQY	O43526 KCNQ2 353_362
4781	KRLQDLENQY	O43896 KIF1C 645_654
4782	DSDFRKDDFY	Q9HBM0 VEZA 553_562
4783	RLNPQYPMFR	Q14738 2A5D 514_523
4784	SSLLEKGLDG	P81605 DCD 63_72

4785	AIRGLLPKLK	P46060 RAGP1 287_296
4786	RRNMGVSSGL	O75815 BCAR3 574_583
4787	RRNTAGSLGF	Q8TBB1 LNX1 642_651
4788	KMGGIKGLFK	P61011 SRP54 433_442
4789	HRYGDGGSSF	P55795 HNRH2 274_283
4790	RTGKPIAVKL	O75534 CSDE1 78_87
4791	HPAPTRKIAV	Q92622 RUBIC 705_714
4792	HRYGDGGSTF	P31943 HNRH1 274_283
4793	STLPGRRALK	Q8IVF7 FMNL3 204_213
4794	ALKRGEIIAK	P52272 HNRPM 379_388
4795	GRLLGIIKK	P51790 CLCN3 789_798; P51793 CLCN4 731_740; P51795 CLCN5 717_726
4796	KPGLRPRTAL	P14635 CCNB1 36_45
4797	RRNGLGQLGF	O43166 SI1L1 957_966; O60292 SI1L3 970_979; Q9P2F8 SI1L2 954_963
4798	AQFGGKILRK	Q9P1Y6 PHRF1 159_168
4799	RRVNNFGSGL	O60488 ACSL4 133_142
4800	RPKQPGPVKL	Q9Y618 NCOR2 2095_2104
4801	TPSGHIKRPM	O15370 SOX12 35_44; Q06945 SOX4 54_63
4802	KLPDADLARK	Q8NI08 NCOA7 189_198
4803	KVDGRVVEPK	P09651 ROA1 78_87; P51991 ROA3 99_108; Q32P51 RA1L2 78_87
4804	RRNNLVGDAL	Q15034 HERC3 707_716
4805	IPHEGKHTPL	Q5T035 CI129 70_79; Q9NZB2 F120A 421_430
4806	ARWQGGERGL	Q14151 SAFB2 876_885
4807	GRIGNFIVKK	Q00796 DHSO 55_64
4808	KSFPGIPLHH	P50613 CDK7 250_259
4809	AVLKHLVTPR	Q9NUQ2 PLCE 198_207
4810	HVIETLIGKK	P48643 TCPE 505_514
4811	KPKDPLKISL	Q969Q6 P2R3C 399_408
4812	RTLGAIVRQK	P51659 DHB4 251_260
4813	RIIPHLPAPK	A6NI72 NCF1B 71_80; A8MVU1 NCF1C 46_55; P14598 NCF1 70_79
4814	RLVQGSILKK	P12004 PCNA 5_14
4815	KPRTEGKITL	Q9Y5P8 P2R3B 446_455
4816	IPMSIRKGKL	Q14165 MLEC 169_178
4817	RVNNNRGNGL	Q9Y5M8 SRPRB 104_113
4818	ARTAVYSLHK	Q9NRN9 MELT5 149_158
4819	LRANMDGLKK	P37108 SRP14 87_96
4820	QRAALKFLAK	Q15051 IQCB1 424_433
4821	RPALQHVVKV	O00623 PEX12 34_43
4822	SVFSDKLHSK	Q6PCB5 RSBNL 737_746
4823	KIYKAGQLVK	A6NHR9 SMHD1 607_616
4824	GRWGRGTAQY	Q99959 PKP2 121_130
4825	ARVAIEHLDK	P48643 TCPE 141_150
4826	KPRQAPVTRV	Q96GQ7 DDX27 283_292
4827	RRWLPAGDAL	P13639 EF2 341_350
4828	KLPPEKFAPK	Q96AX1 VP33A 262_271
4829	KVLERVNAVK	Q9UL46 PSME2 145_154
4830	KPSSLRRVTI	Q12912 LRMP 367_376
4831	RLMSPPIAKK	Q6UWU4 CF089 105_114

4832	TRSLVIVKKL	Q8N655 CJ012 883_892
4833	FREGTPKPKK	P61927 RL37 78_87
4834	ARLKPTFISK	Q9UJA2 CRLS1 234_243
4835	GRYRSSDSSF	P56279 TCL1A 82_91
4836	GPRRGDYDNL	Q9UP95 S12A4 11_20
4837	KLPDKGTEK	Q5VZ89 DEN4C 415_424
4838	YPKNATKTKL	Q9H4L7 SMRCD 319_328
4839	ALDTKIGRYK	O60264 SMCA5 920_929
4840	QPRNKPLKAL	P42858 HD 2530_2539
4841	TRIAIVNHDK	P61221 ABCE1 6_15
4842	RLTQTV AHLK	P05161 ISG15 99_108
4843	RVPDVVLIKK	Q96D46 NMD3 397_406
4844	APPEYHRKAV	Q9UBU8 MO4L1 353_362
4845	RMLEKLGVPK	P55008 AIF1 72_81
4846	RVMPDGKIQK	Q9NSD9 SYFB 98_107
4847	KLLDDPSKQK	Q6STE5 SMRD3 189_198; Q92925 SMRD2 237_246
4848	TPKQKPKTPF	Q9HB19 PKHA2 71_80
4849	GRKVFVEIPK	Q9H116 GZF1 228_237
4850	ARVAPKQKEF	Q9HD20 AT131 838_847
4851	KLDNSRSILK	O95476 CNEP1 144_153
4852	KIDEKTAELK	Q9BZD4 NUF2 447_456
4853	KLEDGPFLK	P68104 EF1A1 386_395; Q5VTE0 EF1A3 386_395
4854	LPNQVHRKSV	O43236 SEPT4 130_139; Q15019 SEPT2 23_32; Q99719 SEPT5 30_39
4855	AVLRNQIHVK	Q13098 CSN1 458_467
4856	RRMQSINAGF	Q01664 TFAP4 59_68
4857	RPPLEEKKAL	Q9HB19 PKHA2 335_344
4858	SRFGNAFLNR	Q9H223 EHD4 129_138
4859	SRVNIPKVLR	P53675 CLH2 1341_1350; Q00610 CLH1 1341_1350
4860	RVAEKEPINK	Q12979 ABR 781_790
4861	KVAENVIRQK	Q6ZSC3 RBM43 71_80
4862	RLSEKITPLK	Q7Z3E1 PARPT 28_37
4863	RRMWATQGLA	P55145 MANF 2_11
4864	KTLERSVQTK	Q9H583 HEAT1 75_84
4865	RRNAVLEADF	Q99436 PSB7 20_29
4866	KVFVPPFKTK	P51587 BRCA2 2404_2413
4867	KLFDAVSKF	O60488 ACSL4 81_90
4868	RRSDLQLSLGY	Q8IV63 VRK3 369_378
4869	KSFDTSLIRK	O75787 REN1 267_276
4870	GRIEKQPVLR	Q9NWW7 CB042 486_495
4871	SVIKEGWLHK	P31751 AKT2 5_14
4872	ARNSFRYNGL	P46779 RL28 34_43
4873	QRVELLAKKI	P26196 DDX6 345_354
4874	ARQDLSKILR	Q8NCA5 FA98A 272_281
4875	RPSDIKFPL	Q9NSD9 SYFB 177_186
4876	QVDPKKRISM	Q14680 MELK 245_254
4877	RVLDPSKFLK	O43432 IF4G3 1045_1054
4878	QTPHRPLILK	P52630 STAT2 326_335

4879	VRFNVLKVTK	P62280 RS11 138_147
4880	RLLSPPLRPR	O75882 ATRN 51_60
4881	VPRTHRLITL	O75376 NCOR1 2042_2051
4882	RRIVQNSNGY	O60701 UGDH 114_123
4883	RTKYTITPVK	Q5T653 RM02 69_78
4884	RRFSAGQWEA	Q9Y4W2 LAS1L 438_447
4885	RRLGLDDAEY	P55055 NR1H2 360_369
4886	LPSPLRREKL	Q6IN85 P4R3A 151_160
4887	KLFDFVNAKK	Q08945 SSRP1 413_422
4888	RRNTTQNTGY	Q12965 MYO1E 932_941
4889	RRFAPDISSY	Q969F9 HPS3 295_304
4890	RRFSQSSALY	Q96H86 ZN764 266_275
4891	QLNEKVLKDK	Q9Y2W2 WBP11 72_81
4892	RVKTNLPIFK	O60493 SNX3 52_61
4893	RLMDEAKILK	Q96KB5 TOPK 81_90
4894	VNVPKTRRTF	P83881 RL36A 2_11; Q969Q0 RL36L 2_11
4895	GRVTLKQYPR	O60667 FAIM3 74_83
4896	RRNSVFQQGM	P05023 AT1A1 940_949; P13637 AT1A3 930_939; P50993 AT1A2 937_946
4897	RRLSESQLSF	Q96PK6 RBM14 615_624
4898	RLKQQTIPLK	Q96CS2 HAUS1 226_235
4899	RRYGEQPASY	Q53H80 AKIR2 192_201
4900	RVVERTITMK	O15382 BCAT2 312_321
4901	KVFDINLKEK	P41218 MNDA 250_259
4902	RRNAWGNLSY	A8MYZ6 FOXO6 84_93; O43524 FOXO3 153_162; Q12778 FOXO1 156_165
4903	KRLEEIPLIK	Q14152 EIF3A 702_711
4904	RRFGQTIQSF	Q7Z628 ARHG8 114_123
4905	KMYKPEVSMK	O60879 DIAP2 630_639
4906	RRADLTYAEF	Q96S16 JMJD8 117_126
4907	KVLQEQUIEK	Q8NDD1 CA131 212_221
4908	RVIYKPIVEK	Q56NI9 ESCO2 169_178
4909	KRGGEYNNSNM	P78316 NOP14 86_95
4910	RRFNSQSTSYY	Q7Z2W9 RM21 37_46
4911	KLREPNTFLK	Q92545 TM131 1007_1016
4912	VVDYRTRVLK	Q15121 PEA15 79_88
4913	KTLERSYLLK	P23921 RIR1 149_158
4914	KPIEPRRELL	Q96JZ2 HSH2D 112_121
4915	KRYGEDSEQF	O75787 REN1 224_233
4916	KLRQENMVLK	Q12772 SRBP2 386_395
4917	KVKYLPQQQK	Q9UKK3 PARP4 14_23
4918	KRWGPYNLNM	Q8NG31 CASC5 2247_2256
4919	KVYYPKYLSK	Q8NHP6 MSPD2 172_181
4920	ARYRGQYNTY	P61619 S61A1 270_279
4921	YRFATDRNDF	Q96B49 TOM6 32_41
4922	GRMHAPGKGL	P62277 RS13 2_11
4923	ARFGHGSAKL	Q9UG63 ABCF2 343_352
4924	GRFGRKGVAI	P60842 IF4A1 364_373; Q14240 IF4A2 365_374
4925	RRMGPPVGHH	P14866 HNRPL 343_352

4926	RRAGIKVTVA	Q99497 PARK7 27_36
4927	GRLGTSVRKT	Q9BSV6 SEN34 278_287
4928	GRGAFGHLRL	Q15345 LRC41 760_769
4929	RVLNKLGGVK	O00244 ATOX1 21_30
4930	AVRDGLRAVK	P40227 TCPZ 390_399
4931	RVKGPGISKF	P49961 ENTP1 85_94
4932	KVRAGRGFSL	P26373 RL13 69_78
4933	GRIHGSPLQK	O00566 MPP10 56_65
4934	GRHEVGALVR	Q96G21 IMP4 117_126
4935	GRIGQAIARR	Q9UBQ7 GRHPR 162_171
4936	GRDGRLRVGL	Q14160 SCRIB 1146_1155
4937	KTRDGLSVPK	Q8IYL3 CA174 134_143
4938	GRYSGRKAVI	P61353 RL27 16_25
4939	RLRGSLTAIK	Q99595 TI17A 47_56
4940	RPRPHSAPSL	Q5JXC2 MIIP 108_117
4941	ARSGKIPSRF	Q6IQ21 ZN770 317_326
4942	RRGPPPLPAQK	Q9BZR9 TRIM8 96_105
4943	RRLRAPGALL	Q9UID3 VPS51 377_386
4944	KPHSGFHVAF	Q8IYU8 MICU2 172_181
4945	GRLEKDGLLK	Q92574 TSC1 967_976
4946	HPSQTVRKAL	Q32MZ4 LRRF1 755_764
4947	HLPSRGITQK	Q92621 NU205 583_592
4948	RRLRPLAALA	Q9UMX5 NENF 8_17
4949	RPRKVQVAAL	Q9UDY2 ZO2 118_127
4950	GRYFGGRVVK	Q96I25 SPF45 374_383
4951	RRVKSIPGLL	Q8NF50 DOCK8 499_508
4952	RPKSSSPIRL	Q9Y2I7 FYV1 1709_1718
4953	RRLVGLASLR	P35914 HMGCL 10_19
4954	RVAPSLKSQR	P49257 LMAN1 81_90
4955	HVVGNISKK	Q9Y2F5 K0947 1936_1945
4956	RTRDVVKSL	Q5JTH9 RRP12 954_963
4957	APRNGFRSKL	Q92833 JARD2 765_774
4958	APRARHLQLS	O43542 XRCC3 229_238
4959	KIYEGAARKL	Q86X83 COMD2 42_51
4960	GRGRFGIMEK	Q9NWU5 RM22 154_163
4961	LPRGRKQLAL	O60759 CYTIP 52_61
4962	KRLQAPVGQR	Q9Y2Y4 ZBT32 194_203
4963	RPDVAKRLSL	O75815 BCAR3 282_291
4964	RPRSRTLTAV	P62081 RS7 116_125
4965	SPRKAIHSDF	O60303 K0556 83_92
4966	GRLPAGQRRF	Q8TCY9 URGCP 634_643
4967	ARWVAKSLVK	P31153 METK2 298_307; Q00266 METK1 298_307
4968	RRKSTITALL	Q96HU1 SGSM3 403_412
4969	IRFPRGTASR	P27448 MARK3 553_562
4970	RRSSLVITTK	Q13303 KCAB2 109_118; Q14722 KCAB1 161_170
4971	GRKPMRAAQF	Q92673 SORL 331_340
4972	TRLKLQGAKF	O43808 PM34 127_136

4973	RPDGEKKAYV	P62750 RL23A 129_138
4974	RVRQLGHALL	P26010 ITB7 170_179
4975	HRVVPHGQSF	P07384 CAN1 132_141
4976	ARLGLPLRLR	O75326 SEM7A 23_32
4977	RPSSKKTYSL	Q96Q89 KI20B 1701_1710
4978	RPRGRSLVII	Q9NZJ5 E2AK3 99_108
4979	RVRPLTKNAL	P15735 PHKG2 327_336
4980	KRLNVTPLAR	P24752 THIL 302_311
4981	RVRKLPSTTL	Q15418 KS6A1 726_735
4982	RSSSFKDFAK	O75995 SASH3 24_33
4983	GRNFRNPLAK	P06733 ENO4 425_434
4984	KPRAGTEIRF	Q9Y312 AAR2 199_208
4985	RSRFPIGSQK	Q2KHM9 K0753 391_400
4986	KRWAASPKSF	Q9Y490 TLN1 357_366; Q9Y4G6 TLN2 360_369
4987	ARLSSIKTRF	Q8IZL8 PELP1 97_106
4988	RPSLRQSHSL	Q2M1Z3 RHG31 946_955
4989	SRNPKVLPNR	Q9ULX3 NOB1 311_320
4990	RRALDIPLVK	Q6P2Q9 PRP8 419_428
4991	RRLLPSLIGR	O76021 RL1D1 162_171
4992	RPRGRLVQSL	P33076 C2TA 548_557
4993	RRKTPVIVTL	Q9Y4L1 HYOU1 65_74
4994	RVRQSPLATR	O75381 PEX14 40_49
4995	MPRKAHSNML	Q96BY7 ATG2B 1671_1680
4996	RRSSIPITVR	P33992 MCM5 602_611
4997	SRIQDLVARK	Q53GL0 PKHO1 306_315
4998	RPADKRSFIP	Q14137 BOP1 239_248
4999	RRLDTSSLKL	Q9NZN5 ARHGC 992_1001
5000	SRVSKKNIFL	P55265 DSRAD 1154_1163
5001	TRYKATGLHF	P46940 IQGA1 101_110
5002	KRYEKGDVSL	Q6PJ61 FBX46 535_544
5003	GRYLGKKVQF	P55199 ELL 153_162
5004	RPRRDIGTIL	Q504T8 MIDN 298_307
5005	RPRETRVIAV	P33076 C2TA 409_418
5006	SPSERPRQKL	Q32P44 EMAL3 161_170
5007	RPKTVRDTLL	Q7Z5L9 I2BP2 301_310
5008	ARLEKVHSLF	Q15020 SART3 242_251
5009	RRQIIGEISK	Q9ULR0 ISY1 46_55
5010	RAKPEDRESL	Q969V5 MUL1 289_298
5011	MRANITAIRR	P49368 TCPG 305_314
5012	SPRRSPRISF	Q96FF9 CDCA5 75_84
5013	RRILMGSTLR	P10644 KAP0 232_241; P31321 KAP1 232_241
5014	RRSSLLTEKL	Q7Z6Z7 HUWE1 3444_3453
5015	GRFSEPHARF	P17612 KAPCA 137_146; P22694 KAPCB 137_146
5016	RPKQEKAFLS	Q86UE4 LYRIC 481_490
5017	ATWATKELRK	Q14974 IMB1 862_871
5018	RRLGVQPSKY	Q9HAY2 MAGF1 194_203
5019	RRDVQKVVGF	P53992 SC24C 740_749

5020	GRFEGQVRQK	O00255 MEN1 450_459
5021	RLAGEERVFK	Q9NYF8 BCLF1 667_676
5022	KPRSSRLLTF	Q14139 UBE4A 451_460
5023	GRWPKKSAEF	P18621 RL17 81_90
5024	RPQLHKNTVL	Q14258 TRI25 60_69
5025	KPKRGDTYEL	Q9H0U3 MAGT1 147_156
5026	SRLKYPPFAK	Q8IV48 ERI1 246_255
5027	RPRDALPRL	Q86Y56 HEAT2 109_118
5028	GRLEWSPVHK	Q9UI12 VATH 362_371
5029	RTPEHLISQK	P51587 BRCA2 2034_2043
5030	RPAKPQRQDL	Q5TEJ8 THMS2 616_625
5031	GRDREPPVQR	Q9BW71 HIRP3 306_315
5032	KRVYLGALKY	Q6P2Q9 PRP8 85_94
5033	RPSLLLRRSL	P41250 SYG 27_36
5034	RLFDTPHPTPK	P30291 WEE1 183_192
5035	KPRSQIKNEI	Q8N766 EMC1 511_520
5036	RPRLTSNEKL	Q9Y296 TPPC4 100_109
5037	RRNGPLPLKY	P35226 BMI1 216_225; P35227 PCGF2 218_227
5038	KRNDYVHALV	Q99873 ANM1 266_275
5039	RPIRKGDIFL	P55072 TERA 144_153
5040	RRFGTVLTEH	O43598 DNPH1 47_56
5041	ARTDLRNIEK	Q92882 OSTF1 164_173
5042	RRAEWKATKL	Q9H2J4 PDCL3 78_87
5043	GRYKAPFHQL	O60264 SMCA5 926_935
5044	RQEGLPRTFK	Q00403 TF2B 169_178
5045	GRMKIETNRL	Q99683 M3K5 1246_1255
5046	KRFNADNKLL	Q9NRZ9 HELLS 371_380
5047	SRYRLPVATR	Q9Y4C2 F115A 470_479
5048	KVWSDPFGRK	Q8N5G0 SMI20 159_168
5049	ARIKLGDYHF	Q9UBV2 SE1L1 629_638
5050	RVSEVKPSYR	Q96QR8 PURB 246_255
5051	RVSKMRLSVF	Q63HN8 RN213 3580_3589
5052	HTELPRGDHY	Q13873 BMPR2 316_325
5053	RVRDIVPTLR	A1L0T0 ILVBL 181_190
5054	KRQGRTLYGF	P62805 H4 92_101
5055	RPDLKRSQSL	Q15916 ZBTB6 415_424
5056	RPRKDLVETL	Q9H040 SPRTN 100_109
5057	RPRRTDLTVL	P19388 RPAB1 52_61
5058	SRFTDKRVGY	O75843 AP1G2 78_87
5059	RVWDISGLRK	P53621 COPA 160_169
5060	YTDHGSDHHY	Q9Y580 RBM7 219_228
5061	SRLINGPYRR	Q96MN5 TEAN2 164_173
5062	KRLNMATLRM	Q08211 DHX9 943_952
5063	KRIEAIVKNY	P19404 NDUV2 61_70
5064	KRLEDTTARF	P55197 AF10 280_289
5065	APNQRRRLLL	Q9NNW5 WDR6 923_932
5066	SRFKDRIVSM	Q8N3U4 STAG2 369_378

5067	RRLITKPQNL	O60493 SNX3 9_18
5068	RRISKQLPQL	P42345 MTOR 2109_2118
5069	RPANHRQLTF	Q9UNM6 PSD13 284_293
5070	KPRHQEGEIF	Q02878 RL6 224_233
5071	KPSEERVREI	P31350 RIR2 283_292; Q7LG56 RIR2B 245_254
5072	KRFSVPVQHF	Q99829 CPNE1 190_199
5073	RRINLLVKSF	Q6I9Y2 THOC7 25_34
5074	SRLFPPAFRR	Q4ZIN3 MBRL 57_66
5075	RRVKATIEQF	Q99933 BAG1 276_285
5076	RPKKWSVVTF	Q9BUG6 ZSA5A 124_133
5077	SRLGLRYNRL	Q9UQ13 SHOC2 287_296
5078	IPFSKRKMEL	Q9UKK3 PARP4 1243_1252
5079	RPRTIPRENI	O14646 CHD1 1114_1123
5080	KTYEVSLREK	Q16531 DDB1 191_200
5081	KRFEELGVKF	Q04760 LGUL 140_149
5082	RPRRTILEVL	Q9UHB4 NDOR1 348_357
5083	SIRRGFQVYK	P08574 CY1 109_118
5084	SRMDEKFLTK	Q5VT06 CE350 1851_1860
5085	RRNVNLLEKL	Q8NEM7 SP20H 58_67
5086	RPRPNTFVIR	P31751 AKT2 67_76
5087	RRIEELLAEK	Q8TBC4 UBA3 12_21
5088	RRLDETVVNR	P40692 MLH1 9_18
5089	RRLEPAIQKF	P56962 STX17 11_20
5090	RRIILEAEKM	Q15382 RHEB 161_170
5091	RRKPFYPALI	O00746 NDKM 89_98
5092	RRSETVVERM	O15031 PLXB2 1391_1400
5093	KRFEQEINAK	O94804 STK10 596_605
5094	KPRSQRYESL	P47914 RL29 23_32
5095	RPRPDEERPL	Q86YV0 RASL3 799_808
5096	KRFKEANNFL	P18124 RL7 199_208
5097	GRMFQFNKL	Q13263 TIF1B 766_775
5098	SRFFDKVIEK	Q5HYI8 RABL3 197_206
5099	RRNGTLPWLR	P31153 METK2 168_177
5100	RVQKVRELEL	Q14764 MVP 761_770
5101	KRWQNEKLGL	P11912 CD79A 167_176
5102	RPRAAEVRFL	Q13438 OS9 186_195
5103	VTDNRYKSKY	Q9BTC0 DIDO1 716_725
5104	RPRLQHSFSF	Q07352 TISB 195_204
5105	ARFEQLISRR	Q9HCS7 SYF1 332_341
5106	YRNGQRLLEK	Q14204 DYHC1 1190_1199
5107	QRNRQVTFTK	Q02080 MEF2B 14_23
5108	RRYGLPYVVR	Q86Y97 SV422 394_403
5109	ARFDAYFHQK	P35790 CHKA 443_452
5110	RRISGVDRYY	O15239 NDUA1 52_61
5111	RPRDKQMELL	Q9BUP3 HTAI2 216_225
5112	RPSSWRQEKI	Q13526 PIN1 69_78
5113	IQYSNHRELK	O95758 PTBP3 128_137

5114	KLWDMNPQKQK	P53804 TTC3 1097_1106
5115	RRMEIQVKDL	P12270 TPR 487_496
5116	RPDDKRILEF	O60502 NCOAT 881_890
5117	RRLEMTNKQL	P19484 TFEB 303_312
5118	RRLQTQVFKL	P46781 RS9 108_117
5119	RRLDLLHQQL	Q16512 PKN1 82_91
5120	KVFQQHYTNK	O43683 BUB1 1056_1065
5121	RPDERRFAVF	Q8TEB1 DCA11 260_269
5122	RMFAPTKTWR	P36578 RL4 100_109
5123	RRYQKSTELL	P68431 H31 53_62; P84243 H33 53_62; Q16695 H31T 53_62; Q6NXT2 H3C 52_61; Q71DI3 H32 53_62
5124	KRFEIIKEAY	P14735 IDE 657_666
5125	ARFSEEKFHF	Q9NRL2 BAZ1A 934_943
5126	ARFYQSEIKR	Q460N5 PAR14 758_767
5127	RRLQYLSSKF	Q01433 AMPD2 377_386
5128	RRFPVWTISH	Q9H6V9 CB043 73_82
5129	RRLQVQERLT	P30793 GCH1 177_186
5130	RRQLIQUESKF	Q13123 RED 143_152
5131	KKEIHLYQTF	P31785 IL2RG 119_128
5132	RVYYVDHVEK	Q96J02 ITCH 341_350
5133	KIREYEQTLK	P39880 CUX1 145_154; Q13948 CASP 156_165
5134	RIYNMEMARK	P82921 RT21 62_71
5135	QRFTIDKYLK	O95163 ELP1 932_941
5136	HRTEMDWVLK	P52597 HNRPF 89_98
5137	LRWDDQQKVVK	P09874 PARP1 77_86
5138	RRAQLQYVQR	Q9P107 GMIP 214_223
5139	RMRLDTWTLK	Q14814 MEF2D 512_521
5140	RRMQEMIARM	Q15019 SEPT2 330_339
5141	RRYQDAIRVF	Q9Y262 EIF3L 327_336
5142	ARNKNIHYYF	Q9BYW2 SETD2 1597_1606
5143	TRFYTDNKKY	Q9GZL7 WDR12 6_15
5144	KRKEFLDYQL	Q7Z333 SETX 2082_2091
5145	RQYDKFLTHF	Q7Z6M2 FBX33 416_425
5146	KIYDREQTRY	P46940 IQGA1 94_103
5147	RPRPGTGLGR	Q9BVK6 TMED9 11_20
5148	GRAGRVRPGF	Q08211 DHX9 763_772
5149	GRYGRKGVAI	P38919 IF4A3 369_378
5150	RRRAVAVAAL	O43181 NDUS4 16_25
5151	RRTGSPLAAR	Q9BYX4 IFIH1 84_93
5152	HPRKGFPGL	Q8TEK3 DOT1L 1291_1300
5153	RRWAGIAKGV	Q5TDH0 DDI2 276_285
5154	RPRVSRASSV	O60667 FAIM3 187_196
5155	RRGAGLGWPR	Q68CR1 SE1L3 3_12
5156	RPRADTGHAF	Q9Y618 NCOR2 1958_1967
5157	IRDSRGRTGL	Q86W74 ANR46 40_49
5158	RRASRGPIAF	Q9UNF1 MAGD2 215_224
5159	PSADRHKSKL	P22314 UBA1 876_885

5160	RRKGPAVWGL	Q9Y2Z2 MTO1 116_125
5161	RPRARSVDAL	Q86X29 LSR 488_497
5162	VRQGGRRIGF	Q9BSD7 NTPCR 41_50
5163	RRTFPGVASR	Q9BWT1 CDCA7 161_170
5164	RRNGFGKNGF	Q9HC44 GPBL1 426_435
5165	RRAVGIWHCG	P61513 RL37A 49_58
5166	RRTETGRIGL	Q9P2I0 CPSF2 751_760
5167	SPRRSRSISL	Q16629 SRSF7 159_168
5168	RRYSATRAAL	Q6ZMZ3 SYNE3 376_385
5169	RRLQNAHTGL	Q53T59 H1BP3 11_20
5170	RRLSRDGGY	Q14761 PTCA 55_64
5171	RRGQFVAALR	Q6ZNJ1 NBEL2 2583_2592
5172	RRGAFNSKQL	Q12974 TP4A2 134_143; Q93096 TP4A1 137_146
5173	RRSASPYHGF	Q9NPI6 DCP1A 58_67
5174	RGYWGNKIGK	P15880 RS2 167_176
5175	GRIPKKLLQK	P42704 LPPRC 98_107
5176	RRWREPGVGA	Q5TAQ9 DCAF8 559_568
5177	RRLDIAGRDI	P61160 ARP2 180_189
5178	RRTRNIVTGL	Q9Y2R0 COA3 53_62
5179	RRGYIGVVNR	P50570 DYN2 228_237; Q05193 DYN1 228_237
5180	RRHALIVQGF	Q9Y5Q9 TF3C3 788_797
5181	FVLKHKAQK	Q9UNL2 SSRG 82_91
5182	KAKEPPFVRK	Q9UPT8 ZC3H4 1184_1193
5183	RRSLESVLSR	O00472 ELL2 280_289
5184	RVRKMSNAEL	Q96KC8 DNJC1 145_154
5185	RRFSGQPRS1	Q96K19 RN170 161_170
5186	GIYPHEPKHK	O00541 PESC 42_51
5187	APSHIRRIM	P61254 RL26 21_30
5188	KAIKEKILRNK	Q9UPY3 DICER 580_589
5189	RRLPARVQGY	Q8NI08 NCOA7 793_802
5190	RRADRVPISF	Q7Z392 TPC11 44_53
5191	RRAQRPTATY	Q6P087 RUSD3 162_171
5192	RRWKAGLYGL	P49327 FAS 38_47
5193	KLYLSRAKLK	Q96D31 CRCM1 78_87; Q96SN7 ORAI2 52_61
5194	RRSDPGHYSF	P28062 PSB8 26_35
5195	GRFGVERDRM	P14317 HCLS1 85_94
5196	GRLKGRNMQY	Q96FN9 DTD2 97_106
5197	RPRKAFLLLL	P13667 PDIA4 2_11
5198	GRKKNGEEYF	Q8WV28 BLNK 410_419
5199	HTRTPPIIHR	Q9BYP7 WNK3 265_274; Q9H4A3 WNK1 339_348; Q9Y3S1 WNK2 313_322
5200	HRNDYVAAER	Q99747 SNAG 206_215
5201	KRWQGGERSM	Q15424 SAFB1 847_856
5202	RRIVRMGESM	Q96RU3 FNBP1 222_231
5203	KRKGFNEGWL	O75475 PSIP1 73_82; Q7Z4V5 HDGR2 73_82; Q9Y3E1 HDGR3 77_86
5204	RRIQTRGEGY	Q02790 FKBP4 152_161
5205	RRFARSDELS	Q13118 KLF10 408_417
5206	RRITTGERTF	Q9Y6Q9 NCOA3 251_260

5207	KLKAWNDIKK	P36578 RL4 173_182
5208	RRKNSGLWSF	Q8N139 ABCA6 1123_1132
5209	RVLSERLLHK	Q96AZ6 ISG20 131_140
5210	RRATWLHQAL	Q13363 CTBP1 141_150
5211	RRWKPPAVNQ	Q14679 TTLL4 377_386
5212	KRFSQSSHLY	O15062 ZBTB5 648_657
5213	RPRPWRGNTL	P33897 ABCD1 6_15
5214	RRQTQAKYGF	Q92733 PRCC 482_491
5215	RRYGTRPTSY	Q9H9L7 AKIR1 181_190
5216	HRFYGKNSSY	Q13283 G3BP1 31_40
5217	RRSSNVSYKY	P11717 MPRI 2344_2353
5218	SRLQRERANM	Q9Y5L4 TIM13 86_95
5219	ILMEHIHKLK	P84098 RL19 137_146
5220	KRRELPEHLK	Q969G6 RIFK 128_137
5221	RRLYGNTPMR	Q14667 K0100 951_960
5222	RPWLEGRHTL	Q9UI10 EI2BD 364_373
5223	RRRGYAPLLY	Q495W5 FUT11 204_213
5224	RRFQDVKDGF	Q9C099 LRCC1 652_661
5225	GRRKGEQIYY	O95711 LY86 113_122
5226	KLFEKKYSVK	Q53T94 TAF1B 567_576
5227	LRVKELEVRK	O43674 NDUB5 149_158
5228	RRKDFVSEAY	Q7L576 CYFP1 148_157; Q96F07 CYFP2 148_157
5229	RRKTSDFNTF	Q9UHD1 CHRD1 196_205
5230	KTIDKKTFYK	Q15545 TAF7 78_87
5231	RVLDFDVKRK	Q7Z6Z7 HUWE1 3990_3999
5232	RIHENGYNFK	Q8TDX7 NEK7 207_216; Q9HC98 NEK6 218_227
5233	ARIKKIYEEK	Q00341 VIGLN 282_291
5234	RRWGPNVQRL	Q92833 JARD2 619_628
5235	ARWLVRPKEK	Q8IZV5 RDH10 23_32
5236	RRLQAQRNEL	P62195 PRS8 43_52
5237	RRLQAENREL	Q15834 CC85B 68_77
5238	RRREEEGIQL	O15131 IMA6 26_35; O60684 IMA7 29_38
5239	RRFKAQQDQL	Q9NRR5 UBQL4 43_52
5240	KRFHITENSY	Q8IYN0 ZN100 224_233
5241	RRMKVTNEDF	P62191 PRS4 410_419
5242	RRFKIGDQE	P46109 CRKL 69_78
5243	RRAIYQATYR	P28074 PSB5 216_225
5244	RRNSVRFLQQ	A6NI72 NCF1B 326_335; A8MVU1 NCF1C 301_310; P14598 NCF1 325_334
5245	KRKNNQIEQF	Q8N584 TT39C 419_428
5246	RRNSINFERL	P51959 CCNG1 173_182
5247	KRFLGNIDRW	O43920 NDUS5 8_17
5248	RRLEEQRATF	Q9Y4H4 GPSM3 75_84
5249	RPRARYVQV	Q14213 IL27B 194_203
5250	RPRSWRELPL	P26639 SYTC 423_432; Q9BW92 SYTM 419_428
5251	YSSYRSHDHY	Q5VV67 PPRC1 1518_1527
5252	RRYDSRTTIF	P25789 PSA4 3_12
5253	YRRKDGVFLY	P62829 RL23 88_97

5254	RRWEQELNAK	O43463 SUV91 129_138
5255	RRHEPYGQQY	Q8NFD5 ARI1B 1324_1333
5256	RRWDDDVVFK	Q9P013 CWC15 186_195
5257	RRKDFQYEAM	Q9UBB9 TFP11 739_748
5258	RPRKPWQQTF	Q8IVQ6 ZDH21 224_233
5259	RRLFEQNVQR	P61081 UBC12 157_166
5260	RLQEKRFIQK	Q8IZT6 ASPM 3154_3163
5261	YRDARSYNRF	P28070 PSB4 223_232
5262	QRFRSRLQNF	Q63HN8 RNP213 3819_3828
5263	RYYENYVAK	Q9H4P4 RNF41 269_278
5264	RRWDDSQKYL	Q16543 CDC37 166_175
5265	RRFDQQVEKY	Q9H816 DCR1B 519_528
5266	KRWKDQNIEY	Q8IYI8 ZN440 45_54
5267	YRNNDQRNRPY	Q92804 RBP56 583_592
5268	DTNADKQLSF	P06702 S10A9 67_76
5269	GRIHSKGIFK	Q6PI47 KCD18 179_188
5270	RPIGSRKVKL	Q9NTZ6 RBM12 920_929
5271	KRAALQALKR	Q96CF2 CHM4C 62_71; Q9H444 CHM4B 62_71
5272	RVKGLSFHPK	P53621 COPA 11_20
5273	IRNKIRAIKG	P16298 PP2BB 405_414; P48454 PP2BC 390_399; Q08209 PP2BA 396_405
5274	RPDKRKL GSL	Q8WU76 SCFD2 191_200
5275	SRIASLLHRK	Q99459 CDC5L 32_41
5276	RPRKTGHALF	O14682 ENC1 289_298
5277	ARLFGIRAKR	P26373 RL13 189_198
5278	KRFSGTVRLK	P62906 RL10A 47_56
5279	KRKSLRTTGF	Q4LE39 ARI4B 885_894
5280	RPRS KLPRAL	Q9Y5Q9 TF3C3 140_149
5281	ARKKGTHFN F	O00422 SAP18 80_89
5282	SRMRIAAHHM	A5YKK6 CNOT1 1435_1444
5283	KRLPDGLTRR	P33992 MCM5 363_372
5284	RRLEAALVKR	Q9UQ35 SRRM2 43_52
5285	KRHDLVKLGF	O60306 AQR 1045_1054
5286	RLAEKLRAQK	Q96CM3 RUSD4 45_54
5287	HRVQLKYAAK	A8MPP1 D11L8 149_158; Q92771 DDX12 168_177; Q96FC9 DDX11 149_158
5288	KRFLGRIVAR	P55042 RAD 279_288
5289	RRLGVYPTKK	Q96MG7 MAGG1 203_212
5290	RRLEV KPHAL	Q6DKI1 RL7L 70_79
5291	KRLGF KG VWK	Q00325 MPCP 304_313
5292	RRWRGFSTSA	Q96DV4 RM38 14_23
5293	KVFVGRFKSR	P11940 PABP1 167_176; Q13310 PABP4 167_176
5294	RRNALKEIVK	Q5VYV7 SLX4I 162_171
5295	ARHKIQAKYL	O43681 ASNA 294_303
5296	RRAFAQKISR	Q96N67 DOCK7 4_13
5297	RLFTSKHSMK	Q2QGD7 ZXDC 460_469
5298	ARLTQARRRL	P20591 MX1 648_657
5299	GRIRDIDLKR	Q13243 SRSF5 28_37
5300	RRIRVTIAR	Q15436 SC23A 492_501; Q15437 SC23B 494_503

5301	RIHTGEKLYK	B4DU55 ZN879 224_233; Q5HY98 ZN766 319_328; Q86Y25 Z354C 320_329
5302	KRFEGRLTKN	Q08945 SSRP1 296_305
5303	RLPSHWLKS	Q86U86 PB1 1647_1656
5304	KVQGKRFVYK	Q06546 GABPA 389_398
5305	RRVEELVAKR	Q9NWB6 ARGL1 132_141
5306	KRAKLREIEL	O15042 SR140 840_849
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5308	RRLKPGVQR	Q9UBQ7 GRHPR 170_179
5309	RRKEVESILK	Q12983 BNIP3 102_111
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5311	RIREGYLVKK	P08567 PLEK 5_14
5312	GRIYSKFHQK	Q6ZRQ5 MMS22 509_518
5313	RRTTHNIIEK	Q12772 SRBP2 331_340
5314	GRAFLKRKEY	Q9Y5A7 NUB1 243_252
5315	RPKRPLKEF	Q14689 DIP2A 282_291; Q9P265 DIP2B 286_295
5316	ERLKKTGKF	Q12802 AKP13 2091_2100
5317	RPRDTRRISL	Q92508 PIEZ1 1862_1871
5318	KRLDYVNHAR	O95149 SPN1 54_63
5319	KVRESHFLQK	O15037 KHYN 491_500
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5323	HLGDFHRTYK	Q92530 PSMF1 116_125
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5326	RRFTTSVVRR	P15954 COX7C 7_16
5327	RPRKEVKEEL	P46013 KI67 2607_2616
5328	RRKQFHVLLS	Q6I9Y2 THOC7 163_172
5329	HRFYGRNSSY	Q9UN86 G3BP2 31_40
5330	RRLQAKVEKY	Q9NQY0 BIN3 136_145
5331	RRIGDYKVY	Q15750 TAB1 241_250
5332	RTYDREGFKK	Q9NZJ9 NUDT4 10_19
5333	HRYTPKEQLK	P13995 MTDC 232_241; Q9H903 MTD2L 246_255
5334	RLREEVTKLR	P06734 FCER2 140_149
5335	RLNDRYPKKL	P23258 TBG1 156_165; Q9NRH3 TBG2 156_165
5336	FRYNGLIHRK	P46779 RL28 38_47
5337	KRVDIQNKRF	Q00577 PURA 64_73
5338	RRFQKTKNLL	O96005 CLPT1 203_212
5339	KRFEQKGFR	O60361 NDK8 11_20; P15531 NDKA 26_35; P22392 NDKB 26_35
5340	KRLDQVIRQR	Q7Z6B0 CCD91 404_413
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5344	RRAQLPKYQR	O43670 ZN207 375_384
5345	HRLEELYTKK	Q9UNM6 PSD13 23_32
5346	ARFYVYNKKK	P83111 LACTB 372_381
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5349	KMYEEHLKRM	P84090 ERH 34_43
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5352	SPSPINSSQAL	P49790 NU153 498_508
5353	QTDIQGALSAY	Q6PD62 CTR9 424_434
5354	LSEPEEAAALY	P13798 ACPH 7_17
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5356	STDGEVETQVY	P12270 TPR 1876_1886
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5358	ATEESDLAQGY	P07237 PDIA1 84_94
5359	QTETGTPYMLY	P23921 RIR1 397_407
5360	PAAGPAAAARL	O94925 GLSK 44_54
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5363	SVASAAAVLSH	P04844 RPN2 254_264
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5365	QSLAGGIIGVK	P61978 HNRPK 153_163
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5376	SPKPGTGE PV L	Q58WW2 DCAF6 467_477
5377	VLAPEGSVANK	Q13283 G3BP1 113_123
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5381	GLDKAGSTAL Y	Q92882 OSTF1 101_111
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5388	AAAEPKLF GGF	P12931 SRC 57_67
5389	APSPSSSRSS F	Q6PCB5 RSBNL 94_104
5390	SPVDPGARQAL	Q8TEU7 RPGF6 3_13
5391	GPRSAQVAQSQL	Q9NU22 MDN1 3358_3368
5392	APRGNVTSLSL	Q9NR96 TLR9 60_70
5393	LPAGVGTRSFL	P18627 LAG3 284_294
5394	APMGREGVTAM	Q5T2N8 ATD3C 207_217; Q5T9A4 ATD3B 382_392; Q9NVI7 ATD3A 430_440

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5396	SPANPAHILSL	Q9H967 WDR76 369_379
5397	VPAVTRAYTAA	Q96Q80 DERL3 13_23
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5400	AIAPPSSLVEK	Q96I25 SPF45 174_184
5401	APRTVALTALL	P04440 DPB1 9_19
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5403	APAPARPYQGV	Q16633 OBF1 12_22
5404	MPRQLSAAAAL	Q9UQV4 LAMP3 1_11
5405	MASIPLPDKAS	P00491 PNPH 279_289
5406	KPIAVGSMSSML	Q9UBT6 POLK 126_136
5407	VPKSLSSDSTL	Q9HAW4 CLSPN 715_725
5408	SASVQRADTS	O76080 ZFAN5 63_73
5409	QPSPARAPAE	Q13794 APR 11_21
5410	VPALPKSLISL	Q9NR96 TLR9 138_148
5411	APALARTLQL	Q96HA7 TONSL 1203_1213
5412	APEVAKSWAAL	Q96Q15 SMG1 1612_1622
5413	VVSEVDIAKAD	P20591 MX1 2_12
5414	GVIGQDGLLFK	Q9NQT5 EXOS3 191_201
5415	NPRQPLPASGL	Q96L08 SUSD3 231_241
5416	VTDGAILGKLY	Q8NEZ4 KMT2C 1500_1510
5417	SPRPNPTSSPL	P41229 KDM5C 1222_1232
5418	LPNQARAQAAL	O95758 PTBP3 141_151
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5421	VPRASVPDGFL	P14174 MIF 10_20
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5429	APRNAELTVI	O60566 BUB1B 784_794
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5433	SPLDSAARDEL	Q8NBJ5 GT251 612_622
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5436	VPMEIKPGISL	Q9NV88 INT9 527_537
5437	TPDSERPAQAL	Q86X10 RLGPB 734_744
5438	VPRSQGTEAEL	Q8NAG6 ANKL1 261_271
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5445	AQYSPQQLAGK	Q01581 HMCS1 358_368
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5447	SLYSVPEGQSK	Q9BUR5 APOO 41_51
5448	FLDASGAKLDY	Q7L1Q6 BZW1 53_63
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5460	APNNYRSPIST	Q15762 CD226 296_306
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5462	IPRVVQEGDVL	Q13608 PEX6 347_357
5463	VTESPAKFALY	Q86WH2 RASF3 134_144
5464	LPSNERAVQTL	Q9NR48 ASH1L 1650_1660
5465	ALMPQETQALK	Q8WYJ6 SEPT1 174_184
5466	SLFSPAFTAK	Q13077 TRAF1 290_300
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5468	TEAGLKELSEY	Q7L1Q6 BZW1 234_244
5469	IPYHSEVPVSL	Q01082 SPTB2 2247_2257
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5474	SVIDPSRITPY	Q9H257 CARD9 23_33
5475	APSDLRTIQT	Q9BUL5 PHF23 80_90
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5477	ELDPSNTKALY	Q08752 PPID 301_311
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5483	LSEVNRTGTQY	P50452 SPB8 74_84
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5486	STDVSDLLHQY	P28062 PSB8 261_271
5487	AKQDVVLNYPM	Q15029 U5S1 962_972
5488	VLDINSIDNL	Q53G44 IF44L 322_332

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5493	YTADGKEVLEY	Q9Y296 TPPC4 75_85
5494	QTYSTEPNNLK	P46779 RL28 23_33
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5514	TSDNGKDGLAY	Q9UM11 FZR 81_91
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5528	TPRDQQGPGTL	Q5JXC2 MIIP 265_275
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5530	ARLSAIYGGTY	P31150 GDIA 239_249; P50395 GDIB 239_249
5531	SPAVERLISSL	Q9BQ52 RNZ2 618_628
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5539	VYGIEGRYATA	P48047 ATPO 34_44
5540	RPYAPINANAI	O94776 MTA2 481_491
5541	SPNNPFSRVAL	Q9UNY4 TTF2 883_893
5542	DSLRALGVEQD	P20591 MX1 57_67; P20592 MX2 105_115
5543	ALADVMSQLKK	Q96GQ7 DDX27 100_110
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5545	AIYKTPPGIQK	Q6W2J9 BCOR 147_157
5546	SPSEARQDVLD	P46821 MAP1B 2072_2082
5547	QPRSPGPDYSI	Q99684 GFI1 17_27
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5549	RADPEAGLLY	P51530 DNA2 325_335
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5551	LPHGGEQWQQL	Q99640 PMYT1 305_315
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5553	QGYTQPGPGYR	Q92734 TFG 390_400
5554	HPISEEELSL	P14921 ETS1 189_199
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5556	RPAANPIQFTL	P23921 RIR1 742_752
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5558	KVLDTIMATKL	Q460N5 PAR14 278_288
5559	VSSSDDKDAFY	P11926 DCOR 31_41
5560	SPYGSDRLVQL	Q9Y2Y4 ZBT32 10_20
5561	GRFSSTTGLFY	P51817 PRKX 142_152
5562	STIPPELVKQK	Q9BVS4 RIOK2 494_504
5563	VVYSGLENIKK	Q9HBL8 NMRL1 109_119
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5572	RPFQDPDLSSL	Q8N5A5 ZGPAT 208_218
5573	QRDPNSPLYSV	Q9NUU7 DD19A 80_90; Q9UMR2 DD19B 81_91
5574	DSYSSSRSDLY	P38159 RBMX 325_335; Q96E39 RMXL1 325_335
5575	SSINPDHLSYF	Q9HCE7 SMUF1 479_489
5576	RIMDPDVITGY	P28340 DPOD1 386_396
5577	YPMIDLGGRNFL	Q9BUN8 DERL1 190_200
5578	KTDSDLQLY	Q01433 AMPD2 187_197
5579	APRWLEEEAAL	Q53GL7 PAR10 646_656
5580	TTDLFGRDLSY	P52597 HNRPF 256_266
5581	SSDTADFRDLY	P81408 F189B 500_510
5582	SPRLSQTFQLQ	Q92608 DOCK2 1780_1790

5583	YAYDGKDYLAL	P01889 B07 140_150; P01892 A02 140_150; P04222 C03 140_150; P05534 A24 140_150; P10316 A69 140_150; P18464 B51 140_150; P30447 A23 140_150; P30460 B08 140_150; P30479 B41 140_150; P30480 B42 140_150; P30486 B48 140_150; P30490 B52 140_150; P30498 B78 140_150; P30499 C01 140_150; Q04826 B40 140_150; Q31610 B81 140_150  P0CG47 UBB 49_59; P0CG48 UBC 49_59; P62979 RS27A 49_59; P62987 RL40 49_59
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5586	LTELLERAAFY	P48436 SOX9 442_452
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5589	YIDQGRNPQLY	Q9BTT4 MED10 70_80
5590	ATEVDSRWQHEY	Q9UPN3 MACF1 309_319
5591	ETEEDKFLLY	Q9NY93 DDX56 239_249
5592	FTENDKEYQEY	Q9BTL3 RAM 19_29
5593	APRAPRALAAA	P53007 TXTP 3_13
5594	GRIPGPGTPVK	Q9Y3P8 SIT1 137_147
5595	GRVGTIVGSNK	P09874 PARP1 590_600
5596	APSARRGTLAV	P41229 KDM5C 939_949
5597	RIAGQVAAANK	P39019 RS19 133_143
5598	SPASRQAAAKL	Q86YP4 P66A 340_350
5599	AASKERSGVSL	P10412 H14 49_59; P16402 H13 50_60; P16403 H12 49_59
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5603	KTLPAMLGTGK	Q7Z6A9 BTLA 2_12
5604	APRPASGPIRP	P26373 RL13 47_57
5605	RPSGLRLGTPA	P34896 GLYC 397_407
5606	APKGPSRESVV	Q96J88 ESIP1 47_57
5607	TPRSGVRGTPV	P33991 MCM4 102_112
5608	AVREGSLVNGK	Q9NV1 FACI 115_125
5609	SPMGRKQGGTL	O14920 IKKB 550_560
5610	SPKASSKLAIM	P35251 RFC1 312_322
5611	GPDHLRSASSL	Q9Y2L5 TPPC8 314_324
5612	SPRAPLQSSKA	Q3YBR2 TBRG1 10_20
5613	RPKSSQIGAVV	Q9NVS9 PNPO 161_171
5614	INAKSRAEAAL	Q969G3 SMCE1 143_153
5615	GRINVSGLTTK	P17174 AATC 386_396
5616	AKADGIVSKNF	P63220 RS21 73_83
5617	APGSARRPLLL	P11279 LAMP1 3_13
5618	VPNAGRGLVRL	P27695 APEX1 172_182
5619	RVQGTPVASKL	Q9UNQ2 DIM1 97_107
5620	TPSLIRAGSRV	P48201 AT5G3 10_20
5621	GPNPKSSRTTL	P17480 UBF1 661_671
5622	APRGKNGFTPL	Q9BSK4 FEM1A 529_539
5623	SPRGSTSPRTL	Q5TEU4 NDUF5 34_44
5624	TPRGTTKVVSI	Q14202 ZMYM3 1245_1255
5625	KPNGKVASVEM	P08243 ASNS 191_201

5626	AVYDRPGASPK	Q12769 NU160 1149_1159
5627	IPKKTTDTASV	Q9ULV4 COR1C 425_435
5628	KPSISSSVSRL	Q9C0D2 K1731 2519_2529
5629	SPSMKKAVSLI	Q9Y6G5 COMDA 12_22
5630	GRILSGVVTKM	P62280 RS11 70_80
5631	LSSKLSAVSLR	Q15036 SNX17 432_442
5632	ARSSVVTAVKF	Q86VP6 CAND1 981_991
5633	GRVPLDPLIGK	P53384 NUBP1 265_275
5634	GVYATRSSAVER	P08670 VIME 59_69
5635	KILGPQGNTIK	Q07666 KHDR1 175_185
5636	RLLPGNATISK	Q460N5 PAR14 858_868
5637	SPSVDKARAEL	Q9BY66 KDM5D 950_960
5638	RVLVNSASAQK	O75122 CLAP2 482_492
5639	SRFVPLPASAK	O15533 TPSN 94_104
5640	AIREAATSNLK	P30153 2AAA 457_467
5641	KVMAGSLLDK	Q7L576 CYFP1 715_725
5642	SPDPHKGLVLL	P57737 CORO7 775_785
5643	APRGQRPESAL	P28062 PSB8 9_19
5644	IPRDNKAAALL	O95273 CCDB1 165_175
5645	YAKDVKFGADA	P10809 CH60 26_36
5646	SPISSNSHRSL	Q9NR09 BIRC6 581_591
5647	KSFAESSSLTK	B7Z6K7 ZN814 807_817; Q9H707 ZN552 359_369
5648	SPRKDGGLVSL	P51570 GALK1 66_76
5649	RVLIGEGVLTK	Q9H8W4 PKHF2 34_44
5650	IRDQLSAVASK	Q9P000 COMD9 188_198
5651	LLDIQSSGRAK	B5ME19 EIFCL 634_644; Q99613 EIF3C 633_643
5652	TPRRSDSAISV	Q6Q0C0 TRAF7 82_92
5653	ITDRGGGSQHY	Q9NWH9 SLTM 937_947
5654	KPAANRAFVSM	Q14683 SMC1A 72_82
5655	IPQSPRHSSAL	O75716 STK16 255_265
5656	APRHPSTNSLL	Q9P032 NDUF4 30_40
5657	KSAPSDSLTYK	Q15042 RB3GP 449_459
5658	LPDSGHLHPLL	Q9Y285 SYFA 218_228
5659	VPRPAPYSKAL	Q15042 RB3GP 945_955
5660	SPRAPVSPLKF	Q9UBS0 KS6B2 417_427
5661	ALYHDHPDPSGK	Q9Y5L0 TNPO3 17_27
5662	RPQSKAPDSTL	O60291 MGRN1 445_455
5663	SPRQGNNSKNVL	P20393 NR1D1 405_415
5664	ARAALQELLSK	P62851 RS25 84_94
5665	SPSKTRGQIQV	P04183 KITH 13_23
5666	GRIGVWNNAVTK	Q8TBC3 SHKB1 307_317
5667	TPDTGRILSKL	A2A3N6 PIPSL 550_560; P55036 PSMD4 65_75
5668	SRISLADIAQK	O43242 PSMD3 415_425
5669	GIYVQDVKTGK	Q14764 MVP 387_397
5670	GLRPGPELIQK	Q9BXR0 TGT 78_88
5671	RPSNKAPLLVL	Q9H9B1 EHMT1 564_574
5672	RIYGESADAVK	P51114 FXR1 263_273

5673	VRLLLPGELAK	O60814 H2B1K 99_109; P06899 H2B1J 99_109; P23527 H2B1O 99_109; P33778 H2B1B 99_109; P57053 H2BFS 99_109; P58876 H2B1D 99_109; P62807 H2B1C 99_109; Q16778 H2B2E 99_109; Q5QNW6 H2B2F 99_109; Q8N257 H2B3B 99_109; Q93079 H2B1H 99_109; Q96A08 H2B1A 100_110; Q99877 H2B1N 99_109; Q99879 H2B1M 99_109; Q99880 H2B1L 99_109
5674	KTDSTGTHSLY	O43166 SI1L1 664_674; O60292 SI1L3 676_686; Q96FS4 SIPA1 386_396; Q9P2F8 SI1L2 660_670
5675	GPQNPDSRARL	Q9P2E5 CHPF2 51_61
5676	RPRGPSPLVTM	Q9Y2K2 SIK3 509_519
5677	KPSLNKNVNLL	O43303 CP110 292_302
5678	SPSSPSVRRQL	O75179 ANR17 1988_1998
5679	SPRTPVSPVKF	P23443 KS6B1 441_451
5680	RPKPSSSPVIF	Q15366 PCBP2 183_193
5681	RTLDEAVGVQK	Q14667 K0100 836_846
5682	RPSTPKSDSEL	Q14693 LPIN1 246_256
5683	ERSGVNSELVK	P35659 DEK 167_177
5684	KPKNPEFTSGL	P09913 IFIT2 168_178
5685	KLFDAPLSISK	A8K0Z3 WASH1 210_220; A8MWX3 WASH4 223_233; C4AMC7 WASH3 208_218; Q6VEQ5 WASH2 210_220; Q9NQA3 WASH6 192_202  A6NKT7 RGPD3 123_133; O14715 RGPD8 123_133; P0DJD0 RGPD1 114_124; P0DJD1 RGPD2 122_132; P49792 RBP2 123_133; Q7Z3J3 RGPD4 123_133; Q99666 RGPD5 123_133
5686	KLFPGSPAIIYK	Q6PJG6 BRAT1 582_592
5687	SPEHAEARQSL	Q9UPQ4 TRI35 65_75
5688	SPADLRTNHTL	Q9P2J3 KLHL9 335_345; Q9P2N7 KLH13 377_387
5689	APRYQHGIAVI	O60449 LY75 7_17
5690	TPRRPAGLML	Q14240 IF4A2 55_65
5691	KPSAIQQRAII	Q92619 HMHA1 940_950
5692	RPRPTEATVSL	P11940 PABP1 467_477; Q9H361 PABP3 461_471
5693	RPASSQVPRVM	P30566 PUR8 442_452
5694	HLLDPSSFTGR	P62244 RS15A 2_12
5695	VRMNVLADALK	Q9UQL6 HDAC5 716_726
5696	SRLQETGLLSK	P46779 RL28 72_82
5697	KPATSYVRTTI	Q9BSJ8 ESYT1 652_662
5698	HVLEAQDLIAK	Q9BXC9 BBS2 377_387
5699	IPANTRLHTTL	Q6ZS81 WDFY4 1007_1017
5700	SPRNLQPQRAA	P01591 IGJ 72_82
5701	ISDPTSPLRTR	Q01082 SPTB2 1939_1949
5702	KPRDVSSVELL	P78371 TCPB 109_119
5703	LLREAESLIAK	P11717 MPRI 554_564
5704	SPMKEKGNIQL	O75914 PAK3 114_124; Q13153 PAK1 104_114; Q13177 PAK2 103_113
5705	ARLLQTSNITK	Q29RF7 PDS5A 1065_1075
5706	SPDESKTNEKL	Q14807 KIF22 635_645
5707	ERVEGITGKQM	Q02790 FKBP4 383_393
5708	YPNNKAAKTQL	O95644 NFAC1 398_408
5709	KPKPLSPTSYM	Q92615 LAR4B 462_472
5710	TRIQNPSAYAK	P62341 SELT 32_42
5711	KMQYATGPLLK	P10644 KAP0 118_128
5712	IPKDYKTMAAL	O94842 TOX4 611_621
5713	SRNSNTVVVFVK	Q53GL7 PAR10 128_138
5714	SPRPDRALVQL	

5715	RPITPGTLRQL	Q9H3H3 CK068 108_118
5716	NPRKVVGQQDL	Q92609 TBCD5 126_136
5717	APRDAQLIKEL	O95571 ETHE1 58_68
5718	RPADPEKNQSL	Q9H8H0 NOL11 235_245
5719	LPNKQRTVVTW	P10398 ARAF 25_35
5720	KPGQAPRLIY	P01620 KV302 40_50; P01621 KV303 44_54; P01622 KV304 40_50; P01623 KV305 40_50; P04433 KV309 59_69; P04434 KV310 60_70; P18135 KV312 60_70; P18136 KV313 60_70
5721	VLRDNIQGITK	P62805 H4 22_32
5722	HPIQVQPGRL	P46019 KPB2 469_479
5723	KPNANRIALDF	P17931 LEG3 139_149
5724	KLAEVSQNIEK	Q96RU3 FNBP1 457_467
5725	SRLQETGLLNK	Q9UKV0 HDAC9 666_676
5726	KPRTPFTTAQL	P28360 MSX1 174_184
5727	KPFEQVKGITL	P33121 ACSL1 648_658
5728	SPSGRRVYQVL	Q19AV6 ZSWM7 59_69
5729	GRYDPSVKPPF	Q8N4Q0 ZADH2 84_94
5730	RFVNVVPTFGK	P62861 RS30 41_51
5731	LTPLHMSQSVR	Q7L273 KCTD9 379_389
5732	KTYTITEGSLR	P47992 XCL1 46_56; Q9UBD3 XCL2 46_56
5733	LPDLQRSKQAL	Q9UL45 BL1S6 61_71
5734	VPRSRYPLVAL	Q99675 CGRF1 166_176
5735	TPMPKDVRQSL	Q9NSV4 DIAP3 1082_1092
5736	RPNDSRMLVAL	Q9UJX2 CDC23 429_439
5737	KPNDSRALQLM	Q9NWX6 THG1 73_83
5738	LPSQSRNKETL	Q14966 ZN638 189_199
5739	VPRTAENFRAL	P49792 RBP2 3089_3099
5740	RLINTQAIFAK	P49366 DHYS 264_274
5741	RVQEAVESMVK	Q96C01 F136A 8_18
5742	SPRQLFKASN M	P50851 LRBA 2201_2211
5743	IPKDYKTMTAL	P31321 KAP1 118_128
5744	YAKDIGFIKLD	P62273 RS29 46_56
5745	RLMEQQGALLK	Q5BJF6 ODFP2 285_295
5746	RCLEEGKLVNK	P51970 NDUA8 55_65
5747	SRYEQVDLVGK	Q9BQ39 DDX50 343_353
5748	KQYGNEVFLAK	P50990 TCPQ 171_181
5749	GRIQVPFPTQR	Q9UKV5 AMFR 496_506
5750	ARNPSLKQQLF	P05496 AT5G1 98_108; P48201 AT5G3 104_114; Q06055 AT5G2 103_113
5751	SPRQNKY SVLL	O60762 DPM1 21_31
5752	QIYAIRQSISK	P62249 RS16 80_90
5753	KTDMVEKALLY	O94832 MYO1D 307_317
5754	TPRNTYKMTSL	P46013 KI67 844_854
5755	MPREVARDPQL	Q9H765 ASB8 226_236
5756	IIDVVRSGYYK	P46776 RL27A 100_110
5757	IQVYSRHPAEN	P61769 B2MG 27_37
5758	SPMHPYSRQTI	Q96TA2 YMEL1 450_460
5759	KLFNPPEESEK	Q9NRP2 COXM2 69_79

5760	LPYNNKDRDAL	Q05195 MAD1 34_44
5761	VTDRSDARLQY	Q96BI3 APH1A 59_69
5762	YQYPSSQPRAK	Q7Z7F0 K0907 595_605
5763	IPLRLPERMTTL	O95466 FMNL 791_801
5764	ARYFIDSTNLK	O00488 ZN593 67_77
5765	KPRQQQDLVAF	O60443 DFNA5 349_359
5766	RLLESQLSQSK	Q9Y4I1 MYO5A 1347_1357
5767	RIFDSPEELPK	P35658 NU214 26_36
5768	KMLEENTNILK	Q9NYL9 TMOD3 307_317
5769	SLYDSKIWTTK	Q9NUX5 POTE1 417_427
5770	VILRKNPNYDL	Q13200 PSMD2 898_908
5771	KTYQDIQNTIK	P24928 RPB1 697_707
5772	TVYPKPEEWPK	P19387 RPB3 195_205
5773	ASDKETYELRY	Q6P5R6 RL22L 98_108
5774	YLDQEKEKGKY	Q8WV92 MITD1 78_88
5775	FLYQQQGRLDK	P04233 HG2A 70_80
5776	ETEHEPTKMFY	Q86U86 PB1 1201_1211
5777	YTDSSYEEKKY	P09488 GSTM1 23_33; P28161 GSTM2 23_33; Q03013 GSTM4 23_33
5778	RPAALRGALLG	O00584 RNT2 2_12
5779	RPRAGASISTL	Q9UJW0 DCTN4 190_200
5780	RPSGLHGDVSL	Q9H6E5 STPAP 374_384
5781	LRGDPGLRGSL	Q9UJJ9 GNPTG 295_305
5782	RPRANSGGVDL	Q92766 RREB1 1162_1172
5783	LPRRAGDAAEL	Q9Y543 HES2 3_13
5784	SPADHRGYASL	Q06945 SOX4 354_364
5785	SPASRERSSSL	Q9C0J8 WDR33 1210_1220
5786	KRNGAQIADGF	P42696 RBM34 261_271
5787	RRATPATEAGF	Q12772 SRBP2 645_655
5788	RPRGTSGPLEL	Q8IZY2 ABCA7 209_219
5789	KLLDVVHPAAK	Q99832 TCPH 67_77
5790	GRLGSYVINGR	Q96KS0 EGLN2 269_279
5791	RLYLNGDGTGK	Q13077 TRAF1 308_318
5792	GRYLASGSFDK	Q9BZK7 TBL1R 454_464
5793	KRLSTPSASTY	O60238 BNI3L 209_219
5794	KTLDQAKAVLK	Q9H0A0 NAT10 256_266
5795	VVMAADRSLKK	Q9H0U9 TSYL1 113_123
5796	RRMSPATTGTF	O43556 SGCE 23_33
5797	GRVESVKILPK	Q96T58 MINT 30_40
5798	RPDDRSQGAI	Q04637 IF4G1 231_241
5799	GPRISRSQSEL	Q9H6E4 CC134 219_229
5800	ARYRSDGALLL	Q9BQA1 MEP50 34_44
5801	SPREGRPNQL	Q9BYK8 HELZ2 2268_2278
5802	GRFQKDISHGL	P17036 ZNF3 114_124
5803	RDGDILGKYVD	P61604 CH10 92_102
5804	QPRREEAVSAL	Q6RFH5 WDR74 38_48
5805	RTYQASSAAFR	Q92567 F168A 92_102
5806	RPDNADSRLTL	Q9Y2Z2 MTO1 502_512

5807	RQFADPGALQR	Q13105 ZBT17 509_519
5808	HPRDPNLLLSV	O75530 EED 199_209
5809	RPIFKDTQGSL	Q5JSL3 DOC11 532_542
5810	RRLPSDVVTGY	Q6PI98 IN80C 171_181
5811	GRWQGNDIVVK	Q13418 ILK 210_220
5812	RPQRVLDTSSL	Q8N122 RPTOR 846_856
5813	KLFSELPLAKK	Q9Y291 RT33 35_45
5814	LPRGLFRSESL	Q92974 ARHG2 636_646
5815	RVWDVESGSLK	Q9GZL7 WDR12 281_291
5816	NTDTSSERGRY	Q9NYL2 MLTK 663_673
5817	RVRMQGQEAVL	Q15393 SF3B3 703_713
5818	RRFVNVPPTFG	P62861 RS30 40_50
5819	RRISIVENCFG	Q9H8W4 PKHF2 13_23
5820	RPRDSNELVPL	P19878 NCF2 395_405
5821	RPAETNLRHTC	P15104 GLNA 107_117
5822	KRAFIITGQTY	P30566 PUR8 233_243
5823	ILRSQKPVMVK	P46779 RL28 117_127
5824	SRSQTSSFFTR	Q969K3 RNF34 167_177
5825	HSDLFSKDW	P61769 B2MG 71_81
5826	AVYQARPQLHK	Q14258 TRI25 55_65
5827	RRFLTQPQVVA	O43760 SNG2 18_28
5828	RPREQNQAIYL	Q95460 HMR1 326_336
5829	KPRLSYNDDVL	Q8ND25 ZNRF1 167_177
5830	APRDHSYEAEF	Q9UL17 TBX21 389_399
5831	TRKEELEGQSF	Q8NHV1 GIMA7 132_142
5832	ARRTAQEVEETY	P17844 DDX5 66_76
5833	RRVQELQQGAF	Q8TDD1 DDX54 856_866
5834	QPARFKNYAEL	O75122 CLAP2 1133_1143; Q7Z460 CLAP1 1377_1387
5835	KPRITYNEDVL	Q8NHG8 ZNRF2 182_192
5836	LRWIGDKEATY	P31350 RIR2 211_221
5837	ASRFTENDKEY	Q9BTL3 RAM 16_26
5838	SPRYVDRVTEF	Q96JB5 CK5P3 426_436
5839	KTELERAEGYY	P84103 SRSF3 23_33
5840	QPRDFFFRAQTL	P53355 DAPK1 1253_1263
5841	RVYSPPEWISR	Q9P1W9 PIM2 201_211
5842	NTDYLQRQALY	Q15154 PCM1 1414_1424
5843	YSEYPPFSHRY	Q96BY9 SARAF 204_214
5844	ETDEQRLRDEY	P18074 ERCC2 275_285
5845	RVAPRSGLAAK	P33316 DUT 169_179
5846	SRSGRGGNFGF	P22626 ROA2 199_209
5847	SRAGPLSGKKF	P17844 DDX5 24_34
5848	RLAKADGIVSK	P63220 RS21 71_81
5849	APRPSTGPHKL	P22090 RS4Y1 28_38; P62701 RS4X 28_38; Q8TD47 RS4Y2 28_38
5850	AVSKARAKVTM	P31751 AKT2 139_149
5851	GRVNLVSGHVK	P61962 DCAF7 157_167
5852	ARAEAIAKALVK	P47914 RL29 67_77
5853	RPTAGPAVHL	Q9Y2X0 MED16 421_431

5854	RRNVGANGIGY	Q8N6G5 CGAT2 99_109
5855	ARAALTGLLHR	P55084 ECHB 80_90
5856	KILPVGGIKEK	P36776 LONM 888_898
5857	NVSRAKAVRAL	E9PAV3 NACAM 2052_2062; O15069 NACAD 1536_1546; Q13765 NACA 189_199; Q9H009 NACA2 189_199
5858	GRADALRVLSK	Q9H665 IGFR1 336_346
5859	KLADFGLARAK	O94921 CDK14 271_281; Q00536 CDK16 301_311; Q00537 CDK17 328_338; Q07002 CDK18 278_288; Q96Q40 CDK15 239_249
5860	SQRPGAHLTVK	P09651 ROA1 95_105; Q32P51 RA1L2 95_105
5861	ARFTGAPLKvh	Q13505 MTX1 179_189
5862	RRWLGSAGLPS	Q8TDM0 BCAS4 150_160
5863	SRAKITSELAK	Q659C4 LAR1B 472_482
5864	RVAPAHLFLK	Q8N0Z8 PUSL1 270_280
5865	ARLVQGSILKK	P12004 PCNA 4_14
5866	ARIHPEGPPLK	Q9Y4R8 TELO2 415_425
5867	ARLPVEPHIGK	Q9H2U1 DHX36 694_704
5868	HPRISGKPILV	Q3SXY8 AR13B 117_127
5869	KMKEALLSIGK	Q96C01 F136A 128_138
5870	RLKAYASPAKL	Q8NB37 PDCC1 68_78
5871	RPGAERAIHV	Q96HA7 TONSL 346_356
5872	GRQQGSPKILEH	Q9BZG8 DPH1 298_308
5873	KRLESLGALTH	A3KN83 SBNO1 1011_1021; Q9Y2G9 SBNO2 871_881
5874	RLLNPSATRAK	Q9NZM5 GSCR2 171_181
5875	IIFDNKAHSGK	Q8IZK6 MCLN2 250_260
5876	SRSEAVALLKR	Q8TBB1 LNX1 570_580
5877	ARFSPKVSLPK	Q14669 TRIPC 264_274
5878	AVRTLNKVAMK	Q9UBF2 COPG2 307_317; Q9Y678 COPG1 307_317
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5880	RLFVGSIPIKSK	O60506 HNRPQ 244_254
5881	KPRSPPRALVL	Q86TG7 PEG10 249_259
5882	KTFKTVEPTGK	P10155 RO60 359_369
5883	RTFQPPATGHK	P57764 GSDMD 238_248
5884	APDKHHITPLL	P58546 MTPN 63_73
5885	KLFKPGQEAVK	Q8NBS9 TXND5 140_150
5886	GLFQGKTPLRK	Q9ULW0 TPX2 53_63
5887	ALRKNGFVVLK	P63241 IF5A1 24_34; Q6IS14 IF5AL 24_34; Q9GZV4 IF5A2 24_34
5888	TRLPKGAVLYK	Q9P0M9 RM27 118_128
5889	SPRGNLPLRKL	P27987 IP3KB 588_598
5890	RIFAPNHVVAK	Q02543 RL18A 31_41
5891	SPKKPGREIEL	Q15813 TBCE 495_505
5892	RLKDIGPEVVK	P51659 DHB4 634_644
5893	VRSLRQSTIAK	Q92576 PHF3 138_148
5894	RLFVGSIPIKNK	O43390 HNRPR 247_257
5895	KTYIPPKGETK	B2RPK0 HGB1A 76_86; P09429 HMGB1 76_86
5896	GRLPVPKEVNR	Q16612 NREP 28_38
5897	KPRQAPVTRVL	Q96GQ7 DDX27 283_293
5898	VRLTQTVAHLK	P05161 ISG15 98_108
5899	GRLQDPQKVVAR	Q9BX95 SGPP1 12_22

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5903	KVLGQGKWNLK	O95067 CCNB2 318_328
5904	KTYHALSNLPK	O00231 PSD11 175_185
5905	VPRKSPKYLAL	Q7Z3K3 POGZ 795_805
5906	AVADKVHMLYK	Q14258 TRI25 592_602
5907	QPVDPKRHGQL	O15195 VILL 404_414
5908	ATYINLK PARK	Q9H467 CUED2 273_283
5909	TVFDAKRLIGR	P08107 HSP71 66_76; P11021 GRP78 91_101; P11142 HSP7C 66_76; P17066 HSP76 68_78; P34931 HS71L 68_78; P48741 HSP77 68_78  A6NKT7 RGPD3 1449_1459; O14715 RGPD8 1448_1458; P0DJ0 RGPD1 1433_1443; P0DJ1 RGPD2 1441_1451; P49792 RBP2 2424_2434; Q7Z3J3 RGPD4 1449_1459; Q99666 RGPD5 1448_1458
5910	KLQDVADSFKK	Q9H0H3 KLH25 519_529
5911	TRIGDMTAKRM	O43399 TPD54 165_175
5912	KSFEDRVGTIK	O75995 SASH3 19_29
5913	KLSLQRSSSFK	Q9UN86 G3BP2 54_64
5914	AVYGQNDIHHK	Q7Z392 TPC11 54_64
5915	KVLPGDHEYPK	Q8TDN4 CABL1 412_422
5916	RRNTIDSTSSF	Q05048 CSTF1 198_208
5917	KLFDYSKPSAK	P40925 MDHC 192_202
5918	YPDVNHAKVKL	P49848 TAF6 46_56
5919	RIKEIAQDALK	Q12979 ABR 238_248
5920	KPIDRVTRSTL	P50990 TCPQ 466_476
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5922	KLKDDEVAQLK	Q9Y2Q0 AT8A1 1101_1111
5923	KSLTERAQLLK	O60306 AQR 660_670
5924	KPKENNFKAVL	P30153 2AAA 536_546; P30154 2AAB 548_558
5925	VRFNVAKSLQK	Q99439 CNN2 229_239
5926	HIYDTKLGTDK	P46781 RS9 30_40
5927	KLIGEYGLRNK	Q8WU90 ZC3HF 22_32
5928	KIIEDKTFGLK	Q96CS2 HAUS1 225_235
5929	ARLKQQTIPLK	Q86W50 MET16 307_317
5930	KPRKPITFVVL	Q92925 SMRD2 139_149
5931	KMADKVLQPRI	Q99471 PFD5 94_104
5932	KTAEDA KDFFK	Q04637 IF4G1 1062_1072
5933	RPI DTSRLTKI	Q9NV88 INT9 500_510
5934	RRAEV LALPFK	Q9Y520 PRC2C 1140_1150
5935	KVIS KDLVIER	Q8NDZ2 SIMC1 791_801
5936	SVIDRKDLIIK	Q14191 WRN 1189_1199
5937	KMRPTT VENVK	P62277 RS13 63_73
5938	VRFVTGNKILR	Q15435 PP1R7 168_178
5939	KLFLVNNKISK	P49327 FAS 2426_2436
5940	KLRAAEQYTPK	P62280 RS11 137_147
5941	TVRFNVLKVTK	Q9Y485 DMXL1 771_781
5942	RLYE AVIDAKK	O75534 CSDE1 747_757
5943	APRPDR LVNRL	Q96CV9 OPTN 395_405
5944	KLLQEHNNA LK	

5945	IRVPSEVVVKQR	Q70HW3 SAMC 105_115
5946	ITDPHSPSRFR	P42892 ECE1 728_738
5947	KSQEMVHLVNK	P16070 CD44 705_715
5948	RIRELTAVVQK	P23396 RS3 65_75
5949	KLQEAESNLRK	Q92619 HMHA1 394_404
5950	ARLRMVDVVEK	P33993 MCM7 617_627
5951	FVQELRKRGSP	P50552 VASP 370_380
5952	KILDTERMLAK	Q05048 CSTF1 133_143
5953	ARKLPEKTQTF	Q96SY0 VWA9 423_433
5954	KVYEGERPLTK	P11021 GRP78 464_474
5955	SIYRPSKNLDK	Q13573 SNW1 446_456
5956	KLYASHSQFIK	Q9BW91 NUDT9 319_329
5957	RPIKTEMAHQL	Q96JJ3 ELMO2 276_286
5958	VVRKDYDTLSK	Q9UHR4 BI2L1 269_279
5959	KLLHSENYVTK	Q9Y376 CAB39 216_226
5960	LPMPTKRRSTF	Q9P265 DIP2B 121_131
5961	KVYYFSKGTLK	P27694 RFA1 253_263
5962	KSMETKVQFLK	Q15782 CH3L2 340_350
5963	KLLEGEEERLK	P20700 LMNB1 379_389; Q03252 LMNB2 373_383
5964	KLISEEDLLRK	P01106 MYC 412_422
5965	KTLDIEIQEKK	P21127 CD11B 11_21; Q9UQ88 CD11A 11_21
5966	KVLSIDQRNFK	Q8IWT0 ARCH 112_122
5967	RTQMPDPKTFK	Q9Y5V0 ZN706 45_55
5968	KSFEEKVENLK	P55327 TPD52 175_185
5969	NRFIQVHPITK	Q9NTZ6 RBM12 497_507
5970	KPSEERVREII	P31350 RIR2 283_293; Q7LG56 RIR2B 245_255
5971	RTLNPQMLQKK	Q9NVU7 SDA1 440_450
5972	KLQTKEFQVLK	P15907 SIAT1 39_49
5973	RSYPVTEQRVK	Q8IYA6 CKP2L 319_329
5974	YPMMPADQRRHV	Q9C0C7 AMRA1 999_1009
5975	HTLDSYRILQK	Q92466 DDB2 96_106
5976	RVYLTQLKQK	Q9UNY4 TTF2 414_424
5977	RVITEEEKNFK	P26373 RL13 167_177
5978	RMYSQLKTLQK	Q6XZF7 DNMBP 463_473
5979	KLAQIRQQQYK	Q9Y490 TLN1 2521_2531; Q9Y4G6 TLN2 2521_2531
5980	FTERSKLIDHY	Q6NUN9 ZN746 547_557
5981	IRYYNKVPVEK	P11387 TOP1 535_545
5982	GRFLKGFFAK	P53350 PLK1 56_66
5983	RRSAVPPGADK	P46783 RS10 128_138
5984	LLAGLVSSLCR	P14679 TYRO 491_501
5985	GRSSTASLVKR	O15213 WDR46 558_568
5986	SPSHTHGLSHL	Q11130 FUT7 123_133
5987	SRIALKSGYGK	Q14331 FRG1 105_115; Q9BZ01 FRG1B 38_48
5988	RIAGEASRLAH	O60814 H2B1K 73_83; P06899 H2B1J 73_83; P23527 H2B1O 73_83; P33778 H2B1B 73_83; P58876 H2B1D 73_83; P62807 H2B1C 73_83; Q16778 H2B2E 73_83; Q5QNW6 H2B2F 73_83; Q6DN03 H2B2C 73_83; Q6DRA6 H2B2D 73_83; Q93079 H2B1H 73_83; Q99877 H2B1N 73_83; Q99879 H2B1M 73_83

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5993	GRFQGRAAVIK	Q96S44 PRPK 50_60
5994	RVKDPNSGLPK	Q9UJU6 DBNL 68_78
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5996	RRAASSLTIDK	Q16633 OBF1 224_234
5997	GRKGVSHGQFF	P26572 MGAT1 315_325
5998	LPRGSRAHITL	P09543 CN37 323_333
5999	SPGKERHLNAL	O60287 NPA1P 1143_1153
6000	LPSSTGRRHTL	P57059 SIK1 464_474
6001	RRSILGTPLSK	Q9NXD2 MTMRA 749_759
6002	RMKLPSSVGQK	Q9NPF5 DMAP1 326_336
6003	RRLKGSGVTYY	Q8TC12 RDH11 218_228
6004	RRIPAEGRVAL	Q9UBQ7 GRHPR 13_23
6005	RPASRGVTQLR	Q5M775 CYTSB 875_885
6006	KVIDGERVIGR	Q9BV99 LRC61 158_168
6007	GMLARGTYHNK	P52566 GDIR2 165_175
6008	RRTGSPAARY	Q9BYX4 IFIH1 84_94
6009	QPRRPRNLAAA	Q00325 MPCP 39_49
6010	QRNKAAALLRL	P13051 UNG 75_85
6011	RRMGNPALSVR	Q96Q05 TPPC9 472_482
6012	RRTGPPMGSRF	Q15056 IF4H 174_184
6013	RPDGSKSKLYI	Q5PSV4 BRM1L 300_310
6014	RRLLDLVHTAAL	O75643 U520 952_962
6015	HPSVSRYHAVL	Q9BWU0 NADAP 203_213
6016	SIYDSKRQSGK	P55265 DSRAD 1110_1120
6017	VPRGVRKESQL	Q8N103 TAGAP 539_549
6018	RRLPADHVSGY	Q9P2P5 HECW2 305_315
6019	RPDSLRLGKTEL	Q9BYW2 SETD2 1225_1235
6020	KSFKLSGFSFK	P29966 MARCS 162_172
6021	KRIGKDLSNTF	Q13190 STX5 99_109
6022	KPRSFKSTDTL	Q9Y4A0 JERKL 233_243
6023	GTSDRFSRILK	Q14181 DPOA2 490_500
6024	RPKLQHSTSIL	Q6DN90 IQEC1 81_91
6025	GRFTISRDNSK	P01764 HV303 85_95; P01771 HV310 66_76; P01772 HV311 66_76
6026	ARFKSNVTKTM	Q9Y255 PRLD1 149_159
6027	RSMEAHLNILSK	Q9NP77 SSU72 18_28
6028	KRNDYVHALVA	Q99873 ANM1 266_276
6029	RRGIEDIIIVSK	Q9BZJ0 CRNL1 465_475
6030	RRLTLADALEK	Q12894 IFRD2 179_189
6031	RPQSIHQRGVL	Q14667 K0100 455_465
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6033	APRFHQAESHL	Q6N021 TET2 569_579
6034	SPSQPHRRMSL	O95479 G6PE 721_731
6035	RRAYPAQITPK	Q9NX74 DUS2L 361_371

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6037	RTRDYASLPPK	Q6XZF7 DNMBP 452_462
6038	RPRDALPRLLP	Q86Y56 HEAT2 109_119
6039	ARKEELTGVRF	O60287 NPA1P 25_35
6040	ARSARQSVLRY	Q8IVF7 FMNL3 193_203
6041	RPHVSTKEQIL	O15535 ZSC9 82_92
6042	RRLLWASPPGR	Q14761 PTCA 79_89
6043	RPRETRVIAVL	P33076 C2TA 409_419
6044	KRIQDIVGILR	P46087 NOP2 241_251
6045	KRFKVSDEVGF	Q6VY07 PACS1 339_349
6046	GTIRSRSFIKF	Q9UN19 DAPP1 270_280
6047	RRGDLPFVVPR	P35579 MYH9 1922_1932
6048	HPAHERVLQDL	P53618 COPB 311_321
6049	GRLAHEVGWKY	P40429 RL13A 139_149
6050	MRAQGNVYHLK	P61968 LMO4 101_111
6051	RRYPEGGQILK	Q9NZJ4 SACS 105_115
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6053	ARMYIEAGNHR	P09914 IFIT1 347_357
6054	GRIDRDSYSPR	Q99590 SCAFB 955_965
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6056	RRLPNLPSQSR	Q14966 ZN638 184_194
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6058	RRSKGIAVYEF	Q14498 RBM39 191_201; Q86U06 RBM23 204_214
6059	RRDLAQALINR	P46087 NOP2 321_331
6060	RTTGYLKGYTL	Q9Y5S9 RBM8A 108_118
6061	RRVSNIQNVNK	Q8IZT6 ASPM 167_177
6062	RLRDGQLVSQR	Q96KS0 EGLN2 218_228
6063	LRWDETPGRAK	O75533 SF3B1 230_240
6064	RPIGEFSRTHM	P30825 CTR1 142_152
6065	KPRHITPFTSF	P42345 MTOR 309_319
6066	RTWAGKEELLK	Q5VYK3 ECM29 1580_1590
6067	RPKDSQRNSPF	Q86W92 LIPB1 563_573
6068	QRFDARQKIGL	Q9BY77 PDIP3 52_62
6069	RIRNISNTVMK	Q0VDF9 HSP7E 56_66
6070	KRFNADNKLLL	Q9NRZ9 HELLS 371_381
6071	GRLSKEDIERM	P11142 HSP7C 508_518
6072	RTLSKDDVNYK	P48651 PTSS1 8_18
6073	RQYAKDIGFIK	P62273 RS29 44_54
6074	RVADRLYGVYK	O95219 SNX4 243_253
6075	ARFSPDDKYSR	Q9NPE3 NOP10 33_43
6076	SLYRGDIARYK	Q9H7Z3 NRDE2 178_188
6077	ARFDPYGKNKF	Q9P021 CRIP1 45_55
6078	RVYDPASPQRR	Q6RFH5 WDR74 208_218
6079	APRHVDRSDFF	P51003 PAPOA 120_130
6080	RRLKIISENSM	Q9BYW2 SETD2 1879_1889
6081	GRFKEPHAVFY	P05771 KPCB 436_446
6082	RRNSVFQQGMK	P05023 AT1A1 940_950; P13637 AT1A3 930_940; P50993 AT1A2 937_947

6083	ARFNDLRFVGR	Q01196 RUNX1 129_139; Q13761 RUNX3 133_143; Q13950 RUNX2 180_190
6084	RRFVEVGRVAY	P50914 RL14 4_14
6085	SRFLKSDLFLK	O43665 RGS10 136_146
6086	RLRELTSIVNR	Q92698 RAD54 380_390
6087	APDEKRSNVRW	O95232 LC7L3 19_29
6088	RRLVPDSDVRF	P19367 HXK1 432_442
6089	RPRKYPVETTL	Q8NFC6 BD1L1 2877_2887
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6091	KRNEFLGELQK	Q14141 SEPT6 327_337; Q9NVA2 SEP11 326_336
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6093	RRYPGSDRIML	Q6ZS81 WDFY4 2529_2539
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6095	RPREGSRFLVF	Q12774 ARHG5 1430_1440
6096	RRFIPTSIFVK	Q7Z392 TPC11 1109_1119
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6098	KRYEDQELTGK	Q9UIG0 BAZ1B 578_588
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6100	SRLNHPEVYVR	Q96Q15 SMG1 1828_1838
6101	RVWDVRPFAPK	Q96DI7 SNR40 260_270
6102	APQQLRWQAHL	Q96HU1 SGSM3 71_81
6103	RRM TLTD SIER	O00458 IFRD1 122_132
6104	RVYEVRETAVR	O60308 CE104 621_631
6105	RTFT HPSRL TY	Q8TD17 ZN398 405_415
6106	RFA VRDMR QTV	P68104 EF1A1 423_433; Q05639 EF1A2 423_433; Q5VTE0 EF1A3 423_433
6107	RRYLENGKETL	P01891 1A68 193_203; P01892 1A02 193_203; P01893 HLAH 193_203; P03989 1B27 193_203; P04439 1A03 193_203; P05534 1A24 193_203; P10314 1A32 193_203; P10316 1A69 193_203; P10319 1B58 193_203; P10321 1C07 193_203; P13746 1A11 193_203; P16188 1A30 193_203; P16189 1A31 193_203; P18462 1A25 193_203; P18463 1B37 193_203; P18465 1B57 193_203; P30443 1A01 193_203; P30447 1A23 193_203; P30450 1A26 193_203; P30453 1A34 193_203; P30455 1A36 193_203; P30456 1A43 193_203; P30457 1A66 193_203; P30459 1A74 193_203; P30461 1B13 193_203; P30464 1B15 193_203; P30475 1B39 193_203; P30481 1B44 193_203; P30483 1B45 193_203; P30484 1B46 193_203; P30485 1B47 193_203; P30487 1B49 193_203; P30488 1B50 193_203; P30491 1B53 193_203; P30492 1B54 193_203; P30493 1B55 193_203; P30495 1B56 193_203; P30504 1C04 193_203; P30508 1C12 193_203; P30510 1C14 193_203; P30511 HLAF 190_200; P30512 1A29 193_203; P30685 1B35 193_203; Q04826 1B40 193_203; Q07000 1C15 193_203; Q09160 1A80 193_203; Q29718 1B82 193_203; Q29836 1B67 193_203; Q29865 1C18 193_203; Q29940 1B59 193_203; Q29960 1C16 193_203; Q29963 1C06 193_203; Q95365 1B38 193_203
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6109	RIRQNEINNPK	Q15459 SF3A1 70_80
6110	RPDW TRDSTHL	P18887 XRCC1 350_360
6111	RRLAEDEAFQR	Q15149 PLEC 2004_2014
6112	RMREAEDMVQK	Q9Y6D9 MD1L1 434_444
6113	RRAPFDLFENK	P08238 HS90B 337_347; Q58FF7 H90B3 279_289
6114	FRFERPDGS HF	Q9Y2S7 PDIP2 334_344
6115	HRFFF TANQVK	Q9BQ65 USB1 149_159
6116	RRFFMGNQVLK	P13010 XRCC5 353_363

6117	KRFDSEQVTVK	Q8WYQ5 DGCR8 446_456
6118	RRYLQKGYTTL	Q92902 HPS1 590_600
6119	RRIFQEPTEPK	P31350 RIR2 49_59
6120	YRIGQSKVFFR	P35579 MYH9 754_764
6121	ERLKQIEEQTK	P26038 MOES 349_359
6122	RLDQSRTWLVK	Q96GW9 SYMM 579_589
6123	TRFQTKYFQGK	O95985 TOP3B 193_203
6124	ARYDFSHEILR	Q9BT30 ALKB7 171_181
6125	RRYQKSTELLI	P68431 H31 53_63; P84243 H33 53_63; Q16695 H31T 53_63; Q6NXT2 H3C 52_62; Q71DI3 H32 53_63
6126	RPREQDRDVQL	Q86TN4 TRPT1 21_31
6127	RRNPDTQWITK	P61313 RL15 143_153
6128	RRFDLQNPSRM	Q92922 SMRC1 135_145
6129	RRLQIEDFEAR	Q9P0J0 NDUAD 58_68
6130	RRFIEEQLTNK	P78312 F193A 166_176
6131	RRFVNQLNTKY	Q9P0N9 TBCD7 156_166
6132	SRFRQQRPLEF	Q15773 MLF2 201_211
6133	SRYQQFKDFQR	O00148 DX39A 327_337; Q13838 DX39B 328_338
6134	YRYYNKYINVK	P56134 ATPK 49_59
6135	HPHSGSGRSVL	Q12772 SRBP2 512_522
6136	RRLESSGAGGR	Q15773 MLF2 212_222
6137	RRLSEVRGGGL	Q96BD8 SKA1 239_249
6138	KRFDNRGGGF	Q9BUJ2 HNRL1 607_617
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6140	IPSADRHKSKL	P22314 UBA1 875_885
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6142	AREGNVKVLRK	Q9Y575 ASB3 18_28
6143	GRTRETSIVKK	C9J798 RAS4B 164_174; O43374 RASL2 164_174
6144	RRTYVG SMPGR	Q86WA8 LONP2 414_424
6145	WSHPRKFGQQGS	P62273 RS29 8_18
6146	IPKKVRKEALL	Q86TI2 DPP9 91_101
6147	RPKQPDKEGKL	Q9BVI0 PHF20 190_200
6148	SPSLRKHTRL	Q9NYF8 BCLF1 658_668
6149	KLIKDGIIIRK	P84098 RL19 43_53
6150	KIREANKLAEK	O00541 PESC 558_568
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6152	ARLEDKVKTLP	P17275 JUNB 294_304
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6154	ARIGDLDDKKY	O95166 GBRAP 39_49
6155	TVYKFAKDHAK	Q8TEH3 DEN1A 429_439
6156	RRLSYNTASNK	P49207 RL34 9_19
6157	SRMKKEASVKF	Q14839 CHD4 835_845
6158	ERFGLGHQLKK	Q8N3A8 PARP8 236_246
6159	KRKEELAEALK	P33991 MCM4 796_806
6160	RVDFSKVPKLK	P24752 THIL 258_268
6161	RLFGLTKPKEK	Q12802 AKP13 2772_2782
6162	MPSSHRLHKL	Q96RQ9 OXLA 117_127

6163	SIYHSHHPTLK	O60313 OPA1 39_49
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6165	KTDSKSIMRMK	Q12802 AKP13 2207_2217
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6167	RVLIDSVLRKK	Q7Z478 DHX29 1333_1343
6168	KRVQLAEDLKK	O60313 OPA1 931_941
6169	RRQIIGEISKK	Q9ULR0 ISY1 46_56
6170	AVYGQKEIHRK	Q13283 G3BP1 54_64
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6172	RRLSRDGGYY	Q14761 PTCA 55_65
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6175	KRFEAAKEDLK	Q6VMQ6 MCAF1 651_661
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6177	QRIEHЛИGKKL	Q9H0S4 DDX47 376_386
6178	RRSGYSAKYTF	Q13459 MYO9B 885_895
6179	RRFRFPSGAEL	Q8IU68 TMC8 716_726
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6183	ARNKEIVHTFK	Q8NI36 WDR36 149_159
6184	VLDPKSKWRSK	Q9BWS9 CHID1 284_294
6185	RLVTPRVLQHK	P62753 RS6 178_188
6186	RVYAENAIRKK	Q9HD42 CHM1A 46_56
6187	KLYTKHGTLKY	P69849 NOMO3 57_67; Q15155 NOMO1 57_67; Q5JPE7 NOMO2 57_67
6188	RRLDKDSGFTY	Q9NRH2 SNRK 552_562
6189	KLDVSNELRRK	P28749 RBL1 809_819
6190	SLENHRIKSFK	O00505 IMA4 6_16
6191	KTIDMELVKRK	P01137 TGFB1 34_44
6192	KPQDYKKRLSV	P35222 CTNB1 666_676
6193	RPRQLQLKPRTV	Q15056 IF4H 208_218
6194	RRYFGGGTEDRL	Q16658 FSCN1 109_119
6195	AIRRLKELKDQ	A6NKH3 RL37L 83_93; P61513 RL37A 82_92
6196	KLSTFRESFKK	P23497 SP100 387_397
6197	KRMEIQEAIKK	Q92925 SMRD2 176_186
6198	RRWKPPAVNQQ	Q14679 TTLL4 377_387
6199	TRLEEKPDLRK	Q92543 SNX19 591_601
6200	KLREAEQQRVK	Q53GS7 GLE1 219_229
6201	KRFEQEINAKK	O94804 STK10 596_606
6202	GRRRQFDEESL	Q15154 PCM1 1248_1258
6203	KPISRELRRREL	Q01081 U2AF1 175_185
6204	KRWETKSNMGY	Q9H8W3 F204A 222_232
6205	RSYNKTVKK	Q6IQ21 ZN770 328_338
6206	RLPDSELMRRK	Q5T4F4 ZFY27 116_126
6207	LTDENVKHRKY	Q9NP79 VTA1 134_144
6208	RVFQETQKLKK	P82914 RT15 212_222
6209	KLEEQRPERVK	P13693 TCTP 102_112; Q9HAU6 TCTP8 102_112

6210	RQLEEKDRVVK	Q9NX63 CHCH3 125_135
6211	SLLRERELFKK	P29084 T2EB 4_14
6212	KRLSVERIYQK	P11388 TOP2A 26_36
6213	KRYTNKYSSQF	O15371 EIF3D 53_63
6214	KRFDDKYTLKL	Q15005 SPCS2 164_174
6215	RRKLTDFEEAY	Q9BUP3 HTAI2 52_62
6216	RLQPRKEFVEK	Q9Y6K5 OAS3 18_28
6217	RLMEEKEKLQK	Q86SQ9 DHDDS 103_113
6218	RRFQQDDAHIF	A2RTX5 SYTC2 535_545; P26639 SYTC 456_466
6219	KLFWSQRKITK	O94906 PRP6 849_859
6220	LRWDDQQKVKK	P09874 PARP1 77_87
6221	VVFRDPYRFKK	P62917 RL8 61_71
6222	YRFATDRNDFR	Q96B49 TOM6 32_42
6223	RRMEELHNQEM	P23246 SFPQ 547_557
6224	RRMGPPVGGHR	P14866 HNRPL 343_353
6225	GRVSRGIPTHR	Q9BZH6 WDR11 739_749
6226	RRSAFPKAAIK	Q15544 TAF11 125_135
6227	RPRKAGHTLLI	Q9H0H3 KLH25 289_299
6228	APRPDSRHSL	Q9BSV6 SEN34 71_81
6229	RRRDSDGVDFG	Q96KR1 ZFR 1050_1060
6230	KRFSKSSVLTK	Q63HK3 ZKSC2 922_932
6231	RRVSSSKISLR	Q9H040 SPRTN 370_380
6232	ARTGREKIFSK	Q99633 PRP18 290_300
6233	RTKKLSDYVGK	P57076 CU059 200_210
6234	RPRKTGHALFL	O14682 ENC1 289_299
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6236	SRYFKDGAVKK	A8K8P3 SFI1 30_40
6237	SRGSNLRVHFK	P18621 RL17 17_27
6238	RRISESGIKKM	Q96A65 EXOC4 860_870
6239	RRIATGSFLKR	P22234 PUR6 101_111
6240	ARLRADANRKF	P51946 CCNH 20_30
6241	KRVGKDSFWAK	Q9UJU6 DBNL 172_182
6242	KRNSDSLPHRL	Q9BXJ9 NAA15 756_766
6243	HRYRPGTVLAR	P68431 H31 40_50; P84243 H33 40_50; Q16695 H31T 40_50; Q6NXT2 H3C 39_49; Q71DI3 H32 40_50
6244	RRILMGSTLRK	P10644 KAP0 232_242; P31321 KAP1 232_242
6245	RLSDEFSKSHK	Q9BQ39 DDX50 80_90
6246	KTFSDGEGLRK	O43829 ZBT14 284_294
6247	RRGEVPAELRR	Q9UNZ2 NSF1C 214_224
6248	RRLGYKAKQGY	P61313 RL15 49_59
6249	KRIHKDGQVLF	Q8WWW0 RASF5 322_332
6250	KRHEVLTRTAF	Q5HYI8 RABL3 156_166
6251	RVWDISGLRKK	P53621 COPA 160_170
6252	KRIGKENFIEK	O60763 USO1 570_580
6253	RVLEKRGDDFK	Q92575 UBXN4 469_479
6254	IRYKRQGAARF	Q14213 IL27B 167_177
6255	RRLQVNRGKQL	Q6P1Q9 MET2B 348_358; Q96IZ6 MET2A 348_358

6256	RISNREKLNK	Q8IZT6 ASPM 627_637
6257	RRVKPETQGRF	O15389 SIGL5 80_90; Q08ET2 SIG14 80_90
6258	SRIKGEKDQWK	P11387 TOP1 433_443
6259	RRKIATEKDFL	P35998 PRS7 400_410
6260	KRFEGRLTKNM	Q08945 SSRP1 296_306
6261	RRQLRPTGQLR	Q5TCZ1 SPD2A 779_789
6262	TPRRPFEKSRL	P46781 RS9 15_25
6263	KRKLSSEQEELK	A6NHR9 SMHD1 1693_1703
6264	RVYNGRLKVQR	P57076 CU059 33_43
6265	HRLRLNLPTINR	O00182 LEG9 331_341
6266	RYMYDDRNHVGK	Q9Y222 DMTF1 216_226
6267	RRYLENGDKL	P01889 1B07 193_203; P30486 1B48 193_203; Q31610 1B81 193_203
6268	SRFEEAMKLK	P49069 CAMLG 157_167
6269	ARIREEGMRR	Q9BR77 CCD77 375_385
6270	RRLKPGVQRF	Q9UBQ7 GRHPR 170_180
6271	KRYLQSKQAY	Q53T94 TAF1B 110_120
6272	RRWDEKAVDKL	Q14683 SMC1A 664_674
6273	RRQGLEDFLRK	Q9Y5X0 SNX10 94_104
6274	HRLKNNQSKFF	Q12873 CHD3 886_896; Q14839 CHD4 876_886; Q8TDI0 CHD5 850_860
6275	KPRSNREEMKF	Q9NWT6 HIF1N 115_125
6276	RRLQVQERLTK	P30793 GCH1 177_187
6277	RRDQKEALLRF	Q12788 TBL3 707_717
6278	KRFTRSDDELQR	P08047 SP1 665_675; P0CG40 SP9 371_381; Q02086 SP2 564_574; Q02446 SP4 686_696; Q02447 SP3 660_670; Q3SY56 SP6 293_303; Q8IXZ3 SP8 395_405
6279	KRFDTEEEFKK	P54136 SYRC 278_288
6280	KIREQNRYDLK	Q9UEY8 ADDG 507_517
6281	WRKKQSDVMRF	P61313 RL15 11_21
6282	QMMVRDERRFK	O43852 CALU 151_161
6283	KIYDREQTRYK	P46940 IQGA1 94_104
6284	GTDNPLSGGDQY	P13010 XRCC5 63_74
6285	VSDIVGPDGVLVY	P22087 FBRL 177_188
6286	LTDPSSTPISSY	Q8IX90 SKA3 341_352
6287	QSDLTTLTSAAAY	Q13227 GPS2 105_116
6288	YSDPSTGEPATY	Q15149 PLEC 3318_3329
6289	RRFGDKLNFRQK	Q13794 APR 30_41
6290	ALPSLPAGSGLK	Q9UEE9 CFDP1 208_219
6291	VVLPGGTATSPK	Q8N1G0 ZN687 424_435
6292	TPRGGVGIATVM	Q9P2G9 KLHL8 542_553
6293	APRPAPVAQPPA	Q5T1J5 CHCH9 25_36; Q9Y6H1 CHCH2 25_36
6294	SPRPSGPGPSSF	Q96T58 MINT 3025_3036
6295	APRPGAPETTAL	Q7Z3C6 ATG9A 766_777
6296	APRPPATVTNAV	Q9BXS5 AP1M1 146_157
6297	SPKPLVTPGSTL	Q9GZN2 TGIF2 153_164
6298	ATISNDGATILK	Q99832 TCPH 56_67
6299	APQALSIKTSSL	Q14289 FAK2 327_338
6300	SIFASPESVTGK	O75940 SPF30 197_208
6301	APNAGSRMTQTV	P51659 DHB4 193_204

6302	ALIDPSSGLPNR	Q92530 PSMF1 220_231
6303	IIQSPSSTGLLK	Q9P2D0 IBTK 1001_1012
6304	TPRLASTNSSVL	Q13428 TCOF 102_113
6305	VLDAGSSHTSLY	P49961 ENTP1 52_63
6306	QPRSISVEGSSL	O75665 OFD1 58_69
6307	SPRPNPTSSPLL	P41229 KDM5C 1222_1233
6308	PSKGPLQSVQVF	P62249 RS16 2_13
6309	TLD SALNAASYY	Q6NUS6 TECT3 267_278
6310	YTVTSGDPPLLK	Q96T49 PP16B 537_548
6311	SPRPSPLLPESL	Q7Z6I6 RHG30 349_360
6312	KTETPSVSSSLY	Q8TCU4 ALMS1 1700_1711
6313	TPMPRNIEGATL	Q14872 MTF1 112_123
6314	ISTPEELGLDKV	P20674 COX5A 139_150
6315	QPMNRAPSDSSL	Q15642 CIP4 289_300
6316	TTVFSHAQTVVVL	P42677 RS27 44_55; Q71UM5 RS27L 44_55
6317	STDVDKTGASYY	Q9BY44 EIF2A 240_251
6318	GTEIDGRSISLY	P19338 NUCL 451_462
6319	SPRANLPPLYAL	Q15646 OASL 225_236
6320	VRPPVQVYGI EG	P48047 ATPO 28_39
6321	VVDESGKVVDIY	Q9UGJ0 AAKG2 462_473
6322	SPRFV DVQPSSL	Q8WYP5 ELYS 528_539
6323	KLDNTVQDAGLY	Q13107 UBP4 197_208
6324	QVTQPTVGMNF K	P08708 RS17 118_129; P0CW22 RS17L 118_129
6325	ALDNTDLVFGQY	P12694 ODBA 147_158
6326	YTDDAGR PQTAY	C9J798 RAS4B 641_652; O43374 RASL2 641_652
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6331	LSELSNPEISKY	Q9Y485 DMXL1 783_794
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6333	FTEAGLKELSEY	Q7L1Q6 BZW1 233_244
6334	YSEVLTDT RGLY	Q8TB68 PRR7 166_177
6335	FSEN LQPHISSY	Q8TEX9 IPO4 421_432
6336	VSDKVMIPQDEY	Q15637 SF01 136_147
6337	LLDENKSLSTYY	O43318 M3K7 574_585
6338	NLDPEIDEKLLY	Q15427 SF3B4 106_117
6339	SLYTYPQGTWQK	Q15762 CD226 109_120
6340	YTEFTPTEKDEY	P61769 B2MG 87_98
6341	GPRDAGNGPQAL	Q8TE82 S3TC1 226_237
6342	ARFSGSGSGTEF	P01624 KV306 61_72; P04207 KV308 80_91
6343	GRNDGVGQISGF	Q9BRQ8 AIFM2 333_344
6344	GSDHQSPSSSY	O43298 ZBT43 137_148
6345	YPRDASPANTGL	Q9Y4D8 HECD4 2641_2652
6346	SPRPSSAYNGDL	Q6P2E9 EDC4 33_44
6347	KVVL TQANKLGV	O94979 SC31A 1209_1220
6348	SLLTSSKGQLQK	Q99541 PLIN2 369_380

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6351	SPRNLGFETSAF	Q9UBF8 PI4KB 697_708
6352	SPRYLQPGGEQL	Q96N96 SPT13 127_138
6353	TVEETGGDSWKY	Q9UI26 IPO11 392_403
6354	SPRELLSNSEQL	O14879 IFIT3 478_489
6355	NPRFQEADSPTL	P26010 ITB7 787_798
6356	YLDRGTGNVSFY	Q9C037 TRIM4 449_460
6357	RSEDPDTSMDSY	P50416 CPT1A 428_439
6358	SPRDOPENFPFVV	P51149 RAB7A 111_122
6359	ESENRSYEGTLY	O95248 MTMR5 1758_1769
6360	YLEHGEYEGLNY	Q14168 MPP2 440_451; Q9NZW5 MPP6 404_415
6361	YSDITIFEKQEQY	Q12882 DPYD 211_222
6362	KPKAAPEGAGAL	Q9Y5B0 CTDP1 486_497
6363	APAGRKVGLIAA	P62917 RL8 229_240
6364	SPRGPGQGSQHL	Q15027 ACAP1 371_382
6365	APRVAGKEGPGL	Q9UID3 VPS51 431_442
6366	APRKVLGSSTSA	Q15004 PAF15 21_32
6367	KPKTGGAFSNAL	Q9Y5B6 PAXB1 197_208
6368	GRVGTIVGSNKL	P09874 PARP1 590_601
6369	KLYVIGGGPNGK	Q8WZ60 KLHL6 469_480
6370	APSAHRGSLVIM	Q9BY66 KDM5D 926_937
6371	GRVLIGEGVLTK	Q9H8W4 PKHF2 33_44
6372	QTDAAKGFGGKY	P14317 HCLS1 113_124
6373	RPAPPLRPSAAL	Q14155 ARHG7 656_667; Q15052 ARHG6 595_606
6374	ALSTGEKGFGYK	P62937 PPIA 38_49
6375	RLYGLGTGVAQK	Q9UFF9 CNOT8 258_269
6376	RVFSGLVSTGLK	P13639 EF2 415_426
6377	MPRGPTLGHVSL	Q96TA2 YMEL1 622_633
6378	AVQGKRTLPGQLQ	P51531 SMCA2 205_216
6379	VVRGGTGLFELK	O95602 RPA1 1705_1716
6380	APRGQRPESALP	P28062 PSB8 9_20
6381	RLFPPVPSGQQGK	Q86X53 ERIC1 16_27
6382	RPKPSSSPVIFA	Q15366 PCBP2 183_194
6383	SPRLPVGGFRSL	Q14669 TRIPC 1921_1932
6384	HPRSPNVLSVAL	Q16665 HIF1A 684_695
6385	GPRRPVNLDSDL	Q8N5H3 FA89B 79_90
6386	VPRNTDSPRAAL	Q9P2G1 AKIB1 899_910
6387	SPSKTRGQIQVI	P04183 KITH 13_24
6388	FPRSPSANEKSL	O94868 FCSD2 678_689
6389	ALRYPMAVGLNK	Q9Y3U8 RL36 2_13
6390	TKSSRTSVQPTF	Q5T4S7 UBR4 3840_3851
6391	RSIPYDQSPGPK	Q9H3K2 GHITM 178_189
6392	YVDAVLGKGHQY	Q12769 NU160 1357_1368
6393	SPRNLQPQRAAL	Q6ZS81 WDFY4 1007_1018
6394	VLKDYSITSSK	P29084 T2EB 280_291
6395	SPRAANPFQQKL	Q9C0H2 TTYH3 300_311

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6398	LTDKAVKDYSAY	Q5T4S7 UBR4 5079_5090
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6408	RPRDGAEGQPAL	Q13105 ZBT17 777_788
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6410	RPRGTSGPLELL	Q8IZY2 ABCA7 209_220
6411	RPRSPTGPSNSF	Q96I25 SPF45 219_230
6412	KLTEPASVPIHK	Q15042 RB3GP 366_377
6413	GCTDGTFRGTRY	Q9NQC7 CYLD 512_523
6414	DTDARFGHGSDY	Q9NW9 SLTM 750_761
6415	MIYASSKDAIKK	P23528 COF1 115_126; P60981 DEST 115_126; Q9Y281 COF2 115_126
6416	LIYDPAKRISGK	P06493 CDK1 268_279
6417	TLVITDKEKAEK	P63173 RL38 44_55
6418	RPRSSTDALIEM	Q15751 HERC1 149_160
6419	HTDAGTGRPYYY	Q6ZUM4 RHG27 255_266
6420	RPYGSDKPWPSL	Q8N5F7 NKAP 106_117
6421	HIDKVDSNDSLY	Q7Z3J2 CP062 839_850
6422	KRMNPNSPSITY	P84090 ERH 41_52
6423	VVYPATEKHLQK	Q96C86 DCPS 131_142
6424	RPREQNAGAIYLP	Q95460 HMR1 326_337
6425	RRLQQSGAQQQF	Q96QD9 UIF 55_66
6426	RRESLETENVL	Q99708 COM1 589_600
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6428	RPKGKLGPASAV	Q8NHM5 KDM2B 584_595
6429	SSLLEKGLDGAK	P81605 DCD 63_74
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6431	GRVGQAVALRAK	Q13363 CTBP1 183_194
6432	KPSKVKAFCGPL	P21333 FLNA 1066_1077
6433	RPYAAGGKKLAL	Q9H7U1 CCSE2 292_303
6434	GPRPSTPGRAHL	P46092 CCR10 149_160
6435	ARIKNAGGKVMT	O15355 PPM1G 375_386
6436	GAVHDVKDVLDs	P81605 DCD 97_108
6437	GTKAVTKYTSAK	O60814 H2B1K 115_126; P06899 H2B1J 115_126; P57053 H2BFS 115_126
6438	KPREEGKGPVAV	Q9H0W8 SMG9 102_113
6439	GTKAVTKYTSSK	P23527 H2B1O 115_126; P33778 H2B1B 115_126; P58876 H2B1D 115_126; P62807 H2B1C 115_126; Q16778 H2B2E 115_126; Q5QNW6 H2B2F 115_126; Q8N257 H2B3B 115_126; Q93079 H2B1H 115_126; Q96A08 H2B1A 116_127; Q99877 H2B1N 115_126; Q99879 H2B1M 115_126; Q99880 H2B1L

6440	ATYKVKDSSVGK	115_126  Q13015 AF1Q 36_47
6441	RVKVSQAAADLK	P63218 GBG5 25_36
6442	SPDSKAKTRTPL	Q9UQ35 SRRM2 1562_1573
6443	KMADIGGHAIYK	Q92562 FIG4 115_126
6444	HLPDRQDGPAAK	Q92917 GPKOW 335_346
6445	TRVAPAHGLFLK	Q8N0Z8 PUSL1 269_280
6446	KLGPTEGRPQLK	O15235 RT12 48_59
6447	SIRDTPAKNAQK	P06748 NPM 195_206
6448	KIRDIDAATEAK	Q96SU4 OSBL9 677_688
6449	RPIATAGLHRQL	E9PQ53 NDUCR 50_61; O95298 NDUC2 50_61
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6451	KPRPAGFVDNKL	O15381 NVL 2_13
6452	SRIQDGLGELKK	Q13616 CUL1 327_338
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6454	GVRDVFERPSAK	P55081 MFAP1 423_434
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6457	TPRPLNRPKVSL	Q9NY27 PP4R2 173_184
6458	KPIESDNIGHRL	Q9UKJ3 GPTC8 36_47
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6469	KVFIDKQTNL SK	O95319 CELF2 453_464; Q92879 CELF1 431_442
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6475	KLFDSTTLEHQK	Q13347 EIF3I 213_224
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6481	RPKEPSQQPIRF	A0PJX4 SHSA3 125_136
6482	IQRTPKIQVYSR	P61769 B2MG 21_32
6483	KQYDYDSSTIRK	Q9BZQ8 NIBAN 482_493
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6489	SRYGGGPRLTVK	Q86UV5 UBP48 540_551
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6491	TSVSRPGRGEPR	P01889 B07 34_45; P01891 1A68 34_45; P01892 1A02 34_45; P03989 1B27 34_45; P04439 1A03 34_45; P05534 1A24 34_45; P10314 1A32 34_45; P10316 1A69 34_45; P13746 1A11 34_45; P13747 HLAE 31_42; P16189 1A31 34_45; P16190 1A33 34_45; P18462 1A25 34_45; P18463 1B37 34_45; P30443 1A01 34_45; P30447 1A23 34_45; P30450 1A26 34_45; P30453 1A34 34_45; P30455 1A36 34_45; P30456 1A43 34_45; P30457 1A66 34_45; P30459 1A74 34_45; P30462 1B14 34_45; P30466 1B18 34_45; P30475 1B39 34_45; P30480 1B42 34_45; P30486 1B48 34_45; P30499 1C01 34_45; P30510 1C14 34_45; P30512 1A29 34_45; Q04826 1B40 34_45; Q09160 1A80 34_45; Q29836 1B67 34_45; Q31610 1B81 34_45; Q31612 1B73 34_45; Q95365 1B38 34_45
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6497	RPNLSHTGRGIL	Q13356 PPIL2 355_366
6498	GRFGRKGVAINF	Q14240 IF4A2 365_376
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6511	GRNSNSKRLLGY	O75534 CSDE1 511_522
6512	KRMSVTEGGIKY	P24928 RPB1 32_43
6513	RRLNEAAVTVSR	O95273 CCDB1 54_65
6514	SPRKISRDEVSL	Q9P246 STIM2 621_632
6515	RRNAVLEADFAK	Q99436 PSB7 20_31
6516	KTYIPPKGETKK	B2RPK0 HGB1A 76_87; P09429 HMGB1 76_87
6517	RRLEVLDSTKSS	P0C7P4 UCRIL 101_112; P47985 UCRI 92_103
6518	RLRDYEAGLGLK	O00635 TRI38 211_222
6519	RVYEGDGRNSLK	Q8NFY9 KBTB8 398_409
6520	VITDKEKAELKLK	P63173 RL38 46_57
6521	RPRLSSTNSSRF	P53355 DAPK1 720_731
6522	RRFVSTSDDKSL	O60508 PRP17 431_442
6523	RRFVNVVPTFGK	P62861 RS30 40_51
6524	APRHFHTQTQSL	O75319 DUS11 249_260
6525	RPRTSEEVSHIL	Q8N465 D2HDH 105_116

6526	KPRHDPYTPNSL	Q9Y620 RA54B 252_263
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6528	RRMGESDDSLR	P63220 RS21 60_71
6529	LYRDSRSGTHNM	Q02543 RL18A 82_93
6530	KRNDYVHALVAY	Q99873 ANM1 266_277
6531	KRYNVPNSAIYK	Q86U86 PB1 460_471
6532	RPRLTSNEKLML	Q9Y296 TPPC4 100_111
6533	GRWDEANAEKQR	P22059 OSBP1 727_738
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6535	KRFLEQQICRYG	P42694 HELZ 185_196
6536	KLIQEKKDNLLK	Q9HBM1 SPC25 73_84
6537	RVATWFNQPK	P26373 RL13 21_32
6538	RRFSDQFPLPLK	Q92973 TNPO1 878_889
6539	RRYLENGKETLQ	P01891 1A68 193_204; P01892 1A02 193_204; P01893 HLAH 193_204; P03989 1B27 193_204; P04439 1A03 193_204; P05534 1A24 193_204; P10314 1A32 193_204; P10316 1A69 193_204; P10319 1B58 193_204; P10321 1C07 193_204; P13746 1A11 193_204; P16188 1A30 193_204; P16189 1A31 193_204; P18462 1A25 193_204; P18463 1B37 193_204; P18465 1B57 193_204; P30443 1A01 193_204; P30447 1A23 193_204; P30450 1A26 193_204; P30453 1A34 193_204; P30455 1A36 193_204; P30456 1A43 193_204; P30457 1A66 193_204; P30459 1A74 193_204; P30461 1B13 193_204; P30464 1B15 193_204; P30475 1B39 193_204; P30481 1B44 193_204; P30483 1B45 193_204; P30484 1B46 193_204; P30485 1B47 193_204; P30487 1B49 193_204; P30488 1B50 193_204; P30491 1B53 193_204; P30492 1B54 193_204; P30493 1B55 193_204; P30495 1B56 193_204; P30504 1C04 193_204; P30508 1C12 193_204; P30510 1C14 193_204; P30511 HLAF 190_201; P30512 1A29 193_204; P30685 1B35 193_204; Q04826 1B40 193_204; Q07000 1C15 193_204; Q09160 1A80 193_204; Q29718 1B82 193_204; Q29836 1B67 193_204; Q29865 1C18 193_204; Q29940 1B59 193_204; Q29960 1C16 193_204; Q29963 1C06 193_204; Q95365 1B38 193_204
6540	KRYEKDFQSCFG	Q9NP50 FA60A 32_43
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6543	KRYYSIDDNNQNK	Q8NI08 NCOA7 85_96
6544	YLDEADRDKERY	Q9NP66 HM20A 152_163
6545	RRMFGGPGTASR	P08670 VIME 12_23
6546	ARFTGAPLKVKH	Q13505 MTX1 179_190
6547	GRYSGRKAVIVK	P61353 RL27 16_27
6548	KLAEAERVGLHK	P11388 TOP2A 976_987
6549	GRFHGEAVAVKK	Q12852 M3K12 142_153
6550	RLAYIAHPKLGK	P47914 RL29 95_106
6551	RTRDLVRAGVLK	Q9Y3D9 RT23 15_26
6552	KPESRRLKQAAAL	Q8WY91 THAP4 138_149
6553	RLLDLDAAKTRLK	Q9Y371 SHLB1 169_180
6554	KRLDLDAAKTRL	Q9Y371 SHLB1 168_179
6555	KSFKLSGFSFKK	P29966 MARCS 162_173
6556	KRFADEGTVVKR	Q8N806 UBR7 388_399
6557	SPRKPVAKWHS	Q9BT88 SYT11 417_428
6558	ARFKSNVTKTMK	Q9Y255 PRLD1 149_160
6559	RPDGEKKAYVRL	P62750 RL23A 129_140

6560	TRPKQEKAFLK	Q86UE4 LYRIC 480_491
6561	ARLRDPAQQVRK	Q15021 CND1 1099_1110
6562	RVLNTNIDGRRK	P62269 RS18 14_25
6563	RPRSSSDNRNFL	Q9HBU6 EKI1 5_16
6564	SAIRRKLKEKDQ	A6NKH3 RL37L 82_93; P61513 RL37A 81_92
6565	KLIETGERERLK	Q9NPA8 ENY2 19_30
6566	KTFHKTGQEYIK	Q9UJ41 RABX5 325_336
6567	RQAQTDRVNLRK	P30501 C02 93_104; Q07000 C15 93_104; Q9TNN7 C05 93_104
6568	RLEETQALLRKK	Q14203 DCTN1 997_1008
6569	KRYDSLQKIVEK	Q6P2H3 CEP85 574_585
6570	KTYVTPRRPFEK	P46781 RS9 11_22
6571	KLLEQYKEESKK	Q00839 HNRPU 664_675
6572	RVLDTNDRFLRK	P11586 C1TC 532_543; Q6UB35 C1TM 575_586
6573	LRYYYDKNIIHK	P14921 ETS1 393_404; P15036 ETS2 421_432
6574	RRLGPRPGGLGR	Q86XL3 ANKL2 33_44
6575	RRDDGLSAAARK	P84101 SERF2 26_37
6576	KRFRPGSGPPSR	Q9H6R0 DHX33 11_22
6577	APRGHRGERPTL	Q7RTP6 MICA3 692_703
6578	RRNGIGTNLVKK	Q147X3 NAA30 294_305
6579	RRLSSLRASTSK	P62753 RS6 232_243
6580	SRYDVSRLGRGK	Q9UHK6 AMACR 39_50
6581	GEASRLAHYNKR	O60814 H2B1K 76_87; P06899 H2B1J 76_87; P23527 H2B1O 76_87; P33778 H2B1B 76_87; P58876 H2B1D 76_87; P62807 H2B1C 76_87; Q16778 H2B2E 76_87; Q5QNW6 H2B2F 76_87; Q6DN03 H2B2C 76_87; Q6DRA6 H2B2D 76_87; Q93079 H2B1H 76_87; Q99877 H2B1N 76_87; Q99879 H2B1M 76_87
6582	RPRGKDERLVTV	Q9H6R4 NOL6 240_251
6583	RRLDIAGRDIR	P61160 ARP2 180_191
6584	HTRLAGEERVFK	Q9NYF8 BCLF1 665_676
6585	RVWESDTRGRAK	Q99490 AGAP2 1009_1020
6586	SPDGRRSRYVRL	Q9NR96 TLR9 972_983
6587	GRFGVERDRMDK	P14317 HCLS1 85_96
6588	RIIKNEVKKLQK	P50914 RL14 121_132
6589	RRFRASPLFSQH	Q2NL82 TSR1 621_632
6590	RRFKETNDKAEL	Q13123 RED 517_528
6591	RRYQKSTELLIR	P68431 H31 53_64; P84243 H33 53_64; Q16695 H31T 53_64; Q6NXT2 H3C 52_63; Q71DI3 H32 53_64
6592	RRYFLETSDRVK	O15439 MRP4 879_890

## GR-LCL EThcD 1D – spliced peptides

#	sequence	origin
1	PATPAAVVL	Q9NS39 RED2 268_273_280_282
2	APAGALLFI	A6NEQ2 F181B 45_51_69_70
3	PPSAAKAQL	Q8WZ42 TITIN 268_270_272_277
4	RAPGVLLGI	O95714 HERC2 4525_4527_4537_4542
5	APRDGVIGL	Q9HBR0 S38AA 1065_1070_1072_1074
6	ITAPALVSK	Q8WUG5 S22AH 220_223_207_211
7	LAKTGIVAK	Q9BQ61 CS043 125_126_128_134
8	MPRLGGCGL	Q8N852 FA87B 1_3_16_21
9	PSSIIISTI	P37268 FDFT 354_357_362_366; Q8NGU2 OR9A4 229_232_221_225
10	VAPLPHTAV	Q2NL68 CS055 173_176_156_160
11	PHGAPSLLL	Q6PFW1 VIP1 496_498_514_519
12	PAAVPALRL	Q8IY92 SLX4 417_417_436_443
13	RAAPALLSL	Q14397 GCKR 553_556_574_578
14	HPPLGPIAL	Q5JV73 FRPD3 1448_1452_1466_1469
15	PGREGVTSI	Q9BZV3 IMPG2 129_132_144_148
16	VTLGTPISK	Q8NDH2 CC168 1114_1119_1108_1110
17	HGPVLALI	A6NGU5 GGT3 263_264_283_289; P19440 GGT1 263_264_283_289; P36268 GGT2 263_264_283_289
18	PRISASSSI	P20742 PZP 91_97_103_104; Q8WXI7 MUC16 7607_7613_7602_7603
19	DVAFLASVV	Q8TAQ2 SMRC2 685_685_677_684; Q92922 SMRC1 707_707_699_706
20	RAVPGAPPR	Q5SV97 PERM1 186_188_173_178
21	HAPSILGII	Q9Y2G8 DJC16 199_200_216_222
22	PAQALPIIV	Q5T0L3 CA111 48_53_59_61
23	PRAPGLLSL	Q5XUX1 FBXW9 65_67_77_82; Q8NBB4 ZSCA1 195_201_185_186
24	PRNGVLTGL	Q9Y289 SC5A6 600_605_593_595
25	PSGLRDVAL	Q13233 M3K1 1471_1472_1480_1486
26	LQAPIVSSL	P55259 GP2 330_332_336_341
27	IGRLPSTAI	O00305 CACB4 138_141_114_118
28	VALTLPSSRA	Q8TF05 PP4R1 652_656_631_634
29	PARPAGSYL	Q8N5S9 KKCC1 63_64_78_84
30	TGGYIPKTP	Q9H511 KLH31 471_475_448_451
31	PRAIPLGTI	Q9BXP2 S12A9 294_294_296_303
32	PKLLGPLSL	Q96LC7 SIG10 446_451_438_440
33	IPKPLGLSL	Q8N423 LIRB2 26_29_11_15
34	PVALVRAIV	Q8TE82 S3TC1 842_845_821_825
35	LALLGLPLK	Q9BZG2 PPAT 293_295_276_281
36	LAQIPGIDL	Q5THR3 EFCB6 115_119_137_140
37	LPAGIIQTK	P51610 HCFC1 716_719_709_713
38	PKILSPSSL	A2RRP1 NBAS 1831_1833_1841_1846; Q99102 MUC4 450_452_443_448
39	VVNTVALKV	Q7Z434 MAVS 298_298_305_312
40	GRPTGTLEL	Q8TE73 DYH5 2493_2493_2511_2518
41	LQASVVTLL	Q9H6K5 YS027 522_527_534_536
42	ISRAVIATL	Q8N201 INT1 1541_1542_1522_1528
43	ATRSIVLAL	Q8IZK6 MCLN2 295_295_309_316
44	GPILKIGCF	P16219 ACADS 125_128_148_152

45	LHQGPGLLL	P55291 CAD15 483_483_496_503
46	HLGQPGLLL	Q9C0D5 TANC1 1539_1541_1520_1525
47	GRLLPSSVAH	P04920 B3A2 641_645_625_628
48	PRQLPGAVL	Q5T447 HECD3 13_16_6_10
49	PRASLLLAL	Q8NGU9 GP150 287_289_297_302
50	PRAASRPSL	Q8N3V7 SYNPO 829_833_812_815; Q9NPY3 C1QR1 495_498_517_521
51	VKPQAANVK	Q8WZ42 TITIN 13118_13120_13106_13111
52	PVQPLSAFP	Q9ULL4 PLXB3 1238_1240_1246_1251
53	IAQIPVDSL	A6NNT2 CP096 690_695_698_700
54	LPPPARPPI	Q6BCY4 NB5R2 237_241_216_219
55	RAAPPPPP	A6NFN3 RFOX3 239_246_223_223; O14511 NRG2 728_729_720_726; Q96B36 AKTS1 19_19_33_40; Q9H0K1 SIK2 809_811_828_833  O15075 DCLK1 701_702_684_690
56	RNVIATTAL	Q92673 SORL 1885_1892_1872_1872
57	PKSLTTSLI	Q9NVV4 PAPD1 350_353_366_370
58	VRALLTSSI	Q68CP9 ARID2 932_933_942_948
59	PAAIHQIVL	P04085 PDGFA 78_82_92_95
60	RPLPIVPAV	Q8TEY5 CR3L4 168_173_165_167
61	PRAGTVHIL	Q68DA7 FMN1 540_542_523_528
62	LPAPLSPRL	Q8N9H9 CA127 294_299_284_286
63	RGPQPPSIL	Q8TC20 CAGE1 188_194_170_171
64	PRSPPPLISV	Q96BI1 S22AI 397_398_404_410
65	GHNTLVLLV	Q86UU1 PHLB1 904_905_917_923
66	PKLLPAVDL	O14686 KMT2D 4736_4740_4743_4746
67	ALSPVLIPR	P29322 EPHA8 534_535_552_558
68	PRTGLVVLL	Q5VV43 K0319 473_475_486_491
69	INGSPVRLR	Q6UVM3 KCNT2 238_242_254_257
70	VTFSTSSKL	Q6UXY8 TMC5 888_890_870_875
71	RPGGLPLFI	Q5UCC4 EMC10 95_96_98_104
72	RGLRDVAAL	Q5RHP9 ERIC3 1265_1268_1254_1258
73	DVVLLEGRA	A6NH11 GLTD2 5_7_21_26
74	ARPAIFALL	Q8NFY4 SEM6D 821_826_828_830
75	HGHIPSIVL	Q86YV0 RASL3 157_158_137_143
76	PRIGGFTLL	Q6UWB1 I27RA 540_542_519_524
77	GRCPGILFL	P98198 AT8B2 827_831_839_842; Q8TF62 AT8B4 809_813_821_824
78	VTLAISMIK	Q8TCJ2 STT3B 18_24_14_15
79	SPWSGGLMSL	Q7KZF4 SND1 773_774_783_789
80	PSAFSTRVL	P02786 TFR1 513_514_497_503
81	VKSASPLLY	P51784 UBP11 474_475_487_493
82	VSPPLISHK	Q16760 DGKD 484_487_474_478
83	VAAHVQQIL	Q8N7U6 EFHB 709_713_732_735
84	VGAIPPRIR	Q86XT4 TRI50 401_405_423_426
85	PRVPLGEKT	Q8IZF4 GP114 38_39_41_47
86	RGSSVFSSR	P11836 CD20 87_92_112_114
87	PLWGGILVK	Q9H1B5 XYLT2 562_566_585_588
88	ARLSLPRGL	Q96L50 LLR1 191_196_205_207
89	KLPATILNL	Q8IVL5 P3H2 98_100_108_113
90	PPGPLFRSL	

91	PSRALAQKL	Q2YD98 UVSSA 479_483_489_492; Q6AWC2 WWC2 392_397_411_413
92	PSIRQSAII	A5YKK6 CNOT1 532_536_517_520
93	VEETLAAPR	Q5H9T9 FSCB 417_422_432_434
94	LAEAIERAL	Q7KZ85 SPT6H 734_737_713_717
95	APQALLFLL	P15812 CD1E 20_23_3_7
96	GRWPSIASL	Q99698 LYST 2260_2264_2243_2246
97	VPLHAQILP	P23471 PTPRZ 854_858_840_843
98	RSISLLSIV	P51811 XK 169_170_175_181
99	PRSLNTSTL	Q7Z442 PK1L2 721_724_730_734
100	PKASVFVQL	P19838 NFKB1 316_317_327_333
101	SPAFRLVSL	P54802 ANAG 553_557_571_574
102	VLATGLPYR	Q14517 FAT1 553_556_544_548
103	SNSTFGHLK	Q9ULJ8 NEB1 255_257_248_253
104	KPASVFVKD	P19838 NFKB1 325_331_319_320
105	LAKDFGLAR	P50750 CDK9 176_178_167_172
106	KRFSLGVAL	Q8IZS8 CA2D3 595_596_614_620
107	AFTLKVTVL	Q9BY64 UDB28 69_73_53_56
108	QPLQPPLSI	A9Z1Z3 FR1L4 999_1000_1002_1008
109	PARPLGRL	P49716 CEBD 105_110_117_119
110	KGAKLDSFK	Q8IVF2 AHNK2 1929_1934_1913_1915
111	VTVVVGHRK	P54198 HIRA 271_274_265_269
112	RGRPLALVL	Q9NPC1 LT4R2 83_88_91_93
113	PKIGQLINL	Q96L50 LLR1 265_265_267_274
114	ARPSLLILL	Q4V9L6 TM119 25_26_7_13
115	ARPTVLLLL	Q9NRR1 CYTL1 20_23_9_13
116	PAAQAQVRR	Q96JE9 MAP6 262_267_248_250
117	PPPSRLAFL	Q9NRC6 SPTN5 103_107_122_125
118	VLVSEPILK	Q6ZRQ5 MMS22 1122_1127_1117_1119
119	RPSEAARVI	Q9NY61 AATF 18_21_33_37
120	PVMALLSRL	Q6PJ7 ZC3HE 441_444_433_437
121	PSRRTLISI	O14525 ASTN1 365_367_386_391
122	RRSGVLEAL	Q96Q27 ASB2 318_321_336_340; Q9H477 RBSK 168_172_161_164
123	VLLVTDTIK	Q8WVF1 OSCP1 121_125_130_133
124	RISRGMGIL	Q8IZ81 ELMD2 147_149_167_172
125	GRNTNKLTT	Q9BY12 SCAPE 1038_1043_1049_1051
126	RGTFLQGL	P49411 EFTU 41_42_21_27
127	RAPPPLQLI	P07332 FES 467_468_442_448; Q6P1L5 F117B 377_382_366_368
128	RLPLRAPAL	Q8IV53 DEN1C 496_498_481_486; Q8NBT3 TM145 11_12_3_9
129	ARPTLLLLL	Q9NRR1 CYTL1 20_23_10_14
130	PGRNAQRVL	Q5VYK3 ECM29 542_545_534_538
131	PARTLLQVL	Q5TEJ8 THMS2 185_186_176_182
132	PLRVTELAL	P41226 UBA7 968_974_951_952
133	PNRTKALVL	Q16773 KAT1 183_184_174_180
134	PKKETVPTL	Q8WW12 PCNP 104_105_96_102
135	SKRPDILAL	Q12852 M3K12 503_509_521_522
136	QVPVHHPSL	Q2VWA4 SKOR2 880_881_857_863
137	ISRDLLPSL	A6NCQ9 RNN222 152_154_138_143

138	PRALTEKSI	Q63HN8 RNP213 3239_3244_3255_3257
139	ELSQLVDLV	Q9NRD1 FBX6 156_157_143_149
140	RSVESVLLL	A8K2U0 A2ML1 610_612_596_601
141	PPLLPIRPL	P0C880 YT014 122_129_105_105
142	LPSLPLETF	Q86SP6 GP149 324_325_340_346
143	VETLKMPAK	P54840 GYS2 377_381_368_371
144	RSFDPLVAI	Q13219 PAPP1 1179_1182_1169_1173
145	APFKKNSSL	Q96JB1 DYH8 1468_1473_1460_1462
146	KYSLPALLL	P30533 AMRP 34_36_13_18; Q9P2K2 TXD16 571_572_575_581
147	HPLPLSLEL	P0C7Q5 S35G4 80_82_67_72; P0C7Q6 S35G6 80_82_67_72; Q8N808 S35G3 80_82_67_72; Q96KT7 S35G5 80_82_67_72
148	LQPPPLLQL	Q6ZUT6 CO052 299_305_278_279
149	PSRHLLAL	Q86SM8 MRGRE 168_172_183_186
150	RNCTLVTTL	Q8NGP6 OR5M8 3_9_28_29
151	VFSVLTLL	Q6ZNJ1 NBEL2 1472_1477_1496_1498
152	PPWLALAPR	O94885 SASH1 1058_1061_1038_1042
153	PRVPVLRAL	Q8IYG6 LRC56 510_511_496_502
154	PRNPLTVLL	P12318 FCG2A 13_15_21_26
155	PFKGFSVEL	Q9Y546 LRC42 43_44_49_55
156	RPRASPRAL	Q5T5Y3 CAMP1 547_547_560_567; Q9P232 CNTN3 455_455_433_440
157	RKPPVSQLV	Q8IY57 YAF2 51_53_55_60
158	RVQALALPR	Q6SPF0 SAMD1 272_274_294_299
159	PLQGLVRIE	Q3KR16 PKHG6 11_16_19_21
160	LKFSGVFVK	Q6DKI1 RL7L 112_113_116_122
161	PLSGLRRLL	Q9NR77 PXMP2 85_87_106_111
162	VAYLGYLAR	Q9H0V1 TM168 46_47_35_41
163	PRSVRNGQL	Q96EB1 ELP4 34_35_55_61
164	LRPRTAVTL	Q8NHB1 OR2V1 261_264_247_251; Q96R30 OR2V2 261_264_247_251
165	RGIDLQGR	P43243 MTR3 582_587_560_562
166	LLLLEQDAL	Q6PHR2 ULK3 410_413_396_400
167	PSLHSFIDI	Q8NGC2 OR4E2 53_56_67_71
168	VKPRMATLI	Q96MW1 CCD43 115_119_104_107
169	SRLIGTRL	Q9C0B1 FTO 95_100_111_113
170	VLLPFKRGV	Q8IUG5 MY18B 153_155_143_148
171	LNNNSKNLL	Q8WYL5 SSH1 618_623_611_613
172	GVKLSTRLR	Q8WXR4 MYO3B 169_172_183_187
173	DLLGSLLYH	Q9Y672 ALG6 186_191_204_206
174	KKVVDSNLK	Q53SF7 COBL1 577_582_585_587
175	HISHIPSQL	A4D1F6 LRRD1 222_227_231_233
176	RSLATLNEK	Q8WUW1 BRK1 44_45_47_53
177	TRFDIPLGL	O94913 PCF11 1114_1114_1104_1111
178	PHPARDLLL	Q96QB1 RHG07 1421_1426_1444_1446
179	RALFGLAQR	Q00653 NFKB2 442_443_450_456
180	VDVRVLALF	Q2TB90 HKDC1 485_487_472_477
181	LAGRTFLKK	Q9UHV5 RPGFL 15_19_7_10
182	RALNKAHLI	Q8NDW8 TT21A 580_585_575_577
183	PSRIYSNSL	Q9Y2U8 MAN1 412_413_404_410

184	PARRSSYSI	Q9Y2H9 MAST1 1063_1069_1058_1059
185	PQPRALLEL	Q9HD20 AT131 30_36_48_49
186	PRAQLHIGF	P22314 UBA1 347_348_327_333
187	IRTGFLFGK	Q8NHP7 EXD1 331_333_353_358
188	PRLIIVSQL	Q06330 SUH 260_264_280_283
189	PLRVTNILL	Q8N127 O5AS1 22_26_42_45
190	NLRIPSVQI	P04114 APOB 2632_2632_2624_2631
191	PIRSLEVIL	Q5TCS8 KAD9 1115_1118_1103_1107
192	PRLLLLDSL	Q6EMK4 VASN 169_175_180_181
193	RIGDLKPLK	Q8IWF6 DEN6A 370_376_389_390
194	RGIDKPILK	P62917 RL8 200_201_175_181
195	PRILTLITI	P42336 PK3CA 18_21_41_45
196	PLRCTRALL	Q96S19 CP013 115_119_133_136
197	PLSSRKIEL	Q14693 LPIN1 295_301_277_278
198	KLNITTPKK	Q13621 S12A1 866_869_872_876
199	RRGDFIPAL	P0C874 S31D3 418_422_408_411; Q6ZUB0 S31D4 418_422_408_411
200	RKVDIPLGF	Q9Y221 NIP7 154_156_138_143
201	RLFVGPVEK	Q5T8I3 F102B 328_333_307_309
202	VPYIRALVD	P20908 CO5A1 1799_1799_1780_1787
203	PVRLFSLTL	Q6VY07 PACS1 98_99_119_125
204	VHIIPYSAF	Q03167 TGBR3 232_235_244_248
205	GHELPPLLRL	Q9UBU9 NXF1 353_357_348_351
206	PLELCLTFL	Q6DHV7 ADAL 256_261_234_236
207	MVPDILFTI	Q9H9Y6 RPA2 909_915_925_926
208	LSFLLDNAR	Q676U5 A16L1 412_413_416_422
209	RGTNLIVNY	Q15717 ELAV1 14_15_20_26
210	PRKVPVIQL	Q9NXX6 NSE4A 236_242_251_252
211	LSADFQIEK	Q9HC98 NEK6 36_37_43_49
212	NLSDARVLY	Q9Y371 SHLB1 297_300_310_314
213	PARLMITHI	Q9NTJ3 SMC4 71_72_81_87
214	SLFFLSLPK	Q8WXD0 RXP2 234_239_248_250
215	PNLIRVINI	Q96DT5 DYH11 3290_3294_3307_3310
216	RPVRALRAL	Q9BVL4 SELO 75_77_53_58
217	RALKKLPKV	Q9BSC4 NOL10 437_438_443_449
218	ESRLGCILY	Q4G0S4 C27C1 67_72_64_66
219	LSLCTQILY	Q8NE79 POPD1 281_287_261_262
220	RVFNVFCGL	P14866 HNRPL 398_404_388_389
221	ISFSRLFGK	P18085 ARF4 5_6_9_15
222	IPIKSRDII	Q5T5J6 SWT1 236_242_220_221
223	GLRQIALKR	P54886 P5CS 439_444_423_425
224	RSLDPKLAR	Q7Z695 ADCK2 602_608_614_615
225	TRLEPLAKK	Q9ULL5 PRR12 396_401_376_378
226	ARKKIQSLL	Q13576 IQGA2 736_738_756_761
227	IVRRVTLSL	Q9P107 GMIP 292_293_308_314
228	RLISDGLKR	Q9Y662 HS3SB 299_303_316_319; Q9Y663 HS3SA 314_318_331_334
229	GRYDPLLPLL	Q9NSD7 RL3R1 458_464_445_446
230	MRVVSEVIK	Q9NZN3 EHD3 214_217_201_205

231	KDIRGVIIF	Q6BDI9 REP15 173_178_164_166
232	VKRAVFDNL	Q9UHY1 NRBP 130_131_115_121
233	RDVPFSVSR	Q9H936 GHC1 196_202_180_181
234	KVRAVFDDI	Q9UHY1 NRBP 113_119_138_139
235	VVFDISRVK	Q9BYS8 LRRK2 6_11_20_22
236	LITLYLTIL	Q7Z3V4 UBE3B 158_164_137_138
237	GRNSFEVVR	O95395 GCNT3 248_251_269_273
238	REPPVILEI	Q8TEQ8 PIGO 92_96_110_113
239	PPREVLELL	Q9H8Y1 VRTN 364_369_353_355; Q9UGN4 CLM8 247_251_234_237
240	HGLGLLYFF	Q5TEA6 SE1L2 375_382_359_359
241	VNILEVRPQ	Q86UX2 ITIH5 189_193_176_179
242	PNNRIKNVL	Q8IZT9 FAM9C 122_123_97_103
243	RDKPNIVLI	P54793 ARSF 24_24_28_35
244	PRNRSVILI	P48060 GLIP1 229_232_242_246
245	RSKKLPLIL	Q17R89 RHG44 65_71_84_85
246	LVLTRILNK	Q9Y426 CU025 653_654_669_675
247	RAEFLPILL	Q96JK4 HIPL1 727_730_736_740
248	TPAMQRKLK	Q9UG63 ABCF2 218_223_225_227
249	TPREVLGFR	P14920 OXDA 118_121_111_115
250	PYRTLDVVL	Q66K14 TBC9B 58_60_45_50; Q6ZT07 TBCD9 62_64_49_54
251	HLLPLLSQR	Q6ZVT0 TTL10 575_576_554_560
252	KILREVILP	Q8TAK6 OLIG1 109_110_128_134
253	RVGLVRILR	Q03001 DYST 7332_7334_7321_7326; Q9UPN3 MACF1 7170_7172_7159_7164
254	LYLSPLSYK	Q8WUT9 S2543 295_296_302_308
255	RPNLRVESL	Q5VUA4 ZN318 832_837_850_852
256	FGKSYLQEI	Q96Q04 LMTK3 144_146_134_139
257	TTPTLLLYY	Q9H6B9 EPHX3 296_302_280_281
258	IHPYNIKSL	Q13601 KRR1 213_215_217_222
259	GRVELWLVI	O43169 CYB5B 43_45_36_41
260	RRPDCRLGI	P98160 PGBM 221_226_239_241
261	PLYLNKNPK	A4D1E1 Z804B 581_585_576_579
262	PEELYKPVL	P13639 EF2 171_175_152_155
263	RGLTKHTKF	Q9Y3U8 RL36 30_31_33_39
264	RRMTVVGLR	Q96CS3 FAF2 241_247_225_226
265	PSRLLLLLY	Q7Z769 S35E3 74_80_58_59
266	PRMLFLCTL	Q8NGA5 O10H4 80_82_62_67
267	TRVNEFSLK	O00339 MATN2 94_96_107_112
268	GRSWSLLEF	P78509 RELN 598_603_591_593
269	VHQIRKESV	Q8NHS4 CLHC1 3_8_25_27
270	NKIRVPLQK	O75319 DUS11 78_81_55_59
271	LPKDRLIKI	Q8IY45 AMN1 32_33_37_43
272	RRPLTVKIL	P59044 NALP6 193_198_214_216
273	ETQSLFIPY	Q7Z7C8 TAF8 199_204_221_223
274	LMPKRVLEI	Q5EBL4 RIPL1 53_56_59_63
275	PRFIRPLSL	Q8WZ82 OVCA2 142_145_165_169
276	RVGALRWEL	Q9NSD5 S6A13 190_191_202_208
277	RRGELRLSL	Q9NRF2 SH2B1 560_563_577_581; Q9UQQ2 SH2B3 397_400_414_418

278	GRIDREDKL	Q9Y5G7 PCDG6 88_92_111_114
279	LSMPWFHKG	P41240 CSK 77_78_80_86; P42679 MATK 111_112_120_126
280	EELLLPLLY	Q3B7J2 GFOD2 277_281_300_303
281	RPIFCQLIL	Q27J81 INF2 735_735_755_762
282	PFRLLDTKL	O95453 PARN 333_334_321_327
283	KRFNADNIK	Q9NRZ9 HELLS 371_377_359_360
284	RLSSYIRVI	Q7Z7L7 ZER1 257_261_239_242
285	RVFWSTNAK	P04818 TYSY 78_81_95_99
286	RKLTESVLY	O95255 MRP6 401_402_420_426
287	RPIKILTLR	P78346 RPP30 69_75_90_91
288	GRVLFIKDY	Q13829 BACD2 195_202_214_214; Q9H3F6 BACD3 198_205_217_217
289	PQRLLNTL	Q9HAV4 XPO5 172_175_193_197
290	RKIEEPIIL	Q9Y620 RA54B 489_491_493_498
291	RRARLNSEL	Q96D71 REPS1 753_754_763_769
292	PRKEAKNYL	Q9Y2M5 KLH20 310_312_289_294
293	YVRGVSIYY	Q8NGG2 OR5T2 298_300_286_291
294	LRADELIKY	Q5VUJ9 EFCB2 234_236_251_256
295	LKRNFVVVF	Q9BYX4 IFIH1 982_983_985_991
296	RLVKPQILR	Q16798 MAON 404_408_424_427
297	SRFGKFILR	A7E2Y1 MYH7B 245_251_239_240; Q96H55 MYO19 194_200_188_189; Q9Y2K3 MYH15 255_261_249_250
298	KDDPNFYLL	Q7RTR0 NALP9 463_467_456_459
299	RLYGQTKKM	P49591 SYSC 405_406_410_416
300	GREDIFYII	P33765 AA3R 223_225_199_204
301	RRVDAENLR	P02545 LMNA 189_195_215_216
302	RLRENATLR	A7MCY6 TBKB1 54_55_60_66
303	NLLQVFIRQ	Q9NV70 EXOC1 841_845_854_857
304	RRVEGVFRL	Q96Q15 SMG1 2404_2405_2388_2394
305	RKFGEITQR	O94915 FRYL 2719_2725_2737_2738
306	IGYVPFWQK	Q15361 TTF1 792_793_811_817
307	RKWEGLVHI	Q14562 DHX8 288_289_291_297
308	DKALRFLLY	P12107 COBA1 1729_1735_1753_1754
309	RVNNLRVRL	P55072 TERA 86_87_90_96
310	KPSFFQLLY	Q9BR61 ACBD6 84_88_64_67
311	RLPLFYTIK	P30532 ACHA5 248_254_246_247; P32297 ACHA3 239_245_219_220; P43681 ACHA4 241_248_222_222; Q15822 ACHA2 263_270_243_243
312	MKINLLEKY	Q13492 PICAL 225_226_216_222
313	LSWDETLYK	Q5VZM2 RRAGB 212_213_226_232; Q7L523 RRAGA 151_152_165_171
314	RKLEKEAKR	Q9P219 DAPLE 820_821_837_843
315	RRFQDAVLR	Q01813 K6PP 374_380_382_383
316	RSNQQIFLR	P62993 GRB2 136_137_143_149
317	RTLIMIFFQ	Q7Z2X4 PCLI1 32_38_45_46
318	LVYDRVLKY	Q9UHB9 SRP68 475_476_486_492
319	VRTKRDWVL	Q07820 MCL1 299_305_297_298
320	RLFILIQR	P53680 AP2S1 15_16_4_10
321	NRLFKVIRK	P56182 RRP1 305_308_326_330
322	PRENRSFYL	Q9BQ70 TCF25 360_361_339_345

323	WDRSLLLFH	Q7Z5W3 BN3D2 255_262_242_242
324	RSWEKVVQR	Q03001 DYST 6697_6698_6685_6691; Q9UPN3 MACF1 6544_6545_6532_6538
325	FEQRLPQEF	O60315 ZEB2 692_695_683_687
326	RRLQVQELR	P30793 GCH1 177_183_197_198
327	RRMAEEFLR	P24928 RPB1 1052_1058_1045_1046
328	RRNREPLLR	Q13772 NCOA4 24_25_13_19
329	ARPGPALLL	P57059 SIK1 354_359_340_342
330	PAGTKLLL	P23471 PTPRZ 2017_2023_2012_2013
331	PSSPERSLL	Q14142 TRI14 242_243_256_262
332	PASPVIPRL	Q5VWG9 TAF3 779_780_755_761
333	IASGGLLKGV	O75367 H2AY 100_104_94_98; Q9P0M6 H2AW 100_104_94_98
334	RAPGSAVPAL	Q8NAC3 I17RC 695_699_713_717
335	GVDLPGGLTL	Q8WWU5 TCP11 441_442_448_455
336	ARCGGALLAL	Q9NSC2 SALL1 214_219_233_236
337	PGRGALPLGL	Q9NZR4 VSX1 64_65_75_82
338	VVSSAVPAAR	Q9H3F6 BACD3 9_17_20_20
339	GPAALRLTGL	P33908 MA1A1 32_39_21_22
340	RPGGTVSSVL	Q7Z7J7 LHPL4 226_229_220_225
341	RPSAGPLPAL	A6NL88 SHSA7 20_22_30_36
342	GAHRPVGLAL	Q14142 TRI14 51_54_57_62
343	VAAGSFSKKP	Q14896 MYPC3 21_25_12_16
344	APSSPRPLAP	P28360 MSX1 108_115_105_106
345	PPRTGVASVI	Q8IXZ2 ZC3H3 236_242_222_224
346	PGRSASLLSL	Q9Y4H4 GPSM3 43_44_53_60
347	VVLAAGFLLV	O15551 CLD3 84_85_89_96
348	AAGLVFTLVL	Q9BWQ6 YIPF2 240_247_261_262; Q9UHC9 NPCL1 367_373_356_358
349	SGRCGLVLSL	Q9Y5G2 PCDGE 5_11_22_24
350	GRGCLLVSGF	P57737 CORO7 682_684_695_701
351	NKAGAHLTVV	Q8NGT1 OR2K2 263_265_270_276
352	LGPATELVPL	Q5VU65 P210L 971_975_950_954
353	VALLSARPLA	P46095 GPR6 227_232_220_223
354	PRAKAGPTLT	Q9NQZ2 SAS10 35_35_17_25
355	HVIRGSSSGL	Q14674 ESPL1 227_229_236_242
356	RPTGSEGTVL	Q7Z407 CSMD3 1748_1749_1767_1774
357	LPSLKVSCGL	Q8TCT6 SPPL3 184_191_173_174
358	GVPSLPFTSL	P31785 IL2RG 20_21_4_11
359	RPSVPAAPLL	P08174 DAF 5_11_13_15
360	ARPGPALLL	Q9NTG1 PKDRE 30_30_2_10
361	THSGPGLLQL	Q8WUA4 TF3C2 426_426_433_441
362	PAVVRAAQTL	C9J798 RAS4B 435_440_413_416; O43374 RASL2 435_440_413_416
363	PLRGVNVSAL	P38606 VATA 105_106_120_127
364	LVEVLLAGVL	A6NGW2 STRCL 140_145_134_137; Q7RTU9 STRC 140_145_134_137
365	ARAGLLAVTR	Q12766 HMGX3 65_70_78_81
366	RKSAAVVNAI	Q92888 ARHG1 196_196_214_222
367	PRGGGVLLFI	Q9H015 S22A4 396_397_408_415
368	GVKKATKAAR	P68431 H31 35_38_22_27; P84243 H33 35_38_22_27; Q71DI3 H32 35_38_22_27
369	SLLSLGSLLK	Q9NX78 TM260 223_224_214_221

370	RAPGPVPLLL	O75474 FRAT2 72_76_91_95; Q92837 FRAT1 72_76_91_95
371	ALAPMLAAIY	O43300 LRRK2 29_30_11_18
372	ILSSMLVSA	Q5HYC2 K2026 1481_1484_1473_1478
373	PGARLRGAEL	Q7RTS3 PTF1A 134_140_159_161
374	PAGARVRVLT	Q8NFA2 NOXO1 259_267_269_269
375	PARSSLPISL	P19532 TFE3 86_87_75_82
376	ARIGDLAVLI	Q8TEJ3 SH3R3 418_424_407_409
377	RLPSPSATTI	Q2M2H8 MGAL2 111_116_123_126
378	PMLTKGVAIL	A6NM76 O6C76 280_281_267_274
379	LLTDKIGAVL	Q8NGQ3 OR1S2 262_263_283_290; Q8NH92 OR1S1 262_263_283_290
380	ILTDLKAGVI	Q8IWX7 UN45B 644_647_626_631
381	GALGTRPAFR	Q16538 GP162 231_239_211_211
382	LSHFAGALAY	Q8N1I0 DOCK4 648_648_667_675
383	APHPTLITSL	Q13418 ILK 262_269_276_277
384	RGLASPPPVR	Q5FWE3 PRRT3 837_844_826_827
385	GLDPTSGQLY	Q8TEM1 PO210 1252_1253_1261_1268
386	RAPGAQPLQI	Q9H2X6 HIPK2 678_678_689_697
387	RPLGEPVVLGL	Q01101 INSM1 262_266_239_243
388	VAASFPGIQY	Q9HCK4 ROBO2 814_817_805_810
389	PAGKTKLII	P23471 PTPRZ 2017_2023_2012_2014
390	PRLAGLSQIT	Q70CQ2 UBP34 325_325_330_338
391	ICPAVLILSK	Q8NH87 OR9G1 207_214_230_231
392	VEALDLAVLD	Q13561 DCTN2 261_262_270_277
393	GIMPLTGIKK	Q12908 NTCP2 77_83_55_57
394	YPRSAGPLSL	Q6ZMQ8 LMTK1 594_596_613_619
395	GRVFVLPCVA	O75955 FLOT1 27_34_24_25
396	RGFGRKGVAI	P60842 IF4A1 362_363_366_373; Q14240 IF4A2 363_364_367_374
397	GAVYRGALQK	P20591 MX1 562_563_537_544
398	PRALPILGLL	Q9BT04 FUZZY 283_287_296_300
399	PRASPPVVKL	Q9BX95 SGPP1 184_185_187_194
400	PRRGALLIL	Q9UK80 UBP21 337_344_327_328
401	RGRGPSLLVL	Q8NCN4 RN169 22_24_44_50
402	VPNGAKRLTI	Q14197 ICT1 61_66_76_79
403	PRLRSSVAAL	Q9BQ83 SLX1 99_102_74_79
404	PRSGGVFKNL	Q9H5Q4 TFB2M 156_161_173_176
405	GNLIWVTGCL	Q8NGT1 OR2K2 199_202_178_183
406	PAKGKSVFLE	Q7L1Q6 BZW1 376_376_387_395
407	KSFTGKALLI	Q6ZT12 UBR3 1722_1725_1732_1737
408	VSVNKTDTSK	Q96BY7 ATG2B 1553_1554_1529_1536
409	PTPHALFPSL	Q7Z570 Z804A 1200_1201_1188_1195
410	GARLSFSVSR	Q8N983 RM43 37_38_28_35
411	PSRPNIILGL	Q9BTC0 DIDO1 1171_1172_1186_1193
412	PARALFPPLV	O95294 RASL1 556_563_545_546
413	LGMFFIPSGL	Q96EK7 F120B 148_149_130_137
414	TVPPKNTLVI	A6PW82 CX030 581_586_560_563
415	PTAVPSRLLK	Q8WY91 THAP4 78_83_74_77
416	VLNAGLRIIN	Q7RTY8 TMP7 228_234_208_210

417	PKSVKGRAQL	P40227 TCPZ 448_449_428_435
418	KALPMKPKDG	Q7L590 MCM10 340_342_358_364
419	RPLIKNACGL	P23769 GATA2 330_334_317_321; P23771 GATA3 298_302_285_289; P43694 GATA4 252_256_239_243; Q92908 GATA6 425_429_412_416
420	IKTVPASQKL	Q8WV28 BLNK 25_26_8_15
421	LDVSESVPIQ	Q96QF0 RAB3I 74_78_66_70
422	GRAAAVLERF	Q8WY41 NANO1 156_162_146_148
423	RAPTSVLSLF	Q5W0Z9 ZDH20 246_249_223_228
424	FGGVLLPLLY	Q58DX5 NADL2 322_326_308_312
425	GIRCGFNINV	Q9P1U0 RPA12 24_24_39_47
426	TVVSADLLIY	Q9NPB1 NT5M 166_174_150_150
427	MVTVAMIIAF	O95342 ABCBB 878_878_886_894
428	KRSSFVCVGI	P42574 CASP3 110_117_125_126
429	TRACKVASLF	Q7L775 EPMIP 565_566_544_551
430	PKVIKTPSLL	Q9Y6X9 MORC2 712_717_697_700
431	GGRCVYITPM	O75643 U520 1355_1355_1374_1382
432	LTAAHCTKVR	Q86WS5 TMPSC 118_125_112_113
433	LTASQRLTPL	P32970 CD70 171_172_154_161
434	TAMKVNPPLI	A2RRH5 WDR27 75_77_82_88
435	HYVEKAAAVL	Q96PY5 FMNL2 886_893_899_900
436	LLTSDNNVII	Q99567 NUP88 190_195_210_213
437	PNVQARTGFL	P55273 CDN2D 67_70_82_87
438	VKFTRGVALL	P49450 CENPA 76_82_90_92
439	VYSLELPDLG	B4DH59 NBPFP 695_697_682_688; Q3BBV0 NBPF1 1006_1008_993_999; Q3BBV1 NBPFK 735_738_723_728; Q3BBV2 NBPF8 700_702_687_693; Q3BBW0 NBPF9 660_662_647_653; Q5RGN0 NBPFN 660_662_647_653; Q5SXJ2 NBPGF 464_466_451_457; Q5TAG4 NBPF C 62_64_49_55; Q5TI25 NBPF E 395_398_383_388; Q6P3W6 NBPF A 735_737_722_728; Q86T75 NBPF B 735_737_722_728; Q8N660 NBPF F 464_466_451_457  Q5FVE4 ACBG2 152_157_177_180
440	KVNILLPLKA	Q8N5C6 SRBD1 676_677_651_658
441	HINLRSAVSI	Q8NCJ5 SPRY3 221_221_227_235
442	GRVCGTLLEY	Q9NTI5 PDS5B 179_179_195_203
443	DLLDTVLVNL	O95267 GRP1 686_687_696_703
444	PSRKTAQDTL	Q6KC79 NIPBL 1248_1252_1267_1271
445	IKAMGNILEK	P0CG47 UBB 31_33_5_11; P0CG48 UBC 31_33_5_11; P62979 RS27A 31_33_5_11; P62987 RL40 31_33_5_11
446	QDKVKTLTGK	O15146 MUSK 572_572_578_586
447	RVRDIGEGAF	Q9HCS7 SYF1 314_318_330_334
448	ASELGRLARF	Q9NZN4 EHD2 15_17_23_29
449	PEASALKELY	Q9BTL4 IER2 180_188_169_169
450	RRFSGLLNCG	P04035 HMDH 87_87_68_76
451	GTRCIAILYI	O43304 S14L5 422_425_398_403
452	VRAPVKALLR	Q7L5N1 CSN6 78_83_66_69
453	GRNIEVVQVI	P11388 TOP2A 160_160_169_177; Q02880 TOP2B 181_181_190_198
454	GLCNIFSTKF	Q01130 SRSF2 55_56_40_47; Q9BRL6 SRSF8 55_56_40_47
455	RGVGDVYIPR	B5ME19 EIFCL 72_79_86_87; Q99613 EIF3C 72_79_86_87
456	KIRDVTKCLG	P13639 EF2 716_717_727_734
457	RGRCLYASVL	

458	PSQELPERAL	A8MXV6 CD15L 130_135_116_119
459	KEVTICGDLY	O14829 PPE1 165_173_185_185
460	VARPHLEPPK	Q6ZSY5 PPR3F 719_723_736_740
461	LKLPLPPPRL	A6NE52 K1875 1575_1580_1599_1602
462	LKLPLPPPRL	A6NE52 K1875 1575_1578_1597_1602; Q53EP0 FND3B 974_975_957_964
463	KPLPPLPPI	Q8IUX7 AEBP1 292_299_286_287
464	RSIGAMILQR	O00471 EXOC5 377_380_362_367
465	PAQRGLYVTF	Q8IZ26 ZNF34 54_60_35_37
466	IYEPLSGLFL	Q86WK9 MPRA 303_307_316_320
467	IRVEALPILK	Q5TCS8 KAD9 57_65_38_38
468	CSAQRLLLSY	Q6W2J9 BCOR 1525_1528_1547_1552
469	IRPAFTLSHL	Q969V3 NCLN 377_378_381_388
470	KRTTFIIATL	Q8N4C9 CQ078 55_60_65_68
471	GARNVNIFKF	P00338 LDHA 97_99_113_119
472	DHESYLGIAY	O43196 MSH5 81_84_60_65
473	FSFPKSITVF	P53985 MOT1 32_33_36_43
474	PMTSKYVKLN	Q99715 COCA1 370_372_347_353
475	RPPLERAVSR	P40123 CAP2 27_29_11_17
476	PRYSPSQYAL	Q14494 NF2L1 752_753_733_740
477	PQQIQAAQQEL	Q9UH99 SUN2 443_448_422_425
478	QTAIAYLLQY	Q5K651 SAMD9 815_819_808_812
479	SPRYPLLLL	Q8NFM4 ADCY4 6_8_27_33
480	GKVCDIYINY	Q92674 CENPI 586_586_567_575
481	GTMCOPHILRY	P60228 EIF3E 228_228_248_256
482	VPLGSLIYWF	Q9BQT9 CSTN3 354_357_341_346
483	GKLCQHIIKR	Q8NDN9 RCBT1 442_442_457_465
484	EELLALLKY	Q765I0 UTS2B 48_55_43_44
485	GRICEILLQY	Q9HC62 SENP2 498_498_503_511
486	VFLWAKKYGP	Q9Y6A2 CP46A 63_65_67_73
487	LVDVYYIFIK	P56180 TPTE 171_178_181_182
488	FTPLQLQSEF	P0C7M4 RHF2B 141_147_160_162; Q9BQY4 RHXF2 141_147_160_162
489	VHLLMEDTFI	Q8NFY9 KBTB8 230_232_244_250
490	YLDPAQQNLY	B4DXR9 ZN732 37_37_21_29; Q8IYB9 ZN595 37_37_21_29; Q8TB69 ZN519 37_37_21_29
491	EERQQFLAVL	Q96QE3 ATAD5 398_403_380_383
492	PKSEERVIRE	Q8N3Z6 ZCHC7 140_145_148_151
493	RANRRRLAQQM	Q9Y3Y2 CHTOP 38_39_52_59
494	REETELQLVK	Q68DK7 MSL1 291_296_269_272
495	IRPENIIRQL	Q8WZ42 TITIN 32299_32305_32323_32325
496	NRIIMRLLIL	Q9HD23 MRS2 131_136_149_152
497	PKRSQRYESL	P47914 RL29 37_38_25_32
498	RKFEHSAKLR	Q9UPT9 UBP22 420_421_412_419
499	YLDPVQRDLY	Q8NA42 ZN383 39_39_23_31
500	GGRCGSVLVR	P15880 RS2 168_168_186_194
501	GISATVFGISI	Q7Z5Y7 KCD20 169_175_192_195
502	RGSSVGAYVI	Q99683 M3K5 80_86_94_97
503	PSRGGGPLLL	F5H4A9 CC080 34_39_22_26; Q6UXH8 CCBE1 6_10_21_26

504	RRARAAAAAAP	O14514 BAI1 26_32_5_8
505	RAASVGLLLAL	O43292 GPAA1 137_140_160_166
506	PSIGSLARLSS	Q5T0Z8 CF132 584_589_572_576
507	QRPANAVAGVI	P40692 MLH1 26_31_4_8
508	PGRPVLGGSFL	Q9UK96 FBX10 395_396_382_390
509	MRSPSGGRSGI	Q86WI1 PKHL1 3587_3587_3567_3576
510	SVGIQAKAFGK	Q9P2Z0 THA10 191_196_199_203
511	VAHGRSLALSV	Q92616 GCN1L 2495_2496_2483_2491
512	IQAVAGSQPLK	Q92935 EXTL1 436_443_432_434
513	RPAGDVTVTSL	Q53EL9 SEZ6 362_364_366_373
514	PARPASGPIRP	P26373 RL13 29_30_49_57
515	GARLLDGALKL	O75122 CLAP2 123_124_135_143
516	AVLAAQKVISK	P23368 MAOM 285_286_292_300
517	IAMHAALLAI	Q9NT68 TEN2 395_398_383_389
518	ARSAGCFLVTI	Q6ZSM3 MOT12 7_9_23_30
519	GGPRPLFGALR	P05129 KPCG 13_19_23_26
520	VTLIAGCLNKD	A2PYH4 HFM1 810_816_835_838
521	RGGAEPRPLPP	Q8NFV4 ABHDB 45_54_26_26
522	VPRASVPSVQI	Q86YP4 P66A 294_294_272_281
523	PQLKQCSLAGL	A5YKK6 CNOT1 1387_1392_1366_1370
524	TGFLGFGAILY	A1L157 TSN11 74_83_62_62
525	RPSSPVTTKPP	Q96T17 MA7D2 287_292_307_311
526	PNGPDYLSGSY	P09067 HXB5 14_19_30_34
527	LEVLSINNSSP	Q7L985 LIGO2 347_354_342_344
528	LPSFSRVPGLT	Q9UIF9 BAZ2A 846_848_838_845
529	TPSKARNQCLG	Q14680 MELK 466_475_488_488
530	QLEAMTGGEKL	Q8NI27 THOC2 699_707_679_680
531	VGGRDALFTIQ	A7E2Y1 MYH7B 831_831_813_822
532	AKVVDQGHIP	Q702N8 XIRP1 1374_1376_1380_1387
533	AKLMLESTEVG	Q9NZN4 EHD2 391_394_402_408
534	GIDIIEVIVV	Q08257 QOR 217_223_243_246
535	QAGLVVKLLNK	O00522 KRIT1 714_722_704_705
536	VPSKLRVCLG	Q9H8H2 DDX31 488_497_469_469
537	GRVLIEGVLT	Q9H8W4 PKHF2 33_37_39_44
538	LKVILPSLACK	P42166 LAP2A 499_502_513_519
539	PSDLGKNLQTL	Q9UII4 HERC5 801_802_812_820
540	VVQEVSQQAL	Q9Y426 CU025 112_118_106_109
541	LGASELPYVLE	Q96EP0 RNF31 546_548_526_533
542	GPVATEVKNLY	Q9C000 NALP1 1084_1090_1095_1098
543	VIGTLDRPVVK	Q14CZ8 HECAM 87_91_63_68
544	GTTDCLQLLAY	P14923 PLAK 269_269_288_297
545	GRPCIDLDSL	P20591 MX1 34_34_50_59; P20592 MX2 84_84_98_107
546	PFILSGITNRS	Q8IZF6 GP112 1698_1699_1717_1725
547	GLYGMLNLTPK	O43776 SYNC 209_210_182_190
548	GDPRGGEVIFY	P11230 ACHB 222_227_234_238
549	APRNIRVNCGL	P0CG22 DR4L1 204_212_194_195; Q6PKH6 DR4L2 199_207_189_190; Q9BTZ2 DHRS4 201_209_191_192

550	RRILAMGLGIL	Q9H343 O51I1 124_124_142_151
551	APAPKKQRPLL	Q9ULU4 PKCB1 789_792_800_806
552	GQAKVYAQAAQR	Q9NRC6 SPTN5 3158_3164_3184_3187
553	GRPKCVDEVAF	P35249 RFC4 27_27_45_54
554	LHQLGREALAI	Q86TV6 TTC7B 774_779_755_759
555	VGDYDIQIVSL	Q14517 FAT1 3656_3659_3677_3683
556	RKAFSTCGVVR	Q8NGC1 O11G2 273_280_259_261
557	PLHSSEELLSSL	Q9NXR5 ANR10 25_27_15_22
558	PLSSTGRRHTL	P57059 SIK1 483_484_466_474
559	LLTPLAFLILL	Q8WYR1 PI3R5 77_82_55_59
560	KSVEAVVLFLK	Q9UN30 SCML1 253_253_259_268
561	AHKSHTEPLL	O60551 NMT2 414_417_428_434
562	PRSLVHGYPVLL	P14324 FPPS 22_23_34_42
563	PVLFPLLSSRL	Q92935 EXTL1 656_659_646_652
564	APSRRNRSSVLL	O15042 SR140 247_255_257_258
565	LVQAADILLYK	Q9UGM6 SYWM 188_189_164_172
566	GRIKEIFCPKG	P26358 DNMT1 994_1002_981_982
567	RLIDFLECGKG	P17844 DDX5 227_235_207_208
568	VSFDAYVLPKL	Q5JNZ5 RS26L 56_57_59_67
569	QRPPLPLPLLL	Q8IUH8 SPP2C 310_313_320_326
570	GKLCNIFSTKF	P11388 TOP2A 160_160_168_177; Q02880 TOP2B 181_181_189_198
571	KLNPSLITMEI	P33765 AA3R 38_43_16_20
572	LPELSSKLQML	P29375 KDM5A 888_891_871_877
573	AEHIQSNDKKV	Q5FWF5 ESCO1 724_728_713_718
574	RASEKKDSLRSR	Q04726 TLE3 209_213_232_237
575	VGRLQELIDQL	Q96P71 NECA3 245_246_230_238
576	NHLYANKSKPI	Q5TD97 FHL5 215_221_226_229
577	PRNQSLRSITL	Q9BYK8 HELZ2 2257_2258_2275_2283
578	RRIQDAGLLPR	O75962 TRIO 2186_2188_2175_2182
579	GRTCEWTGLKF	Q6UXN9 WDR82 182_182_193_202
580	RRPETRVIAVL	P33076 C2TA 408_410_412_419
581	RRQAMPFKCMG	P50914 RL14 46_55_40_40
582	RADEIEAMIKR	Q460N5 PAR14 1527_1528_1509_1517
583	QRFDARQLKLG	Q9BY77 PDIP3 52_58_67_70
584	GRRCDELTRKM	P17844 DDX5 365_365_352_361
585	ARPGPPLPLLL	Q66K79 CBPZ 18_21_3_9
586	RPASLLLLSA	Q7KYR7 BT2A1 11_19_3_4; Q96KV6 BT2A3 11_19_26_27
587	PVGAVAGVTGVL	O75871 CEAM4 149_155_157_161; P40198 CEAM3 149_155_157_161
588	PKGIGNGCVSKI	O43316 PAX4 69_73_51_57
589	GGYILGGSLLRA	Q3KNS1 PTHD3 302_309_316_319
590	GTFPGANIIGNK	P04150 GCR 298_299_306_315
591	PARIITGPAPVL	Q96PU8 QKI 212_213_227_236
592	QKGNPSAVTLPV	Q9ULT6 ZNRF3 340_346_362_366
593	GTICLAHALTVL	Q9HD20 AT131 88_88_106_116
594	VVGRDGTGCLLK	P28329 CLAT 429_437_457_459
595	LGFEVGAGWIGK	P51659 DHB4 253_254_237_246
596	PARRGRGSSTVL	Q96HE8 TMM80 19_20_30_39

597	GTPTRSSVITEL	Q05516 ZBT16 281_290_294_295
598	GIMADFLQSSIS	Q6UXX5 ITIH6 241_247_234_238
599	EAAPPVLLLLQL	A6NES4 MRO2A 1294_1300_1283_1287
600	RVPDGRRAGNAL	P0C1Z6 TFPT 194_196_198_206
601	PVRDGRRAGNAL	P0C1Z6 TFPT 212_213_197_206
602	HLNKIDPVAAVL	O43813 LANC1 139_145_116_120
603	APRRPTQGTVTF	Q8TAU3 ZN417 5_10_12_17
604	TVVGVDQLIYNL	P00338 LDHA 24_28_6_12
605	PSRNLQPQRAAL	Q6ZS81 WDFY4 1020_1021_1009_1018
606	KPDFKRSIVCGL	Q8N5C6 SRBD1 903_912_888_889
607	LAFPLLPKVLLQK	O96006 ZBED1 595_596_598_607
608	LEESDSRQISIP	Q8TAD4 ZNT5 411_419_398_400
609	YDVKNEIVYALK	Q6AHZ1 Z518A 21_28_43_46
610	EMKTTNEKLLQK	Q96LB3 IFT74 232_242_212_212

## GR-LCL EThcD 1D – non-spliced peptides

#	sequence	origin
1	GRAPGGLSL	P17275 JUNB 21_29
2	APKPGGLSL	Q8NCH0 CHSTE 87_95
3	APGGGRLLL	Q68E01 INT3 30_38
4	KPLAAALGL	Q03518 TAP1 157_165
5	SPAGLKAVL	Q6P9B9 INT5 681_689
6	AARAVTGVL	Q9UG63 ABCF2 69_77
7	LPRGLLAGAL	O00587 MFNG 5_13
8	RPAGALVAL	Q2T9J0 TYSD1 270_278
9	APIAKVGVL	Q9UHB6 LIMA1 496_504
10	APAGRKVGL	P62917 RL8 229_237
11	KPVIPAAAL	P14921 ETS1 318_326
12	RAAGLGLLL	Q6UXM1 LRIG3 9_17
13	AAVRIGSVL	Q9Y5B0 CTDP1 41_49
14	ARAAAAAFVL	O60518 RNPBP6 202_210
15	GRFGMAAAL	P49748 ACADV 340_348
16	GVSAATFLK	B5ME19 EIFCL 190_198; Q99613 EIF3C 190_198
17	GVRPPAPSL	Q92673 SORL 1840_1848
18	GVHGGLINK	P07737 PROF1 118_126
19	KPPSPGTVL	Q96G74 OTUD5 474_482
20	SPALPGLKL	O14836 TR13B 147_155
21	GRAPVLVAL	O75365 TP4A3 109_117; Q12974 TP4A2 106_114; Q93096 TP4A1 109_117
22	RPSAAGINL	Q08211 DHX9 1140_1148
23	GRVLIGVGK	Q15393 SF3B3 957_965
24	GRLAAIVAK	P40429 RL13A 17_25
25	SPASPKISL	Q8WWM7 ATX2L 493_501
26	APRTVALTA	P04440 DPB1 9_17
27	RPSGAVVTL	Q9Y314 NOSIP 240_248
28	IVAGSLITK	O75400 PR40A 225_233
29	AVAIKAMAK	P63241 IF5A1 146_154; Q6IS14 IF5AL 146_154
30	RPAPAAPLL	Q96PM9 Z385A 349_357
31	TPHAVGVLL	Q9UBM7 DHCR7 334_342
32	APLPGRAIL	Q9P265 DIP2B 689_697
33	KPVIPAAVL	P15036 ETS2 346_354
34	RPSGPGPEL	P51531 SMCA2 261_269
35	GPAPRVLSL	P49750 YLPM1 1668_1676
36	RPRPGTGLG	Q9BVK6 TMED9 11_19
37	APGVRAVEL	Q9Y508 RN114 72_80
38	APASRLLAL	Q96S16 JMJD8 72_80
39	IIAIPPTGVK	P00395 COX1 311_319
40	RPSGPSKAL	P48444 COPD 218_226
41	GRVAPRSGL	P33316 DUT 168_176
42	NPASKVIAL	P53675 CLH2 74_82; Q00610 CLH1 74_82
43	IPKSAVGEL	P05107 ITB2 337_345; P26010 ITB7 363_371
44	LPRGGGLTSI	A2RUS2 DEND3 1029_1037

45	RVRGAVASV	Q14764 MVP 578_586
46	LPKTGTVSL	P49327 FAS 925_933
47	KSLSLSPGK	P01857 IGHG1 322_330; P01859 IGHG2 318_326; P01860 IGHG3 369_377
48	SPASRSISL	P32970 CD70 134_142
49	GPALGRSFL	P32970 CD70 78_86
50	LPKPPGRGV	Q8N531 FBXL6 341_349
51	SLGVAALYK	P09669 COX6C 30_38
52	APSPLRAL	Q14674 ESPL1 328_336
53	APAPRPSLL	Q92620 PRP16 41_49
54	LPAGVRVPL	Q9H6R4 NOL6 133_141
55	LPALPTQAL	Q9P2Q2 FRM4A 166_174
56	SPRPVALAL	Q8N201 INT1 1372_1380
57	GRALIPLAL	Q9H3U1 UN45A 690_698
58	RPAALRGAL	O00584 RNT2 2_10
59	AAMFGPKGF	P50238 CRIP1 58_66
60	IPAEGRVAL	Q9UBQ7 GRHPR 15_23
61	RPAALTALL	Q8NBS9 TXND5 14_22
62	RPGVSILAL	Q13206 DDX10 337_345
63	LPTLKAavi	Q3ZCQ3 F174B 88_96
64	RLRLGGAAL	P53801 PTTG 14_22
65	LPRSSAVVV	Q14669 TRIPC 512_520
66	IPLLGKSSL	Q9NYP3 DONS 544_552
67	YPAAVPQAL	Q9H0Z9 RBM38 207_215
68	SPRLPVGGF	Q14669 TRIPC 1921_1929
69	SPIEKSGVL	Q8NG31 CASC5 837_845
70	LPSKPSSTL	Q9UNF0 PACN2 337_345
71	GPSVLRSTL	O75376 NCOR1 1455_1463
72	ALPALVMSK	P36578 RL4 132_140
73	AARVVLTSI	Q16690 DUS5 104_112
74	GRTGTIIIVI	P29350 PTN6 458_466
75	GRTSRIAGL	Q92542 NICA 113_121
76	KPSPIYGGL	P03923 NU6M 22_30
77	GRVGVFPSL	Q86WN1 FCSD1 594_602
78	GRIGVFPSV	O94868 FCSD2 614_622
79	SVNGKVLSK	P69849 NOMO3 130_138; Q15155 NOMO1 130_138; Q5JPE7 NOMO2 130_138
80	GRVVALLGF	Q16611 BAK 126_134
81	AIRNAMGSL	P55036 PSMD4 351_359
82	RPAPPRAPA	Q53GL7 PAR10 81_89
83	KPKAPPPL	Q9NZZ3 CHMP5 9_17
84	GRAALITSF	Q9H7F0 AT133 928_936
85	LPQLPLAAL	P23610 F8I2 173_181
86	IPRILGPGL	P62906 RL10A 120_128
87	GRSGKAITF	Q9H0S4 DDX47 358_366
88	GRGSFMLGL	Q92905 CSN5 281_289
89	APSPRPLSL	Q6NUT3 MFS12 11_19
90	LPQLTGPVL	P41229 KDM5C 1381_1389; Q9BY66 KDM5D 1365_1373
91	VISPPTVPK	Q9H9Y6 RPA2 81_89

92	APRLPITGL	Q8TF50 ZN526 559_567
93	APRRPGPGM	Q92611 EDEM1 86_94
94	LPHSATVTL	Q8WUA7 TB22A 168_176
95	ISFGAFVAK	Q07820 MCL1 268_276
96	NPRVKAAAL	O15269 SPTC1 114_122
97	LPALRSIGL	P19793 RXRA 422_430; P28702 RXRB 493_501; P48443 RXRG 423_431
98	APHLVGPHL	Q6P2I3 FAH2B 34_42; Q96GK7 FAH2A 34_42
99	SPLNRAGLL	Q92979 NEP1 98_106
100	RPRAATVVA	P10644 KAP0 333_341; P31321 KAP1 333_341
101	KAASVRPVL	Q9H269 VPS16 58_66
102	KPLGIKTAL	Q63HN8 RN213 4349_4357
103	ARKAVLVAL	P26640 SYVC 636_644
104	APRHGSLGF	P39023 RL3 8_16
105	LPRTPGTSL	Q9BYL1 SAM10 55_63
106	LPAGSRVEL	P20023 CR2 672_680
107	TPAVGRLEV	Q53HL2 BOREA 171_179
108	GRIGQAIAR	Q9UBQ7 GRHPR 162_170
109	VPRSASVLL	Q9Y3Q3 TMED3 5_13
110	SPIGRDGKL	P30876 RPB2 487_495
111	ARLGIVISKV	Q9ULT8 HECD1 616_624
112	TASGVFSKF	P18858 DNLI1 400_408
113	IPMTGKPSL	Q9H9Y6 RPA2 598_606
114	ALSTPVVEK	P29084 T2EB 16_24
115	VTDAVALRV	O43427 FIBP 29_37
116	AARAIISEL	P78344 IF4G2 647_655
117	SPGQRSISL	P00519 ABL1 157_165
118	LPHVPLGVI	Q9Y679 AUP1 374_382
119	GRKGVAINM	P60842 IF4A1 367_375
120	GRVAISPFW	Q5H9U9 DDX6L 1566_1574; Q8IY21 DDX60 1582_1590
121	SPLTKSISL	Q12802 AKP13 1683_1691
122	GRSAAVWSL	P11309 PIM1 311_319
123	TPKNTSVSL	Q96TA2 YMEL1 25_33
124	ARAGALFQL	Q6ZTW0 TPGS1 196_204
125	GPAPVGRFF	Q8TDP1 RNH2C 40_48
126	RPAPPPEAL	Q9NQG6 MID51 288_296
127	TLFASPLAK	Q96HA1 P121A 104_112
128	HPAAFPLPV	Q9H6Y7 RN167 2_10
129	HPLEVGLAL	Q9Y2X0 MED16 463_471
130	ILGPMFSGK	P04183 KITH 24_32
131	GRTGLALYV	O60725 ICMT 40_48
132	APRVPVQAL	O75179 ANR17 744_752
133	KVSAVTLAY	P15391 CD19 291_299
134	PAPLSLLIK	Q8N2C7 UNC80 1570_1578
135	RPAWAPAAL	P48735 IDHP 18_26
136	GRAPQVLVL	Q9NR30 DDX21 258_266
137	RPRLVAAAV	O95905 SGT1 224_232
138	RPAPLSAEL	P53602 MVD1 346_354

139	KPAESLPVI	Q8IWX5 SGPP2 302_310
140	ITAPPSRVL	O00767 ACOD 20_28
141	KPKAVGLQL	P48595 SPB10 233_241
142	IPSGKRALI	Q8IZP0 ABI1 12_20
143	GPRLTVKAL	Q86UV5 UBP48 545_553
144	SPIKRALGL	Q15751 HERC1 2578_2586
145	IAIGKVLKL	P15170 ERF3A 486_494; Q8IYD1 ERF3B 615_623
146	VPSKPPMSL	Q6AI12 ANR40 223_231
147	IPAKPPVSF	Q6PKC3 TXD11 92_100
148	KPKIATANL	Q6NUQ4 TM214 230_238
149	TPAVIRISV	P51610 HCFC1 1143_1151
150	KPGRKGISL	P53999 TCP4 97_105
151	VPATDRNAL	P60228 EIF3E 158_166
152	GRVNVVEAL	Q8IVB5 LIX1L 96_104
153	IRSGISPNL	Q6UVJ0 SAS6 505_513
154	GRTGLRVVV	Q8TEM1 PO210 1249_1257
155	RVRASAALL	Q9NV31 IMP3 72_80
156	KISALALLK	Q92905 CSN5 56_64
157	SRPPPAEGF	A8MXV4 NUD19 34_42
158	LPSTRLGTL	Q7KZF4 SND1 772_780
159	GRLGLVTSR	Q7Z3U7 MON2 593_601
160	SVAQLLLSK	P29375 KDM5A 796_804
161	IPKFAVATL	P28072 PSB6 228_236
162	SARAIMAQL	P26232 CTNA2 667_675; P35221 CTNA1 668_676
163	SPNAIFKAL	P48436 SOX9 199_207
164	VNVVPTFGK	P62861 RS30 43_51
165	KPANVFITA	Q8TDX7 NEK7 163_171; Q9HC98 NEK6 174_182
166	KLGDIMGVK	Q92620 PRP16 474_482
167	HPKKPGPSL	Q9UMZ2 SYNRG 192_200
168	GRSAVVEML	Q13418 ILK 45_53
169	GRKGVAINF	P38919 IF4A3 372_380; Q14240 IF4A2 368_376
170	GRIGQVGKF	Q8NDD1 CA131 264_272
171	LPYKAGLSL	Q96P48 ARAP1 868_876
172	LPRPVPLVA	Q9H1C4 UN93B 399_407
173	GRFSGLLGR	Q14005 IL16 881_889
174	KRLGASLAF	P78527 PRKDC 1074_1082
175	IPKPLNPAL	P62952 BLCAP 13_21
176	SPRPAPLLL	Q9UHK6 AMACR 324_332
177	SAFPFPVTV	Q96K37 S35E1 53_61
178	GRNALIHAL	Q05823 RN5A 202_210
179	VPASKRPPL	O60682 MUSC 23_31
180	GTYYVSSVPR	P06340 DOA 242_250
181	LPKEHAASL	Q9H0A8 COMD4 98_106
182	GRTVLVIAH	Q9NRK6 ABCBA 682_690; Q9NUT2 ABCB8 660_668
183	LPRLGLLAL	Q8WUA4 TF3C2 493_501
184	GRYGGGETKV	Q16629 SRSF7 5_13
185	SPRAPVQVI	Q9BRP4 PAAF1 310_318

186	LPRRAALGL	Q6B0I6 KDM4D 366_374; Q6UXH1 CREL2 3_11
187	RPAALGLRL	Q9UJA2 CRLS1 52_60
188	KLLGPVLVK	O15212 PFD6 58_66
189	GRYDGLVGM	P12081 SYHC 361_369; P49590 SYHM 362_370
190	GRAYVITGM	Q5R372 RBG1L 360_368
191	ILFGGYVAK	O95807 TM50A 114_122
192	RILGPGLNK	P62906 RL10A 122_130
193	IPIILQSAL	P61619 S61A1 289_297; Q9H9S3 S61A2 289_297
194	LPKGKALEL	Q9ULJ3 ZBT21 262_270
195	RRLGLALGL	Q15293 RCN1 8_16
196	LTGPVMPVR	P26373 RL13 150_158
197	ARLGALQQL	Q13488 VPP3 252_260
198	RRAAIAQAL	Q2TAY7 SMU1 141_149
199	LPRALLSSL	Q96RQ9 OXLA 269_277
200	TPISRLVAL	Q9H765 ASB8 186_194
201	SLSPVILIK	Q9Y4K1 AIM1 1050_1058
202	GPRGRVSEL	Q8WTP8 AEN 121_129
203	NPRLIASSL	Q14C86 GAPD1 106_114
204	KRTGLLIGL	Q8WYP5 ELYS 90_98
205	GRLLGIITK	P51790 CLCN3 789_797; P51793 CLCN4 731_739; P51795 CLCN5 717_725
206	MPRGVVVTL	Q9ULT8 HECD1 851_859
207	GRVGVITNR	P22090 RS4Y1 190_198; Q8TD47 RS4Y2 190_198
208	ARSGLELLL	Q8WXF8 DEDD2 62_70
209	GPRAVFVLL	P19532 TFE3 18_26
210	KLGGVIKEK	Q9Y2X3 NOP58 93_101
211	GVADKILKK	Q13287 NMI 211_219
212	RVGPVRSAM	Q96RU8 TRIB1 2_10
213	FPNIPGKSL	O15121 DEGS1 265_273
214	KVFGGTVHK	P49915 GUAA 112_120
215	RRSALGITV	Q14145 KEAP1 553_561
216	ARAKIPLGF	Q9NR09 BIRC6 1869_1877
217	RILSGVVTK	P62280 RS11 71_79
218	KSDGSFIGY	P31751 AKT2 30_38
219	RPLFPGSTV	Q00536 CDK16 359_367; Q00537 CDK17 386_394; Q07002 CDK18 336_344
220	RASAVRNSL	Q6N063 OGFD2 308_316
221	SPFLLGRAL	Q96P70 IPO9 491_499
222	KPHVLPAVL	Q53H96 P5CR3 77_85
223	SPWADNTAL	P57076 CU059 267_275
224	SRAGLQFPV	P04908 H2A1B 20_28; P0C0S8 H2A1 20_28; P16104 H2AX 20_28; P20671 H2A1D 20_28; Q16777 H2A2C 20_28; Q6FI13 H2A2A 20_28; Q7L7L0 H2A3 20_28; Q8IUE6 H2A2B 20_28; Q93077 H2A1C 20_28; Q96KK5 H2A1H 20_28; Q96QV6 H2A1A 20_28; Q99878 H2A1J 20_28; Q9BTM1 H2AJ 20_28
225	GRTSLTNLL	P30048 PRDX3 36_44
226	GRLPYKAGL	Q96P48 ARAP1 866_874
227	KRLGLLAGF	P55061 BI1 83_91
228	VPRSSSMVL	Q9H992 MARTH7 124_132
229	IPTSARSML	Q8WXI9 P66B 522_530
230	GRTAKSWGL	P54709 AT1B3 30_38

231	TPRGTLA	Q99519 NEUR1 85_93
232	KPGLFSLTL	Q13510 ASAHI 215_223
233	RPPAVPLLL	O75474 FRAT2 87_95
234	GRSATVWSL	Q86V86 PIM3 223_231
235	ARNALTALF	Q9ULV3 CIZ1 852_860
236	RVSAIFVGK	Q9BTD3 TM121 244_252
237	HPLSNPAEL	Q13907 IDI1 88_96
238	GLFALPFGR	Q14669 TRIPC 1675_1683
239	GRLLVATTF	P41252 SYIC 385_393
240	GPRKGTHLL	Q7KZ85 SPT6H 993_1001
241	RPAAIPIEI	Q9Y2H1 ST38L 394_402
242	APRALLLLL	P10321 1C07 5_13; Q29865 1C18 5_13
243	ARPALLLLL	Q86UD1 OAF 9_17
244	ARIALLPLL	Q9P0J0 NDUAD 67_75
245	TRSGAIFTK	P52701 MSH6 720_728
246	SRASTLAKF	P04035 HMDH 135_143
247	HRNGLLITL	Q96H20 SNF8 113_121
248	KIGGIFAFK	P22307 NLTP 454_462
249	LPASPRARL	Q3KQU3 MA7D1 443_451
250	KPLPLKTAL	P32314 FOXN2 260_268
251	KPASFMTSI	P53396 ACLY 836_844
252	RSLGPLLLL	Q6UXH8 CCBE1 18_26
253	GRSSVFSSR	Q8IZF4 GP114 39_47
254	RPLLKAITA	Q96GQ7 DDX27 227_235
255	RRLAAVALI	P46940 IQGA1 387_395
256	GRFFLSSGL	Q9BTW4 TMM43 188_196
257	NAAERRGPL	P01903 DRA 246_254
258	KPKGVKTAIL	O95243 MBD4 230_238
259	RPQASALEL	P36956 SRBP1 1003_1011
260	LKDQQGITL	O95273 CCDB1 106_114
261	ARAALQELL	P62851 RS25 84_92
262	ARLQTALLV	Q9NRC6 SPTN5 739_747
263	KRTAVLLAL	P33897 ABCD1 16_24
264	TPKEKAQAL	P46013 KI67 1213_1221
265	GRIGVITNR	P62701 RS4X 190_198
266	LPKTTALEL	P18583 SON 364_372
267	APASPFRQL	Q07021 C1QBP 23_31
268	KPSSTTPRL	P27816 MAP4 912_920
269	SRNEALIAL	P13796 PLSL 243_251; Q14651 PLSI 245_253
270	APKSQIVML	Q8TCS8 PNPT1 221_229
271	QPRIFGGVL	O00165 HAX1 137_145
272	SPSFPRPSL	Q92610 ZN592 1052_1060
273	LPLPNFSSL	P08670 VIME 413_421
274	LVRDVVSSL	Q9NQ55 SSF1 117_125
275	LPKADIFAL	P0C1S8 WEE2 412_420; P30291 WEE1 495_503
276	TPLARIVAF	P24752 THIL 307_315
277	SPQGRVMTI	Q15365 PCBP1 173_181

278	SPRLMSNAL	Q9NZJ7 MTCH1 153_161
279	FPQVGRALT	P49682 CXCR3 207_215
280	ARLASLMNL	P43243 MATTR3 50_58
281	GRIPGIYGR	Q9NTJ3 SMC4 610_618
282	KPSPKTIAF	Q9BRU9 UTP23 149_157
283	KPSLPFTSL	P31785 IL2RG 3_11
284	APRVLSFSL	P29728 OAS2 461_469
285	QRLGAKLGF	Q9Y487 VPP2 167_175
286	SPRGAGWLF	O00743 PPP6 208_216
287	ATFPLSVQK	P26196 DDX6 278_286
288	KPGKFVTTL	P17707 DCAM 276_284
289	APGEFRAIM	P55265 DSRAD 469_477
290	LTMSSSRLP	Q7RTS1 BHA15 132_140
291	APRTFSNSL	Q99551 MTERF 200_208
292	RIATGSFLK	P22234 PUR6 102_110
293	GRAIITKSF	Q99798 ACON 683_691
294	SPNAEIHIL	Q14807 KIF22 543_551
295	MRLGSIFGL	Q13200 PSMD2 477_485
296	APKAFIISF	Q9HAB8 PPCS 222_230
297	KPTHVVVTL	Q14690 RRP5 1047_1055
298	RVYGGLTTK	Q8WUM4 PDC6I 606_614
299	SSFSGLLRK	Q5VY09 IER5 275_283
300	GRVPLILNL	Q15648 MED1 402_410
301	LSDLGKLSY	Q9H7Z6 KAT8 353_361
302	KPLSFSAVF	Q9UMZ2 SYNRG 629_637
303	VPRLLGDIL	Q9Y6C9 MTCH2 183_191
304	APELLRALL	Q00653 NFKB2 574_582
305	VPRAILVDL	P07437 TBB5 60_68; Q13509 TBB3 60_68; Q13885 TBB2A 60_68; Q9BVA1 TBB2B 60_68
306	LPVLREGVL	Q92616 GCN1L 2265_2273
307	RPAPARPTM	Q9Y3L3 3BP1 567_575
308	QVRPLPLGTL	O43148 MCES 448_456
309	IPASNRLLL	Q2NKX8 ERC6L 247_255
310	RTIAPIIGR	Q99459 CDC5L 83_91
311	LPSRKLVVAL	Q969U7 PSMG2 80_88
312	QRAGLLLLL	O95159 ZFPL1 263_271
313	SPRSGYFAL	Q9Y5J1 UTP18 530_538
314	SPQAPTHFL	P49773 HINT1 45_53
315	HPAAKMIVM	P50990 TCPQ 80_88
316	NPEINKAVL	O43402 EMC8 199_207
317	KPRLAGENL	Q5T6F0 DCA12 384_392
318	IPALRDISI	P57054 PIGP 132_140
319	IPRSITVLV	P33993 MCM7 249_257
320	GTDGHVHLY	Q96EX3 WDR34 412_420
321	LPNGLRESI	Q96P70 IPO9 113_121
322	LPRIQSTAL	Q13085 ACACA 836_844
323	TPAIKRSIL	P10242 MYB 452_460

324	ARTSYLAAF	Q4ZIN3 MBRL 300_308
325	LPRTAISEL	Q9NRC8 SIR7 178_186
326	KPKTGRSLL	P30260 CDC27 261_269
327	ARVTKVLGR	P62857 RS28 12_20
328	YPSLPTPLL	A8CG34 P121C 175_183; Q96HA1 P121A 198_206
329	KPLSRVTS	Q9NR81 ARHG3 40_48
330	GRTELAIKL	Q9H269 VPS16 530_538
331	KASLRELAL	P13489 RINI 226_234
332	KVRGISEVL	O95140 MFN2 84_92
333	RLFIGGIPK	A0AV96 RBM47 152_160
334	GTMGTGMLYK	O14925 TIM23 161_169; Q5SRD1 TI23B 161_169
335	GRNTIQITV	Q8NF64 ZMIZ2 519_527; Q9ULJ6 ZMIZ1 660_668
336	TPAFPRSLL	Q7LBC6 KDM3B 602_610
337	GRSKTIVQL	Q9UPN3 MACF1 850_858
338	TPALARLFL	Q7Z6Z7 HUWE1 2128_2136
339	SPAVFRLVL	Q14526 HIC1 90_98
340	KILSNVISK	Q7Z401 MYCPP 1065_1073
341	SPRWGGIMV	Q96S52 PIGS 353_361
342	GRNALEIVM	A3KN83 SBNO1 1042_1050
343	QRTDVLTGL	Q6SPF0 SAMD1 497_505
344	KRGDFIPGL	P08559 ODPA 244_252
345	KRISTITAL	Q96T23 RSF1 426_434
346	IRPGTAFEL	Q15149 PLEC 4095_4103
347	GRYEVAVPL	Q07866 KLC1 227_235; Q6P597 KLC3 221_229; Q9H0B6 KLC2 212_220; Q9NSK0 KLC4 225_233
348	LPYSVGRVL	Q5THK1 PR14L 1877_1885
349	GRIGNFIVK	Q00796 DHSO 55_63
350	GRFHGGNLF	P55789 ALR 8_16
351	RRTAVTSL	Q9P0M9 RM27 9_17
352	VAYGKGTYF	Q460N5 PAR14 1707_1715
353	SPNGHRPQL	Q5SNT6 FA21B 987_995; Q5SRD0 FA21D 42_50; Q641Q2 FA21A 1075_1083; Q9Y4E1 FA21C 1052_1060
354	GPRLASEYL	O43290 SNUT1 383_391
355	GRLTVMTDL	Q12907 LMAN2 222_230
356	VRSALAFEL	Q6P1X6 CH082 168_176
357	VRTGLSLLF	Q15751 HERC1 162_170
358	GRIVTLISF	Q07820 MCL1 262_270
359	IRSSLGGF	P42704 LPPRC 540_548
360	SRFGTLVNL	Q5T8P6 RBM26 554_562
361	SPWLHAPSL	O60667 FAIM3 352_360
362	IASDIVSRF	Q96N67 DOCK7 1052_1060
363	LPRFFGTAV	Q5JTH9 RRP12 413_421
364	RPGAFAIYL	P23921 RIR1 293_301
365	ALFLTLTTK	P00403 COX2 41_49
366	MPHVPITTL	Q6KC79 NIPBL 5_13
367	SPSSKYVKL	Q9H3F6 BACD3 28_36
368	GRTEVSFTL	P13984 T2FB 50_58
369	SRLGSVFPF	Q13217 DNJC3 9_17

370	IPELRLGVL	Q99490 AGAP2 404_412
371	RPQLKGVVL	O15235 RT12 55_63
372	LPAPSWRAL	O94898 LRIG2 61_69
373	RRPPPPPPP	O15047 SET1A 1401_1409; P48023 TNFL6 43_51
374	RPTPRGITL	Q7Z614 SNX20 298_306
375	RLASKVISH	Q6YHU6 THADA 1655_1663
376	RPKPIITSV	P0CG13 CTF8 109_117
377	RPTLPVKSL	Q7Z422 SZRD1 80_88
378	KLLAIPVEK	O75717 WDHD1 200_208
379	KRVPLTALL	Q9H2D6 TARA 2042_2050
380	VAVGRALYY	Q16531 DDB1 510_518
381	RPKAQPTTL	Q6P2C8 MED27 147_155
382	KPINSVQL	Q7RTV5 AAED1 201_209
383	SRANSLFAF	P61009 SPCS3 6_14
384	SPRKPIDSL	Q9UQ35 SRRM2 2677_2685
385	NPRSVTLLI	P40227 TCPZ 368_376
386	QRSALVLLL	Q96FL8 S47A1 117_125
387	RRLATLLGL	Q14152 EIF3A 353_361
388	IVRKLVTAL	Q8TEV9 SMCR8 742_750
389	FPQHTIASL	Q13888 TF2H2 254_262; Q6P1K8 T2H2L 254_262
390	RPAANPIQF	P23921 RIR1 742_750
391	LPSPFLRAL	O95456 PSMG1 184_192
392	RLSNLALVK	O14737 PDCD5 55_63
393	SPRNEVEAL	Q5R372 RBG1L 144_152
394	RPYQPLGAL	Q9Y5Y2 NUBP2 149_157
395	MPALRSINL	Q8TCA0 LRC20 143_151
396	NKTDVVVLIL	O43293 DAPK3 85_93
397	KPILSTRSL	O95456 PSMG1 251_259
398	RVSLKDLAL	Q8WTP8 AEN 231_239
399	IRAGLIPKF	P52292 IMA1 116_124
400	SRSKIVLLV	Q93073 SBP2L 207_215
401	PTAVVPLRY	Q9UIQ6 LCAP 169_177
402	RRSNVLTGL	O00257 CBX4 88_96
403	KRTTVVAQL	P60228 EIF3E 73_81
404	RPLFTLVGL	Q96EK9 KTI12 227_235
405	SVAKTILKR	Q7L9L4 MOB1B 146_154; Q9H8S9 MOB1A 146_154
406	KPKEADESL	Q9Y490 TLN1 2331_2339
407	KPRDSSVEV	O15371 EIF3D 156_164
408	QRSDIATLL	Q9Y4E8 UBP15 12_20
409	NPRALSFVL	P00973 OAS1 128_136
410	RPDGKLLAF	Q9UJX5 APC4 74_82
411	VAKLILVNF	O95376 ARI2 90_98
412	GRKAIIFV	P62081 RS7 56_64
413	AINDPFIDL	P04406 G3P 32_40
414	SPRITFPSL	P51451 BLK 190_198
415	RRGQFVAAL	Q6ZNJ1 NBEL2 2583_2591
416	LPKSYIALL	O15050 TRNK1 2434_2442

417	KVKNVGIFL	Q9Y5B9 SP16H 424_432
418	SPRQLFSAL	Q9NTJ4 MA2C1 492_500
419	IPKQVSISF	Q96D46 NMD3 46_54
420	GRLLINSVF	Q96CP6 GRM1A 368_376
421	RLTTPVFGK	Q16850 CP51A 133_141
422	HPIRVVNAL	Q5T2E6 CJ076 93_101
423	LRYPMAVGL	Q9Y3U8 RL36 3_11
424	GRDSLIFLV	P12956 XRCC6 34_42
425	HPRVGDLIL	Q53GS7 GLE1 513_521
426	RARPATDSF	P23588 IF4B 200_208
427	YRAQPSVSL	Q96PK6 RBM14 237_245
428	KVANIILSY	Q96JI7 SPTCS 1273_1281
429	KPFLLGTVF	Q5SR56 HIAL1 110_118; Q5VZR4 HIAL2 110_118
430	GRWPGSSLY	Q14739 LBR 14_22
431	HPNSNLLDL	P63010 AP2B1 191_199
432	ARFGLIQSM	P53990 IST1 81_89
433	RPSPWVPAL	Q63HK3 ZKSC2 197_205
434	RPRHSVASL	P29375 KDM5A 966_974
435	GRSLIINHL	Q9H892 TTC12 373_381
436	RPVKPELAL	Q86XI2 CNDG2 753_761
437	AVLTKQLLH	Q14094 CCNI 179_187
438	RPNPITVIL	P35555 FBN1 1596_1604
439	AMLDTVVFK	O00487 PSDE 302_310
440	GRFFTILGL	A0PJW6 TM223 42_50
441	GRIVTIFAF	Q16548 B2LA1 87_95
442	TRSAIILHL	P53350 PLK1 517_525
443	LPLLRLVLSI	Q15345 LRC41 547_555
444	NSDVSLNY	Q86Z02 HIPK1 604_612
445	GRVSIYDSK	P55265 DSRAD 1107_1115
446	GRMSIKAYV	O00303 EIF3F 209_217
447	YTAVVPLVY	P01591 IGJ 132_140
448	IPREVAVKL	Q9NZJ4 SACS 2488_2496
449	RAASFVFLY	Q9NRF9 DPOE3 39_47
450	APRVLQQTL	O95373 IPO7 318_326
451	LPKVQSQL	A2VDJ0 T131L 208_216
452	RPKALTQVL	Q9Y2Q5 LTOR2 3_11
453	RPQVAKTLL	Q9ULT8 HECD1 439_447
454	KRMGMSFGL	Q14188 TFDP2 316_324
455	SLFNTGFLK	Q7Z2T5 TRM1L 534_542
456	RPRPTEATV	Q92619 HMHA1 940_948
457	KPVPHSSF	Q9Y520 PRC2C 1297_1305
458	RPSVRNGQL	Q96EB1 ELP4 53_61
459	RVMAPRALL	P10321 C07 2_10; Q29865 C18 2_10
460	RVRTLVLGL	O75081 MTG16 198_206; Q06455 MTG8 147_155
461	SRNAQTFGF	Q9NSV4 DIAP3 854_862
462	LPQANRDTL	Q9H0H5 RGAP1 465_473
463	VAINHIVDF	P78346 RPP30 33_41

464	KPGDFIHTL	P04818 TYSY 244_252
465	GRHGVFLEL	Q13200 PSMD2 299_307
466	APDSQRQLKL	Q9UQE7 SMC3 150_158
467	GRIGRLVTR	P04406 G3P 12_20
468	ARLVFVPLL	Q99808 S29A1 367_375
469	GRVPLILFL	Q92823 NRCAM 15_23
470	GRLGYLNHV	P51948 MAT1 267_275
471	ARLLMPSQL	Q9NX09 DDIT4 115_123
472	KPMEKLLGL	Q9Y3D3 RT16 85_93
473	GRVIQIVLM	Q05655 KPCD 66_74
474	NKTDVILIL	P53355 DAPK1 85_93
475	RAFGIPIRV	P06493 CDK1 151_159
476	RRSGLILTI	Q86VW0 SESD1 23_31
477	RPAQVSQPF	Q9Y520 PRC2C 2628_2636
478	KSTAISLFY	P13639 EF2 71_79
479	APYPVIKEL	Q8IZA0 K319L 301_309
480	RPDGFLVL	Q86V86 PIM3 115_123
481	LPKEAFLVL	Q6VMQ6 MCAF1 487_495
482	KPWTALDSL	Q9Y6G9 DC1L1 154_162
483	GLTDVILYH	O60506 HNRPQ 269_277
484	IPNFPRTSTV	P00491 PNPH 53_61
485	RPRISTSTL	Q9Y3A0 COQ4 102_110
486	FRIEGLAPK	Q8N4H5 TOM5 2_10
487	KPINFSVIL	Q9Y3T9 NOC2L 498_506
488	RARQDSVSL	P55199 ELL 42_50
489	HRLGLIPLI	P19387 RPB3 66_74
490	GRPCKIVEM	P63241 IF5A1 35_43; Q9GZV4 IF5A2 35_43
491	VRNPFTVTV	Q49AG3 ZBED5 574_582
492	ARLPLVNSY	P42858 HD 2400_2408
493	LRSKIMTAL	P33527 MRP1 153_161
494	HIHKSLIGK	P0C0S5 H2AZ 113_121; Q71UI9 H2AV 113_121
495	KPRSLQTGF	Q9H0Z9 RBM38 114_122
496	IPRPILELL	P24557 THAS 221_229
497	RLKDGVLAY	Q14690 RRP5 385_393
498	IRNTIYAAL	Q96F07 CYFP2 475_483
499	ARFPETPAF	Q9P2P5 HECW2 666_674
500	RPHTVLTVI	Q12788 TBL3 678_686
501	QSELVGQLY	O00429 DNM1L 683_691
502	RPAFKGLTF	Q969P5 FBX32 217_225
503	RRAFIGIGF	Q9NVZ3 NECP2 101_109
504	LPKQPPLML	Q6VN20 RBP10 582_590
505	IRNIPIPTL	P28289 TMOD1 205_213
506	RPVVRLPSL	Q9NR09 BIRC6 1241_1249
507	FARPGDVEF	Q15642 CIP4 276_284
508	RPSSTITYL	Q5SWH9 TMM69 82_90
509	SRLPLAFAY	O14578 CTRO 1826_1834
510	VPRIQPQSL	Q9NVR5 KTU 540_548

511	QPRNLLLAL	Q9H773 DCTP1 52_60
512	IPHMDIEAL	P62906 RL10A 82_90
513	LRFQSSAVM	P68431 H31 83_91; Q16695 H31T 83_91; Q71DI3 H32 83_91
514	TPWQPPTVL	Q9NZJ0 DTL 348_356
515	LPRQPPMSL	Q13045 FLII 882_890
516	ARHSLLQTL	P46060 RAGP1 576_584
517	SPFFERSGL	O60711 LPXN 188_196
518	QPRDIGLQI	P20592 MX2 237_245
519	LPRLEALDL	Q9NR96 TLR9 544_552
520	RPKSNIVLL	P11836 CD20 222_230
521	RPINALDEL	Q8TCU6 PREX1 1534_1542
522	SPNLRLLDL	Q8N531 FBXL6 383_391
523	QPRFAPVLI	Q8TED0 UTP15 431_439
524	VPRSKPLML	Q9H2P0 ADNP 262_270
525	GRVNLNVLR	Q96AX1 VP33A 8_16
526	GRLQLVNKL	Q7Z7A1 CNTRL 500_508
527	RVRIGLTLL	Q9UBV2 SE1L1 2_10
528	LTDRGVMSY	Q14653 IRF3 252_260
529	FPIHVQTSL	Q9NVM4 ANM7 197_205
530	FVKAFILGF	Q9NRX1 PNO1 136_144
531	NRTDVVLIL	Q9UIK4 DAPK2 95_103
532	VSDFGLSRY	P54762 EPHB1 760_768; Q06187 BTK 537_545
533	IPREVSETL	Q8N5H7 SH2D3 225_233
534	SRTMLLPLL	Q32NB8 PGPS1 175_183
535	FAIPLIEKL	Q9NR30 DDX21 240_248
536	VPRNYDPAL	Q9NV06 DCA13 24_32
537	RTQNVLGK	P23396 RS3 54_62
538	RPKKPGQSF	O15042 SR140 863_871
539	KPIEQLLGF	Q96DE5 APC16 97_105
540	NRLPLVVVF	Q9UHA4 LTOR3 84_92
541	KLYPLPSAR	Q8TBM8 DJB14 36_44
542	KPRGLFITI	P48163 MAOX 119_127
543	KPKFILSVL	Q9BVK2 ALG8 140_148
544	TPETVRMVL	P29218 IMPA1 168_176
545	LPIFSRLSI	P47974 TISD 483_491; Q07352 TISB 327_335
546	SPSRILLLF	Q8NCF5 NF2IP 300_308
547	HTDVGLLEY	Q9Y618 NCOR2 34_42
548	GRFKDVLVL	Q92974 ARHG2 486_494
549	ARIIRTAVF	Q14764 MVP 596_604
550	FSDPNFLAH	P16885 PLCG2 1142_1150
551	IADMGHLKY	P12004 PCNA 241_249
552	KRTSIETNV	P09086 PO2F2 300_308
553	SRNALLFNL	Q8WTW4 NPRL2 77_85
554	IPAYKLETI	P04035 HMDH 476_484
555	GRSLIKLNF	Q13356 PPIL2 85_93
556	SRFGNAFHL	Q6P2Q9 PRP8 538_546
557	LSFTHPISF	Q9NTI5 PDS5B 656_664

558	RPDSRFASL	Q9NQC7 CYLD 540_548
559	VPASFRLQM	Q9BTE3 MCMBP 414_422
560	RPAFLANLF	Q9BQG0 MBB1A 130_138
561	SPQKVTLYL	P05107 ITB2 99_107
562	SRAKVKFNV	O00567 NOP56 153_161
563	LPHNRLVSL	Q96CX6 LRC58 51_59
564	GRTVILYKV	Q9H8H0 NOL11 40_48
565	ARLLPLPRL	Q9BY89 K1671 58_66
566	YADPVNAHY	O95758 PTBP3 226_234
567	RPYSNVSNL	O95248 MTMR5 1581_1589
568	RVRQLGHAL	P26010 ITB7 170_178
569	RIASTLLL	Q9UHD2 TBK1 427_435
570	VARLIAIFF	Q8NBI5 S43A3 99_107
571	DSDGSFFLY	P01857 IGHG1 282_290; P01859 IGHG2 278_286; P01860 IGHG3 329_337; P01861 IGHG4 279_287
572	RPRGFDFIT	Q96EP5 DAZP1 152_160
573	KRTLIAEGY	Q70SY1 CR3L2 271_279; Q96BA8 CR3L1 267_275
574	IIDGKTLKY	Q9Y2Q0 AT8A1 743_751
575	GRKLGLLFF	Q5BJH7 YIF1B 121_129
576	RIRGHVLSL	Q14671 PUM1 920_928
577	KVLSILLKH	P19838 NFKB1 629_637
578	IPRLVQLLV	P14923 PLAK 524_532; P35222 CTNB1 533_541
579	YPGSDRIML	Q6ZS81 WDFY4 2531_2539
580	MPRLGAFFL	Q9BRX5 PSF3 40_48
581	VVSEKQFSK	Q6P5R6 RL22L 66_74
582	LTDRLASLY	Q5W0V3 F16B1 309_317
583	GRAFLFNKV	P62699 YPEL5 40_48
584	RRTSTFALT	Q9UDW1 QCR9 16_24
585	SRNLFVLGF	Q9UGH3 S23A2 514_522; Q9UHI7 S23A1 455_463
586	QRTSLIVHV	Q15072 OZF 195_203
587	RPQLLKNAL	Q5SSJ5 HP1B3 297_305
588	RAAPFSLEY	Q15181 IPYR 9_17
589	TPEEVRLPL	Q9UIF9 BAZ2A 548_556
590	KPQGLRIEI	P30414 NKTR 1258_1266
591	RPKIVQSLL	Q86VV8 RTTN 226_234
592	KRTNIIPVI	P22087 FBRL 206_214
593	KPQTKLIL	P15884 ITF2 599_607; P15923 TFE2 584_592; Q99081 HTF4 612_620
594	KRMSVLASY	Q9HD20 AT131 631_639
595	RRMPEVPGL	Q9H269 VPS16 165_173
596	LPAWIREGL	Q8TF01 PNISR 232_240
597	RQVVPISKK	Q96EU6 RRP36 107_115
598	MRFDGLLGF	Q9BRJ7 SDOS 54_62
599	ARLTDYVAF	Q99627 CSN8 198_206
600	GRQKVFSF	Q9BYW2 SETD2 69_77
601	RRLKAELGI	Q13907 IDI1 110_118
602	RRILVATNL	O00148 DX39A 337_345; Q13838 DX39B 338_346
603	QPTVRITEL	P19387 RPB3 6_14

604	IARNLTQQL	Q99541 PLIN2 313_321
605	RPREVTVSL	Q5UE93 PI3R6 602_610
606	GRNIRQLSL	Q9NQ55 SSF1 40_48
607	RRLGVQQSL	P33552 CKS2 44_52
608	YPKRPLLGL	Q9GZR7 DDX24 383_391
609	IPRSMKVL	Q9NXL9 MCM9 216_224
610	ARLKILETL	Q6NXR4 TTI2 402_410
611	APYQFLTAF	Q13535 ATR 2134_2142
612	GRAFIFPSY	Q8TBZ8 ZN564 315_323
613	KTLDSALFY	Q9UPU5 UBP24 2244_2252
614	TPRTNNIEL	Q9NVM9 ASUN 320_328
615	RRLKSDVAL	Q9NRZ9 HELLS 450_458
616	RLPSSTLKR	Q86Y91 KI18B 813_821
617	KRDGTVRL	Q9H867 MT21D 22_30
618	AILEKSRLK	O94906 PRP6 764_772
619	SRLKSILKL	Q9BRT6 LLPH 27_35
620	STDHIPILY	Q06210 GFPT1 218_226
621	RPRMNANSL	Q16526 CRY1 236_244; Q49AN0 CRY2 255_263
622	KPKFSGFTF	P54132 BLM 29_37
623	RRDSIVEL	O14579 COPE 96_104
624	APFLRNVEL	A5YKK6 CNOT1 2076_2084
625	RRGDLPFVV	P35579 MYH9 1922_1930
626	KRAEIISEI	Q9Y6K5 OAS3 835_843
627	MPKVKTIEL	Q6P179 ERAP2 236_244
628	RQTATQLLK	P62424 RL7A 89_97
629	ARLKDIIVM	Q709C8 VP13C 1642_1650
630	SRSRITLLL	Q9P2P5 HECW2 909_917
631	TADHNLLLY	Q12788 TBL3 311_319
632	ARFLFTTGF	O00507 USP9Y 2050_2058; Q93008 USP9X 2049_2057
633	KLSDILNEK	Q9NVI1 FANCI 780_788
634	RPRTQGVVF	Q9H816 DCR1B 346_354
635	APSLRRKTM	Q96GD4 AURKB 225_233
636	SPYLRPLTL	O95848 NUD14 15_23
637	VLPTFILEK	Q9BXB4 OSB11 387_395; Q9BXB5 OSB10 417_425
638	LPFLRITSL	Q6ZT12 UBR3 1651_1659
639	RPRATVMVM	O75787 RENR 71_79
640	RRDSAMLVL	Q5SRE5 NU188 995_1003
641	KTPDFILQV	Q9Y2V0 CO041 193_201
642	QRALLSLLF	Q9UBT6 POLK 379_387
643	QIASFILLR	Q9NUV9 GIMA4 316_324
644	LRSALQILF	Q969X6 CIR1A 437_445
645	DIDIRPGLY	O94805 ACL6B 334_342; O96019 ACL6A 337_345
646	SPRVQFQSL	Q8N720 ZN655 12_20
647	SPVFRLETL	Q9Y5S1 TRPV2 7_15
648	RPISDFLTL	Q9UK73 FEM1B 544_552
649	SRVPLFPVF	Q9H6F2 TM38A 17_25
650	SPRLSLLYL	Q9NZS9 BFAR 278_286

651	APRDAYWIA	O75794 CD123 109_117
652	RSYSDPPLK	P52597 HNRPF 192_200
653	RPQEVSAYL	Q6NXE6 ARMC6 106_114
654	SRVQVQKAF	Q9BWW8 APOL6 214_222
655	KRDALLSF	Q10570 CPSF1 90_98
656	GRTFIQPNM	Q06203 PUR1 354_362
657	IRMPSLPSY	P29401 TKT 301_309
658	GRNSFEVRV	P04637 P53 266_274
659	ARVKMQVTM	Q8NF50 DOCK8 1545_1553; Q96HP0 DOCK6 1500_1508; Q96N67 DOCK7 1591_1599
660	RPSLPLPHF	Q9BV38 WDR18 331_339
661	RLDAVTLLY	Q6ICL7 S35E4 214_222
662	ARILFPVTF	P48169 GBRA4 522_530
663	ARHNLIINI	O43556 SGCE 142_150
664	KRFSGTVRL	P62906 RL10A 47_55
665	RPHLSGRKL	Q96RR4 KKCC2 91_99
666	RVAELLLLH	P42771 CD2A1 58_66; P42772 CDN2B 60_68
667	IPKKHISQI	P49773 HINT1 55_63
668	MPKMDQDSL	P37268 FDFT 28_36
669	NRLTFIPGF	Q96RT1 LAP2 217_225
670	ARTFGIWTL	Q9UKR5 ERG28 50_58
671	SRAPVFLQF	Q4ZIN3 MBRL 120_128
672	KLYDIDVAK	P62750 RL23A 115_123
673	QLTSVQLLY	Q96RL7 VP13A 712_720
674	RRATVFLAM	Q13217 DNJC3 76_84
675	KPQPRPQTL	Q9NR20 DYRK4 407_415
676	LPSGFRKFL	P62910 RL32 70_78
677	KRILVLVSH	Q9UG63 ABCF2 275_283
678	YSDKYGLGY	P53350 PLK1 417_425
679	NLDPLTETY	P61599 NAA20 19_27
680	RAFPLPMSF	Q9UHJ6 SHPK 446_454
681	QRSDAKITF	Q13907 IDI1 69_77
682	KRADLQSTF	Q7L590 MCM10 426_434
683	YPHQVPLVL	Q14997 PSME4 1635_1643
684	NPRKHITSL	Q13888 TF2H2 123_131; Q6P1K8 T2H2L 123_131
685	RPVPWNALL	Q05923 DUS2 47_55
686	YRlickgti	Q9ULG1 INO80 1222_1230
687	SRHGIQKKL	Q9HB58 SP110 304_312
688	KRVGLIHML	Q9BWS9 CHID1 201_209
689	RPAEVRLLI	Q8TEM1 PO210 231_239
690	ATDLTREVY	Q8IWV8 UBR2 31_39
691	RRTISSNSF	Q9H714 K226L 185_193
692	RLRNHMAVA	P09669 COX6C 18_26
693	RVGALYLLY	Q16533 SNPC1 75_83
694	KLFNGTFLK	P86790 CCZ1B 146_154; P86791 CCZ1 146_154
695	VRWPGVKLL	O60763 USO1 138_146
696	RADGNFLY	Q6ICG6 K0930 368_376

697	GRMVQVHEL	Q15436 SC23A 170_178; Q15437 SC23B 170_178
698	RPSQNLLQL	Q71SY5 MED25 577_585
699	RRLNSPIGR	P30876 RPB2 483_491
700	KPRKLVNTI	Q92900 RENT1 926_934
701	KRLAQVKLL	Q8N766 EMC1 980_988
702	ASDMLQLEY	Q86V97 KBTB6 147_155; Q8WVZ9 KBTB7 147_155
703	HPSLRLFSL	Q6UU7 CRTIC3 361_369
704	RPRALNVNM	Q96KA5 CLP1L 171_179
705	RRRDAVIAL	P42356 PI4KA 15_23
706	RPKEKSLVL	Q92985 IRF7 442_450
707	VSDMVEDLY	O15050 TRNK1 2844_2852
708	RSPPMQLEL	O00764 PDXK 283_291
709	APLQHRHVL	Q504T8 MIDN 161_169
710	RRVEPTVTI	P01920 DQB1 125_133
711	RIAKNLVEK	Q9H4A5 GLP3L 162_170
712	RRKSALALR	Q9Y2D5 AKAP2 836_844
713	SRGDFVVEY	Q9NQR1 SETD8 278_286
714	IPANWKTEL	Q4LE39 ARI4B 261_269
715	RQSDLLVKL	Q06265 EXOS9 94_102
716	RRSSINILL	Q86X10 RLGPB 611_619
717	RRGDITIKL	Q8WWY8 LIPH 343_351
718	RPWSNSRGL	Q9NRR8 C42S1 71_79
719	RPVTVFQL	Q00653 NFKB2 301_309
720	RPRLSAILF	Q9NSV4 DIAP3 797_805
721	GPRAEAFRQL	P57086 SCND1 121_129
722	ARVFLQNL	P16930 FAAA 81_89
723	QIFKPIISK	Q92769 HDAC2 240_248
724	RPFGTIRPM	Q9NSU2 TREX1 279_287
725	KRKSVDTQL	Q15652 JHD2C 448_456
726	KPVYRVAEI	Q92541 RTF1 397_405
727	KRFQAVAVNL	Q9C037 TRIM4 303_311
728	ARKHIISHL	Q12769 NU160 831_839
729	VPRTKVVYL	Q9BTU6 P4K2A 208_216
730	GRTFLRVLI	Q14571 ITPR2 1054_1062
731	RPYSQVNVL	P46939 UTRO 165_173
732	SLMHSFILK	Q9NP97 DLRB1 44_52
733	ERSPLLFTL	Q6P3X3 TTC27 198_206
734	RLFGNILDK	P26358 DNMT1 1564_1572
735	KRGFVNIEI	Q8TDB6 DTX3L 259_267
736	TIFGKIIRK	P49773 HINT1 17_25
737	GRMESVFNH	Q7L576 CYFP1 466_474
738	KTDLHNEGY	Q14699 RFTN1 114_122
739	KRGDVIVYL	O75563 SKAP2 319_327
740	KRGGLPFVL	Q70CQ4 UBP31 471_479
741	GRKSTEFPR	P46013 KI67 105_113
742	RLAQNILSY	Q9UL15 BAG5 429_437
743	KRFEGLTAR	Q15208 STK38 446_454

744	KRKEYGIAL	Q9Y5A7 NUB1 248_256
745	SPRFPAQYL	Q15477 SKIV2 1017_1025
746	RPFDKMATL	P21359 NF1 1534_1542
747	ARNDYLLTL	O94868 FCSD2 207_215
748	GTLDYILQR	Q9C0B1 FTO 329_337
749	RRAVLSETF	P51530 DNA2 138_146
750	LPRTPRPEL	Q8N1W2 ZN710 174_182
751	GTDELRLLY	Q9Y4W2 LAS1L 107_115
752	SPFFREALL	Q9P1Z0 ZBTB4 52_60
753	MRQKAVSLF	P09912 IFI6 1_9
754	RPWLRPAAL	Q8N4S7 PAQR4 142_150
755	LIAPIFLHR	Q15022 SUZ12 105_113
756	RILLPIVQK	Q5FWF4 ZRAB3 171_179
757	SRVLIFSQM	O60264 SMCA5 500_508; P28370 SMCA1 503_511
758	RRTSAYTLI	Q96J88 ESIP1 62_70
759	RPHAFQVIL	Q8IWE5 PKHM2 837_845
760	CRTFHFIGF	P47974 TISD 197_205; Q07352 TISB 158_166
761	KTEIMSPLY	Q8IY81 SPB1 579_587
762	RRSSIQSTF	Q92542 NICA 232_240
763	RLDSLTTLY	Q9UQ13 SHOC2 190_198
764	KLPDIFSVY	Q14669 TRIPC 912_920
765	SRFGKFIQV	B2RTY4 MYO9A 294_302; Q13459 MYO9B 294_302
766	IARSLLVFY	O15439 MRP4 780_788
767	FRTPHVLVL	P27708 PYR1 930_938
768	RPQLRSVLL	Q96AB3 ISOC2 98_106
769	KPREKVLVI	Q8N6R0 MET13 47_55
770	RPKTFGMMDM	Q08116 RGS1 42_50
771	ARFEGDFKL	O43529 CHSTA 337_345
772	GRVFIIKSY	Q7Z739 YTHD3 416_424; Q9BYJ9 YTHD1 389_397; Q9Y5A9 YTHD2 410_418
773	FIDASRLVY	P26232 CTNA2 609_617; P35221 CTNA1 611_619
774	RPVMPSRQI	Q9UNN5 FAF1 85_93
775	LPQTRRISL	P50851 LRBA 2191_2199
776	KINKKRIAL	P18124 RL7 161_169
777	KRKVLILTL	Q10469 MGAT2 7_15
778	SRFQGTLYL	O77932 DXO 154_162
779	APRVFPVLW	O43304 S14L5 424_432; Q92503 S14L1 437_445
780	IPLMRDRAL	Q6PJG2 EMSA1 733_741
781	QRLSQLLN	Q92673 SORL 479_487
782	GRLRSVIQR	Q8IY17 PLPL6 663_671
783	RPYKPVVLL	Q6NYC1 JMJD6 65_73
784	KRLDIQEAL	Q96GM5 SMRD1 164_172
785	KLDSVRVLR	P01106 MYC 326_334
786	RRIDITAKL	Q0D2I5 IFFO1 332_340; Q5TF58 IFFO2 296_304
787	GPREKMQKL	Q9Y5X3 SNX5 101_109
788	SPQPRLIYL	Q96A54 ADR1 231_239
789	RRKSQVAEL	Q9BYG3 MKT67I 244_252
790	RLWQTVVVGK	Q9Y3F4 STRAP 290_298

791	RVMKALVNR	Q08945 SSRP1 316_324
792	KPREFLIAL	O75165 DJC13 1998_2006
793	LRVTPFILK	Q8N4H5 TOM5 38_46
794	RPNDSRMLV	Q9UJX2 CDC23 429_437
795	RRFSQGSHL	Q9BWE0 REPI1 438_446
796	QIRDIMQAL	Q15554 TERF2 120_128
797	KPSSWLRSL	P12755 SKI 351_359
798	GRLTKHTKF	Q9Y3U8 RL36 31_39
799	KRTQIVTEI	Q9BPX3 CND3 457_465
800	IPLLTEVFL	Q70CQ2 UBP34 1578_1586
801	RRAFLQAIL	P51531 SMCA2 1213_1221; P51532 SMCA4 1243_1251
802	RTLPVLLY	Q9NR09 BIRC6 625_633
803	FPRSKVLKL	O75354 ENTP6 445_453
804	GRHVKTVEV	Q16531 DDB1 187_195
805	SRFPEALRL	Q13200 PSMD2 260_268
806	RRILQQAGF	Q8WUH2 TGFA1 350_358
807	RRFIVVEGL	O15269 SPTC1 239_247
808	RPRPTKTSF	Q9UGR2 Z3H7B 486_494
809	KRYLRALGL	Q12788 TBL3 664_672
810	GRYSRSAMY	Q02878 RL6 55_63
811	SPRVYWLGL	Q6ZS10 CL17A 307_315
812	GRLDQLIYI	P55072 TERA 637_645
813	ARAKLLQKY	Q04637 IF4G1 1506_1514
814	VLDIQNNLY	O00221 IKBE 286_294
815	RRNTVLT	Q8NF50 DOCK8 1914_1922
816	KRMSGMIRL	Q53GS7 GLE1 568_576
817	SRSNLFVLR	Q32P44 EMAL3 261_269
818	RPHGRTVRL	Q9H9Y2 RPF1 151_159
819	ARFYLPILV	Q68CQ7 GL8D1 153_161
820	RPAKKHLEL	Q8TED0 UTP15 355_363
821	RPFEDQTSL	Q9H7B2 RPF2 70_78
822	RPMMDKTVVF	Q8NG31 CASC5 963_971
823	RSDTPLIYK	P41252 SYIC 402_410
824	RLSDVQIYV	P09913 IFIT2 109_117
825	ATDFKFAMY	P30279 CCND2 189_197
826	KPNTKIMMM	Q8WVY7 UBCP1 67_75
827	KVHAYIISY	Q9H223 EHD4 308_316
828	RLKEAYSVK	Q6P2Q9 PRP8 845_853
829	RLGLPLRLR	O75326 SEM7A 24_32
830	RRHWGGNVL	P62424 RL7A 234_242
831	VLSERLLHK	Q96AZ6 ISG20 132_140
832	ETELDGLRY	P46952 3HAO 110_118
833	GRYQVWSL	P51571 SSRD 84_92
834	YRPAYLVTL	Q9UBI1 COMD3 145_153
835	SRFGKFIQL	Q96H55 MYO19 194_202
836	ARFYAVQKL	Q16891 IMMT 633_641
837	RPTDKPLRL	P68104 EF1A1 240_248; Q05639 EF1A2 240_248; Q5VTE0 EF1A3 240_248

838	RPEQRLALL	Q9UQE7 SMC3 57_65
839	RPRVRVEAL	Q9Y697 NFS1 273_281
840	RPQIIKEVL	Q9H3S1 SEM4A 561_569
841	RPSLRLQLL	Q7L2H7 EIF3M 98_106
842	IIDGFMTHY	Q9BZW5 TM6S1 87_95
843	HRNEVTVEL	O00505 IMA4 28_36
844	RPRVPTEEL	Q9H6W3 NO66 361_369
845	KRFGKAYNL	Q86XP3 DDX42 347_355
846	FITKIISKF	Q9C0D5 TANC1 611_619
847	RPREKKLGL	O60762 DPM1 90_98
848	RINKRILAL	P26038 MOES 275_283; P35241 RADI 275_283
849	ALAEYVIYR	Q9H2K2 TNKS2 1135_1143
850	KRYSFNVAL	Q86T82 UBP37 564_572
851	RRVARQAQL	O60239 3BP5 105_113
852	RIIDLVLQK	O15397 IPO8 638_646
853	MRFDGRLGF	Q96DE0 NUD16 49_57
854	QRFPLSFGF	Q92611 EDEM1 35_43
855	GRISIMQFF	Q969Q6 P2R3C 153_161
856	TRGIFETKF	P19367 HXK1 778_786; P52789 HXK2 778_786; Q2TB90 HKDC1 777_785
857	GRFITVMKF	Q14692 BMS1 236_244
858	SVVYVKVLK	O60814 H2B1K 39_47; P57053 H2BFS 39_47; P58876 H2B1D 39_47; P62807 H2B1C 39_47; Q5QNW6 H2B2F 39_47; Q93079 H2B1H 39_47; Q99877 H2B1N 39_47; Q99879 H2B1M 39_47; Q99880 H2B1L 39_47
859	QRQSILILK	P33240 CSTF2 559_567; Q9H0L4 CSTFT 598_606
860	ARLPLRLFL	O00767 ACOD 130_138
861	YPFFRGVTI	O75794 CD123 15_23
862	KPRLDTEQL	Q86UE8 TLK2 156_164
863	ARLDLERKV	P08670 VIME 216_224
864	GRTDLLRLR	P78527 PRKDC 2721_2729
865	RPRLNAILF	O60610 DIAP1 934_942
866	KRKENAIKL	P35251 RFC1 339_347
867	KRLKTVLEL	Q14444 CAPR1 144_152
868	RPFHGWTSI	Q13724 MOGS 820_828
869	NPRQVFNL	P23743 DGKA 402_410
870	RPKNLMQTL	Q9Y2D5 AKAP2 800_808
871	SAFPFLQFY	O15217 GSTA4 176_184
872	RPIRGDIF	P55072 TERA 144_152
873	RVTPFILKK	Q8N4H5 TOM5 39_47
874	GRVDFAYKF	Q8IXK0 PHC2 646_654
875	IRFFGTTNF	Q8N3C7 CLIP4 501_509
876	NPRIPYTEL	Q92830 KAT2A 656_664
877	KRVQVDVKM	Q13263 TIF1B 289_297
878	FPRLLDTKL	O95453 PARN 319_327
879	IPRYIISQL	O15021 MAST4 517_525
880	KLYPTLVIR	Q9H9T3 ELP3 316_324
881	GTLEQWIEK	P19525 E2AK2 372_380
882	QRMSTRVLL	Q14152 EIF3A 316_324

883	RPLSKTVRF	P62280 RS11 132_140
884	KRLVVFDAR	P53803 RPAB4 50_58
885	RLLQKVLAY	Q5PRF9 SMAG2 103_111
886	FRQDHPSM	Q01844 EWS 267_275
887	RRAEILSEM	Q9Y6K5 OAS3 93_101
888	RPFLSRESL	P0C7P4 UCRIL 56_64; P47985 UCRI 47_55
889	KVLDKLLY	Q9BXP5 SRRT 607_615
890	TRLGFTTY	Q5JTH9 RRP12 580_588
891	FPSPIRLEF	P28340 DPOD1 786_794
892	KIRTSPTFR	P62750 RL23A 39_47
893	RPKYPGIKF	P45984 MK09 263_271
894	KLFSEKLLK	Q15067 ACOX1 537_545
895	MPSQFRDIL	Q09472 EP300 2175_2183
896	RRFGIQAQM	P49720 PSB3 26_34
897	RPMDKTVLF	Q8NG31 CASC5 1175_1183
898	RPAFFAERL	P20073 ANXA7 417_425
899	VRNDIYITL	Q92608 DOCK2 422_430
900	KRLATEFEL	A5YKK6 CNOT1 1521_1529
901	KRVEDAYIL	P40227 TCPZ 223_231
902	RARELLVSY	Q9Y4W2 LAS1L 268_276
903	YPRLKVLAF	Q6NUQ4 TM214 346_354
904	IRSKIITYI	Q15046 SYK 246_254
905	RRLLLLPLL	Q13162 PRDX4 18_26
906	HLSSLQLFY	Q9BWG6 SCNM1 68_76
907	APRSFWMTL	Q9BW27 NUP85 569_577
908	KSELLVEQY	Q99541 PLIN2 182_190
909	RVFANILLY	Q9Y262 EIF3L 334_342
910	RILPKPTRK	P62081 RS7 99_107
911	SRFKAIKEKM	O14776 TCRG1 758_766
912	RTALNLFFK	P53621 COPA 1106_1114
913	RRFSDFLGL	O60749 SNX2 182_190; Q13596 SNX1 185_193
914	VRFLRAEGY	P26010 ITB7 142_150
915	RPEDRILVL	O60344 ECE2 57_65
916	QPRRLLNTL	O94782 UBP1 177_185
917	QRQDIAFAY	P07355 ANXA2 67_75
918	KLLDAYLLY	P61803 DAD1 25_33
919	SRFLKSDLF	O43665 RGS10 136_144
920	SRKSFVFEL	Q9P219 DAPLE 449_457
921	FLRDKIASY	Q6PJG6 BRAT1 725_733
922	YLDKGILKY	Q9H4L5 OSBL3 75_83
923	SIIVYKVLK	P06899 H2B1J 39_47; P23527 H2B1O 39_47; P33778 H2B1B 39_47; Q16778 H2B2E 39_47; Q6DN03 H2B2C 39_47; Q6DRA6 H2B2D 39_47; Q8N257 H2B3B 39_47
924	RRIWLKAGL	Q9NWT8 AKIP 174_182
925	SRFLMPEAY	O43166 SI1L1 151_159
926	RRSQMTTSF	Q9H147 TDIF1 52_60
927	RRTGYLKGY	Q9Y5S9 RBM8A 108_116

928	ALLPWPFRN	Q13077 TRAF1 335_343
929	SRLKPDWVL	Q8IZT6 ASPM 3443_3451
930	RPRKAFLLL	P13667 PDIA4 2_10
931	FSKDIVENY	Q13263 TIF1B 125_133
932	KTYGEIFEK	O95298 NDUC2 106_114
933	RPRELVDVM	Q14571 ITPR2 2069_2077
934	RRSENRRVVV	Q07955 SRSF1 117_125
935	VRKSRAWVL	O43709 WBS22 245_253
936	YARDDLSLY	Q6ZRI6 CO039 380_388
937	KSDPFLVFY	Q86YQ8 CPNE8 177_185; Q8IYJ1 CPNE9 167_175; Q9HCH3 CPNE5 196_204
938	IAYSRPVYF	Q96RV3 PCX1 1067_1075; Q9H6A9 PCX3 854_862
939	MRYVASYLL	P05387 RLA2 1_9
940	KRNDYVHAL	Q99873 ANM1 266_274
941	RPIYPVEEL	Q9NWB7 IFT57 165_173
942	KRFEHSAKL	Q9UPT9 UBP22 410_418
943	RLDPNFLLK	Q9BXW9 FACD2 253_261
944	RPQDKFLVL	Q9P0J1 PDP1 407_415; Q9P2J9 PDP2 401_409
945	RRKEIMLGL	Q06210 GFPT1 520_528
946	RTTLEKLV	Q96RG2 PASK 1238_1246
947	RPLYKNIVL	P61158 ARP3 313_321
948	RPKLYIVNL	Q9NRC8 SIR7 290_298
949	KPRTFIIKL	Q9UBJ2 ABCD2 139_147
950	SRKTFTETF	Q5R372 RBG1L 427_435
951	FRSFVVSKF	P18583 SON 9_17
952	AILSKFLYY	Q3B7T1 EDRF1 203_211
953	RPGYRVKEI	O00422 SAP18 98_106
954	VRSRVLQLF	Q15021 CND1 380_388
955	TRLKKLFLV	Q15435 PP1R7 164_172
956	RPWTVMESL	O43237 DC1L2 141_149
957	ERNVLIFDL	P08107 HSP71 192_200; P11142 HSP7C 192_200; P17066 HSP76 194_202
958	KARNIFKEL	Q9UII4 HERC5 447_455
959	IRKSKNILF	E9PAV3 NACAM 1959_1967; Q13765 NACA 96_104; Q9BZK3 NACP1 95_103
960	ARFETQVRL	Q14789 GOGB1 224_232
961	RRFRGDVTL	Q96F44 TRI11 283_291
962	RRVLVQVSY	P31153 METK2 312_320; Q00266 METK1 312_320
963	RRKALYEAL	O75496 GEMI 106_114
964	KRASYILRL	Q96Q15 SMG1 2084_2092
965	YAYLLPSMY	Q8IY21 DDX60 186_194
966	SRHSLDMKF	Q16665 HIF1A 244_252; Q9Y2N7 HIF3A 243_251
967	ARLKEVLEY	P14324 FPPS 109_117
968	SRVKLILEY	Q7L5N1 CSN6 233_241
969	SRWQQGNVF	P01857 IGHG1 298_306; P01859 IGHG2 294_302
970	RVFGFPVHY	Q9Y6K1 DNM3A 866_874
971	QRMNFLVTL	Q92508 PIEZ1 1009_1017
972	RRISGVDRY	O15239 NDUA1 52_60
973	RRKAMKQGF	Q9UHD8 SEPT9 289_297
974	RRFTTSVVR	P15954 COX7C 7_15

975	YPVFRILTL	O00478 BT3A3 496_504; O00481 BT3A1 495_503
976	KRIDIIHNL	Q9ULM3 YETS2 299_307
977	KIRNFVVVF	Q9BYX4 IFIH1 983_991
978	ARIQPMPYF	Q6NW34 CC017 209_217
979	RTEEALQLY	O76094 SRP72 241_249
980	QRTFVLEV M	P08237 K6PF 200_208; P17858 K6PL 200_208; Q01813 K6PP 209_217
981	IPRLERILL	P78347 GTF2I 416_424
982	LTDDDLLRY	Q04446 GLGB 569_577
983	VLDPYLLKY	Q9Y2R5 RT17 34_42
984	KPTRKFAYL	P40429 RL13A 130_138
985	LRNQSVFNF	P37268 FDFT 280_288
986	KRFSWSSNL	Q6DD87 ZN787 129_137
987	TSERTVLRY	O60231 DHX16 487_495
988	RRYSDLTTL	P25205 MCM3 157_165
989	IRYGQTKKM	P49591 SYSC 408_416
990	QIFSEFLLK	Q9NR09 BIRC6 2806_2814
991	KPWLRALQL	Q8NI99 ANGL6 3_11
992	SRDDNMFQI	P53999 TCP4 58_66
993	RPADYL FML	Q9BUN8 DERL1 94_102
994	ARFKERVG Y	Q96AT1 K1143 19_27
995	SRYFGVLQR	Q8IXM6 NRM 90_98
996	FLKEIVETF	P49792 RBP2 368_376
997	RPFLRPN II	Q9P2E3 ZNFX1 350_358
998	GRFEDVYQL	Q9HBH9 MKNK2 77_85
999	QRKKAYADF	P09669 COX6C 44_52
1000	RVYIGRLSY	Q08170 SRSF4 3_11; Q13247 SRSF6 3_11
1001	QRLLDLQIKL	Q8IV50 LYSM2 181_189
1002	KRNELVIRV	P11413 G6PD 386_394
1003	KSDEMELLY	Q9H8M2 BRD9 402_410
1004	SPRYIFTML	P11388 TOP2A 802_810; Q02880 TOP2B 823_831
1005	RLSDTLLFY	Q6ZPD9 D19L3 411_419
1006	RRIEVNVEL	P52292 IMA1 30_38
1007	RRDIVRSL	P40337 VHL 176_184
1008	KRVELL KEL	P33991 MCM4 444_452
1009	KRLNLVKEK	Q8N697 S15A4 425_433
1010	STS RVR LFY	O43924 PDE6D 141_149
1011	RRVDAENRL	P02545 LMNA 189_197
1012	KRADWLAR L	Q86SQ9 DHDDS 320_328
1013	RTAHVILRY	Q9UKV5 AMFR 229_237
1014	RPRIDLIVF	Q9NSP4 CENPM 60_68
1015	TPRDYFFAL	P11216 PYGB 48_56
1016	SVLPFQIYY	Q86VZ1 P2RY8 74_82
1017	RVREITENL	P13796 PLSL 49_57
1018	KRTFPVLLR	P78527 PRKDC 963_971
1019	RRGDFIHVM	P62993 GRB2 178_186
1020	GLYEFFRAK	Q8IWX8 CHERP 712_720
1021	SPFH RNLFL	Q96EX3 WDR34 401_409

1022	RRTETVQKL	O00299 CLIC1 50_58
1023	KIRKTIMQL	P19388 RPAB1 12_20
1024	KYPSPFFVF	Q08211 DHX9 1037_1045
1025	RPYPQVQML	Q9H0E3 SP130 99_107
1026	TYRLFAVVY	Q14694 UBP10 731_739
1027	MRHKLKTAF	Q9Y5B9 SP16H 772_780
1028	YPRQQLLTL	Q15645 PCH2 345_353
1029	YYTEFPTVL	O14929 HAT1 263_271
1030	NPEKRYNVL	Q1KMD3 HNRL2 476_484
1031	QRIQLAEKF	Q8N1G2 CMTR1 678_686
1032	RRNGLFEKL	Q6ZS81 WDFY4 703_711
1033	RRYIGIVKQ	P52597 HNRPF 217_225
1034	RRKKYGIVL	P35269 T2FA 80_88
1035	YLDIGQVYY	Q5TAA0 TTC22 386_394
1036	TTDFIFNLY	P08237 K6PF 636_644
1037	RRSVPFQML	Q3LFD5 UBP41 96_104; Q9UMW8 UBP18 96_104
1038	KRQEAIHEL	Q9NR81 ARHG3 122_130
1039	QRLSFLLEK	Q14094 CCNI 10_18
1040	KRLPPFETF	Q15022 SUZ12 341_349
1041	KRFEGLTQR	Q9Y2H1 ST38L 444_452
1042	VPNWHRDLV	P62826 RAN 101_109
1043	FRFEEPVVL	P46531 NOTC1 1823_1831
1044	YRVVFPLEL	O75317 UBP12 276_284; P62068 UBP46 272_280
1045	KLMENILLY	O43187 IRAK2 604_612
1046	IRLPSQYNF	Q8TEM1 PO210 1231_1239
1047	KRFEFPNSL	Q5VW36 FOCAD 7_15
1048	QRNLFILAY	O95573 ACSL3 405_413
1049	GRTKIFIRF	O00159 MYO1C 711_719
1050	NTDFYQT SY	Q969M3 YIPF5 8_16
1051	NTDRNIDKY	Q9UK61 F208A 346_354
1052	KIADRFLLY	P61968 LMO4 29_37
1053	GRWRDILSH	Q9HCK8 CHD8 1459_1467
1054	RPRRTILEV	Q9UHB4 NDOR1 348_356
1055	MRAENFFIL	P59998 ARPC4 96_104
1056	RTMVKTLEY	Q7Z3J2 CP062 929_937
1057	RRLSFLVSY	P47897 SYQ 67_75
1058	YLYITKVLK	P24390 ERD21 196_204; P33947 ERD22 196_204
1059	RRAIYQATY	P28074 PSB5 216_224
1060	KRKDFGIMF	Q6ZMG9 CERS6 201_209
1061	RRKTPEELL	O43633 CHM2A 7_15
1062	RVRDIQKQV	Q15392 DHC24 70_78
1063	ERLELLLQK	Q8N3U4 STAG2 262_270; Q8WVM7 STAG1 265_273
1064	RRQLLSKKL	P04035 HMDH 495_503
1065	SIWDYFIAK	Q9Y485 DMXL1 2430_2438
1066	RRDNNELL L	P49736 MCM2 825_833
1067	KLLESIFHR	Q7Z7E8 UB2Q1 46_54
1068	DLDSSRVLYY	P26358 DNMT1 916_924

1069	ARLFIFETF	P60228 EIF3E 336_344
1070	HRAQVIYTR	P62851 RS25 103_111
1071	LRFPEILQK	P54136 SYRC 579_587
1072	RRYNIIPVL	Q9UI12 VATH 261_269
1073	ASEYDQIRY	Q86Z02 HIPK1 395_403; Q9H2X6 HIPK2 404_412
1074	RRKQLEALM	Q15154 PCM1 839_847
1075	RNRKVIMDL	Q8TCB0 IFI44 119_127
1076	RRSKEITVR	P17844 DDX5 77_85
1077	KSDVNKEYY	Q9NW64 RBM22 109_117
1078	KLMAMFLEY	Q9BV94 EDEM2 275_283
1079	RRIKTVLLF	Q5U623 MCAF2 373_381
1080	SRFGKYFEI	O00160 MYO1F 166_174; Q12965 MYO1E 168_176
1081	KRFADFTVY	Q9NY61 AATF 354_362
1082	HTDILKEKY	Q8N5C7 DTWD1 262_270
1083	RRSFIIQNI	Q9H489 TSY26 184_192; Q9UJ04 TSYL4 242_250
1084	SRIRKLFNL	P62753 RS6 139_147
1085	YQFTGIKKY	Q96IX5 USMG5 10_18
1086	RRGEFIQEI	P00973 OAS1 94_102
1087	RAREYNARL	Q00653 NFKB2 442_450
1088	QRKDGVYVQL	P42166 LAP2A 32_40; P42167 LAP2B 32_40
1089	RRFKGQILM	P62910 RL32 47_55
1090	RRFARSDEL	Q13118 KLF10 408_416
1091	QSERRQLLY	P57737 CORO7 704_712
1092	KRFEELTNL	B5ME19 EIFCL 55_63; Q99613 EIF3C 55_63
1093	RRSPFLQVF	Q15437 SC23B 587_595
1094	RRFRASPLF	Q2NL82 TSR1 621_629
1095	IIFDRPLLY	Q9UPQ8 DOLK 352_360
1096	RRVYLTSQL	Q9UNY4 TTF2 413_421
1097	YLDIPNPRY	O14578 CTRO 1865_1873
1098	RPFERTITM	O00560 SDCB1 193_201
1099	RRFDRKAAM	P11277 SPTB1 425_433; Q01082 SPTB2 425_433
1100	RRVFIVETM	P17858 K6PL 564_572
1101	RPSFRNLDL	Q92540 SMG7 428_436
1102	GRTKLFWLM	O75592 MYCB2 4281_4289
1103	RPKYQFLSL	O60443 DFNA5 48_56
1104	RRFTMKTVL	P48729 KC1A 106_114; Q8N752 KC1AL 106_114
1105	NRPEFITEF	Q8WXH0 SYNE2 5666_5674
1106	RRFGDKLNF	Q13794 APR 30_38
1107	FRNVEVLIY	Q5VZM2 RRAGB 143_151; Q7L523 RRAGA 82_90
1108	PITFSRYIR	Q16651 PRSS8 143_151
1109	RTIFPLFMK	Q8WYA6 CTBL1 380_388
1110	KIDENQLMY	Q96RT1 LAP2 282_290
1111	RRYGDVFQI	Q16678 CP1B1 79_87
1112	KRFKEANNF	P18124 RL7 199_207
1113	RRKDGFLY	P62829 RL23 89_97
1114	RRMLVQTHL	Q8WYJ6 SEPT1 266_274
1115	RRDVRILL	Q8IXI1 MIRO2 2_10

1116	FGFHKPKMY	Q9NP50 FA60A 2_10
1117	LADIYRELY	Q9Y6J9 TAF6L 437_445
1118	GRNVYRMLF	Q13123 RED 213_221
1119	RRTRIGYSF	Q9NYH9 UTP6 71_79
1120	RRVNQAIWL	P46782 RS5 145_153
1121	RPPYERPEL	Q13057 COASY 346_354
1122	RRLENLENL	Q8TD17 ZN398 111_119; Q9UDV7 ZN282 166_174
1123	RRVEVTRQL	Q9UII4 HERC5 48_56
1124	KREEIIKK	Q5T200 ZC3HD 187_195
1125	CRDDIFYIL	Q8TCB0 IFI44 263_271
1126	RRLDRSAHF	O15294 OGT1 69_77
1127	KRYQEALHL	O00231 PSD11 141_149
1128	TRWNKIVLK	Q9BZL1 UBL5 37_45
1129	KPYFRLSTF	O60671 RAD1 185_193
1130	RPYSFFTKL	P82675 RT05 85_93
1131	FRRNLILNL	Q96B49 TOM6 41_49
1132	RQYMFSSLK	P13010 XRCC5 431_439
1133	RPREAEVRF	Q13438 OS9 186_194
1134	RRIQTFL	O15439 MRP4 384_392
1135	RRNDKIIVF	P19447 ERCC3 553_561
1136	NRLLKLFTR	O60216 RAD21 383_391
1137	IVYEKIMEH	O75643 U520 707_715
1138	ARILIQERY	Q15459 SF3A1 306_314
1139	TRQKQLFQL	Q15014 MO4L2 141_149
1140	RRKEVVVYL	P52948 NUP98 795_803
1141	RRIKTEFLV	O75351 VPS4B 252_260; Q6PIW4 FIGL1 518_526; Q9UN37 VPS4A 245_253
1142	RRILRLSTF	O94804 STK10 7_15
1143	RRKSIFVQK	Q5VUG0 SMBT2 694_702
1144	HSEYHTLLY	Q9UQL6 HDAC5 744_752
1145	HPRAYFMQL	Q9Y2Y1 RPC10 74_82
1146	TTDFIYQLY	Q01813 K6PP 646_654
1147	RRSQLLMLF	Q12980 NPRL3 536_544
1148	GRWDQQYVI	Q9NVI1 FANCI 167_175
1149	RRAEVELEY	P98171 RHG04 55_63
1150	YRVTIHKTF	Q6P2Q9 PRP8 1786_1794
1151	RRVFIHETM	P08237 K6PF 565_573; Q01813 K6PP 575_583
1152	RRFSRSDEL	P11161 EGR2 349_357; P18146 EGR1 347_355; Q06889 EGR3 284_292
1153	YRFLIQNVL	P41252 SYIC 660_668
1154	FRNDFLELL	O60870 KIN17 72_80
1155	RRTNYTRSL	P42345 MTOR 2316_2324
1156	RRIIRILNL	Q9UP83 COG5 177_185
1157	LTDRELEYY	P35611 ADDA 567_575
1158	RQIPYTMMK	Q00325 MPCP 226_234
1159	GRFQEFAQKK	P09914 IFIT1 385_393
1160	LLEKEILFY	O60264 SMCA5 784_792
1161	RRLDLPIER	P17812 PYRG1 268_276
1162	TLYRIFNNK	Q15024 EXOS7 108_116

1163	QRNKLYVTF	Q76N89 HECW1 1276_1284; Q9P2P5 HECW2 1242_1250
1164	KLFDKLLEY	Q9BZZ5 API5 309_317
1165	VLYDRVLKY	Q9UHB9 SRP68 484_492
1166	RRLLEKQLL	P57678 GEMI4 877_885
1167	LLYESPERY	Q03518 TAP1 744_752
1168	YTDLRLFE	P62140 PP1B 68_76
1169	RRYAHVVLR	P62269 RS18 38_46
1170	ARIFQFQNF	Q2NL82 TSR1 525_533
1171	RRNGKQWLL	Q6P2I3 FAH2B 199_207; Q96GK7 FAH2A 199_207
1172	TRFDQVMKF	Q9HCN4 GPN1 100_108
1173	FRLDTPLYF	Q32P28 P3H1 553_561
1174	RPIRQILYL	Q9UBQ5 EIF3K 97_105
1175	RSEEGRLYY	Q5PSV4 BRM1L 255_263
1176	RRFDTAFFL	A8MXV4 NUD19 210_218
1177	RPRDKQMEL	Q9BUP3 HTAI2 216_224
1178	YLDHNSFDY	Q9BXR5 TLR10 286_294
1179	FPIEVRHYL	P42229 STA5A 26_34; P51692 STA5B 26_34
1180	NRIKFVIKR	P78347 GTF2I 532_540
1181	RRTRLILFV	Q96TA2 YMEL1 291_299
1182	RRYLRVVVL	Q4G148 GXLT1 2_10
1183	RRSDDMFTF	P49792 RBP2 1126_1134
1184	YYFVFDHAL	O75845 SC5D 54_62
1185	ERLQYVFGY	Q96MG7 MAGG1 132_140
1186	RRYPQVVTR	Q6ZV29 PLPL7 680_688; Q8IY17 PLPL6 724_732
1187	KRTTTFFQF	Q9NVP1 DDX18 463_471
1188	KVYENYPTY	P35659 DEK 349_357
1189	SRFKEFSF	O95613 PCNT 1289_1297
1190	FLEQVHQLY	P42224 STAT1 14_22
1191	RPTFRQMQL	O75369 FLNB 69_77; P21333 FLNA 96_104
1192	KRQEVIYEL	Q12802 AKP13 1994_2002
1193	KRVTWIVEF	Q9Y320 TMX2 154_162
1194	YIDSKFEDY	Q16181 SEPT7 133_141
1195	KRYNEDLEL	P25787 PSA2 176_184
1196	WAYPRQVFI	Q9P2D0 IBTK 432_440
1197	LRFLFENKL	Q13042 CDC16 201_209
1198	YRQSLHTYL	O00567 NOP56 277_285
1199	RRYQKSTEL	P68431 H31 53_61; P84243 H33 53_61; Q16695 H31T 53_61; Q6NXT2 H3C 52_60; Q71DI3 H32 53_61
1200	ETERTRNLY	Q9BZJ0 CRNL1 691_699
1201	RLFKDQLVY	Q9Y3I1 FBX7 306_314
1202	RRRLNQLLL	Q9UJX4 APC5 57_65
1203	SQHYHQGYY	Q00839 HNRPU 817_825
1204	LRKLLTYEF	Q9Y5V3 MAGD1 603_611
1205	RPRREEVKL	Q14739 LBR 169_177
1206	KRLNFITEY	P53667 LIMK1 407_415
1207	RRLEKKLKI	Q7Z422 SZRD1 21_29
1208	RRAARQWQL	Q15834 CC85B 92_100

1209	KRYKSIVKY	P14324 FPPS 257_265
1210	LTDIFIREEY	A2RTX5 SYTC2 435_443
1211	SRFIKFQEM	P33993 MCM7 227_235
1212	KRFDDKYTL	Q15005 SPCS2 164_172
1213	RRRDIQQTL	Q9HAV4 XPO5 174_182
1214	HRLFPKLQF	Q9BVW5 TIPIN 112_120
1215	HRIEIPFKF	Q86X55 CARM1 368_376
1216	RRLNFWRLL	Q8N1F7 NUP93 524_532
1217	KTEYALWNY	Q4ADV7 RIC1 907_915
1218	SRWEKVVQR	Q03001 DYST 6683_6691; Q9UPN3 MACF1 6530_6538
1219	QRLKFRLNL	P49720 PSB3 65_73
1220	LTDFFDIRFY	P19784 CSK22 129_137
1221	RRKDLVLKY	Q6XZF7 DNMBP 969_977; Q9NXL2 ARH38 287_295
1222	VRWDYQPDI	O15541 R113A 193_201; Q8IZP6 R113B 187_195
1223	RRNMLQFNL	O15371 EIF3D 111_119
1224	RRHMKVAFF	O95140 MFN2 94_102; Q8IWA4 MFN1 73_81
1225	RRFDPKLFL	O14524 T194A 157_165
1226	KRKMILOQF	P49736 MCM2 896_904
1227	TRNDYVMMY	Q96QU8 XPO6 55_63
1228	RQINWTVLY	P83731 RL24 47_55
1229	RTEYNLRLK	Q15149 PLEC 622_630
1230	YTMKEVLFY	Q00987 MDM2 48_56
1231	RRYWVDVTV	Q9C035 TRIM5 295_303
1232	RRFQTIPLY	Q14692 BMS1 949_957
1233	FPNTNRWFL	P26641 EF1G 184_192
1234	RRFNYVVKL	Q8TCJ0 FBX25 120_128
1235	GRFDVWRWF	Q9Y5A9 YTHD2 493_501
1236	MRKKLILFF	O75376 NCOR1 285_293
1237	FPMEIRQYL	P42224 STAT1 26_34
1238	TRQKQLFYL	Q9UBU8 MO4L1 215_223
1239	KVYNIQIRY	Q13094 LCP2 468_476
1240	RRKQFHVLL	Q6I9Y2 THOC7 163_171
1241	RRFMQTFVL	Q13283 G3BP1 106_114
1242	KRKDFLIMF	Q8N5B7 CERS5 210_218
1243	KQFSKRYLK	Q6P5R6 RL22L 70_78
1244	RRLQVQERL	P30793 GCH1 177_185
1245	KRLWQQVEL	Q9P219 DAPLE 842_850
1246	RQMERILKK	Q9Y421 FA32A 72_80
1247	FYQRFPPLSF	Q92611 EDEM1 33_41
1248	KRFEQQQKL	Q9UMZ2 SYNRG 125_133
1249	ERHKLYLVF	P57740 NU107 884_892
1250	LTDYDIRFY	P68400 CSK21 128_136; Q8NEV1 CSK23 128_136
1251	YKVEYPIMY	O14880 MGST3 36_44
1252	RLYFSQQTY	P33897 ABCD1 172_180
1253	VYRTVIEYY	P61599 NAA20 130_138
1254	RRLSELLRY	P08238 HS90B 449_457
1255	YLEQLHQLY	P40763 STAT3 14_22

1256	RRWEQALTF	Q8NAN2 FA73A 222_230
1257	RRRKEYDAL	Q96AG4 LRC59 198_206
1258	KRFEKVYTH	Q96EK5 KBP 201_209
1259	RLMDRPIFY	P34059 GALNS 376_384
1260	MRKKLILYF	Q9Y618 NCOR2 276_284
1261	KRNKIFMEF	Q8NHQ9 DDX55 306_314
1262	QLYWSHPRK	P62273 RS29 5_13
1263	WRFKPIEQL	Q96DE5 APC16 94_102
1264	RRDFLRLQL	Q9UKE5 TNIK 351_359
1265	RRVYEILRL	O14929 HAT1 329_337
1266	HRIKDYHSY	O94864 ST65G 237_245
1267	RRKQLQNYL	Q8TEQ0 SNX29 734_742
1268	RRFKWAIEL	Q5J8M3 EMC4 13_21
1269	YLDYDDTRY	Q9BVI4 NOC4L 174_182
1270	KRVFPKWTY	Q2NL82 TSR1 771_779
1271	FRPLYTHEY	Q99442 SEC62 278_286
1272	RQFDLAWQY	Q9HCU8 DPOD4 50_58
1273	HRFYMIQSF	O60563 CCNT1 67_75
1274	KRKRTYETF	Q04206 TF65 301_309
1275	DTDHYFLRY	Q969N2 PIGT 165_173
1276	RRRLQIEDF	Q9P0J0 NDUAD 57_65
1277	RIFQKFLQR	Q12965 MYO1E 627_635
1278	RRYVRKFVL	O43633 CHM2A 70_78
1279	RRWLRPELL	Q53GI3 ZN394 90_98
1280	KQYHRILKR	P23511 NFYA 270_278
1281	RRMEVYNEF	Q13206 DDX10 353_361
1282	YRPVRQYVV	Q9NZB2 F120A 602_610
1283	KRIKYIHK	Q15800 MSMO1 163_171
1284	RRFFYDQAF	P41250 SYG 130_138
1285	RMDNIYFEY	P20585 MSH3 457_465
1286	KRFTYKFNF	P41162 ETV3 109_117; P50548 ERF 100_108; Q6ZN32 ETV3L 113_121
1287	RQFWTRTKK	Q7Z7F7 RM55 120_128
1288	RRWDDSQKY	Q16543 CDC37 166_174
1289	KYFLQQWEL	Q9UBB6 NCDN 492_500
1290	RRFTEIYEF	A6NI72 NCF1B 43_51; A8MVU1 NCF1C 18_26; P14598 NCF1 42_50
1291	ERLEKFFHR	P86790 CCZ1B 166_174; P86791 CCZ1 166_174
1292	YIDEQFERY	Q15019 SEPT2 121_129
1293	IRKPYIWEY	P07814 SYEP 415_423
1294	RMNKRQLYY	P67812 SC11A 12_20
1295	RRQQQQQLRY	Q9NWH9 SLTM 710_718
1296	RRFKEPWFL	O15090 ZN536 380_388; O75362 ZN217 163_171; Q92618 ZN516 283_291
1297	KRYQVKFRR	P46777 RL5 14_22
1298	KYFDEHYEY	P33552 CKS2 11_19
1299	RRFFPYYVY	P20618 PSB1 127_135
1300	FRYPFYYEM	Q8NHM5 KDM2B 354_362; Q9Y2K7 KDM2A 324_332
1301	APRGTGIVSA	P15880 RS2 198_207
1302	LPRGGSGSVEL	Q9NZ09 UBAP1 200_209

1303	ATVAVPLVGK	Q9BUN8 DERL1 21_30
1304	SPLSAARAAL	Q8N5I4 DHRSX 2_11
1305	GRFGGNPGGF	Q13148 TADBP 274_283
1306	GPTAALGLL	Q14257 RCN2 4_13
1307	APAAFGLVSF	Q9NUM3 S39A9 187_196
1308	KVAPAPAVVK	P62424 RL7A 11_20
1309	ARIAGKVPGL	Q8WWM7 ATX2L 524_533
1310	KPAASPLTSL	Q92615 LAR4B 394_403
1311	ARLGGAVLSF	P27708 PYR1 1985_1994
1312	KPTGARPSAL	O15213 WDR46 596_605
1313	SPAPVPLPLL	Q5VWG9 TAF3 809_818
1314	SRLPSLGAGF	Q8IZL8 PELP1 241_250
1315	HPFPGPGLAI	P49915 GUAA 436_445
1316	VPLGGQQVPL	P80217 IN35 200_209
1317	RPQAPATVGL	Q15370 ELOB 68_77
1318	RPIGIGVQQL	P23921 RIR1 499_508
1319	GRAVVLALVL	O75095 MEGF6 11_20
1320	RRLSPAGAAL	Q8TCT8 SPP2A 5_14
1321	LPRGSSPSVL	Q9GZN2 TGIF2 105_114
1322	IVPDIAVGTK	P26599 PTBP1 4_13
1323	APRTVALTAL	P04440 DPB1 9_18
1324	APRAGPGQLF	Q86YV0 RASL3 341_350
1325	APSAARELSL	Q9H668 STN1 100_109
1326	GRSAFIGIGF	Q8NC96 NECP1 101_110
1327	KPLSGLLNAL	Q8N668 COMD1 10_19
1328	LPRETVAGAL	O95400 CD2B2 166_175
1329	APRAALVFAL	Q6P9G4 TM154 3_12
1330	GRILSGVVTK	P62280 RS11 70_79
1331	SPRSVGPFAL	Q96Q05 TPPC9 1051_1060
1332	GRFGPLASVK	O15042 SR140 295_304
1333	GRVALADIAF	Q9Y2X0 MED16 211_220
1334	GRKTGQAPGY	P99999 CYC 38_47
1335	APHARNGLSL	Q13422 IKZF1 419_428
1336	APAALRGRL	Q5RKV6 EXOS6 88_97
1337	APAPTARNKL	P41218 MNDA 113_122
1338	APKPSSRPSL	Q9P1W9 PIM2 268_277
1339	VPGLCLLVLL	Q8IX30 SCUB3 6_15
1340	L LAEKVLAGK	P63092 GNAS2 296_305; Q5JWF2 GNAS1 939_948
1341	SPIKVTLATL	P06748 NPM 70_79
1342	VPRPAARVAL	P30042 ES1 38_47
1343	KLPGGSYMAK	Q30154 DRB5 5_14
1344	NRFAGFGIGL	Q96AG3 S2546 98_107
1345	VPRGSTLPLL	O75460 ERN1 307_316
1346	RPKPPSATSI	Q9UMS4 PRP19 62_71
1347	LPKIPSNATL	Q13451 FKBP5 119_128
1348	RPVGLTKAVL	O15534 PER1 774_783
1349	RPNGTKVAVL	Q8NHH9 ATLA2 161_170

1350	IIWLPTGAGK	Q96C10 DHX58 21_30
1351	RPYPSPGAVL	O60828 PQBP1 243_252
1352	KRYAVPSAGL	P78527 PRKDC 263_272
1353	APRIALHTAL	Q9UBD5 ORC3 594_603
1354	RRMGPPVGHH	P14866 HNRPL 343_352
1355	AVMGAYVLLK	Q9BY50 SC11C 180_189
1356	STDPSVLGKY	Q14469 HES1 101_110
1357	LPSPSPRISL	Q8TBC3 SHKB1 620_629
1358	GLLEKIATPK	Q9Y2Q3 GSTK1 154_163
1359	RPQSGRVLSA	O43598 DNPH1 120_129
1360	LPSATRAEL	P18583 SON 575_584
1361	VPRAAFLSPL	P30040 ERP29 5_14
1362	SPRKDGLVSL	P51570 GALK1 66_75
1363	RVSGSRLAIL	P43304 GPDM 695_704
1364	GRFSSTTGLF	P51817 PRKX 142_151
1365	TPFGGRLLVL	Q4VC44 FWCH1 119_128
1366	VRVKLVSAGF	O43502 RA51C 23_32
1367	SLDVGGPLRY	Q9NR77 PXMP2 66_75
1368	RPDPAGHLTL	Q9NTJ4 MA2C1 1005_1014
1369	KMGGIKGLFK	P61011 SRP54 433_442
1370	KVKAPPSPVR	Q8WV28 BLNK 40_49
1371	SPRPNIILGL	Q9BTC0 DIDO1 1184_1193
1372	SPSPVRLVL	O43432 IF4G3 230_239
1373	KVNIHPVIGK	Q8WYJ6 SEPT1 162_171
1374	AVNISGLVFY	Q9Y2C5 S17A4 468_477
1375	LPRAVNTQAL	O60749 SNX2 267_276
1376	RTGKPIAVKL	O75534 CSDE1 78_87
1377	VPRQPTVTSV	Q96HC4 PDLI5 203_212
1378	RPSLNIATVL	Q9NPD8 UBE2T 99_108
1379	RVLNKLGGVK	O00244 ATOX1 21_30
1380	SPNGTIRNIL	O75874 IDHC 94_103; P48735 IDHP 134_143
1381	SPNQLSLRLGL	Q96B01 R51A1 327_336
1382	ARLTPIPFG	Q6YI46 TMM64 250_259
1383	SPRLPVGGFR	Q14669 TRIPC 1921_1930
1384	RPRIAGITAM	Q14746 COG2 197_206
1385	RTKKVGIVVK	P61513 RL37A 4_13
1386	MPSASRVILL	Q14999 CUL7 926_935; Q8IWT3 CUL9 1255_1264
1387	RPQQGLSFLGL	Q96HA7 TONSL 1304_1313
1388	ARTSASIILR	P17987 TCPA 369_378
1389	LVFPSEIVVK	P62081 RS7 133_142
1390	RVKGPGISKF	P49961 ENTP1 85_94
1391	GPRSPSVIFM	Q86VZ1 P2RY8 53_62
1392	TRIEGLLAFF	P48444 COPD 27_36
1393	KRNGVIIAGY	Q9UKF6 CPSF3 348_357
1394	MRLPSGKVGF	Q9Y285 SYFA 95_104
1395	SIFDGRVVAK	Q9UM00 TMCO1 107_116
1396	KPGQAPRLLI	P01620 KV302 40_49; P01621 KV303 44_53; P01622 KV304 40_49; P01623 KV305

		40_49; P04433 KV309 59_68; P04434 KV310 60_69; P18135 KV312 60_69; P18136 KV313 60_69  P49336 CDK8 167_176; Q9BWU1 CDK19 167_176
1397	GRVKIADMGF	
1398	KPSEIYSAL	Q6SJ93 F111B 102_111
1399	AARPVPWNAL	Q05923 DUS2 45_54
1400	ALKNPPINTK	O15511 ARPC5 58_67
1401	LPRGSIPRSL	Q14566 MCM6 215_224
1402	HRYGDGGSTF	P31943 HNRH1 274_283
1403	TPRLIDGIVL	P08240 SRPR 578_587
1404	VPFSPVPIPL	P80217 IN35 41_50
1405	GPRPITQSEL	Q96S82 UBL7 263_272
1406	WPKDVGIVAL	Q01581 HMCS1 13_22
1407	GRIGQAIARR	Q9UBQ7 GRHPR 162_171
1408	LPMKVRALGL	Q9BYD3 RM04 165_174
1409	GRDGRLRVGL	Q14160 SCRIB 1146_1155
1410	KPFLPSIIAL	Q96QU8 XPO6 908_917
1411	RRLALFPGVVA	P30101 PDIA3 4_13
1412	RVKLPSGSKK	P62917 RL8 147_156
1413	SPRSSDLVKL	Q9NVH2 INT7 338_347
1414	IIFVGTPVQK	P46013 KI67 1310_1319
1415	DVKDVLDSDL	P81605 DCD 101_110
1416	IPAKPPVSFF	Q6PKC3 TXD11 92_101
1417	GRFDITIGPK	Q9Y2T2 AP3M1 289_298
1418	ASEFGAQHY	Q9BRR6 ADPGK 146_155
1419	SRLSIPTYGL	P49327 FAS 2262_2271
1420	GRYSGRKAVI	P61353 RL27 16_25
1421	LSDIASALRY	O14920 IKKB 126_135
1422	KVNIPLIAK	Q16181 SEPT7 186_195; Q6ZU15 SEP14 186_195
1423	RPWDPAVGVL	Q9P2N6 KANL3 251_260
1424	LPRLADLEAL	O75792 RNH2A 54_63
1425	SLPKKLALLK	Q9UNZ5 L10K 72_81
1426	ATGSWDSFLK	P16520 GBB3 328_337; P62873 GBB1 328_337; P62879 GBB2 328_337
1427	MPRGWAAPLL	Q9HBE5 IL21R 1_10
1428	GARCDFALFL	P27708 PYR1 1526_1535
1429	GLEAIQRTPK	P61769 B2MG 17_26
1430	WRLRLGGAAL	P53801 PTTG 13_22
1431	RPLLKAITAM	Q96GQ7 DDX27 227_236
1432	NPRNTEAVTL	Q9UKF6 CPSF3 447_456
1433	APRKGTWVSL	Q8WUA4 TF3C2 702_711
1434	LPSDLRTISL	Q9C0A6 SETD5 1382_1391
1435	RPADSMLNVL	Q9BTL4 IER2 207_216
1436	VVLGQFLVLK	O75531 BAF 44_53
1437	RPRPHSAPSL	Q5JXC2 MIIP 108_117
1438	RRNGLGQLGF	O43166 SI1L1 957_966; O60292 SI1L3 970_979; Q9P2F8 SI1L2 954_963
1439	AKDIGFIKLD	P62273 RS29 47_56
1440	RTAVPSFLTK	Q96QD9 UIF 252_261
1441	SRLKALNATF	O95219 SNX4 202_211

1442	TPRPVIVEPL	P23246 SFPQ 441_450
1443	RPAVLPLLEL	Q07820 MCL1 137_146
1444	KPNPRGEIVI	O60488 ACSL4 512_521
1445	KPFKLSGLSF	P49006 MRP 96_105
1446	APREPFAHSL	A2A288 ZC12D 321_330
1447	LPRGKLLSQL	Q6ZNJ1 NBEL2 2489_2498
1448	KPHSGFHVAF	Q8IYU8 MICU2 172_181
1449	HPIDGFLQSL	O75845 SC5D 169_178
1450	TRISIFGLGY	Q92508 PIEZ1 1180_1189
1451	KVDGRVVEPK	P09651 ROA1 78_87; P51991 ROA3 99_108; Q32P51 RA1L2 78_87
1452	IPRSITVLVE	P33993 MCM7 249_258
1453	RPKSNIVLLS	P11836 CD20 222_231
1454	SPRENILVSL	O00767 ACOD 281_290
1455	RVRGRTGNVL	Q14204 DYHC1 724_733
1456	YAFPKAVSVF	O15427 MOT4 36_45
1457	KVCNPIITKL	P11142 HSP7C 601_610
1458	GRFAPQFSGY	Q13107 UBP4 380_389; Q9Y4E8 UBP15 367_376
1459	RPRSSNAETL	P61289 PSME3 244_253
1460	KLIDIVSSQK	O14757 CHK1 461_470
1461	GRVGDVYIPR	Q01130 SRSF2 38_47; Q9BRL6 SRSF8 38_47
1462	GRIGNFIVKK	Q00796 DHSO 55_64
1463	KPIFSKIVSL	P41091 IF2G 312_321
1464	RVAEHHVATL	Q12834 CDC20 296_305
1465	KSFPGIPLHH	P50613 CDK7 250_259
1466	APFDERRATSL	Q92466 DDB2 108_117
1467	QVDPLSALKY	Q9UL63 MKLN1 649_658
1468	GRNKYLINGV	O95347 SMC2 111_120
1469	IPKPPDLLQL	Q9P260 K1468 298_307
1470	GRSQVSTPRF	O95997 PTTG1 37_46
1471	IPYTGFNFNL	Q9UKF6 CPSF3 517_526
1472	GRIKVNGIDY	P82933 RT09 291_300
1473	QIFVKTLTGK	P0CG47 UBB 2_11; P0CG48 UBC 2_11; P62979 RS27A 2_11; P62987 RL40 2_11
1474	RRASLSEIGF	Q00537 CDK17 177_186
1475	KLFGETTLVK	P50748 KNTC1 1298_1307
1476	RRLRPLAALA	Q9UMX5 NENF 8_17
1477	KQFDAVLPGY	O14686 KMT2D 4858_4867
1478	APRSGRSLFF	Q9H8Y5 ANKZ1 298_307
1479	VPRTLENPVL	Q9Y5S1 TRPV2 730_739
1480	SPRSTFLLAF	Q9C0C7 AMRA1 52_61
1481	KPKDPLKISL	Q969Q6 P2R3C 399_408
1482	RPRPSGEEVL	P33992 MCM5 112_121
1483	NPRDLPLMAL	P04818 TYSY 183_192
1484	IPRENAQISL	Q9Y275 TN13B 263_272
1485	RLVQGSILKK	P12004 PCNA 5_14
1486	KTKEAVLLLK	P36578 RL4 163_172
1487	SRISLPLPNF	P08670 VIME 409_418
1488	SPRDITTIKL	P56589 PEX3 254_263

1489	HVYVGNISKK	Q9Y2F5 K0947 1936_1945
1490	KRLGTLVVTY	Q96PP9 GBP4 305_314
1491	KLPKQPVIVK	P46776 RL27A 116_125
1492	LLAHVDLIEK	P62875 RPAB5 49_58
1493	LPRGRKQLAL	O60759 CYTIP 52_61
1494	SPRMPVGDF	Q9UIF9 BAZ2A 613_622
1495	RPQSSRPVLL	Q8IWB7 WDFY1 8_17
1496	KRLQAPVGQR	Q9Y2Y4 ZBT32 194_203
1497	IRIQLPVVSK	P46013 KI67 37_46
1498	RLSYNTASNK	P49207 RL34 10_19
1499	RRWLPAGDAL	P13639 EF2 341_350
1500	KPRVTPVEVM	Q8N7H5 PAF1 196_205
1501	KPKGFAFITF	Q9Y4C8 RBM19 441_450
1502	KVLERVNAVK	Q9UL46 PSME2 145_154
1503	RPNKPLFTAL	Q8NCW5 NNRE 145_154
1504	KVLDAIQEK	Q9NTJ3 SMC4 598_607
1505	KPSSLRRVTI	Q12912 LRMP 367_376
1506	MRVTAPRTLL	P03989 B27 1_10; P18463 B37 1_10; P30461 B13 1_10; P30466 B18 1_10; P30481 B44 1_10; P30485 B47 1_10; P30492 B54 1_10; P30493 B55 1_10; P30495 B56 1_10; Q04826 B40 1_10; Q29718 B82 1_10; Q29940 B59 1_10  P15311 EZRI 3_12; P35241 RADI 3_12
1507	KPINVRVTTM	Q12802 AKP13 1857_1866
1508	SLPTVIMRNK	Q96QD9 UIF 164_173
1509	SRKNNIPANF	A2VDF0 FUCM 136_145
1510	ALYGNLILRK	Q9BYK8 HELZ2 503_512
1511	LPRPWSVPPL	Q9BVT8 TMUB1 218_227
1512	RPFPLTATL	P12956 XRCC6 516_525
1513	KRLGSLVDEF	P28065 PSB9 172_181
1514	RRFTTDAIAL	Q9C0G0 ZN407 1354_1363
1515	GRFDSSIIRI	Q96F07 CYFP2 802_811
1516	KSLDQAISRF	Q6ZMZ3 SYNE3 376_385
1517	RRYSATRAAL	Q9NXW2 DJB12 287_296
1518	VTDHGVVYY	Q75643 U520 666_675
1519	RVDPAKGLFY	Q96Q89 KI20B 1701_1710
1520	RPSSKKTYSL	Q5FWF4 ZRAB3 170_179
1521	SRILLPIVQK	P37268 FDFT 148_157
1522	RRMGIGMAEF	Q9UBU8 MO4L1 353_362
1523	APPEYHRKAV	Q08211 DHX9 479_488
1524	LPRPHASIMF	P68431 H31 40_49; P84243 H33 40_49; Q16695 H31T 40_49; Q6NXT2 H3C 39_48; Q71DI3 H32 40_49
1525	HRYRPGTVAL	Q8WU76 SCFD2 191_200
1526	RPDKRKLGS	P62899 RL31 31_40
1527	KRIHGVGFKK	P55008 AIF1 72_81
1528	RMLEKLGVPK	Q6STE5 SMRD3 189_198; Q92925 SMRD2 237_246
1529	KLLDDPSKQK	Q92538 GBF1 1591_1600
1530	KVLFPLLTKL	Q9Y6Q9 NCOA3 849_858
1531	RPPYNRAVSL	P33992 MCM5 323_332
1532	RRLAALPNVY	

1533	KPRAGTEIRF	Q9Y312 AAR2 199_208
1534	KLEDGPKFLK	P68104 EF1A1 386_395; Q5VTE0 EF1A3 386_395
1535	LTELPPPLDDY	Q15796 SMAD2 187_196
1536	LPRGMQPTEF	P28062 PSB8 44_53
1537	RPQRATSNVF	O14950 ML12B 14_23; P19105 ML12A 13_22; P24844 MYL9 14_23
1538	APRGELYKEL	Q96GD4 AURKB 157_166; Q9UQB9 AURKC 123_132
1539	RPSGLIRTYL	O94955 RHBTD3 20_29
1540	ARMKIDPEAF	Q92616 GCN1L 692_701
1541	RLIDFLESGK	Q92841 DDX17 304_313
1542	RPKLPEDPLL	P49327 FAS 1206_1215
1543	GRPCEFPFLI	O60449 LY75 166_175
1544	IPRSILMTTF	Q16531 DDB1 587_596
1545	GRLSGIEERY	Q01082 SPTB2 822_831
1546	ARFLLEGQVF	Q8IY37 DHX37 1065_1074
1547	RPAEVRLLIL	Q8TEM1 PO210 231_240
1548	TVDPASLWEY	Q16658 FSCN1 484_493
1549	ARIKAINTFF	Q71RC2 LARP4 269_278
1550	SRFGNAFLNR	Q9H223 EHD4 129_138
1551	SPANTRYLFL	P16298 PP2BB 116_125; Q08209 PP2BA 107_116
1552	RPRGRLVQSL	P33076 C2TA 548_557
1553	VPNQKRLLTLL	O60488 ACSL4 617_626
1554	SRFEALNLSF	P09086 PO2F2 242_251; P14859 PO2F1 327_336; Q9UKI9 PO2F3 230_239
1555	IPRDVRDTVL	Q86VM9 ZCH18 355_364
1556	RVRQSPLATR	O75381 PEX14 40_49
1557	VYFAERVTSL	P50238 CRIP1 11_20
1558	GRVGFFPRSY	Q13588 GRAP 202_211
1559	RIIEETLALK	O15144 ARPC2 9_18
1560	RPADKRSFIP	Q14137 BOP1 239_248
1561	TTSHLMGMFY	P39748 FEN1 60_69
1562	RRSINQPVAF	Q9GZT3 SLIRP 13_22
1563	FPRDLNLTVL	Q13472 TOP3A 370_379
1564	LPRQGFPIIF	Q9HCE1 MOV10 769_778
1565	KLLNYAPLEK	P62875 RPAB5 58_67
1566	KRVAVILNEF	Q8IUF1 CBWD2 69_78; Q9BRT8 CBWD1 69_78
1567	RRMWATQGLA	P55145 MANF 2_11
1568	RRGYIGVVNR	P50570 DYN2 228_237; Q05193 DYN1 228_237
1569	RRILGLLDAY	P26641 EF1G 136_145
1570	RRNAVLEADF	Q99436 PSB7 20_29
1571	GRIKAIQLEY	O43242 PSMD3 293_302
1572	KTEVNSGFFY	P40227 TCPZ 241_250; Q92526 TCPW 241_250
1573	LLDQGQLNKY	Q00610 CLH1 421_430
1574	SPYFQRPLAL	P32929 CGL 192_201
1575	KLFDAVSKF	O60488 ACSL4 81_90
1576	SRVSKKNIFL	P55265 DSRAD 1154_1163
1577	MRQKAVSLFL	P09912 IFI6 1_10
1578	APRDAYWIAM	O75794 CD123 109_118
1579	IRAFPNKQGY	O43684 BUB3 185_194

1580	TRYKATGLHF	P46940 IQGA1 101_110
1581	AVLYQPLFDK	P55209 NP1L1 107_116
1582	YPFKPPKVAF	P61077 UB2D3 60_69; P62837 UB2D2 60_69; Q9Y2X8 UB2D4 60_69
1583	RLPLISGFYK	P78527 PRKDC 659_668
1584	KRKSLRTTGF	Q4LE39 ARI4B 885_894
1585	IRKFLEGNSM	Q6ZUJ8 BCAP 485_494
1586	RIPEFNMAAF	Q9Y2Y0 AR2BP 84_93
1587	GRYLGKKVQF	P55199 ELL 153_162
1588	VLAQYIIFLK	Q9H0P0 5NT3A 30_39
1589	RPLREGILEL	Q9P2E3 ZNFX1 382_391
1590	KRYNGLLDEF	Q86Y13 DZIP3 193_202
1591	RRHALIVQGF	Q9Y5Q9 TF3C3 788_797
1592	RPRGFGFITF	Q96EP5 DAZP1 152_161
1593	SRLWPKIQGL	Q9NX09 DDIT4 183_192
1594	QRVELLAKKI	P26196 DDX6 345_354
1595	KTDDLTMVLY	Q96RL7 VP13A 1399_1408
1596	FVYPGNPLRH	Q96EK7 F120B 651_660
1597	KAKEPPFVRK	Q9UPT8 ZC3H4 1184_1193
1598	LLFPYILPPK	Q9Y5W7 SNX14 250_259
1599	RRKDAKSVKI	P63173 RL38 16_25
1600	RPRVALQQSF	Q9P265 DIP2B 1289_1298
1601	MRANITAIRR	P49368 TCPG 305_314
1602	KILNLRFLGK	O00267 SPT5H 1074_1083
1603	RRQDSIPAFL	Q9Y6D9 MD1L1 695_704
1604	SPRRSPRISF	Q96FF9 CDCA5 75_84
1605	RRILMGSTLR	P10644 KAP0 232_241; P31321 KAP1 232_241
1606	RRILVATNLF	O00148 DX39A 337_346; Q13838 DX39B 338_347
1607	GRFDSEKMY	P51798 CLCN7 361_370
1608	RPKQEKAFL	Q86UE4 LYRIC 481_490
1609	RRLGVQPSKY	Q9HAY2 MAGF1 194_203
1610	KLNNLVLFDK	P62851 RS25 43_52
1611	TLDESIYSNY	P51679 CCR4 10_19
1612	KPRNVVFVDM	P34932 HSP74 194_203
1613	GRFEGQVRQK	O00255 MEN1 450_459
1614	RPYTNKVTIL	Q14004 CDK13 868_877; Q9NYV4 CDK12 890_899
1615	KIFNVAIPRF	Q9UK99 FBX3 390_399
1616	RTYLPSSQVSR	P35606 COPB2 759_768
1617	VRWSPKGTYL	P55884 EIF3B 340_349
1618	RPRGLRPLEL	Q9BUA3 CK084 192_201
1619	RRSDVEILGY	Q86Y07 VRK2 229_238
1620	KRLDLSHLLL	Q86WI3 NLRC5 1553_1562
1621	RRLPTVLLKL	Q9NV31 IMP3 109_118
1622	KLFDFVNACK	Q08945 SSRP1 413_422
1623	MLYQTINSLK	Q15782 CH3L2 80_89
1624	KRVYLGALKY	Q6P2Q9 PRP8 85_94
1625	APSEYRYTLL	Q9BS26 ERP44 391_400
1626	RRLQSSFTAF	Q92673 SORL 2163_2172

1627	KPRNVQILNM	O14925 TIM23 110_119; Q5SRD1 TI23B 110_119
1628	RPSDEVIREL	Q13572 ITPK1 256_265
1629	RPRLLTSNEKL	Q9Y296 TPPC4 100_109
1630	KPRATWTLKL	Q96DX8 RTP4 20_29
1631	RVFQGFFTGR	O95235 KI20A 466_475
1632	LPRFVRVNTL	Q96P11 NSUN5 134_143
1633	GTRCQFQTKF	Q7Z5G4 GOGA7 21_30
1634	MPSEQIRNQL	Q14152 EIF3A 514_523
1635	KRLNLQPLAY	Q7L8W6 DPH6 131_140
1636	RLAEWKATKL	Q9H2J4 PDCL3 78_87
1637	RVKTNLPIFK	O60493 SNX3 52_61
1638	ASEAEMRLFY	Q8IY37 DHX37 105_114
1639	GRFNGQFKTY	P63220 RS21 44_53
1640	RVFNVFCLYG	P14866 HNRPL 398_407
1641	RPREAPDTYL	Q15653 IKBB 153_162
1642	GRVTLKQYPR	O60667 FAIM3 74_83
1643	RRLGVYPTKK	Q96MG7 MAGG1 203_212
1644	LVREIAQDFK	P68431 H31 71_80; P84243 H33 71_80; Q71DI3 H32 71_80
1645	KRFGEISLRL	Q8NDT2 RB15B 164_173
1646	RPRSISVEEF	Q7Z333 SETX 1143_1152
1647	ARIKLGDYHF	Q9UBV2 SE1L1 629_638
1648	KVWSDPFGRK	Q8N5G0 SMI20 159_168
1649	LLDDAQRLLY	Q6PK81 ZN773 31_40; Q8TAW3 ZN671 65_74; Q96HQ0 ZN419 43_52
1650	RLLEYTPTAR	P49841 GSK3B 319_328
1651	RRWKAGLYGL	P49327 FAS 38_47
1652	QLDLAQRTLY	O43296 ZN264 30_39; Q5CZA5 ZN805 29_38; Q6NX49 ZN544 30_39; Q7Z398 ZN550 28_37
1653	KRSKIKSFVK	P61353 RL27 64_73
1654	KRAKVHIKKL	Q14582 MAD4 96_105
1655	GRYDLLIPQF	Q9P2K8 E2AK4 1350_1359
1656	ARLSLTYERL	Q15904 VAS1 307_316
1657	LRFEVVPSKF	O95671 ASML 33_42
1658	RRNSVFQQGM	P05023 AT1A1 940_949; P13637 AT1A3 930_939; P50993 AT1A2 937_946
1659	GRFGVERDRM	P14317 HCLS1 85_94
1660	GRLKGRNMQY	Q96FN9 DTD2 97_106
1661	RPRVQNQVIL	Q8N4C6 NIN 1422_1431
1662	NLDRTDDLVY	Q14289 FAK2 872_881
1663	KVFVGRFKSR	P11940 PABP1 167_176; Q13310 PABP4 167_176
1664	STDKAETYFY	Q06330 SUH 332_341
1665	LSEINKPNFY	Q5QJE6 TDIF2 252_261
1666	YLDPAQRSLY	O75820 ZN189 30_39
1667	KRQGRTLYGF	P62805 H4 92_101
1668	IPQKQREITL	Q9NR30 DDX21 471_480
1669	RRYGEQPASY	Q53H80 AKIR2 192_201
1670	SFRSLENNFL	P42224 STAT1 69_78
1671	RPRKAFLLLL	P13667 PDIA4 2_11
1672	FTDVNSILRY	P07814 SYEP 48_57

1673	HTRTPPIIHR	Q9BYP7 WNK3 265_274; Q9H4A3 WNK1 339_348; Q9Y3S1 WNK2 313_322
1674	YLYTTLVITDK	P63173 RL38 41_50
1675	GRYSDRFSSR	Q13243 SRSF5 83_92
1676	QPREPQVYTL	P01857 IGHG1 225_234; P01859 IGHG2 221_230; P01860 IGHG3 272_281; P01861 IGHG4 222_231
1677	RRIGLENFLL	O95219 SNX4 154_163
1678	NTDHQTQLLY	Q06609 RAD51 196_205
1679	RRILLSIKEAF	Q9BPX3 CND3 5_14
1680	GRFPYPQIQK	Q13163 MP2K5 352_361
1681	LLDEAQRLLY	Q3KQV3 ZN792 30_39; Q3SY52 ZIK1 43_52; Q68DY9 ZN772 43_52; Q9BWM5 ZN416 44_53
1682	KRWQGGERSM	Q15424 SAFB1 847_856
1683	RRFVNVVPTF	P62861 RS30 40_49
1684	APYERRAMEL	Q9Y3U8 RL36 51_60
1685	FTDEEGYGRY	Q12874 SF3A3 130_139
1686	YTDFDGTRVY	P11309 PIM1 289_298; Q86V86 PIM3 201_210; Q9P1W9 PIM2 194_203
1687	KRLDINTNTY	Q9H173 SIL1 117_126
1688	RRFRASKEGM	Q9H0D6 XRN2 117_126
1689	RRFGQTIQSF	Q7Z628 ARHG8 114_123
1690	RPANHRQLTF	Q9UNM6 PSD13 284_293
1691	TVYRNPESFK	Q9BW72 HIG2A 27_36
1692	RPRGFAYVQF	O75494 SRS10 49_58; Q8WXF0 SRS12 49_58
1693	NPRQINWTVL	P83731 RL24 45_54
1694	ALLPWPFRNK	Q13077 TRAF1 335_344
1695	GRIRDIDLKR	Q13243 SRSF5 28_37
1696	NTDPWAGYRY	P53582 MAP11 74_83
1697	KPSEERVREI	P31350 RIR2 283_292; Q7LG56 RIR2B 245_254
1698	VSERDVYLTY	Q9H4I3 TRABD 256_265
1699	KRFSVPVQHF	Q99829 CPNE1 190_199
1700	SRADQFEYVM	P52434 RPAB3 83_92
1701	HLDGQPFLRY	Q29980 MICB 50_59
1702	IQRTPKIQVY	P61769 B2MG 21_30
1703	RRINLLVKSF	Q6I9Y2 THOC7 25_34
1704	FPDEFHLQTL	Q96QK1 VPS35 270_279
1705	WTDILSHGRY	Q9P2D1 CHD7 1621_1630
1706	RRWRGLGSLF	Q6ZMZ3 SYNE3 911_920
1707	IPFSKRKMEL	Q9UKK3 PARP4 1243_1252
1708	RVLSERLLHK	Q96AZ6 ISG20 131_140
1709	STDKFKTDFY	Q7L5N1 CSN6 271_280
1710	ILDIPNQLYY	Q9HCE1 MOV10 738_747
1711	LTDIFQHDTY	Q96BQ5 CC127 209_218
1712	KRFEELGVKF	Q04760 LGUL 140_149
1713	RPRRTILEVL	Q9UHB4 NDOR1 348_357
1714	RLLDRKVLLK	Q9H4A5 GLP3L 100_109
1715	RRNVNLLEKL	Q8NEM7 SP20H 58_67
1716	RRYGTRPTSY	Q9H9L7 AKIR1 181_190
1717	YVDQAELEKY	Q01581 HMCS1 30_39
1718	HLDEAQRLLY	Q8IVP9 ZN547 27_36; Q8NEK5 ZN548 24_33

1719	YRFEVPTAKF	Q9GZQ3 COMD5 188_197
1720	HRFYGKNSSY	Q13283 G3BP1 31_40
1721	QPRLMEPIYL	P13639 EF2 737_746
1722	SSHKTFRKR	P62891 RL39 2_11
1723	RRLKSLLIDF	Q9H7B2 RPF2 157_166
1724	HTDDPLTWDY	Q9NYH9 UTP6 267_276
1725	RRKDHSFLGF	O75563 SKAP2 126_135
1726	KRYGTIIKRR	Q9NPF2 CHSTB 210_219
1727	SRKTFTETFF	Q5R372 RBG1L 427_436
1728	KPRSQRYESL	P47914 RL29 23_32
1729	YSEIKDFLSY	Q96SD1 DCR1C 322_331
1730	RPRPDEERPL	Q86YV0 RASL3 799_808
1731	RPWLEGRHTL	Q9UI10 EI2BD 364_373
1732	KRFKEANNFL	P18124 RL7 199_208
1733	RRFFMGNQVL	P13010 XRCC5 353_362
1734	RRTTHNIIEK	Q12772 SRBP2 331_340
1735	RRNGTLPWLR	P31153 METK2 168_177
1736	KLFEKKYSVK	Q53T94 TAF1B 567_576
1737	RRKDFVSEAY	Q7L576 CYFP1 148_157; Q96F07 CYFP2 148_157
1738	KRWQNEKLGL	P11912 CD79A 167_176
1739	RPDKRFLRAL	P61962 DCAF7 27_36
1740	TTEESLRNYY	P22626 ROA2 32_41
1741	KTDMEKLTGY	Q14156 EFR3A 34_43
1742	RVLDFDVKRK	Q7Z6Z7 HUWE1 3990_3999
1743	RRLQIEDFEA	Q9P0J0 NDUAD 58_67
1744	RRIQFPIEMS	Q7L576 CYFP1 634_643; Q96F07 CYFP2 658_667
1745	QRLKTNILQY	P06400 RB 762_771
1746	FSDNDKLYLY	P48382 RFX5 56_65
1747	QRNRQVTFTK	Q02080 MEF2B 14_23
1748	RRFTTSVVRR	P15954 COX7C 7_16
1749	KRWGPYNLML	Q8NG31 CASC5 2247_2256
1750	QPRRWPVQL	Q8N6S5 AR6P6 100_109
1751	FTDESYLELY	Q01780 EXOSX 486_495
1752	RRSLLFRNAF	P51688 SPHM 55_64
1753	KRFADSTHRY	Q9H6S0 YTDC2 647_656
1754	VTEEPQRLFY	Q96LC9 BMF 88_97
1755	YPRGVRYILF	Q9NRD1 FBX6 223_232
1756	RRISGVDRYY	O15239 NDUA1 52_61
1757	RPRDKQMELL	Q9BUP3 HTAI2 216_225
1758	HRFYGRNSSY	Q9UN86 G3BP2 31_40
1759	RPSSWRQEKI	Q13526 PIN1 69_78
1760	IQYSNHRELK	O95758 PTBP3 128_137
1761	RPDDKRILEF	O60502 NCOAT 881_890
1762	RPDERRFAVF	Q8TEB1 DCA11 260_269
1763	RMFAPTKTWR	P36578 RL4 100_109
1764	RRYQKSTELL	P68431 H31 53_62; P84243 H33 53_62; Q16695 H31T 53_62; Q6NXT2 H3C 52_61; Q71DI3 H32 53_62

1765	RRLQYLSSKF	Q01433 AMPD2 377_386
1766	KTETEPVFWY	Q8TEQ0 SNX29 79_88
1767	RTYDREGFKK	Q9NZJ9 NUDT4 10_19
1768	RRKDGVFLYF	P62829 RL23 89_98
1769	SDKETYELRY	Q6P5R6 RL22L 99_108
1770	RRNSINFERL	P51959 CCNG1 173_182
1771	KRGLNIDRW	O43920 NDU5 8_17
1772	YVDDASWMRY	Q12789 TF3C1 879_888
1773	RLEIEPEWAY	Q00688 FKBP3 189_198
1774	LTDYFLKDEY	Q13107 UBP4 326_335
1775	RRIKEIVKKH	P07900 HS90A 201_210; Q58FG0 HS905 31_40
1776	KRFEVNKKKM	Q96NC0 ZMAT2 124_133
1777	RRLNFLESKF	Q01432 AMPD3 276_285
1778	RPRSWRELPL	P26639 SYTC 423_432; Q9BW92 SYTM 419_428
1779	KRFDDKYTLK	Q15005 SPCS2 164_173
1780	KLPEYFFENK	Q9BXW9 FACD2 156_165
1781	RLYEHIKNDK	O60337 MARH6 872_881
1782	KRIHIRENSY	Q6ZR52 ZN493 73_82; Q8TF32 ZN431 223_232; Q96N38 ZN714 163_172; Q9H8G1 ZN430 224_233
1783	RRAQLPKYQR	O43670 ZN207 375_384
1784	YTETEPYHNY	Q86VM9 ZCH18 392_401
1785	RLYQVEYAFK	P60900 PSA6 21_30
1786	YRRKDGVFLY	P62829 RL23 88_97
1787	HRLEELYTKK	Q9UNM6 PSD13 23_32
1788	RRAQLQYVQR	Q9P107 GMIP 214_223
1789	FMDPEMETRY	O60266 ADCY3 615_624
1790	RRRHYNGEAY	P31689 DNJA1 372_381
1791	ETDEKDFYLY	Q9GZR7 DDX24 571_580
1792	RRYQDAIRVF	Q9Y262 EIF3L 327_336
1793	RRAARQWQLF	Q15834 CC85B 92_101
1794	YTDLRLFEY	P62140 PP1B 68_77
1795	KRFQFVNGRW	Q8NFA0 UBP32 1283_1292
1796	YRYGIKPEWM	Q14839 CHD4 613_622; Q8TDI0 CHD5 583_592
1797	RRLFEQNVRQ	P61081 UBC12 157_166
1798	GRMRYTYQQR	Q9NXW2 DJB12 223_232
1799	KRWQAIYKQF	P04632 CPNS1 172_181
1800	YTEPNYWIRY	Q8IVL5 P3H2 393_402
1801	ETEREYFNRY	Q7Z6E9 RBBP6 790_799
1802	QSLAGGIIGVK	P61978 HNRPK 153_163
1803	APRAPRALAAA	P53007 TXTP 3_13
1804	AVIGADSVTLK	Q9NYH9 UTP6 467_477
1805	RPAGKGAIIGF	Q5SQI0 ATAT 86_96
1806	RVSGQKAAASL	O75354 ENTP6 342_352
1807	SRSVALAVLAL	P61769 B2MG 2_12
1808	AASKERSGVSL	P10412 H14 49_59; P16402 H13 50_60; P16403 H12 49_59
1809	KVAPAPAVVKK	P62424 RL7A 11_21
1810	APFEPLASGIL	P01033 TIMP1 2_12

1811	SPANPAHILSL	Q9H967 WDR76 369_379
1812	RVAPRSGLAAK	P33316 DUT 169_179
1813	SPKPVTLLASL	Q96Q11 TRNT1 289_299
1814	APRTVALTALL	P04440 DPB1 9_19
1815	GRLAAIVAKQV	P40429 RL13A 17_27
1816	LPRGFGLSLPAL	Q15404 RSU1 101_111
1817	MPRQLSAAAAL	Q9UQV4 LAMP3 1_11
1818	SPSPGLFRASL	Q9HAW4 CLSPN 808_818
1819	KPIAVGSMMSML	Q9UBT6 POLK 126_136
1820	MPAFSKIGGIL	P46940 IQGA1 196_206
1821	SPRPALPALLV	P05362 ICAM1 5_15
1822	RPSGLHGDVSL	Q9H6E5 STPAP 374_384
1823	GRFLGKGFFAK	P53350 PLK1 56_66
1824	APALARTLQSL	Q96HA7 TONSL 1203_1213
1825	RRVSVTAVAAL	O43674 NDUB5 8_18
1826	INAKSRAEAAL	Q969G3 SMCE1 143_153
1827	GRINVSGLTTK	P17174 AATC 386_396
1828	SRAGPLSGKKF	P17844 DDX5 24_34
1829	VTDGAILGKLY	Q8NEZ4 KMT2C 1500_1510
1830	VPNAGRGLVRL	P27695 APEX1 172_182
1831	LPNQARAQAAL	O95758 PTBP3 141_151
1832	APRTVLLLSA	P01889 B07 5_15; P30460 B08 5_15; P30462 B14 5_15; P30475 B39 5_15; P30479 B41 5_15; P30480 B42 5_15; P30483 B45 5_15; P30486 B48 5_15; P30487 B49 5_15; P30488 B50 5_15; Q29836 B67 5_15; Q31612 B73 5_15; Q95365 B38 5_15
1833	MRPGQVSLLGP	Q9NW07 ZN358 430_440
1834	TPSLIRAGSRV	P48201 AT5G3 10_20
1835	GPNPKSSRTTL	P17480 UBF1 661_671
1836	VPRASVPDGFL	P14174 MIF 10_20
1837	TPSLVKSTSQL	Q06055 AT5G2 10_20
1838	GRILSGVVTKM	P62280 RS11 70_80
1839	GRSSTASLVKR	O15213 WDR46 558_568
1840	ALLDGSNVVFK	O15212 PFD6 48_58
1841	APSPVIPRLTL	Q5VWG9 TAF3 753_763
1842	VPRPPSLLATL	Q14689 DIP2A 329_339
1843	VPRLNSSPLAL	Q8TCT7 SPP2B 399_409
1844	RPNGTKVAVLL	Q8NHH9 ATLA2 161_171
1845	VPRSASVLLLL	Q9Y3Q3 TMED3 5_15
1846	APREALAQTVL	Q99829 CPNE1 492_502
1847	VPDSSGPERIL	P61978 HNRPK 78_88
1848	IPDEAKALSLL	Q05519 SRS11 115_125
1849	RLLPGNATISK	Q460N5 PAR14 858_868
1850	APRNSAELTVI	O60566 BUB1B 784_794
1851	SPAVERLISSL	Q9BQ52 RNZ2 618_628
1852	APILDKVLTAM	O60711 LPXN 216_226
1853	RRATPATEAGF	Q12772 SRBP2 645_655
1854	VVDIQGVGDLY	O00418 EF2K 272_282
1855	ARAALTGLLHR	P55084 ECHB 80_90

1856	APRGQRPESAL	P28062 PSB8 9_19
1857	IPRDNKAALL	O95273 CCDB1 165_175
1858	SPQLGRAVQLL	Q8N2A8 PLD6 103_113
1859	VPRAAFLSPLL	P30040 ERP29 5_15
1860	VVQDGITLITK	P13010 XRCC5 678_688
1861	RLSGVSSNIQK	Q7Z6I6 RHG30 55_65
1862	VVFVIDPGFAK	O43143 DHX15 433_443
1863	APRHPSTNSLL	Q9P032 NDUF4 30_40
1864	VPRIASKPIIV	Q9Y217 MTMR6 165_175
1865	RLYLNGDGTGK	Q13077 TRAF1 308_318
1866	RPRNPAGRTGL	Q9BW91 NUDT9 146_156
1867	GRKQDKGGFGF	Q15056 IF4H 118_128
1868	RPDQGLALTLL	Q99973 TEP1 1205_1215
1869	GRSTGEAFVQF	P31942 HNRH3 54_64; P31943 HNRH1 149_159; P55795 HNRH2 149_159
1870	LPDSGHLHPLL	Q9Y285 SYFA 218_228
1871	FLDASGAKLDY	Q7L1Q6 BZW1 53_63
1872	RPQSKAPDSTL	O60291 MGRN1 445_455
1873	RPYAPINANAI	O94776 MTA2 481_491
1874	SPSAAHFITRL	Q8NDH3 PEPL1 88_98
1875	RRWLGSAGLPS	Q8TDM0 BCAS4 150_160
1876	GRIGVWNAVTK	Q8TBC3 SHKB1 307_317
1877	TPDTGRILSKL	A2A3N6 PIPSL 550_560; P55036 PSMD4 65_75
1878	SPNNPFSRVAL	Q9UNY4 TTF2 883_893
1879	RPFADLLGTAF	Q6ZS81 WDFY4 740_750
1880	RIYGESADAVK	P51114 FXR1 263_273
1881	RVAPAHGLFLK	Q8N0Z8 PUSL1 270_280
1882	VRLLLPGELAK	O60814 H2B1K 99_109; P06899 H2B1J 99_109; P23527 H2B1O 99_109; P33778 H2B1B 99_109; P57053 H2BFS 99_109; P58876 H2B1D 99_109; P62807 H2B1C 99_109; Q16778 H2B2E 99_109; Q5QNW6 H2B2F 99_109; Q8N257 H2B3B 99_109; Q93079 H2B1H 99_109; Q96A08 H2B1A 100_110; Q99877 H2B1N 99_109; Q99879 H2B1M 99_109; Q99880 H2B1L 99_109
1883	KTDSTGTHSLY	O43166 SI1L1 664_674; O60292 SI1L3 676_686; Q96FS4 SIPA1 386_396; Q9P2F8 SI1L2 660_670
1884	HPSERTLVAV	Q9H967 WDR76 322_332
1885	KRFDNRGGGGF	Q9BUJ2 HNRL1 607_617
1886	RPRGPSPLVTM	Q9Y2K2 SIK3 509_519
1887	GRFTAAELLSF	Q8TCT6 SPPL3 138_148
1888	APRASERGVRL	Q96SB3 NEB2 83_93
1889	LPRSIGNALTQL	Q6UWE0 LRSM1 119_129
1890	APRLQSEVAEL	P53990 IST1 107_117
1891	LPRDAANILVM	Q9NWS8 RMND1 202_212
1892	KPIEASIRGEL	P08133 ANXA6 224_234
1893	RRLALFPGVAL	P30101 PDIA3 4_14
1894	RPKPSSSPVIF	Q15366 PCBP2 183_193
1895	SPYPGLRLISL	P17405 ASM 370_380
1896	APTQEKFIAVL	P51825 AFF1 1040_1050
1897	KPKNPEFTSGL	P09913 IFIT2 168_178
1898	RADPEAGLLY	P51530 DNA2 325_335

1899	KMKEALLSIGK	Q96C01 F136A 128_138
1900	LPRGSRAHTL	P09543 CN37 323_333
1901	LPHGGEWQQL	Q99640 PMYT1 305_315
1902	SDYPPPLGRFAV	P68104 EF1A1 416_426; Q5VTE0 EF1A3 416_426
1903	KLLEPVLLLKG	P62249 RS16 50_60
1904	GTFVSPEVFLK	Q86Y56 HEAT2 428_438
1905	GRADKVGFFVK	Q8IY18 SMC5 105_115
1906	IPRVVQEGDVL	Q13608 PEX6 347_357
1907	TPRRPAGLLML	O60449 LY75 7_17
1908	GRVESVKILPK	Q96T58 MINT 30_40
1909	RPRPTEATVSL	Q92619 HMHA1 940_950
1910	RPDDRSQGAI	Q04637 IF4G1 231_241
1911	RPAANPIQFTL	P23921 RIR1 742_752
1912	IVAINDPFIDL	P04406 G3P 30_40
1913	VRMNVLADALK	P62244 RS15A 2_12
1914	SVFGGLVNYFK	O95721 SNP29 114_124
1915	APAIGRYIRTL	Q5VYK3 ECM29 623_633
1916	KPKTPSLTVFL	P24928 RPB1 1133_1143
1917	RVVDGKDLSKK	Q9BXW9 FACD2 185_195
1918	SRLQETGLLSK	Q9UQL6 HDAC5 716_726
1919	KVLDTIMATKL	Q460N5 PAR14 278_288
1920	SLLGKDVLFLK	P00558 PGK1 87_97; P07205 PGK2 87_97
1921	VPDTSRIYVAL	Q9UBK9 UXT 83_93
1922	SPYGSDRLVQL	Q9Y2Y4 ZBT32 10_20
1923	GRFSSTTGLFY	P51817 PRKX 142_152
1924	KTFKTVEPTGK	P10155 RO60 359_369
1925	KPATSYVRTTI	P46779 RL28 72_82
1926	RRLKGSGVTYY	Q8TC12 RDH11 218_228
1927	LPRVADILTQL	Q9BZZ5 API5 95_105
1928	RPDATKVLI	P20701 ITAL 252_262
1929	RPSSRSYVTT	P08670 VIME 23_33
1930	SPREGRPNQL	Q9BYK8 HELZ2 2268_2278
1931	IPYHSEVPVSL	Q01082 SPTB2 2247_2257
1932	DTSRPLGDSMY	Q14596 NBR1 741_751
1933	FITVGYVDDTL	P03989 1B27 46_56; P30479 1B41 46_56; P30481 1B44 46_56; P30483 1B45 46_56; P30485 1B47 46_56; P30487 1B49 46_56; P30488 1B50 46_56; Q04826 1B40 46_56
1934	ISDPTSPLRTR	P01591 IGJ 72_82
1935	KPRDVSSVELL	Q01082 SPTB2 1939_1949
1936	SPMKEKGNIQL	P11717 MPRI 554_564
1937	RRLGERNGSSL	Q92522 H1X 57_67
1938	IPDASKLQFIL	O75935 DCTN3 78_88
1939	GLFQGKTPLRK	Q9ULW0 TPX2 53_63
1940	ALRKNGFVVLK	P63241 IF5A1 24_34; Q6IS14 IF5AL 24_34; Q9GZV4 IF5A2 24_34
1941	LPRTIFPTSTI	Q99590 SCAFB 265_275
1942	GPRAREIFTSL	Q8IZ83 A16A1 7_17
1943	RPYLSAVRATL	P59998 ARPC4 6_16

1944	NRFSTPEQAAK	P14866 HNRPL 483_493
1945	VVYSGLENIKK	Q9HBL8 NMRL1 109_119
1946	RDGDILGKYVD	P61604 CH10 92_102
1947	SRNSNTVVFK	O94842 TOX4 611_621
1948	SPRPDRALVQL	Q53GL7 PAR10 128_138
1949	IPSADRHKSKL	P22314 UBA1 875_885
1950	RIFAPNHHVAK	Q02543 RL18A 31_41
1951	LLDKGVYGLLY	Q9UDY8 MALT1 401_411
1952	RPADPEKNQSL	Q9H8H0 NOL11 235_245
1953	VPRPVLRALSF	Q9GZR7 DDX24 199_209
1954	GRIDIKQLIAK	P35610 SOAT1 40_50
1955	KVAEITELILK	Q06265 EXOS9 257_267
1956	KPNANRIALDF	P17931 LEG3 139_149
1957	RLFVGSIPIKNAK	O43390 HNRPR 247_257
1958	KPFEQVKGITL	P33121 ACSL1 648_658
1959	KPKSFKVNVTL	Q16678 CP1B1 512_522
1960	MPDVGRSMQQL	Q5GLZ8 HERC4 838_848
1961	RPIFKDTQGSL	Q5JSL3 DOC11 532_542
1962	SPSGRRVYQVL	Q19AV6 ZSWM7 59_69
1963	RRLPSDVVTGY	Q6PI98 IN80C 171_181
1964	RFVNVPPTFGK	P62861 RS30 41_51
1965	YPSVENVRTSL	Q9NUW8 TYDP1 441_451
1966	SPMMPRITSVF	Q6AHZ1 Z518A 758_768
1967	TPDPSKFFSQL	P14784 IL2RB 282_292
1968	GRLQDPQKVVAR	Q9BX95 SGPP1 12_22
1969	RRWLPAGDALL	P13639 EF2 341_351
1970	KLDVDAPRLLK	Q92503 S14L1 60_70
1971	QPIDNVSRNLL	Q8N201 INT1 341_351
1972	LPDLQRSKQAL	Q9UL45 BL1S6 61_71
1973	VPRGVRKESQL	Q8N103 TAGAP 539_549
1974	VRLNLRGLLSK	Q6P3X3 TTC27 791_801
1975	VRIGEEAIVKR	Q9P1Z0 ZBTB4 606_616
1976	SPFSFHHVLSL	P26010 ITB7 225_235
1977	RINEILSNALK	P52272 HNRPM 371_381
1978	ALLRVTPFILK	Q8N4H5 TOM5 36_46
1979	GRWQGNDIVVK	Q13418 ILK 210_220
1980	APRPDSRHSL	Q9BSV6 SEN34 71_81
1981	MPFPNIRSAEL	A8MPP1 D11L8 799_809; Q92771 DDX12 817_827; Q96FC9 DDX11 798_808
1982	LPRGLFRSESL	Q92974 ARHG2 636_646
1983	RLINTQAIFAK	P49366 DHYS 264_274
1984	RVWDVESGSLK	Q9GZL7 WDR12 281_291
1985	IPDAKHVFITF	Q9BUB7 TMM70 202_212
1986	RVQEAVESMVK	Q96C01 F136A 8_18
1987	KSFKLSGFSFK	P29966 MARCS 162_172
1988	TVFDAKRLIGR	P08107 HSP71 66_76; P11021 GRP78 91_101; P11142 HSP7C 66_76; P17066 HSP76 68_78; P34931 HS71L 68_78; P48741 HSP77 68_78
1989	RPRPGNILLQL	Q8TEL6 TP4AP 31_41

1990	STDVSDLLHQY	P28062 PSB8 261_271
1991	RRMWPLAFGSG	Q5TGZ0 MOS1 38_48
1992	AIFEVNTDLQK	Q92545 TM131 804_814
1993	VLDINSIDNLY	Q53G44 IF44L 322_332
1994	RIMDPDVITGY	P28340 DPOD1 386_396
1995	QLDVAGRVMQY	Q6VY07 PACS1 703_713
1996	YPMDLGGGRNFL	Q9BUN8 DERL1 190_200
1997	YAKDIGFIKLD	P62273 RS29 46_56
1998	RLIPDDLSLLK	Q8NCF5 NF2IP 135_145
1999	TPRDLVLRSSL	B0I1T2 MYO1G 317_327
2000	RRVLQALEGLK	P39019 RS19 101_111
2001	SPDPLRPLEFL	Q4VC44 FWCH1 591_601
2002	IPRSPFKVKVL	O75369 FLNB 1502_1512
2003	KTDSDLQLY	Q01433 AMPD2 187_197
2004	APRWLEEAAL	Q53GL7 PAR10 646_656
2005	TTDLFGRDLSY	P52597 HNRPF 256_266
2006	SSDTADFRDLY	P81408 F189B 500_510
2007	SPRLSQTFQLQ	Q92608 DOCK2 1780_1790
2008	KPSEEMVKMVL	Q68E01 INT3 852_862
2009	KLIGEYGLRNK	P46781 RS9 30_40
2010	SRIPFNQALVF	Q9UHI6 DDX20 305_315
2011	RRFVNVVPTFG	P62861 RS30 40_50
2012	RRISIVENCFG	Q9H8W4 PKHF2 13_23
2013	RLLDQPKPKAK	O94887 FARP2 321_331
2014	AINDPFIDLNY	P04406 G3P 32_42
2015	TRLPLISGFYK	P78527 PRKDC 658_668
2016	KTEDPDLPAFY	Q6P2Q9 PRP8 341_351
2017	LPSAQRFHINL	O00182 LEG9 248_258; Q3B8N2 LEG9B 249_259; Q6DKI2 LEG9C 249_259
2018	QLEDGRTLSDY	P0CG47 UBB 49_59; P0CG48 UBC 49_59; P62979 RS27A 49_59; P62987 RL40 49_59
2019	SPRALRLFSHL	Q8IXM6 NRM 185_195
2020	KLKDGLIIRK	P84098 RL19 43_53
2021	LRSLLEGLLQR	P25098 ARBK1 421_431
2022	RRILLAEVPTM	O15160 RPAC1 77_87
2023	KMADKVLQPQRI	Q92925 SMRD2 139_149
2024	RRLGVQQSLGW	P33552 CKS2 44_54
2025	YQDPDATSLKY	Q86WJ1 CHD1L 709_719
2026	MRVMAPRTLIL	P04222 1C03 1_11; P30504 1C04 1_11; P30505 1C08 1_11; P30508 1C12 1_11; P30510 1C14 1_11; Q29960 1C16 1_11; Q29963 1C06 1_11; Q9TNN7 1C05 1_11
2027	ARNPSLKQQLF	P05496 AT5G1 98_108; P48201 AT5G3 104_114; Q06055 AT5G2 103_113
2028	QTETGTPYMLY	P23921 RIR1 397_407
2029	RRISESGIKKM	Q96A65 EXOC4 860_870
2030	TVRFNVLKVTK	P62280 RS11 137_147
2031	APRPDRLVNRL	O75534 CSDE1 747_757
2032	RLLLETHLPSK	O00567 NOP56 77_87
2033	RPGFSISRIYL	O75821 EIF3G 260_270
2034	RPRETRVIAVL	P33076 C2TA 409_419

2035	KRIQDIVGILR	P46087 NOP2 241_251
2036	GTIRSRSFIFK	Q9UN19 DAPP1 270_280
2037	KPRNVQILNMV	O14925 TIM23 110_120; Q5SRD1 TI23B 110_120
2038	RRGDLPFVVPR	P35579 MYH9 1922_1932
2039	KLPDLERLLSK	P52701 MSH6 814_824
2040	RIRELTAVVQK	P23396 RS3 65_75
2041	APYMRSMMQSL	Q9UHD9 UBQL2 389_399; Q9UMX0 UBQL1 397_407
2042	LHLGYLPNQLF	Q92499 DDX1 727_737
2043	GRLAHEVGWKY	P40429 RL13A 139_149
2044	RPSDANRKEML	O43847 NRDC 318_328
2045	RPREQNGAIYL	Q95460 HMR1 326_336
2046	VLDSEGYLLFY	A6NNY8 UBP27 408_418; Q9UPT9 UBP22 507_517
2047	KVYEGERPLTK	P11021 GRP78 464_474
2048	KRLLPVFAQTF	Q9ULT8 HECD1 522_532
2049	LPRYLMGETQL	Q9BRU9 UTP23 49_59
2050	FAVDPEKIQLY	Q2KHR3 QSER1 1659_1669
2051	RRSIISPNSFSF	P28562 DUS1 291_301; Q13115 DUS4 313_323
2052	LTELLERAAFY	Q8N697 S15A4 42_52
2053	KLYEGVPLPFY	Q14181 DPOA2 318_328
2054	RRSKGIAYVEF	Q14498 RBM39 191_201; Q86U06 RBM23 204_214
2055	HRYRPGTVALR	P68431 H31 40_50; P84243 H33 40_50; Q16695 H31T 40_50; Q6NXT2 H3C 39_49; Q71DI3 H32 40_50
2056	ELDPMAMTQKY	Q13435 SF3B2 834_844
2057	IPLPERMTTL	O95466 FMNL 791_801
2058	RRQIIGEISKK	Q9ULR0 ISY1 46_56
2059	SRFGNAFLNRF	Q9H223 EHD4 129_139
2060	AVYGQKEIHRK	Q13283 G3BP1 54_64
2061	IRVKTNLPIFK	O60493 SNX3 51_61
2062	TSETPDYLLKY	P55199 ELL 503_513
2063	FLDPITGTFRY	P40818 UBP8 658_668
2064	KPRQQQDLVAF	O60443 DFNA5 349_359
2065	HRIDGKTYVIK	P19525 E2AK2 286_296
2066	RIFDSPEELPK	P35658 NU214 26_36
2067	KPRHITPFTSF	P42345 MTOR 309_319
2068	RIRNISNTVMK	Q0VDF9 HSP7E 56_66
2069	KRFNADNKLLL	Q9NRZ9 HELLS 371_381
2070	KMLEENTNILK	Q9NYL9 TMOD3 307_317
2071	KRFEAAKEDLK	Q6VMQ6 MCAF1 651_661
2072	QRIEHLIGKKL	Q9H0S4 DDX47 376_386
2073	RTLSKDDVNYK	P48651 PTSS1 8_18
2074	VRHSLKDILMK	Q92576 PHF3 931_941
2075	RRKDLVETLL	Q9H040 SPRTN 100_110
2076	ARFSPDDKYSR	Q9NPE3 NOP10 33_43
2077	KLISEEDLLRK	P01106 MYC 412_422
2078	RLLDSEIKIMK	P17980 PRS6A 46_56
2079	RMALIRKTTKK	Q16514 TAF12 151_161
2080	GYVDDTQFVRF	P01889 1B07 50_60; P01891 1A68 50_60; P01892 1A02 50_60; P01893 HLAH 50_60; P04222 1C03 50_60; P04439 1A03 50_60; P05534 1A24 50_60; P10314 1A32

		50_60; P10316 1A69 50_60; P10319 1B58 50_60; P10321 1C07 50_60; P13746 1A11 50_60; P13747 HLAE 47_57; P16188 1A30 50_60; P16189 1A31 50_60; P16190 1A33 50_60; P17693 HLAG 50_60; P18462 1A25 50_60; P18463 1B37 50_60; P18464 1B51 50_60; P18465 1B57 50_60; P30443 1A01 50_60; P30447 1A23 50_60; P30450 1A26 50_60; P30453 1A34 50_60; P30455 1A36 50_60; P30456 1A43 50_60; P30457 1A66 50_60; P30459 1A74 50_60; P30460 1B08 50_60; P30461 1B13 50_60; P30462 1B14 50_60; P30464 1B15 50_60; P30475 1B39 50_60; P30480 1B42 50_60; P30484 1B46 50_60; P30486 1B48 50_60; P30490 1B52 50_60; P30491 1B53 50_60; P30492 1B54 50_60; P30493 1B55 50_60; P30495 1B56 50_60; P30498 1B78 50_60; P30499 1C01 50_60; P30501 1C02 50_60; P30504 1C04 50_60; P30508 1C12 50_60; P30510 1C14 50_60; P30512 1A29 50_60; Q07000 1C15 50_60; Q29718 1B82 50_60; Q29836 1B67 50_60; Q29865 1C18 50_60; Q29940 1B59 50_60; Q29960 1C16 50_60; Q29963 1C06 50_60; Q31610 1B81 50_60; Q31612 1B73 50_60; Q95365 1B38 50_60; Q95604 1C17 50_60  Q9Y5V0 ZN706 45_55  Q9Y3U8 RL36 51_61  Q01196 RUNX1 129_139; Q13761 RUNX3 133_143; Q13950 RUNX2 180_190  P31350 RIR2 211_221  Q7KZF4 SND1 687_697  P50995 ANX11 463_473  O43665 RGS10 136_146  Q92499 DDX1 730_740  O00505 IMA4 6_16  Q9BZF1 OSBL8 733_743  P35222 CTNB1 666_676  Q16539 MK14 122_132  Q92797 SYMPK 203_213  Q12774 ARHG5 1430_1440  Q70J99 UN13D 411_421  Q9NYK1 TLR7 993_1003  Q7Z392 TPC11 1109_1119  Q6P1Q9 MET2B 348_358; Q96IZ6 MET2A 348_358  P36578 RL4 254_264  Q92466 DDB2 96_106  Q6P5R6 RL22L 98_108  P84103 SRSF3 23_33  Q6P2Q9 PRP8 246_256  Q03013 GSTM4 201_211  P51665 PSMD7 204_214  P01891 1A68 193_203; P01892 1A02 193_203; P01893 HLAH 193_203; P03989 1B27 193_203; P04439 1A03 193_203; P05534 1A24 193_203; P10314 1A32 193_203; P10316 1A69 193_203; P10319 1B58 193_203; P10321 1C07 193_203; P13746 1A11 193_203; P16188 1A30 193_203; P16189 1A31 193_203; P18462 1A25 193_203; P18463 1B37 193_203; P18465 1B57 193_203; P30443 1A01 193_203; P30447 1A23 193_203; P30450 1A26 193_203; P30453 1A34 193_203; P30455 1A36 193_203; P30456 1A43 193_203; P30457 1A66 193_203; P30459 1A74 193_203; P30461 1B13 193_203; P30464 1B15 193_203; P30475 1B39 193_203; P30481 1B44 193_203; P30483 1B45 193_203; P30484 1B46 193_203; P30485 1B47 193_203; P30487 1B49 193_203; P30488 1B50 193_203; P30491 1B53 193_203; P30492 1B54 193_203; P30493 1B55 193_203; P30495 1B56 193_203; P30504 1C04 193_203; P30508 1C12 193_203; P30510 1C14 193_203; P30511 HLAF 190_200; P30512 1A29
2081	RTQMPDPKTFK	
2082	APYERRAMELL	
2083	ARFNDLRFVGR	
2084	LRWIGDKEATY	
2085	VTEITDDLHFY	
2086	ETDLDIIRSEY	
2087	SRFLKSDLFLK	
2088	GYLPNQLFRF	
2089	SLENHRIKSFK	
2090	ELDPLTGEWHY	
2091	KPQDYKKRSLV	
2092	LTDDHVQFLIY	
2093	IPRRQEHDISL	
2094	RPREGSRFLVF	
2095	RRFRSVFPLSV	
2096	KPFQKSKFLQL	
2097	RRFIPTSIFVK	
2098	RRLQVNRGKQL	
2099	ESAFRKLDELY	
2100	HTLDSYRILQK	
2101	ASDKETYELRY	
2102	KTELERAFGYY	
2103	LTDLVDDNYFY	
2104	SRFLPKPLYTR	
2105	KLLDIRSYLEK	
2106	RRYLENGKETL	

		193_203; P30685 1B35 193_203; Q04826 1B40 193_203; Q07000 1C15 193_203; Q09160 1A80 193_203; Q29718 1B82 193_203; Q29836 1B67 193_203; Q29865 1C18 193_203; Q29940 1B59 193_203; Q29960 1C16 193_203; Q29963 1C06 193_203; Q95365 1B38 193_203  O60449 LY75 658_668
2107	KVFHAERIVRK	Q12983 BNIP3 102_112
2108	RRKEVESILKK	P33991 MCM4 730_740
2109	YPRQLESLIRL	Q9P1W9 PIM2 201_211
2110	RVVSPPEWISR	P06865 HEXA 425_435
2111	ISYGPDKDFY	O94804 STK10 596_606
2112	KRFEQEINAKK	P01889 1B07 193_203; P30486 1B48 193_203; Q31610 1B81 193_203
2113	RRYLENGKDKL	P26373 RL13 167_177
2114	RVITEEKNFK	Q9NY93 DDX56 239_249
2115	ETEEDKFLLY	P82914 RT15 212_222
2116	RVFQETQKLKK	P68431 H31 53_63; P84243 H33 53_63; Q16695 H31T 53_63; Q6NXT2 H3C 52_62; Q71DI3 H32 53_63  Q86U86 PB1 1201_1211
2117	RRYQKSTELLI	P13693 TCTP 102_112; Q9HAU6 TCTP8 102_112
2118	ETEHEPTKMFY	P56381 ATP5E 5_15; Q5VTU8 AT5EL 5_15
2119	KLEEQRPERVK	Q08116 RGS1 187_197
2120	WRQAGLSYIRY	Q9Y6K5 OAS3 18_28
2121	YPRFLKSDIYL	Q12788 TBL3 707_717
2122	RLQPRKEFVEK	Q9P0J0 NDUAD 58_68
2123	RRDQKEALLRF	Q13769 THOC5 189_199
2124	RRLQIEDFEAR	P09874 PARP1 77_87
2125	ARLDWELEQRK	P18074 ERCC2 275_285
2126	LRWDDQQKVKK	Q9UL46 PSME2 33_43
2127	ETDEQRLRDEY	Q8TEQ0 SNX29 79_89
2128	YRFLPKIIYL	Q9BTL3 RAM 19_29
2129	KTETEPFWYY	O15027 SC16A 1439_1449
2130	FTENDKEYQEY	Q9GZR7 DDX24 571_581
2131	ETERFRELLY	O43852 CALU 151_161
2132	ETDEKDFYLYY	Q15027 ACAP1 371_382
2133	QMMVRDERRFK	Q9P2G9 KLHL8 542_553
2134	SPRGPGQGSGL	Q15004 PAF15 21_32
2135	TPRGGVGIAATVM	P17844 DDX5 18_29
2136	APRKVLGSSTSA	Q9NQR4 NIT2 98_109
2137	APRGFGSRAGPL	Q9BX55 AP1M1 146_157
2138	AVFGPDGTLLAK	O00587 MFNG 5_16
2139	APRPPATVTNAV	Q9GZN2 TGIF2 153_164
2140	LPRGLLAGALLTL	Q8N8L6 ARL10 2_13
2141	SPKPLVTPGSTL	P30475 1B39 5_16; P30479 1B41 5_16; P30480 1B42 5_16; P30483 1B45 5_16; P30486 1B48 5_16; P30487 1B49 5_16; P30488 1B50 5_16; Q29836 1B67 5_16; Q31612 1B73 5_16; Q95365 1B38 5_16
2142	APRPLGPLVLAL	P46013 KI67 1679_1690
2143	APRTVLLLLSAA	O00221 IKBE 233_244
2144	SPKQILDSAASL	Q9H8W4 PKHF2 33_44
2145	APRLPLPHVGAL	Q9H7U1 CCSE2 292_303
2146	GRVLIGEGVLTK	
2147	RPYAAGGKKLAL	

2148	TPRLASTNSSVL	Q13428 TCOF 102_113
2149	RPAPPLRPSAAL	Q14155 ARHG7 656_667; Q15052 ARHG6 595_606
2150	GAVHDVKDVLDS	P81605 DCD 97_108
2151	APRRGRGSSTVL	Q96HE8 TMM80 28_39
2152	RVFSGLVSTGLK	P13639 EF2 415_426
2153	MPRGPTLGHVSL	Q96TA2 YMEL1 622_633
2154	LPRALGSGFPHL	Q96CX6 LRC58 59_70
2155	IPRPLSLIGSTL	Q96BY6 DOC10 1313_1324
2156	GRFGTKGLAITF	O00148 DX39A 378_389; Q13838 DX39B 379_390
2157	RRIGAVGQAVSR	O94901 SUN1 255_266
2158	VPRAAFSLPLP	P30040 ERP29 5_16
2159	VPRDGRRAGNAL	P0C1Z6 TFPT 195_206
2160	APAYLPRSLAIL	Q8IW35 CEP97 164_175
2161	SPRLPVGGFRSL	Q14669 TRIPC 1921_1932
2162	RVKVSQAAADLK	P63218 GBG5 25_36
2163	PSKGPLQSVQVF	P62249 RS16 2_13
2164	HPRSPNVLSVAL	Q16665 HIF1A 684_695
2165	RRMFGGPGTASR	P08670 VIME 12_23
2166	SPRPSPLLPESL	Q7Z6I6 RHG30 349_360
2167	RPRPGTGLGRVM	Q9BVK6 TMED9 11_22
2168	TPMPRNIEGATL	Q14872 MTF1 112_123
2169	APSRRNRSSGVL	O15042 SR140 247_258
2170	NPRALSFVLSSL	P00973 OAS1 128_139
2171	SPDGSRLLFTVL	Q9NRG9 AAAS 337_348
2172	GRFGRKGVAINM	P60842 IF4A1 364_375
2173	AIYELAVASF PK	P14406 CX7A2 69_80
2174	SPRANLPPLYAL	Q15646 OASL 225_236
2175	VRPPVQVYVGIEG	P48047 ATPO 28_39
2176	SPFGKDVR LVSL	A8MPP1 D11L8 251_262; Q92771 DDX12 268_279; Q96FC9 DDX11 249_260
2177	GRFGRKGVAINF	Q14240 IF4A2 365_376
2178	KIRDIDAA TEAK	Q96SU4 OSBL9 677_688
2179	SPRFVDVQPSSL	Q8WYP5 ELYS 528_539
2180	FPRSPSAN EKSL	O94868 FCSD2 678_689
2181	ALRYPMAVGLNK	Q9Y3U8 RL36 2_13
2182	GRYSGRKAVIVK	P61353 RL27 16_27
2183	KLDNTVQDAGLY	Q13107 UBP4 197_208
2184	APSALRVYVGQYL	Q969Q6 P2R3C 272_283
2185	GRYGRKGVAINF	P38919 IF4A3 369_380
2186	SPRGEAQKLLEL	Q96T58 MINT 1857_1868
2187	QRAGLQFPVGRI	P0C0S5 H2AZ 22_33; Q71UI9 H2AV 22_33
2188	RIRDQLSAVASK	Q9P000 COMD9 187_198
2189	SPRYLQPGGEQL	Q96N96 SPT13 127_138
2190	VRLLLPGELAKH	O60814 H2B1K 99_110; P06899 H2B1J 99_110; P23527 H2B1O 99_110; P33778 H2B1B 99_110; P57053 H2BFS 99_110; P58876 H2B1D 99_110; P62807 H2B1C 99_110; Q16778 H2B2E 99_110; Q5QN W6 H2B2F 99_110; Q8N257 H2B3B 99_110; Q93079 H2B1H 99_110; Q96A08 H2B1A 100_111; Q99877 H2B1N 99_110; Q99879 H2B1M 99_110; Q99880 H2B1L 99_110
2191	RRWLGSAGLPSF	Q8TDM0 BCAS4 150_161

2192	APRGHRGERPTL	Q7RTP6 MICA3 692_703
2193	RIRSTMEGGTLK	P16885 PLCG2 587_598
2194	YVDAVLGKGHQY	Q12769 NU160 1357_1368
2195	KLAEAERVGLHK	P11388 TOP2A 976_987
2196	RPRAPRESAQAI	P46013 KI67 2786_2797
2197	TLLNVSKLNILK	P36578 RL4 228_239
2198	SRLNLNNNTVLSK	P07814 SYEP 424_435
2199	VLDVLSDYDASY	O60313 OPA1 271_282
2200	GLFSGDPNWFPK	P37802 TAGL2 142_153
2201	GTEFPNPLISKY	Q3T8J9 GON4L 843_854
2202	SPRITFPGLHEL	P06239 LCK 194_205
2203	VSDILHSIFSSY	O00410 IPO5 842_853
2204	TVEETGGDSWKY	Q9UI26 IPO11 392_403
2205	LVDIVKGTONSYY	P09874 PARP1 559_570
2206	RRLNEAAVTCSR	O95273 CCDB1 54_65
2207	SPRELLSNSEQL	O14879 IFIT3 478_489
2208	SPRGINAIFERL	Q9HCG8 CWC22 308_319
2209	NPRFQEADSPTL	P26010 ITB7 787_798
2210	VPRPLQPEYVAL	O94806 KPCD3 224_235
2211	RPKTVRDTLLAL	Q7Z5L9 I2BP2 301_312
2212	FTEAGLKELSEY	Q7L1Q6 BZW1 233_244
2213	RPRPPPVEQVTL	Q14296 FASTK 128_139
2214	SLPIKESEIIDF	P15880 RS2 85_96
2215	VLFFDELDIAK	P55072 TERA 573_584
2216	VTDKLFVIDALY	Q8IUX1 T126B 120_131
2217	ASEDATIKVWDY	P43034 LIS1 126_137
2218	FRGDILGKYVD	P61604 CH10 91_102
2219	RFITVGYVDDTL	P03989 B27 45_56; P30479 B41 45_56; P30481 B44 45_56; P30483 B45 45_56; P30485 B47 45_56; P30487 B49 45_56; P30488 B50 45_56; Q04826 B40 45_56
2220	QPRYPVNSVNIL	P17987 TCPA 187_198
2221	RPAGEPYNRKTL	Q9ULL5 PRR12 1113_1124
2222	RPGSDKPWPSL	Q8N5F7 NKAP 106_117
2223	SPRDOPENPFV	P51149 RAB7A 111_122
2224	KRFADEGTVVKR	Q8N806 UBR7 388_399
2225	KRMNPNSPSITY	P84090 ERH 41_52
2226	TTDFPSESSFEY	Q9HAI6 CX021 141_152
2227	QYAKDIGFIKLD	P62273 RS29 45_56
2228	DSEQADIARMLY	Q15326 ZMY11 234_245
2229	YTGYGGLIFNSY	P00403 COX2 110_121
2230	RLKKLAETLGRK	P48059 LIMS1 314_325
2231	YSEVLTDTTRGLY	Q8TB68 PRR7 166_177
2232	FAKLVRPPVQVY	P48047 ATPO 24_35
2233	RRFVNVPPTFGK	P62861 RS30 40_51
2234	ARLDETPFGKMR	Q9UJK0 TSR3 127_138
2235	FSENLQPHISSY	Q8TEX9 IPO4 421_432
2236	APRHFTQTSQL	O75319 DUS11 249_260

2237	VSDKVMIPQDEY	Q15637 SF01 136_147
2238	TTELVNKLDIY	Q92878 RAD50 1113_1124
2239	RPGFGSGRFLKL	Q32P41 TRM5 8_19
2240	ARLELELKTPK	O60306 AQR 181_192
2241	VAYWRQAGLSYI	P56381 ATP5E 2_13; Q5VTU8 AT5EL 2_13
2242	KSRGSNLRVHFK	P18621 RL17 16_27
2243	RPDGEKKAYVRL	P62750 RL23A 129_140
2244	DSDRDDLKLMAY	Q6ZW49 PAXI1 718_729
2245	RVLNTNIDGRRK	P62269 RS18 14_25
2246	LLDENKSLSTYY	O43318 M3K7 574_585
2247	ELEKVLQPQTILY	Q9NWF9 RN216 572_583
2248	ARFKNDRVKALK	P17480 UBF1 502_513
2249	PRPDLEDFFSAV	Q86U06 RBM23 178_189
2250	SPRSYQDFFEAI	P18850 ATF6A 548_559
2251	GRWDEANAEKQR	P22059 OSBP1 727_738
2252	NLDPEIDEKLLY	Q15427 SF3B4 106_117
2253	ESEQFLTELTRL	P37108 SRP14 5_16
2254	RRFSGLERSIVF	Q68D06 SLN13 855_866; Q7Z7L1 SLN11 855_866
2255	RRFLTQPQVVVAR	O43760 SNG2 18_29
2256	SLYTYPQGTWQK	Q15762 CD226 109_120
2257	KLIETGERERLK	Q9NPA8 ENY2 19_30
2258	SPRYVDRVTEFL	Q96JB5 CK5P3 426_437
2259	KRFTPDIPTMLY	Q9NRZ9 HELLS 291_302
2260	YLEHGEYEGLNY	Q14168 MPP2 440_451; Q9NZW5 MPP6 404_415
2261	FTDPNDQSAWFY	Q92696 PGTA 220_231
2262	RRILDSAEFIKF	P78347 GTF2I 927_938
2263	KTDLLEPYNKY	P35579 MYH9 289_300
2264	PRKIEEKDFLL	P63173 RL38 2_13
2265	RRFSDQFPLPLK	Q92973 TNPO1 878_889
2266	KLLEQYKEESKK	Q00839 HNRPU 664_675
2267	RVLDTNDRFLRK	P11586 C1TC 532_543; Q6UB35 C1TM 575_586
2268	YSDITIFEKQEY	Q12882 DPYD 211_222
2269	YGYNQRPPYGYY	Q9BTL3 RAM 107_118
2270	ETERIYSLFNLY	Q14644 RASA3 729_740

## GR-LCL HCD 1D – spliced peptides

#	sequence	origin
1	TPAAPAVVL	O96013 PAK4 277_283_261_262
2	APTVPAAVL	P08F94 PKHD1 1262_1269_1242_1242
3	LPAKAALGL	Q14129 DGCR6 206_208_195_200
4	GPSGLRLAP	Q8IUX8 EGFL6 153_154_161_167
5	LKVPPAPAAL	Q8WXE0 CSKI2 1093_1096_1088_1092; Q92888 ARHG1 762_768_753_754
6	RGVPPAPSL	Q5SNV9 CA167 1242_1243_1225_1231; Q92673 SORL1 1839_1841_1843_1848
7	PSRPSALGI	Q4ZG55 GREB1 321_322_296_302
8	RGVLLGVKG	Q9BVQ7 SPA5L 235_239_244_247
9	KSPLAPAAF	Q8TBE3 FNDC9 97_102_81_83
10	VFLLGAKPG	Q8NC60 NOA1 536_541_532_534
11	VSASLSLKT	Q6ZMT1 STAC2 23_25_37_42
12	AHVGPTVII	Q99706 KI2L4 23_26_5_9
13	PNSPGPLIL	Q9NZP6 NPAP1 459_462_435_439
14	APIPRILGA	A6NNM8 TTL13 660_661_673_679
15	APAVPVVVR	Q6ZMQ8 LMTK1 1191_1198_1176_1176
16	HKGPSLTGI	Q8WXY9 P66B 563_568_558_560
17	LPRSGVLGL	Q9H1C4 UN93B 279_283_303_306
18	PGLPGKAKF	P48751 B3A3 176_180_163_166
19	SLPTKGLSI	O95486 SC24A 775_777_754_759
20	LSGTKPLSL	Q16533 SNPC1 354_357_336_340
21	PGPHVALIL	Q96BM1 ANKR9 113_119_128_129
22	SPARSLSSL	Q96T58 MINT 305_309_323_326
23	RAVPGPAPR	Q9H330 TM245 25_27_17_22
24	APAPRLSPI	Q13118 KLF10 345_348_340_344
25	PQALAPIVI	Q6IPM2 IQCE 663_668_682_684
26	LPAGRLLAL	Q92781 RDH1 24_26_41_46
27	GPELPGFLP	Q8N2S1 LTBP4 523_527_503_506
28	IAPALVSKM	P06733 ENO A 73_80_58_58
29	AHVPALLPL	P05187 PPB1 508_509_515_521; P10696 PPBN 505_506_512_518; P55107 BMP3B 2_6_20_23
30	VPSPPPPLL	O43464 HTRA2 135_140_118_120; Q5TGS1 HES3 154_155_136_142; Q86YP4 P66A 276_278_265_270
31	PLRGPALPL	Q6UY14 ATL4 124_129_111_113
32	GPALPRNPL	A5PLN7 F149A 132_133_139_145
33	ASHLPIALL	P0C7Q5 S35G4 64_65_80_86; P0C7Q6 S35G6 64_65_80_86; Q8N808 S35G3 64_65_80_86
34	QPLTGIPVL	Q75T13 PGAP1 100_100_82_89
35	PRAIPLGTI	Q9BXP2 S12A9 294_294_296_303
36	PKLLGPLSL	Q96LC7 SIG10 446_451_438_440
37	IKPLGPLSL	Q5VYK3 ECM29 391_396_374_376
38	HPLSATVTL	O60330 PCDG C 649_649_653_660; Q9Y5G4 PCDG9 649_649_653_660; Q9Y5G5 PCDG8 649_649_653_660; Q9Y5G6 PCDG7 649_649_653_660; Q9Y5G7 PCDG6 649_649_653_660; Q9Y5G9 PCDG4 649_649_653_660; Q9Y5H0 PCDG3 649_649_653_660; Q9Y5H1 PCDG2 649_649_653_660; Q9Y5H2 PCDGB 650_650_654_661; Q9Y5H3 PCDGA 653_653_657_664; Q9Y5H4 PCDG1 649_649_653_660
39	LAQIPGIDL	Q5THR3 EFCB6 115_119_137_140

40	KPLGITALK	Q63HN8 RN213 4349_4353_4355_4358
41	IPKSPSLSI	Q2NL67 PARP6 180_185_174_176
42	TVLANVTLI	P25391 LAMA1 661_667_670_671
43	SPGQRLLSL	Q8IVE3 PKHH2 202_203_185_191
44	PHLVGPIVL	P21817 RYR1 836_841_860_862
45	VRSPVSTSI	Q9BX51 GGTL1 64_68_82_85
46	PHVVITAVL	P31645 SC6A4 455_457_446_451
47	GVRHLSPAL	Q9C026 TRIM9 98_100_112_117
48	RPGQLPLGL	P08574 CY1 33_39_19_20
49	QPRLPGAVI	Q8NDW8 TT21A 472_477_488_490
50	ASTAIMLVF	Q9BRQ5 ORAI3 247_252_257_259
51	ITAPPTVRV	Q8TAB3 PCD19 563_567_548_551
52	RTAPVLLAL	P06744 G6PI 308_309_316_322
53	PSKLPVDLS	Q9NYF3 FA53C 138_141_124_128
54	KPLKATANL	Q96PP4 TSG13 63_69_48_49
55	GWWRGPALSL	Q9Y5G1 PCDFG 6_11_22_24
56	SPVPSPILF	P59797 SELV 227_234_209_209
57	RPAAFVSPI	Q0D2I5 IFFO1 144_147_130_134
58	IPPPARPPL	Q4G0P3 HYDIN 2609_2613_2624_2627; Q96HA4 CA159 281_282_274_280
59	RAAPPPPPVR	A6NFN3 RFOX3 239_246_223_223; O14511 NRG2
60	KLDGLKCAL	728_729_720_726; Q96B36 AKTS1 19_19_33_40; Q9H0K1 SIK2 809_811_828_833
61	LPKNPLPAL	Q9UFE4 CCD39 128_134_142_143
62	LPAPLLPSR	Q14114 LRP8 937_942_918_920
63	CKRSNPNGF	Q3ZCQ3 F174B 6_12_27_28; Q494U1 PKHN1 204_209_213_215
64	PRSPPLISV	Q7Z7K6 CENPV 216_217_228_234
65	GHNTLVLLV	Q8TC20 CAGE1 188_194_170_171
66	LKPLPGIVE	Q96BI1 S22AI 397_398_404_410
67	ALSLLVPRP	Q8TDF5 NETO1 166_170_181_184
68	LPARSVVLL	Q09013 DMPK 588_592_580_583
69	GLARALQQI	Q9NUQ2 PLCE 42_45_18_22
70	GPRALLFSL	Q6IBS0 TWF2 177_179_188_193
71	PQDSFGLIV	Q14432 PDE3A 114_116_134_139; Q9Y2M0 FAN1 540_543_550_554
72	RALDGLLAFL	Q4G0A6 F188B 220_224_205_208
73	GPLFKSLTL	A4D2P6 GRD2I 1144_1149_1161_1163; O95274 LYPD3 122_125_98_102
74	ISIKGPIYS	A8MTZ0 BBIP1 38_41_59_63
75	AVSSKPLLY	Q86XX4 FRAS1 2138_2144_2159_2160
76	RAIVIGTTF	P0C7N8 OR9G9 145_147_126_131; Q8NH87 OR9G1 145_147_126_131
77	AKPVFFSSV	P15086 CBPB1 152_154_144_149
78	RGVTLPLLI	Q9UET6 TRM7 180_182_172_177
79	RGSSVFSSR	P48065 S6A12 256_261_253_255; P48066 S6A11
80	TEITLTPLP	271_276_265_267; Q9NSD5 S6A13 251_256_248_250; Q9Y345 SC6A5
81	LQARTAIIV	439_444_436_438
82	SPSPDTLRL	Q8IZF4 GP114 38_39_41_47
83	PPPQHVVTI	Q6ZMS7 ZN783 39_43_23_26
84	LRAASLMNI	Q5VST9 OBSCN 5984_5991_5971_5971
		Q2WEN9 CEA16 155_158_147_151
		Q9Y6C5 PTC2 625_627_611_616
		P52948 NUP98 1059_1059_1072_1079

85	RGFGPSLVR	Q5SNT2 TM201_624_625_637_643
86	RGIPGIYGR	Q9NTJ3 SMC4_596_597_612_618
87	SPIGKVFQL	Q9HD67 MYO10_201_203_222_227
88	SLPKPFTLS	B5MCY1 TDR15_719_722_734_738
89	PSIKMITSL	P49736 MCM2_483_485_462_467
90	VQLDLLSGF	Q96D31 CRCM1_107_110_95_99
91	QPLQPPLSI	A9Z1Z3 FR1L4_999_1000_1002_1008
92	DLRPPPVL	Q9BQC3 DPH2_416_421_410_412
93	REPPVPVSI	Q9P2N5 RBM27_531_531_540_547
94	PFLAKFALS	P04035 HMDH_126_127_140_146
95	APELLRILA	Q8TEX9 IPO4_1020_1025_1030_1032
96	IPNIKPLMA	Q9UKF6 CPSF3_193_198_188_190
97	STLPKLNKP	Q6ZMT9 DTHD1_699_702_712_716
98	APLLYGPR	Q7Z5H3 RHG22_172_175_167_171
99	KPKGKISNK	Q5TAX3 TUT4_734_735_727_733
100	SPATLKRP	Q9H9L7 AKIR1_19_20_5_11
101	RAALYLQGL	Q9HBH0 RHOF_166_171_157_159
102	KVFIVPVGF	Q96BZ4 PLD4_409_416_423_423
103	RFFGPSPSL	P08F94 PKHD1_1276_1278_1281_1286
104	LLFSATMKP	Q9UJV9 DDX41_372_378_392_393
105	RPRPPPPPP	A7MCY6 TBKB1_437_437_426_433; P0C7U0 ELFN1_742_744_721_726; P14652 HXB2_65_67_79_84; P27815 PDE4A_315_318_321_325; P48023 TNFL6_39_40_44_50; P78337 PITX1_35_36_18_24; Q14766 LTBP1_110_111_99_105; Q2VWA4 SKOR2_308_310_285_290; Q4KMQ1 TPRN_168_169_156_162; Q6P1L5 F117B_121_121_138_145; Q6TDP4 KLH17_43_45_27_32; Q70EK9 UBP51_143_144_129_135; Q86WN1 FCSD1_668_669_671_677; Q8N144 CXD3_217_219_239_244; Q8N8D1 PDCD7_106_109_89_93; Q8N9Z2 CC71L_127_127_147_154; Q8ND23 LR16B_1060_1062_1080_1085; Q8NEZ4 KMT2C_35_37_14_19; Q8TB24 RIN3_260_261_279_285; Q8WXD9 CSKI1_939_941_945_950; Q96Q04 LMTK3_398_398_417_424; Q9C0B9 ZCHC2_28_29_42_48; Q9C0C7 AMRA1_281_283_270_275; Q9H2G4 TSYL2_45_47_25_30; Q9NQX0 PRDM6_70_72_52_57; Q9NZM4 GSCR1_1373_1373_1347_1354; Q9UEF7 KLOT_9_15_6_7
106	VRSVPIQVL	Q6UW49 SPESP_44_48_37_40
107	KIIAIKDPL	P43004 EAA2_299_305_289_290
108	APIIKRITV	Q6P4R8 NFRKB_1203_1207_1183_1186
109	RPSKPIDSL	Q9UQ35 SRRM2_2700_2702_2680_2685
110	SLNPLLYPV	P0C628 O5AC1_139_140_128_134
111	IPIPILPPR	Q6ZU64 CC108_1307_1311_1315_1318
112	REAGIQFVP	P30038 AL4A1_250_253_259_263
113	LPSLPLETF	Q86SP6 GP149_324_325_340_346
114	KPQVSISIF	Q9H0R1 AP5M1_206_213_186_186
115	LQPPPLQL	Q6ZUT6 CO052_299_305_278_279
116	APWAPLRLP	Q00973 B4GN1_38_42_33_36
117	LPWVKLG AH	Q96PS8 AQP10_95_100_78_80
118	RSNGSVFVR	Q2M1Z3 RHG31_312_313_324_330; Q7L2E3 DHX30_1064_1064_1082_1089
119	RAPVLQQTL	Q8N4C6 NIN_61_61_46_53
120	EKPKLINAL	P13569 CFTR_51_52_67_73
121	RATLALLR	Q9GZT5 WN10A_296_300_288_291

122	NHLAVVLDF	Q96K49 TM87B 347_354_333_333
123	RGIDVAQLR	Q9BSJ8 ESYT1 328_330_318_323
124	HSFIDLPSL	P00156 CYB 16_22_35_36
125	PRGWITVSI	P25929 NPY1R 145_148_124_128
126	ITSAKSLFY	Q8NGI8 O5AN1 229_233_250_253
127	RESSVVLK	P0C7T7 FMAS1 329_331_304_309
128	EKASLLNTR	Q8WXH0 SYNE2 1228_1232_1210_1213
129	RALFAVAQR	Q6PIW4 FIGL1 483_489_508_509
130	KPLPEPLSR	Q969R2 OSBP2 148_151_125_129
131	RLFQSSAVM	P68431 H31 70_71_85_91; Q16695 H31T 70_71_85_91; Q71DI3 H32 70_71_85_91
132	LQRVPSVQL	Q9C091 GRB1L 975_976_961_967
133	INRQALVLL	P41252 SYIC 991_993_968_973
134	TLLPRLTLT	Q6NXT6 TAPT1 128_131_140_144; Q86VP6 CAND1 965_970_958_960; Q9BT04 FUZZY 239_242_234_238
135	KLNITTPKK	Q13621 S12A1 866_869_872_876
136	APEIFIELI	A5YKK6 CNOT1 2346_2349_2326_2330
137	VPYIRALVD	P20908 CO5A1 1799_1799_1780_1787
138	IPKFLTQLS	Q9ULK4 MED23 1227_1232_1223_1225
139	RSANLDVIY	Q15751 HERC1 1032_1036_1052_1055
140	LQPDGRGMQL	P13284 GILT 198_200_182_187
141	AILEKKVTR	P08172 ACM2 391_393_382_387
142	PAKLMVPRF	Q8IVF2 AHNK2 5397_5398_5388_5394
143	LPFLRTSLL	Q6ZT12 UBR3 1651_1655_1657_1660
144	LTIVWTLKS	Q8IZU9 KIRR3 364_368_384_387
145	LSDHISNLY	Q14CX5 TM180 295_300_319_321
146	LRDAVTLLY	Q6ICL7 S35E4 198_199_216_222
147	RSLKCILDK	Q9NQ35 NRIP3 202_207_210_212
148	VTDVYLPRN	Q96QU1 PCD15 707_710_720_724
149	HNNIPLEEI	Q969T7 5NT3B 147_151_163_166
150	PDLFSKLVY	Q8N139 ABCA6 757_761_743_746
151	RAKSIQIIR	Q8NI60 ADCK3 538_541_523_527
152	MLEAFKISF	P59534 T2R39 91_93_112_117
153	IFMYLQGTL	P0C7N1 OR8U8 256_261_253_255; P0C7N5 OR8U9 256_261_253_255; Q8NH10 OR8U1 256_261_253_255; Q8NH85 OR5R1 256_261_253_255
154	TSCENTLRY	Q8N4N8 KIF2B 525_528_532_536
155	SPQPRLILY	Q96A54 ADR1 231_237_224_225
156	PNQLDLLYL	Q13045 FLII 143_146_152_156
157	SRFPEALLR	Q13200 PSMD2 260_264_247_250
158	QRAAVIEFR	Q9NUU7 DD19A 370_376_378_379; Q9UMR2 DD19B 371_377_379_380
159	LVFPFLKMP	Q92616 GCN1L 980_986_992_993
160	KMPLCLLIY	Q12908 NTCP2 150_150_141_148
161	VIERSILKH	P50748 KNTC1 1536_1539_1554_1558
162	QKIQLVLQK	P35398 RORA 447_451_456_459
163	RGLMQEVNR	Q15834 CC85B 42_43_45_51
164	LEYLLIVIQ	Q8TF09 DLRB2 66_66_85_92
165	EGDEIRLIY	Q5VT25 MRCKA 1517_1520_1506_1510
166	RFQSGMLLR	Q96PE3 INP4A 812_813_787_793

167	EFVSLKLLY	Q6ZT07 TBCD9 910_913_927_931; Q9Y5Y6 ST14 112_115_124_128
168	EAHLQWMVV	P46779 RL28 28_28_3_10
169	RLSDVLKKR	Q14669 TRIPC 995_1001_1003_1004; Q92797 SYMPK 545_551_567_568
170	AQEVFVLFY	Q5VTQ0 TT39B 412_416_395_398
171	KLMNKLKIK	Q6YN16 HSDL2 409_412_394_398
172	RPVQKLIIR	Q5W0V3 F16B1 130_136_118_119
173	KIWDLPKDI	Q5S007 LRRK2 1293_1298_1316_1318
174	SARRWLLQV	Q9HCN3 TMM8A 64_66_80_85
175	RTINFIIEK	Q5VXJ0 LIPK 165_165_153_160
176	RGQELFLQR	Q9NRC6 SPTN5 2247_2251_2260_2263
177	ISMKYFLPR	P09884 DPOLA 408_411_388_392
178	RSFLQILQR	Q7Z4H7 HAUS6 173_174_176_182
179	PFQEILEEY	Q8IVF4 DYH10 2743_2743_2759_2766
180	KEIIELLFY	P52735 VAV2 447_454_442_442
181	RLFILIQR	P53680 AP2S1 15_16_4_10
182	FPIEVRHLY	P42229 STA5A 26_32_21_22; P51692 STA5B 26_32_21_22
183	RSIWPLYLR	Q9HCS7 SYF1 157_158_148_154
184	ILSLVTKVA	Q12905 ILF2 74_80_90_91
185	RNCPIIASL	Q96Q83 ALKB3 182_183_201_207
186	LPAAPVLAAL	Q8WTX9 ZDHC1 231_236_246_249
187	AAAPRKAAAL	Q9UH36 SRR1L 14_19_6_9
188	KVGGLVVTL	Q9Y5W8 SNX13 52_52_40_48
189	AVGGPKFITA	Q8IYW2 TTC40 2202_2205_2190_2195
190	PARGPGPSLL	P52333 JAK3 31_37_17_19
191	LCFGVAISGL	Q8TDV5 GP119 41_43_55_61
192	PTAGRVVSSI	Q86SP6 GP149 243_250_237_238
193	GRGCRSLVVG	O60307 MAST3 22_26_32_36
194	PLGPSPLPLL	A6NGW2 STRCL 583_589_576_578; Q7RTU9 STRC 583_589_576_578
195	GGRCLLVSGF	P57737 CORO7 676_676_693_701
196	PRSPLPGSSL	Q8NCE2 MTMRE 537_539_543_549
197	SPRTGPLVAI	Q15334 L2GL1 575_581_554_556
198	VPRVGGLMAL	Q9NTX9 F217B 171_177_158_160
199	PITLCGGLLP	Q5TC82 RC3H1 83_89_63_65
200	PVSGLFPTSL	Q1W209 HESRG 84_89_94_97
201	AKGNAIVSFI	Q9BYK8 HELZ2 760_763_748_753
202	GAVGKLLISY	P15153 RAC2 12_16_19_23; P60763 RAC3 12_16_19_23; P60953 CDC42 12_16_19_23; P63000 RAC1 12_16_19_23
203	AQAHALLLAL	Q5SNV9 CA167 1313_1316_1319_1324
204	LPALVARLPA	Q6UY18 LIGO4 203_208_218_221
205	PLQTPAALT	P10415 BCL2 71_77_95_97
206	SLLGSIKLVT	A2RU48 SMCO3 158_163_147_150
207	RVAGPTVLLI	B5MCY1 TDR15 101_105_90_94
208	SPRASLLPSL	Q6Q759 SPG17 470_473_486_491
209	GAPGFLFGDY	Q92737 RSLAA 11_14_24_29
210	AVAGRLTQL	Q6P2E9 EDC4 1034_1038_1023_1027
211	LGSSGRQILK	Q9H222 ABCG5 85_89_66_70
212	AVYKPLARA	O15533 TPSN 287_291_301_305

213	VQPGVVTPY	Q9BX46 RBM24 128_133_146_149
214	SPVFSKLIGN	Q9NU22 MDN1 120_123_99_104
215	QLSSIGAILY	Q7KZ85 SPT6H 876_881_890_893
216	TRAFSGLLSL	Q7L985 LIGO2 183_183_171_179
217	RGALSFSVSR	Q8N983 RM43 41_43_29_35
218	EPHQLLAAGF	O75529 TAF5L 305_308_282_287
219	LGNSLVAVFY	P51685 CCR8 51_56_39_42
220	PGRLINTQAI	P49366 DHYS 253_254_264_271
221	KGISKVGIRK	Q9BYT9 ANO3 317_317_321_329
222	GVRAELMQAL	Q9Y4A5 TRRAP 896_896_868_876
223	SAEQLDALVF	Q86SX6 GLRX5 41_48_56_57
224	QELVACGVLY	Q9ULL4 PLXB3 127_133_151_153
225	PPEAHLKPAH	Q9Y261 FOXA2 359_366_347_348
226	FRNLGLPIGL	Q8TF66 LRC15 97_101_116_120
227	LPPIVHKGKI	Q8NEG5 ZSWM2 514_520_506_508
228	LVFPFIPAGF	Q8IUR5 TMTC1 390_397_405_406
229	GVATRMFQAK	O43312 MTSS1 585_588_560_565
230	LSDLAYARLS	Q14690 RRP5 399_401_391_397
231	AALYHKALLL	O75385 ULK1 991_993_1007_1013
232	ALRCSALYLI	Q9UN74 PCDA4 720_726_699_701; Q9Y5H6 PCDA8 720_726_699_701
233	AIQSTLSQIY	Q6ZQN5 FOXI2 114_117_124_129
234	LQKQQKLAGL	Q86UP3 ZFHX4 3281_3286_3258_3261
235	EAAPGILKFW	Q9NRW4 DUS22 152_152_170_178
236	RGVGDVYIPR	Q01130 SRSF2 55_56_40_47; Q9BRL6 SRSF8 55_56_40_47
237	LPKFSLKVS	P42695 CNDD3 227_233_247_249
238	SPQELQKVNP	Q9UH62 ARMX3 119_126_111_112
239	KEAAQILLQK	Q9C0D5 TANC1 1306_1310_1287_1291
240	PIKIPLLRPP	Q08378 GOGA3 1397_1401_1413_1417
241	IPLKPLIPPR	Q8N323 NXPE1 61_66_84_87
242	LKPLPLLRRPP	Q969R2 OSBP2 147_155_139_139
243	SISGRKFLLT	Q7Z401 MYCPP 336_339_326_331
244	LIQHGHLVIK	Q9UHD9 UBQL2 87_91_99_103
245	KILSKLNNEKS	O94874 UFL1 610_614_630_634
246	MLFSKSHITP	P51587 BRCA2 1090_1094_1084_1088
247	LPHGGHILYR	Q8NA66 CNBD1 144_145_119_126
248	LIQPQPKIMI	A6NJZ7 RIM3C 1549_1553_1571_1575
249	MPHCYLLAGY	Q6P1A2 MBOA5 143_146_124_129
250	KIYFILDGS	O60602 TLR5 106_109_99_104
251	SPANTRYLLF	P16298 PP2BB 116_123_110_111; Q08209 PP2BA 107_114_101_102
252	FDRTAILNSF	O75140 DEPD5 326_329_309_314
253	VYFADKAKKD	P27824 CALX 69_73_87_91
254	MTCGPHRLYL	O60938 KERA 341_343_319_325
255	RPPPRQRGLN	Q9HBL0 TENS1 661_665_644_648
256	TVIHQLEDLE	Q49AR2 CE022 322_323_301_308
257	RRIQTPGLR	Q8WXI7 MUC16 7821_7825_7832_7836
258	RIQDIIAKKL	Q8WWZ4 ABCAA 510_510_520_528
259	NIDVATWVQR	Q16512 PKN1 509_516_503_504

260	GCRDDIFYIL	Q8TCB0 IFI44 254_254_263_271
261	RLVEIAQDFK	P68431 H31 70_72_74_80; P84243 H33 70_72_74_80; Q71DI3 H32 70_72_74_80
262	FLDPTFHFTI	Q6ZWL3 CP4V2 162_164_152_158
263	RGRLEVDLKR	Q8IZF0 NALCN 1498_1505_1480_1481
264	YLDPVQRDLY	Q8NA42 ZN383 39_39_23_31
265	LGPRTALTAL	O75022 LIRB3 15_19_4_8; Q6PI73 LIRA6 15_19_4_8
266	RSIGAMILQR	O00471 EXOC5 377_380_362_367
267	RSLAAGAACAR	Q16775 GLO2 11_15_17_22
268	KPPGPGPGPTF	Q92968 PEX13 10_11_22_30
269	LGGPAFRSLLG	Q8IVL5 P3H2 128_132_110_115
270	SAPSVSLYSAL	Q9BV73 CP250 1209_1213_1184_1189
271	SRVGTLAVLAL	Q14154 DELE 75_77_89_96
272	AASKERTAAASL	Q9UMR7 CLC4A 27_34_48_50
273	LGPRTALTALL	O75022 LIRB3 15_19_4_9; Q6PI73 LIRA6 15_19_4_9
274	RCSLVGLPLGL	Q16538 GP162 559_562_548_554
275	IMVGGHLLIAL	Q8TD07 N2DL4 26_31_20_24
276	RGFLGKGFAK	P53350 PLK1 55_56_58_66
277	PLRAPGPLPLL	O75474 FRAT2 70_77_92_94; Q92837 FRAT1 70_77_92_94
278	GPRWADAVSVL	Q9BW91 NUDT9 107_112_101_105
279	TPSKARNQCLG	Q14680 MELK 466_475_488_488
280	GKAIQFLTDGK	Q96P44 COLA1 117_122_142_146
281	SASHILLAKLK	Q7Z5H4 VN1R5 160_165_153_157
282	PTLQSAMSALY	Q7L7X3 TAOK1 243_247_230_235; Q9H2K8 TAOK3 239_243_226_231
283	PLNLATGIINR	Q6EMB2 TTLL5 1047_1047_1061_1070
284	KLANDVTIALK	P38935 SMBP2 138_144_153_156
285	VSTADRSVLLK	Q96AQ7 CIDECA 47_54_67_69
286	LSPMGGRYLLS	Q86UU1 PHLB1 222_225_228_234
287	GRPCIDLIDSL	P20591 MX1 34_34_50_59; P20592 MX2 84_84_98_107
288	RGRRLPGDGLLR	Q2M2W7 CQ058 60_63_65_71
289	AAYEQRVVAAGR	Q8NBF1 GLIS1 204_208_189_194
290	VRSACSFLLVK	Q5VU43 MYOME 2208_2214_2199_2202
291	FANGPDTLLY	P51812 KS6A3 618_625_607_609; Q15349 KS6A2 611_618_600_602
292	PDTSRIVVALV	Q9UBK9 UXT 84_93_71_71
293	GTLDYILQRCG	Q9C0B1 FTO 329_338_312_312
294	PSWDQVLPVLS	Q96PZ7 CSMD1 1613_1620_1637_1639
295	QERIAATVELL	P28715 ERCC5 757_764_774_776
296	DPTFSIPQLVK	P12318 FCG2A 169_176_151_153
297	PDASKLQFILL	O75935 DCTN3 79_87_100_101
298	RNFSTPEQAAK	P14866 HNRPL 481_482_485_493
299	RLIDFLECGKG	P17844 DDX5 227_235_207_208
300	PQGGLLDIYLY	Q5T011 SZT2 2269_2273_2276_2281
301	WDVSKASQILN	O75631 UPK3A 144_144_121_130
302	RDSTDIVNLK	Q587J7 TDR12 141_147_162_165
303	NVRFVAKSLQK	P30153 2AAA 535_538_540_546; P30154 2AAB 547_550_552_558
304	RRIQDAGLLPR	O75962 TRIO 2186_2188_2175_2182
305	GRFEVGKKISW	Q9Y385 UB2J1 82_90_105_106
306	EVAGLKKQFYK	Q99961 SH3G1 19_19_3_12

307	RTLMPEKLSKH	Q9Y2R9 RT07 198_206_195_196
308	AVGVAVAILGLI	Q9UKJ1 PILRA 197_203_211_215
309	LPACGLLAGLPP	Q96ES6 MFSD3 97_99_81_89
310	PSLIAGALLALS	P02812 PRB2 29_34_9_14; P04280 PRP1 29_34_9_14
311	QTALAHEPGPGG	Q674R7 ATG9B 591_596_603_608
312	VVAGDAVTLKLT	Q96ID5 IGS21 36_45_26_27
313	SPDSGGAQSKKE	Q0VF96 CGNL1 514_518_488_494
314	AKAFLVLLDPVG	P98168 ZXDA 117_119_89_97
315	PLSSDAILSLEV	Q6GQQ9 OTU7B 435_440_415_420
316	GRLYLGTGVAQK	Q9UFF9 CNOT8 257_260_262_269
317	PLLPAHVPLIP	Q9NSE4 SYIM 375_382_367_370
318	VTTPEEIQVATI	P10809 CH60 162_168_170_174
319	RTAVCTSCVPNR	Q9NRC8 SIR7 180_182_194_202
320	NMGERITGGFLL	Q9H1Q7 PED1A 181_182_187_196
321	AIGFFQTIVIQAI	Q969E2 SCAM4 137_142_119_124
322	SPALNKMFCQLG	P04637 P53 127_136_111_112
323	RAPPTIINAENL	Q5JSZ5 PRC2B 346_348_350_358
324	FLVRASESISSK	Q92835 SHIP1 28_37_13_14
325	EPRKQAQALAVL	Q96BY6 DOC10 1194_1200_1175_1179
326	PSVVMPAWVIDK	Q8WWV3 RT4I1 28_30_42_50
327	RLIEVTETICKG	Q9BT09 CNPY3 95_104_124_125
328	IQSFPPLDSEIQ	P34910 EVI2B 392_400_420_422
329	RVYSPPEWGRSA	P11309 PIM1 296_303_311_314; Q86V86 PIM3 208_215_223_226
330	KAGTFFQWLTLP	Q13822 ENPP2 270_275_291_296
331	RYVSSVSFGTYR	Q6Q0C1 S2547 85_86_66_75
332	RVYSSHCLTKVE	Q9HCH0 NCK5L 746_751_767_772
333	PDDNLELKKLVY	P63010 AP2B1 52_53_61_70; Q10567 AP1B1 52_53_61_70

## GR-LCL HCD 1D – non-spliced peptides

#	sequence	origin
1	APKPGGLSL	Q8NCH0 CHSTE 87_95
2	APAAPAPRL	Q92585 MAML1 84_92
3	APIAKVGVL	Q9UHB6 LIMA1 496_504
4	SPKSPTAAL	Q53EZ4 CEP55 425_433
5	VIFTGGVGK	Q9Y6K0 CEPT1 268_276
6	TVAVPLVGK	Q9BUN8 DERL1 22_30
7	GVSAATFLK	B5ME19 EIFCL 190_198; Q99613 EIF3C 190_198
8	APAPAAQRL	Q99504 EYA3 246_254
9	SPALPGLKL	O14836 TR13B 147_155
10	SPASPKISL	Q8WWM7 ATX2L 493_501
11	ALKTGIVAK	Q9BQ61 CS043 126_134
12	SPSLSGLKL	P49643 PRI2 170_178
13	IVAGSLITK	O75400 PR40A 225_233
14	AVAIKAMAK	P63241 IF5A1 146_154; Q6IS14 IF5AL 146_154
15	KPVIPAAVL	P15036 ETS2 346_354
16	RPSGPGPEL	P51531 SMCA2 261_269
17	GPAPRVLSL	P49750 YLPM1 1668_1676
18	APASRLLAL	Q96S16 JMJD8 72_80
19	IIA IPTGVK	P00395 COX1 311_319
20	RPSGPSKAL	P48444 COPD 218_226
21	KSLSLSPGK	P01857 IGHG1 322_330; P01859 IGHG2 318_326; P01860 IGHG3 369_377
22	SLGVAALYK	P09669 COX6C 30_38
23	LPAGVRVPL	Q9H6R4 NOL6 133_141
24	SPRPVALAL	Q8N201 INT1 1372_1380
25	APLPDGRSL	Q15648 MED1 380_388
26	RPNVGITGL	Q96QD9 UIF 97_105
27	SPKLPVSSL	Q99856 ARI3A 372_380
28	QLAIPVSSL	P15260 INGR1 201_209
29	IPLLGKSSL	Q9NYP3 DONS 544_552
30	SPRLPVGGF	Q14669 TRIPC 1921_1929
31	GPSVLRSTL	O75376 NCOR1 1455_1463
32	AARVVLTSL	Q16690 DUS5 104_112
33	GRVVALLGF	Q16611 BAK 126_134
34	RPAPPRAPA	Q53GL7 PAR10 81_89
35	KPKAPPPSL	Q9NZZ3 CHMP5 9_17
36	APRLPITGL	Q8TF50 ZN526 559_567
37	ISFGAFVAK	Q07820 MCL1 268_276
38	LPALRAVIS	Q8IUC8 GLT13 43_51
39	AVALPLQTK	O43660 PLRG1 127_135
40	SPSLPNITL	P56524 HDAC4 348_356; Q9UKV0 HDAC9 324_332
41	GRIGQAIAR	Q9UBQ7 GRHPR 162_170
42	SPLTKSISL	Q12802 AKP13 1683_1691
43	SISNLNVSL	P35968 VGFR2 153_161
44	GPAPVGRFF	Q8TDP1 RNH2C 40_48

45	ILGPMFSGK	P04183 KITH 24_32
46	APSPVIPRL	Q5VWG9 TAF3 753_761
47	APRVPVQAL	O75179 ANR17 744_752
48	ASELKALGY	Q12996 CSTF3 538_546
49	CPRPGVVLL	O00626 CCL22 60_68
50	APSRALLL	P16860 ANFB 6_14
51	IAIGKVLKL	P15170 ERF3A 486_494; Q8IYD1 ERF3B 615_623
52	MPSPVSPKL	Q9UHB7 AFF4 1053_1061
53	IPAKPPVSF	Q6PKC3 TXD11 92_100
54	GRVNVVEAL	Q8IVB5 LIX1L 96_104
55	GRLGLVTSR	Q7Z3U7 MON2 593_601
56	AVRLITSSL	O76031 CLPX 13_21
57	VNVVPTFGK	P62861 RS30 43_51
58	LPRLPVPAV	P50416 CPT1A 171_179
59	LPRPVPLVA	Q9H1C4 UN93B 399_407
60	SPRPAPLLL	Q9UHK6 AMACR 324_332
61	GRYGGGETKV	Q16629 SRSF7 5_13
62	FPVLPGSHL	Q07864 DPOE1 2087_2095
63	IPIILQSAL	P61619 S61A1 289_297; Q9H9S3 S61A2 289_297
64	RPKLSSPAL	Q09472 EP300 15_23
65	LTGPVMPVR	P26373 RL13 150_158
66	LPRALLSSL	Q96RQ9 OXLA 269_277
67	SLLSVLIPK	Q9P0S3 ORML1 130_138
68	APKRPPSAF	B2RPK0 HGB1A 94_102; P09429 HMGB1 94_102; P26583 HMGB2 94_102
69	NPRLIASSL	Q14C86 GAPD1 106_114
70	GRVGVITNR	P22090 RS4Y1 190_198; Q8TD47 RS4Y2 190_198
71	FPNIPGKSL	O15121 DEGS1 265_273
72	RPPPNSVI	Q14186 TFDP1 249_257
73	ARNALTALF	Q9ULV3 CIZ1 852_860
74	LPKQPPLAL	Q96S59 RANB9 691_699
75	SPAFSTRVL	Q7KZF4 SND1 781_789
76	GLFALPFGR	Q14669 TRIPC 1675_1683
77	AAYLRALSL	O15294 OGT1 246_254
78	ARIALLPLL	Q9P0J0 NDUAD 67_75
79	YAANPGQLF	Q9BRJ7 SDOS 33_41
80	KPASFMTSI	P53396 ACLY 836_844
81	GRFFLSSGL	Q9BTW4 TMM43 188_196
82	FPAPILRDV	Q7L513 FCRLA 169_177
83	RPLQSSALL	Q16254 E2F4 297_305
84	GPRALTEEL	Q63HN8 RN213 3238_3246
85	APASPFRQL	Q07021 C1QBP 23_31
86	APKSQIVML	Q8TCS8 PNPT1 221_229
87	SPSFPRPSL	Q92610 ZN592 1052_1060
88	LVRDVVSSL	Q9NQ55 SSF1 117_125
89	SPRLMSNAL	Q9NZJ7 MTCH1 153_161
90	RPKEGTSTL	Q9Y5W9 SNX11 236_244
91	SPAFRILSV	Q9NXH9 TRM1 517_525

92	KLADFGLAR	O94921 CDK14 271_279; P06493 CDK1 143_151; P11802 CDK4 155_163; P24941 CDK2 142_150; P50750 CDK9 164_172; Q00526 CDK3 142_150; Q00534 CDK6 160_168; Q00535 CDK5 141_149; Q00536 CDK16 301_309; Q00537 CDK17 328_336; Q07002 CDK18 278_286; Q14004 CDK13 852_860; Q96Q40 CDK15 239_247; Q9NYV4 CDK12 874_882
93	KPTHVVVTL	Q14690 RRP5 1047_1055
94	RVYGGLTTK	Q8WUM4 PDC6I 606_614
95	LSDLGKLSY	Q9H7Z6 KAT8 353_361
96	APELLRALL	Q00653 NFKB2 574_582
97	VPRAILVDL	P07437 TBB5 60_68; Q13509 TBB3 60_68; Q13885 TBB2A 60_68; Q9BVA1 TBB2B 60_68
98	APNLKILNL	Q9UBU9 NXF1 290_298
99	QVRLPLGTL	O43148 MCES 448_456
100	SPRDPPVLT	Q86XL3 ANKL2 512_520
101	ARLAALVQR	Q15834 CC85B 34_42
102	ARVTKVLGR	P62857 RS28 12_20
103	YPSLPTPLL	A8CG34 P121C 175_183; Q96HA1 P121A 198_206
104	KPKPHTPSL	O15265 ATX7 444_452
105	SPNGHRPQL	Q5SNT6 FA21B 987_995; Q5SRD0 FA21D 42_50; Q641Q2 FA21A 1075_1083; Q9Y4E1 FA21C 1052_1060
106	GRLTVMTDL	Q12907 LMAN2 222_230
107	IASDIVSRF	Q96N67 DOCK7 1052_1060
108	ALFLTLTTK	P00403 COX2 41_49
109	LPAPSWRAL	O94898 LRIG2 61_69
110	SRANSLFAF	P61009 SPCS3 6_14
111	RPYQPLGAL	Q9Y5Y2 NUBP2 149_157
112	QRIGPLAFL	Q8NFZ0 FBX18 1005_1013
113	MPAAKKQKL	O75530 EED 15_23
114	PTAVVPLRY	Q9UIQ6 LCAP 169_177
115	RPLFTLVGL	Q96EK9 KTI12 227_235
116	SVAKTILKR	Q7L9L4 MOB1B 146_154; Q9H8S9 MOB1A 146_154
117	NPRALSFVL	P00973 OAS1 128_136
118	RPQTGLSFL	P43686 PRS6B 22_30
119	LPHLPSLEI	Q9H0D6 XRN2 347_355
120	ITQGTPLKY	Q9Y618 NCOR2 1459_1467
121	KPFLLGTVF	Q5SR56 HIAL1 110_118; Q5VZR4 HIAL2 110_118
122	HPNSNLLDL	P63010 AP2B1 191_199
123	RPNPITVIL	P35555 FBN1 1596_1604
124	AVLTKQLLH	Q14094 CCNI 179_187
125	FPKGFSVEL	Q9Y546 LRC42 47_55
126	AMLDTVVFK	O00487 PSDE 302_310
127	VSPPIGYK	Q8TCA0 LRC20 35_43
128	GRIVTIFAF	Q16548 B2LA1 87_95
129	GIADFVLKY	Q96EX2 RNF2 264_272
130	KPVKPHSSF	Q9Y520 PRC2C 1297_1305
131	RPDGFLVL	Q86V86 PIM3 115_123
132	KPWTALDSL	Q9Y6G9 DC1L1 154_162
133	GLTDVILYH	O60506 HNRPQ 269_277
134	KPINFSVIL	Q9Y3T9 NOC2L 498_506

135	HIHKSLIGK	P0C0S5 H2AZ 113_121; Q71UI9 H2AV 113_121
136	LPRPPPPEM	Q00325 MPCP 342_350
137	HPVQPWASL	Q8NDX1 PSD4 386_394
138	GRNFWVSGL	Q15424 SAFB1 405_413
139	TPFPFRTGL	Q499Y3 YJ016 90_98; Q9H8K7 CJ088 255_263
140	RPHTVLTVI	Q12788 TBL3 678_686
141	LPKQPLML	Q6VN20 RBP10 582_590
142	IPRLIVSQL	Q9BXW9 FACD2 172_180
143	SPFFERSGL	O60711 LPXN 188_196
144	RPKKPGQSF	O15042 SR140 863_871
145	KPIEQLLG	Q96DE5 APC16 97_105
146	NRLPLVVSF	Q9UHA4 LTOR3 84_92
147	KLYPLPSAR	Q8TBM8 DJB14 36_44
148	SPSRILLF	Q8NCF5 NF2IP 300_308
149	FSDPNFLAH	P16885 PLCG2 1142_1150
150	SRNALLFNL	Q8WTW4 NPRL2 77_85
151	LASPIYTHF	Q9Y2L1 RRP44 767_775
152	SPRLSQTF	Q92608 DOCK2 1780_1788
153	GRDTFIALR	P35573 GDE 1100_1108
154	RPAFLANLF	Q9BQG0 MBB1A 130_138
155	LPHNRLVSL	Q96CX6 LRC58 51_59
156	YADPVNAHY	O95758 PTBP3 226_234
157	VVSEKQFSK	Q6P5R6 RL22L 66_74
158	SRNLFVLGF	Q9UGH3 S23A2 514_522; Q9UHI7 S23A1 455_463
159	ARVPKKILK	O43924 PDE6D 47_55
160	GRIQIALKR	Q6BDS2 URFB1 214_222
161	GRFSEPHAR	P17612 KAPCA 137_145; P22694 KAPCB 137_145
162	RQTGIVLNR	Q13435 SF3B2 59_67
163	RLPSSTLKR	Q86Y91 KI18B 813_821
164	SRLKSILKL	Q9BRT6 LLPH 27_35
165	STDHIPILY	Q06210 GFPT1 218_226
166	APFLRNVEL	A5YKK6 CNOT1 2076_2084
167	RPDSFVLIL	P11309 PIM1 203_211
168	QIASFILLR	Q9NUV9 GIMA4 316_324
169	QLYSTILSH	Q9Y4H4 GPSM3 106_114
170	SRVPLFPVF	Q9H6F2 TM38A 17_25
171	KRFSGTVRL	P62906 RL10A 47_55
172	NRLTFIPGF	Q96RT1 LAP2 217_225
173	KLYDIDVAK	P62750 RL23A 115_123
174	RAFPLPMSE	Q9UHJ6 SHPK 446_454
175	RPVPWNALL	Q05923 DUS2 47_55
176	KLFNGTFLK	P86790 CCZ1B 146_154; P86791 CCZ1 146_154
177	RRLNSPIGR	P30876 RPB2 483_491
178	RSYVTTSTR	P08670 VIME 28_36
179	RPSPMQLEL	O00764 PDXK 283_291
180	RRKSALALR	Q9Y2D5 AKAP2 836_844
181	SRGDFVVEY	Q9NQR1 SETD8 278_286

182	RTNWPNTGK	Q6NUQ1 RINT1 784_792
183	KLLAHPLQR	Q9NWV8 BABA1 297_305
184	TIFGKIIRK	P49773 HINT1 17_25
185	KTDLHNEGY	Q14699 RFTN1 114_122
186	FPPWPAKAL	Q9ULU4 PKCB1 288_296
187	LLHLPLSQR	Q8IY21 DDX60 319_327
188	GTLDYILQR	Q9C0B1 FTO 329_337
189	GTDELRLLY	Q9Y4W2 LAS1L 107_115
190	LSDIVIEKY	A2RRH5 WDR27 15_23
191	LIAPIFLHR	Q15022 SUZ12 105_113
192	KPFPFFEGL	Q9HB58 SP110 29_37
193	VILIDPFHK	P61313 RL15 132_140
194	ESDINSVRY	O14775 GBB5 281_289
195	YILSPLSYK	Q8WUT9 S2543 300_308
196	RVMKALVNR	Q08945 SSRP1 316_324
197	KPSSWLRTL	P12755 SKI 351_359
198	SRFPEALRL	Q13200 PSMD2 260_268
199	RRLGVYPTK	Q96MG7 MAGG1 203_211
200	IPDHFRPPL	Q9HAH7 FBRS 72_80
201	KRMSGMIRL	Q53GS7 GLE1 568_576
202	KLLQKLLVH	Q9UJX4 APC5 562_570
203	RPFEDQTSL	Q9H7B2 RPF2 70_78
204	ATDFKFAMY	P30279 CCND2 189_197
205	RLKEAYSVK	Q6P2Q9 PRP8 845_853
206	ETELDGLRY	P46952 3HAO 110_118
207	ILYDHAHVK	P11926 DCOR 329_337
208	IIDGFMTHY	Q9BZW5 TM6S1 87_95
209	VTDSIRDEY	O00429 DNM1L 258_266
210	KLGEFFQTK	Q15029 U5S1 713_721
211	QRFPLSFGF	Q92611 EDEM1 35_43
212	RLAEVIKNR	O94966 UBP19 729_737
213	LSDFGLERY	Q8IX90 SKA3 158_166
214	KTWNAVLLR	Q14376 GALE 176_184
215	IRFFGTTNF	Q8N3C7 CLIP4 501_509
216	KVSDYILQH	O75129 ASTN2 1097_1105
217	NPRIPYTEL	Q92830 KAT2A 656_664
218	RPLSKTVRF	P62280 RS11 132_140
219	KRLVVFDAR	P53803 RPAB4 50_58
220	YAIDNPLHY	A5YKK6 CNOT1 93_101
221	FPSPIRLEF	P28340 DPOD1 786_794
222	KIRTSPTFR	P62750 RL23A 39_47
223	SSDRHLTQY	O14646 CHD1 1545_1553
224	HLSSLQLFY	Q9BWG6 SCNM1 68_76
225	SRFKAIKEM	O14776 TCRG1 758_766
226	RPIKILTRL	P78346 RPP30 69_77
227	QRHGVFLVR	P46108 CRK 30_38
228	MRYVASYLL	P05387 RLA2 1_9

229	RPWTVMESL	O43237 DC1L2 141_149
230	NIRDFLVEI	Q96JI7 SPTCS 767_775
231	ERNVLIFDL	P08107 HSP71 192_200; P11142 HSP7C 192_200; P17066 HSP76 194_202
232	KRASYILRL	Q96Q15 SMG1 2084_2092
233	SRWQQGNVF	P01857 IGHG1 298_306; P01859 IGHG2 294_302
234	RRFTTSVVR	P15954 COX7C 7_15
235	QRTFVLEVM	P08237 K6PF 200_208; P17858 K6PL 200_208; Q01813 K6PP 209_217
236	VLYQPLFDK	P55209 NP1L1 108_116
237	RPVQKLIRL	Q5W0V3 F16B1 130_138
238	LTD DLLRY	Q04446 GLGB 569_577
239	SRFGKFIRI	A7E2Y1 MYH7B 245_253; P11055 MYH3 243_251; P12882 MYH1 245_253; P12883 MYH7 242_250; P13533 MYH6 243_251; P13535 MYH8 245_253; P35579 MYH9 233_241; P35580 MYH10 240_248; P35749 MYH11 240_248; Q7Z406 MYH14 260_268; Q9UKX2 MYH2 245_253; Q9UKX3 MYH13 244_252; Q9Y623 MYH4 245_253
240	SRLPSYFVR	Q7LBC6 KDM3B 1525_1533
241	IRYGQTKKM	P49591 SYSC 408_416
242	SRDDNMFQI	P53999 TCP4 58_66
243	RPADYLFML	Q9BUN8 DERL1 94_102
244	LLDEHHISY	Q69YQ0 CYTSA 469_477
245	KIYNANYLK	Q8WUB2 F216A 119_127
246	KSD EMELLY	Q9H8M2 BRD9 402_410
247	LMDIFGDRY	Q9NUV9 GIMA4 178_186
248	RLYGGMNYR	Q9Y2M5 KLH20 582_590
249	TMC PHILRY	P60228 EIF3E 248_256
250	FRVPFIYGH	Q9NZ01 TECR 107_115
251	FRFEFPVVL	P46531 NOTC1 1823_1831
252	YRVVFPLEL	O75317 UBP12 276_284; P62068 UBP46 272_280
253	LTFPHPVYY	A6NHT5 HMX3 335_343
254	AVYVPFWQK	Q15361 TTF1 809_817
255	KIADRFLLY	P61968 LMO4 29_37
256	RRM YPPPLI	Q96AW1 VOPP1 83_91
257	KLLESIFHR	Q7Z7E8 UB2Q1 46_54
258	KRLKVTEL R	Q1KMD3 HNRL2 4_12
259	FSEIDLEKY	Q86XF0 DYRL1 149_157
260	ASEYDQIRY	Q86Z02 HIPK1 395_403; Q9H2X6 HIPK2 404_412
261	HTDILKEKY	Q8N5C7 DTWD1 262_270
262	TMNEKQLFH	Q460N5 PAR14 1674_1682
263	IIFDRPLLY	Q9UPQ8 DOLK 352_360
264	NRPEFITEF	Q8WXH0 SYNE2 5666_5674
265	QRYPNPYSK	Q9Y255 PRLD1 24_32
266	RTIFPLFMK	Q8WYA6 CTBL1 380_388
267	SIWDETLYK	Q5VZM2 RRAGB 224_232; Q7L523 RRAGA 163_171
268	FGFH KPKMY	Q9NP50 FA60A 2_10
269	RVYNNTARY	P23921 RIR1 277_285
270	SRIEKQLKR	P33992 MCM5 673_681
271	NRL LKLFTR	O60216 RAD21 383_391
272	IVYEKIMEH	O75643 U520 707_715

273	ARILIQERY	Q15459 SF3A1 306_314
274	RVFPWFSVK	Q03164 KMT2A 1764_1772
275	RRLDLPIER	P17812 PYRG1 268_276
276	VLYDRVVLKY	Q9UHB9 SRP68 484_492
277	GRHIQQYHMH	Q13438 OS9 125_133
278	LLYESPERY	Q03518 TAP1 744_752
279	ETEKMIEKY	P11277 SPTB1 299_307; Q01082 SPTB2 299_307
280	NRIKFVIKR	P78347 GTF2I 532_540
281	ETEKDFSRY	O60306 AQR 887_895
282	ERLQYVFGY	Q96MG7 MAGG1 132_140
283	ARYPKKIHY	Q9Y6J0 CABIN 1242_1250
284	KRWEGGYER	Q13888 TF2H2 9_17; Q6P1K8 T2H2L 9_17
285	FPMELRQFL	P40763 STAT3 26_34
286	FSEEQLNRY	Q15544 TAF11 113_121
287	SRWEKVVQR	Q03001 DYST 6683_6691; Q9UPN3 MACF1 6530_6538
288	LTDFFDIRFY	P19784 CSK22 129_137
289	KTDYDTREY	Q7Z6E9 RBBP6 1474_1482
290	ARHFYIKKK	Q5K651 SAMD9 1089_1097
291	RVYSPYNHR	Q9NS56 TOPRS 582_590
292	FPNTNRWFL	P26641 EF1G 184_192
293	FPHEPWLR	Q9BRB3 PIGQ 88_96
294	KVYNIQIRY	Q13094 LCP2 468_476
295	SRIWPLYL	Q9HCS7 SYF1 146_154
296	LTDYDIRFY	P68400 CSK21 128_136; Q8NEV1 CSK23 128_136
297	VYRTVIEYY	P61599 NAA20 130_138
298	RQYDKFLTH	Q7Z6M2 FBX33 416_424
299	KRFEKVYTH	Q96EK5 KBP 201_209
300	QLYWSHPRK	P62273 RS29 5_13
301	RLF EWVVNR	B0I1T2 MYO1G 362_370
302	DTDHYFLRY	Q969N2 PIGT 165_173
303	RLYEFIVRH	Q13472 TOP3A 432_440
304	KMYEEHLKR	P84090 ERH 34_42
305	RIFQKFLQR	Q12965 MYO1E 627_635
306	RMDNIYFEY	P20585 MSH3 457_465
307	ERLEKFFHR	P86790 CCZ1B 166_174; P86791 CCZ1 166_174
308	YIDEQFERY	Q15019 SEPT2 121_129
309	ATVAVPLVGK	Q9BUN8 DERL1 21_30
310	SPPSIAPLAL	P41214 EIF2D 184_193
311	RPVAPSGTAL	P35658 NU214 1294_1303
312	VLIGDGAGFK	P11310 ACADM 262_271
313	APSSPRPALP	P05362 ICAM1 2_11
314	SRLPSLGAGF	Q8IZL8 PELP1 241_250
315	APAPPPEEV	Q8IVF7 FMNL3 507_516
316	GRGPLASVK	O15042 SR140 295_304
317	GRVALADIAF	Q9Y2X0 MED16 211_220
318	APHALLQAVL	P49327 FAS 762_771
319	KVGEFSGANK	P10599 THIO 85_94

320	GCSSPIVVKF	O95319 CELF2 200_209
321	NRFAGFGIGL	Q96AG3 S2546 98_107
322	IIWLPTGAGK	Q96C10 DHX58 21_30
323	LPSPSPRISL	Q8TBC3 SHKB1 620_629
324	TPAAVRELVL	Q92688 AN32B 15_24
325	GLEEKIATPK	Q9Y2Q3 GSTK1 154_163
326	LPSATRALEL	P18583 SON 575_584
327	KMAEVIGSKL	Q9NU22 MDN1 592_601
328	KVKAPPSPVPR	Q8WV28 BLNK 40_49
329	APRHPSTNSL	Q9P032 NDUF4 30_39
330	IPRPVDGVEV	P26368 U2AF2 417_426
331	SPSPVRLVL	O43432 IF4G3 230_239
332	KVNIVPVIAK	Q15019 SEPT2 174_183
333	KPRVPPATAF	Q99707 METH 342_351
334	RPSLNIATVL	Q9NPD8 UBE2T 99_108
335	RVLNKLGGVK	O00244 ATOX1 21_30
336	TLLPMPLSGR	Q8IV32 CCD71 115_124
337	KITVPASQKL	Q8WV28 BLNK 6_15
338	RVKGPGISKF	P49961 ENTP1 85_94
339	MRLPSGKVGF	Q9Y285 SYFA 95_104
340	APSDNRVTSF	Q9UNZ2 NSF1C 66_75
341	AAMLDTVVFK	O00487 PSDE 301_310
342	APRALLQDV	Q8NCH0 CHSTE 343_352
343	ALKNPPINTK	O15511 ARPC5 58_67
344	APSQQRLVVV	Q9H6Q4 NARFL 105_114
345	GPRPITQSEL	Q96S82 UBL7 263_272
346	WPKDVGIVAL	Q01581 HMCS1 13_22
347	KSNSIIVSPR	P07992 ERCC1 97_106
348	IIFVGTPVQK	P46013 KI67 1310_1319
349	IPAKPPVSFF	Q6PKC3 TXD11 92_101
350	VIMNPPFGTK	Q9NRN9 METL5 123_132
351	ISLKQAPLVH	P09496 CLCA 239_248
352	SSDNATLTHY	Q5VWN6 F208B 1661_1670
353	KVNIIPLIAK	Q16181 SEPT7 186_195; Q6ZU15 SEP14 186_195
354	RPWDPAVGVL	Q9P2N6 KANL3 251_260
355	ATGSWDSFLK	P16520 GBB3 328_337; P62873 GBB1 328_337; P62879 GBB2 328_337
356	GLEAIQRTPK	P61769 B2MG 17_26
357	LPSDLRTISL	Q9C0A6 SETD5 1382_1391
358	RPADSMNLNVL	Q9BTL4 IER2 207_216
359	VVLGQFLVLK	O75531 BAF 44_53
360	APFQGDQRSL	Q00978 IRF9 199_208
361	AKDIGFIKLD	P62273 RS29 47_56
362	RTAVPSFLTK	Q96QD9 UIF 252_261
363	ALIKHKPSVK	P40227 TCPZ 421_430
364	RPFPGNMSSM	Q8NFD5 ARI1B 894_903
365	GSYNKVFALAK	P48556 PSMD8 239_248
366	KVCNPPIITKL	P11142 HSP7C 601_610

367	KIKEIAVTVK	Q99832 TCPH 135_144
368	LPRSINTDTL	Q8NHV4 NEDD1 374_383
369	KLIDIVSSQK	O14757 CHK1 461_470
370	QVDPLSALKY	Q9UL63 MKNL1 649_658
371	QIFVKTLTGK	P0CG47 UBB 2_11; P0CG48 UBC 2_11; P62979 RS27A 2_11; P62987 RL40 2_11
372	KTFEGNLTTK	Q6P2Q9 PRP8 1792_1801
373	SPRSTFLLAF	Q9C0C7 AMRA1 52_61
374	SILRNPVTNK	P09661 RU2A 119_128
375	RTLGAIVRQK	P51659 DHB4 251_260
376	RLVQGSILKK	P12004 PCNA 5_14
377	KTKEAVLLLK	P36578 RL4 163_172
378	GQFSGFPFEK	P35659 DEK 128_137
379	KLPLPLPPRL	Q96JZ2 HSH2D 6_15
380	KLPKQPVIVK	P46776 RL27A 116_125
381	KVLDAIIQEK	Q9NTJ3 SMC4 598_607
382	ARWVAKSLVK	P31153 MKT2 298_307; Q00266 MKT1 298_307
383	RARDSLIQSL	Q92878 RAD50 365_374
384	KTLFPLIEAK	P13010 XRCC5 534_543
385	RFFFPLTATL	Q9BVT8 TMUB1 218_227
386	AMFNIRNIGK	P61247 RS3A 37_46
387	KSLDQAISRF	Q96F07 CYFP2 802_811
388	APPEYHRKAV	Q9UBU8 MO4L1 353_362
389	KLDDPSKQK	Q6STE5 SMRD3 189_198; Q92925 SMRD2 237_246
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391	RPQLPAYESL	Q9NU22 MDN1 3317_3326
392	GRWDEANAEK	P22059 OSBP1 727_736
393	IPRSILMTTF	Q16531 DDB1 587_596
394	GRLSGIEERY	Q01082 SPTB2 822_831
395	GRVGFFPRSY	Q13588 GRAP 202_211
396	KLLNYAPLEK	P62875 RPAB5 58_67
397	KRVAVILNEF	Q8IUF1 CBWD2 69_78; Q9BRT8 CBWD1 69_78
398	LLDQGQLNKY	Q00610 CLH1 421_430
399	KLFDAHAVSKF	O60488 ACSL4 81_90
400	SPYFQRPLAL	P32929 CGL 192_201
401	RIPEFNMAAF	Q9Y2Y0 AR2BP 84_93
402	GRYLGKKVQF	P55199 ELL 153_162
403	VLAQYIFTLK	Q9H0P0 5NT3A 30_39
404	KTDDLTMVLY	Q96RL7 VP13A 1399_1408
405	FVYPGNPLRH	Q96EK7 F120B 651_660
406	KAKEPPFVRK	Q9UPT8 ZC3H4 1184_1193
407	LLFPYILPPK	Q9Y5W7 SNX14 250_259
408	RRKDAKSVKI	P63173 RL38 16_25
409	TTDLSFLDKY	A0AVT1 UBA6 145_154
410	RRILMGSTLR	P10644 KAP0 232_241; P31321 KAP1 232_241
411	SPRAPFYRPL	A6NED2 RCCD1 145_154
412	KLNNLVLFDK	P62851 RS25 43_52
413	GRFEGQVRQK	Q00255 MEN1 450_459

414	ALIEELLYK	Q5VT52 RPRD2 192_201
415	KIFNVAIPRF	Q9UK99 FBX3 390_399
416	MLYQTINSLK	Q15782 CH3L2 80_89
417	ATLKWIENK	P78347 GTF2I 168_177; Q6EKJ0 GTD2B 163_172; Q86UP8 GTD2A 163_172
418	RRAEWKATKL	Q9H2J4 PDCL3 78_87
419	ASEAEMRLFY	Q8IY37 DHX37 105_114
420	KVWSDPFGRK	Q8N5G0 SMI20 159_168
421	LLDDAQRLLY	Q6PK81 ZN773 31_40; Q8TAW3 ZN671 65_74; Q96HQ0 ZN419 43_52
422	QLDLAQRTLY	O43296 ZN264 30_39; Q5CZA5 ZN805 29_38; Q6NX49 ZN544 30_39; Q7Z398 ZN550 28_37
423	ARLSLTYERL	Q15904 VAS1 307_316
424	LSEINKPNFY	Q5QJE6 TDIF2 252_261
425	IPQKQREITL	Q9NR30 DDX21 471_480
426	SRSLENNFL	P42224 STAT1 69_78
427	VTEKIFSQK	P25098 ARBK1 53_62
428	FTDVNSILRY	P07814 SYEP 48_57
429	HTRTPPIIHR	Q9BYP7 WNK3 265_274; Q9H4A3 WNK1 339_348; Q9Y3S1 WNK2 313_322
430	ALLPWPFKQK	Q13114 TRAF3 484_493
431	NTDHQTQLLY	Q06609 RAD51 196_205
432	FTDEEGYGRY	Q12874 SF3A3 130_139
433	YTDFDGTRVY	P11309 PIM1 289_298; Q86V86 PIM3 201_210; Q9P1W9 PIM2 194_203
434	TRILFFNTPK	P48556 PSMD8 288_297
435	QSFDEWVAK	P13073 COX41 131_140
436	KRLDINTNTY	Q9H173 SIL1 117_126
437	RPANHRQLTF	Q9UNM6 PSD13 284_293
438	TVYRNPESFK	Q9BW72 HIG2A 27_36
439	GCYILRPWAY	P07814 SYEP 1045_1054
440	ALLPWPFRNK	Q13077 TRAF1 335_344
441	MMDPNSTQRY	Q9HAV4 XPO5 20_29
442	WTDILSHGRY	Q9P2D1 CHD7 1621_1630
443	GRFSQLYPER	P48449 ERG7 717_726
444	RPRPNTFVIR	P31751 AKT2 67_76
445	YVDQAELEKY	Q01581 HMCS1 30_39
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453	RVLDFDVKRK	Q7Z6Z7 HUWE1 3990_3999
454	VTEEPQRLFY	Q96LC9 BMF 88_97
455	RRISGVDRYY	O15239 NDUA1 52_61
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457	RMFAPTKTWR	P36578 RL4 100_109
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459	LTEVDNYHFY	Q16236 NF2L2 220_229

460	RRKDGVLFLYF	P62829 RL23 89_98
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462	RTDLHSTWQY	O43526 KCNQ2 353_362
463	LTDYFLKDEY	Q13107 UBP4 326_335
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465	RLYEHIKNDK	O60337 MARH6 872_881
466	YTETE PYHNY	Q86VM9 ZCH18 392_401
467	RLYQVEYAFK	P60900 PSA6 21_30
468	RRAQLQYVQR	Q9P107 GMIP 214_223
469	YTDLLRLFEY	P62140 PP1B 68_77
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471	RRLFEQNVQR	P61081 UBC12 157_166
472	RQYDKFLTHF	Q7Z6M2 FBX33 416_425
473	KMYEEHLKRM	P84090 ERH 34_43
474	RLYFSQQTYY	P33897 ABCD1 172_181
475	YTEPNYWIRY	Q8IVL5 P3H2 393_402
476	QSLAGGIIGVK	P61978 HNRPK 153_163
477	TPKPSVGSISL	O75376 NCOR1 1078_1088
478	GPRPVLGGSFL	Q9UK96 FBX10 380_390
479	APFEPLASGIL	P01033 TIMP1 2_12
480	KTLPAMLGTGK	Q7Z6A9 BTLA 2_12
481	APRPASGPIRP	P26373 RL13 47_57
482	GLAAQKVISK	P23368 MAOM 290_300
483	SPRPALPALLV	P05362 ICAM1 5_15
484	RPSGLHGDVSL	Q9H6E5 STPAP 374_384
485	VTDGAILGKLY	Q8NEZ4 KMT2C 1500_1510
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492	RLLPGNATISK	Q9BQ52 RNZ2 618_628
493	SPAVERLISSL	Q8N2A8 PLD6 103_113
494	SPQLGRAVQLL	P01374 TNFB 113_123
495	VVFSGKAYSPK	Q8WY98 TM234 16_26
496	ALWGGTQPLLK	Q9UII4 HERC5 810_820
497	SPDLGKNLQTL	P52292 IMA1 338_348
498	AVFPSLLTNPK	B5ME19 EIFCL 634_644; Q99613 EIF3C 633_643
499	LLDIQSSGRAK	Q7Z6I6 RHG30 55_65
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502	VVFVIDPGFAK	Q13077 TRAF1 308_318
503	RLYLNGDGTGK	Q99973 TEP1 1205_1215
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507	RPYAPINANAI	O94776 MTA2 481_491
508	SPNNPFSRVAL	Q9UNY4 TTF2 883_893
509	CPRPGVVLLTF	O00626 CCL22 60_70
510	FSDPFTGGGRY	Q9Y263 PLAP 467_477
511	AVYGMLNLTPK	O43776 SYNC 180_190
512	RPFADLLGTAF	Q6ZS81 WDFY4 740_750
513	RIYGESADAVK	P51114 FXR1 263_273
514	KTDSTGTHSLY	O43166 SI1L1 664_674; O60292 SI1L3 676_686; Q96FS4 SIPA1 386_396; Q9P2F8 SI1L2 660_670
515	GRFTAAELLSF	Q8TCT6 SPPL3 138_148
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517	APRLQSEVAEL	P53990 IST1 107_117
518	LPSWGRAELAL	Q96EP0 RNF31 653_663
519	SPYPGLRLISL	P17405 ASM 370_380
520	RADPEAGLLY	P51530 DNA2 325_335
521	KMKEALLSIGK	Q96C01 F136A 128_138
522	SPMSDVVSREL	Q15051 IQCB1 472_482
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524	SDYPPPLGRFAV	P68104 EF1A1 416_426; Q5VTE0 EF1A3 416_426
525	KLEPVLLLGK	P62249 RS16 50_60
526	GTFVSPEVFLK	Q86Y56 HEAT2 428_438
527	RIYGL GSLALY	P36542 ATPG 67_77
528	RPRPTEATVSL	Q92619 HMHA1 940_950
529	VRMNVVLADALK	P62244 RS15A 2_12
530	SVFGGLVNYFK	O95721 SNP29 114_124
531	AVRTLNUKVAMK	Q9UBF2 COPG2 307_317; Q9Y678 COPG1 307_317
532	KPKTPSLTVFL	P24928 RPB1 1133_1143
533	SLFSPAFYTAK	Q13077 TRAF1 290_300
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535	SRLQETGLLSK	Q9UQL6 HDAC5 716_726
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538	GRLPQGIVREL	P63272 SPT4H 91_101
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544	VLQAADILLYK	Q9UGM6 SYWM 162_172
545	APSDLRTIQTF	Q9BUL5 PHF23 80_90
546	KMQYATGPLLK	P62341 SELT 32_42
547	VVYSGLENIKK	Q9HBL8 NMRL1 109_119
548	RPADPEKNQL	Q9H8H0 NOL11 235_245
549	KVAEITELIHK	Q06265 EXOS9 257_267
550	RLFVGSIPIKNA	O43390 HNRPR 247_257

551	RRTGPPMGSRF	Q15056 IF4H 174_184
552	RPIFKDTQGSL	Q5JSL3 DOC11 532_542
553	ARDLYDAGVKR	P07355 ANXA2 195_205
554	RFVNVVPTFGK	P62861 RS30 41_51
555	YPSVENVRTSL	Q9NUW8 TYDP1 441_451
556	SPMMPRITSVF	Q6AHZ1 Z518A 758_768
557	KLDVDAPRLLK	Q92503 S14L1 60_70
558	QPIDNVSRNLL	Q8N201 INT1 341_351
559	VRIGEEAIVKR	Q9P1Z0 ZBTB4 606_616
560	RINEILSNALK	P52272 HNRPM 371_381
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589	RLLLETHLPSK	O00567 NOP56 77_87
590	AVYQARPQLHK	Q14258 TRI25 55_65
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596	LTELLERAAYF	Q8N697 S15A4 42_52

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606	QRIEHЛИGKKL	Q9H0S4 DDX47 376_386
607	RTL SKDDVNYK	P48651 PTSS1 8_18
608	VRHSLKDILMK	Q92576 PHF3 931_941
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612	RIFANTESYLK	Q09161 NCBP1 194_204
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621	KPQDYKKRLSV	P35222 CTNB1 666_676
622	RVYNTDPLKEK	Q5MNZ6 WIPI3 34_44
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625	ASDKETYELRY	Q6P5R6 RL22L 98_108
626	KTELERAFGYY	P84103 SRSF3 23_33
627	ATEVDSRWQEY	Q9UPN3 MACF1 309_319
628	RRKEVESILKK	Q12983 BNIP3 102_112
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631	ISYGPDWKDFY	P06865 HEXA 425_435

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634	FLYQQQGRLDK	P04233 HG2A 70_80
635	YTDLHLQSYVIY	Q9NV70 EXOC1 759_769
636	RVFQETQKLKK	P82914 RT15 212_222
637	KRFDTEEEFKK	P54136 SYRC 278_288
638	RVVSPPEWIRY	P11309 PIM1 296_306; Q86V86 PIM3 208_218
639	SPRGPGQGSGLH	Q15027 ACAP1 371_382
640	APRKVLGSSTSA	Q15004 PAF15 21_32
641	APRPPATVTNAV	Q9BXSS AP1M1 146_157
642	ATISNDGATILK	Q99832 TCPH 56_67
643	APRIITGPAPVL	Q96PU8 QKI 225_236
644	SPKQILDASAASL	P46013 KI67 1679_1690
645	GLFEVGAGWIGK	P51659 DHB4 235_246
646	RPYAAGGKKLAL	Q9H7U1 CCSE2 292_303
647	TPRLASTNSSVL	Q13428 TCOF 102_113
648	RVFGLVSTGLK	P13639 EF2 415_426
649	FLVGGASLKPEF	P60174 TPIS 267_278
650	RPIVIDGSNVAM	A2A288 ZC12D 90_101; Q9C0D7 ZC12C 246_257
651	SPRLPVGGFRSL	Q14669 TRIPC 1921_1932
652	KVFDPPVPVGVTK	Q08211 DHX9 697_708
653	PSKGPLQSVQVF	P62249 RS16 2_13
654	YTVTSGDPPLLK	Q96T49 PP16B 537_548
655	LPRGLQVGQPQL	Q63HN8 RN213 1821_1832
656	RRMFGGPGTASR	P08670 VIME 12_23
657	RPRPGTGLGRVM	Q9BVK6 TMED9 11_22
658	NPRVLDSSISTL	Q99551 MTERF 348_359
659	SPDGSRLLFTVL	Q9NRG9 AAAS 337_348
660	AIYELAVASF PK	P14406 CX7A2 69_80
661	GTEIDGRSISLY	P19338 NUCL 451_462
662	SVIIVDKNGRLV	P02786 TFR1 199_210
663	VRPPVQVYGI EG	P48047 ATPO 28_39
664	ARGQPLPETLQL	P51531 SMCA2 193_204
665	SPRNPLEPFASL	Q6IE81 JADE1 392_403
666	SPRFVDVQPSSL	Q8WYP5 ELYS 528_539
667	KITTVFSHAQTV	P42677 RS27 42_53; Q71UM5 RS27L 42_53
668	KLDNTVQDAGLY	Q13107 UBP4 197_208
669	APSALRVYVGQYL	Q969Q6 P2R3C 272_283
670	VPMGGMMVRQSF	P28072 PSB6 148_159
671	SPRGGEAQKLLEL	Q96T58 MINT 1857_1868
672	RVLELVTSITANK	P34897 GLYM 398_409
673	RIRDQLSAVASK	Q9P000 COMD9 187_198
674	SPRYLQPGGEQL	Q96N96 SPT13 127_138
675	YVDAVLGKGHQY	Q12769 NU160 1357_1368
676	SRLNLNNNTVLSK	P07814 SYEP 424_435
677	HRYPTSIASLAF	O43684 BUB3 273_284
678	GLFSGDPNWFPK	P37802 TAGL2 142_153

679	ALFPLLPKVLQK	O96006 ZBED1 596_607
680	TVEETGGDSWKY	Q9UI26 IPO11 392_403
681	LVDIVKGNTNSYY	P09874 PARP1 559_570
682	SPRELLSNSEQL	O14879 IFIT3 478_489
683	NPRFQEADSPTL	P26010 ITB7 787_798
684	RPRSSTDALIEM	Q15751 HERC1 149_160
685	LSELSNPEISKY	Q9Y485 DMXL1 783_794
686	KMKEIAEAYLGK	P11142 HSP7C 126_137
687	FTEAGLKELSEY	Q7L1Q6 BZW1 233_244
688	LRWEPSSQSTVP	P01889 1B07 296_307; P03989 1B27 296_307; P18465 1B57 296_307; P30460 1B08 296_307; P30461 1B13 296_307; P30462 1B14 296_307; P30475 1B39 296_307; P30479 1B41 296_307; P30480 1B42 296_307; P30481 1B44 296_307; P30485 1B47 296_307; P30486 1B48 296_307; Q04826 1B40 296_307; Q29836 1B67 296_307; Q31610 1B81 296_307; Q95365 1B38 296_307
689	VTYDLIKDALLK	P55851 UCP2 195_206
690	RQGNFFASPMLK	Q9H0H5 R GAP1 621_632
691	VTDISDLIRDSY	O95759 TBCD8 757_768
692	VTDKLFVIDALY	Q8IUX1 T126B 120_131
693	ASEDATIKVWDY	P43034 LIS1 126_137
694	FRGDILGKYVD	P61604 CH10 91_102
695	RFITVGYVDDTL	P03989 1B27 45_56; P30479 1B41 45_56; P30481 1B44 45_56; P30483 1B45 45_56; P30485 1B47 45_56; P30487 1B49 45_56; P30488 1B50 45_56; Q04826 1B40 45_56
696	NRIDISQLVITK	P28340 DPOD1 874_885
697	HTDAGTGRPYYY	Q6ZUM4 R HG27 255_266
698	SPRD PENFPFVV	P51149 RAB7A 111_122
699	KRFADEGTVVKR	Q8N806 UBR7 388_399
700	DSEQADIARMLY	Q15326 ZMY11 234_245
701	YSEVLTDTTRGLY	Q8TB68 PRR7 166_177
702	FAKLVRPPVQVY	P48047 ATPO 24_35
703	RRFVN VVPTFGK	P62861 RS30 40_51
704	ARLDETPFGKMR	Q9UJK0 TSR3 127_138
705	FSEN LQPHISSY	Q8TEX9 IPO4 421_432
706	SKDNEGSWFRSL	Q9BPW8 NIPS1 36_47
707	VAYWRQAGLSYI	P56381 ATP5E 2_13; Q5VTU8 AT5EL 2_13
708	RPDGEKKAYVRL	P62750 RL23A 129_140
709	ELEKVL PQTILY	Q9NWF9 RN216 572_583
710	KLF DSTTLEHQK	Q13347 EIF3I 213_224
711	MQQKLVDQNIFS	P07339 CATD 219_230
712	RPRDLEDFFSAV	Q86U06 RBM23 178_189
713	NSDEQKITEMVY	P50851 LRBA 880_891
714	SPRSYQDFFEAI	P18850 ATF6A 548_559
715	GRWDEANAEKQR	P22059 OSBP1 727_738
716	KRFEAAKEDLKK	Q6VMQ6 MCAF1 651_662
717	RRFLTQPQVVAR	O43760 SNG2 18_29
718	YLEHGEYE GNL Y	Q14168 MPP2 440_451; Q9NZW5 MPP6 404_415
719	TTENQYRLTLSY	Q9Y6D9 MD1L1 644_655
720	KT DLLLEPYN KY	P35579 MYH9 289_300
721	LLYYTEFTPTEK	P61769 B2MG 84_95

722	YSDRYIFASNLY	P27707 DCK 131_142
723	YTEFTPTEKDEY	P61769 B2MG 87_98
724	YSDITIFEKQEY	Q12882 DPYD 211_222
725	RRFIAYQETVEK	Q7Z4Q2 HEAT3 665_676
726	YGYNQRPPYGYY	Q9BTL3 RAM 107_118

**B)** Identified sequences from C1R

## C1R EThcD 1D – spliced peptides

#	sequence	origin
1	GREGGGLAI	Q9UQ90 SPG7 279_283_264_267
2	LGSIGLTAL	Q9H3K2 GHITM 131_131_133_140
3	QPPPALGAL	P52945 PDX1 41_44_53_57; Q658T7 F90A2 331_335_324_327
4	QAKGAPLAL	Q01101 INSM1 394_399_408_410
5	LSGLEVAAL	P11277 SPTB1 997_1001_1004_1007
6	VTGVILSAL	Q86Z14 KLOTB 50_52_39_44
7	VAGLKKGKVI	O95714 HERC2 597_602_604_606
8	SVVGVVNTL	Q92508 PIEZ1 2199_2205_2213_2214
9	TAAILGIMV	A5D8W1 CG063 642_644_629_634; Q16625 OCLN 200_201_180_186
10	TGALSIYAV	Q9NS15 LTBP3 161_165_185_188
11	LTPGVTLPV	Q8IWD5 MFS6L 115_116_122_128
12	VAAEQARPG	Q96MM6 HS12B 578_582_597_600
13	LLGSVALLI	Q8IWD5 MFS6L 84_88_78_81
14	IVASILLGL	Q6UXE8 BTNL3 256_257_236_242
15	GKNVGIAEI	Q5T2R2 DPS1 296_302_290_291
16	ELALTIAGL	Q8NFW9 MYRIP 752_753_764_770
17	SLGVTLVVL	Q13253 NOGG 6_11_16_18
18	QSQGLGVTI	Q5SRE5 NU188 699_703_678_681
19	ISGLSAELL	Q5T5J6 SWT1 519_521_530_535
20	VSELGLTAL	Q6P6B7 ANR16 259_263_275_278
21	VTGIKGFLA	Q0VDI3 CE028 68_72_84_87
22	DAVPKPVSP	Q8NA92 THAP8 79_82_102_106
23	EAQTQPPAA	Q96BZ8 LENG1 123_129_121_122
24	RADLGVAVI	P0C025 NUD17 111_112_92_98
25	LGSLLLQGL	Q86U38 NOP9 485_491_500_501; Q8IUR7 ARMC8 87_90_110_114
26	KVVGSVVIL	Q8N3F9 G137C 228_228_248_255
27	REQGAGLAL	Q9H4Q3 PRD13 313_314_320_326
28	SAVLEGLLL	A9YTQ3 AHRR 111_116_118_120
29	TVGLSLLL	Q7Z7M0 MEGF8 1614_1615_1630_1636; Q8TDS7 MRGRD 110_116_90_91; Q8WV15 T255B 41_44_31_35
30	LTNVGVLT	Q9NQX3 GEPH 8_10_17_22
31	GPASTRSEL	Q8NI99 ANGL6 46_51_60_62
32	KSEAGLVTL	Q01415 GALK2 177_179_154_159
33	VVLHGPAVQ	Q5UAW9 GP157 261_265_253_256
34	ASSVVVPVY	P16930 FAAA 163_168_188_190
35	TGGYVTPVK	O60911 CATL2 144_145_124_130; P07711 CATL1 144_145_124_130
36	RAGLIPLAL	Q5T2T1 MPP7 284_289_298_300
37	LLGSVLPLL	Q0GE19 NTCP7 313_318_303_305
38	VQPVGTLVV	Q96Q05 TPPC9 20_24_15_18
39	TVGVLEVVI	Q86UD5 SL9B2 299_300_306_312
40	REESGAPAL	Q96EK9 KTI12 176_181_185_187
41	SARDAVIVV	Q8WY54 PPM1E 480_484_492_495

42	VGGFPKVLN	Q9BRJ7 SDOS 154_158_178_181
43	KGLVFADAL	Q8N568 DCLK2 85_90_100_102
44	PPPLDILGL	Q4G0P3 HYDIN 2610_2612_2597_2602
45	YIPSASGKL	Q9UGV2 NDRG3 315_320_300_302
46	VGSHIVLVI	A9Z1Z3 FR1L4 1022_1027_1009_1011
47	QPKALGVNI	Q9Y426 CU025 193_198_190_192
48	LEKLGLPGL	P26006 ITA3 409_409_420_427; Q9BW04 SARG 351_356_363_365
49	LEKPVAGIL	Q15149 PLEC 4426_4428_4416_4421
50	ENVGPLAEL	Q9H900 ZWILC 94_100_79_80
51	HSAVLTTVN	Q6PKG0 LARP1 147_149_135_140
52	LELLGRAGL	Q8IVL6 P3H3 224_229_232_234
53	VSTPPKSQV	P18583 SON 2177_2178_2163_2169
54	AEKAGKEVI	Q8TAG9 EXOC6 87_89_104_109
55	DAKDITGLL	Q8WZ42 TITIN 16164_16166_16182_16187
56	TDVTAALRV	P13639 EF2 122_123_115_121
57	LNSTISVVI	Q86SQ4 GP126 437_440_414_418; Q9H2H9 S38A1 250_255_235_237
58	NRSTALVSV	Q6UWL6 KIRR2 301_306_321_323
59	PVIYGALTL	Q5UIP0 RIF1 686_687_679_685
60	VSNASFPKV	Q9UKA2 FBXL4 592_593_607_613
61	LYQATQGGI	Q9C0B7 TNG6 564_566_542_547
62	HILESALAV	Q9Y223 GLCNE 402_405_408_412
63	VSSLDKAFS	Q8WXG9 GPR98 1954_1956_1943_1948
64	VVEVPSPKV	P04350 TBB4A 179_181_170_175; P07437 TBB5 179_181_170_175; P68371 TBB4B 179_181_170_175; Q13509 TBB3 179_181_170_175; Q9Y6X9 MORC2 719_720_708_714  P07359 GP1BA 166_169_179_183
65	LEKLLPAGL	Q9UNW9 NOVA2 397_399_409_414
66	AEKVEIAVP	Q6IBS0 TWF2 23_28_30_32
67	GSVRLIVVI	O94778 AQP8 160_163_180_184
68	AEIIKTKG	P46019 KPB2 439_444_460_462
69	VVQVTVVNV	O95382 M3K6 452_458_468_469
70	NDPTQVVNA	Q14571 ITPR2 1992_1992_2012_2019
71	LSNGIDIII	Q5VWQ8 DAB2P 686_688_690_695
72	VIEDLSGLI	Q8N987 NECA1 116_117_97_103
73	KTENVLAAL	P16930 FAAA 260_263_248_252
74	SPWVGPFGL	Q5TCQ9 MAGI3 1462_1467_1475_1477
75	KNKETGSPV	Q6UVK1 CSPG4 777_779_766_771
76	VTIGQEILS	P11388 TOP2A 1041_1045_1056_1059; Q02880 TOP2B 1062_1066_1077_1080
77	LGAESLEKI	Q6UB98 ANR12 1409_1415_1398_1399
78	SQVGVIQVM	Q5JR59 MTUS2 715_719_724_727
79	VSGIKPFSQ	A6NHN6 NPB15 23_28_15_17; O75200 NPIB7 23_28_15_17
80	VINSLAFIS	P17987 TCPA 48_49_69_75
81	DIHPAAKVL	P11586 C1TC 711_712_691_697
82	PTCPHVVVL	A6NN90 CB081 307_311_300_303
83	ATRPSSYPS	Q6UXM1 LRIG3 322_322_333_340
84	HGLSLLNTL	Q9UHL9 GT2D1 159_165_138_139
85	REPGLLAFL	Q8TDL5 BPIB1 112_115_90_94

87	LAKGQLLNL	Q2TB18 ASTE1 333_338_321_323
88	DKELLPSGL	Q8NFP4 MDGA1 479_481_484_489
89	GEIITPKTL	Q8TDW5 SYTL5 197_204_187_187
90	QVSQLKGVL	Q5TCQ9 MAGI3 407_408_427_433
91	NKGSLLVQL	P06241 FYN 346_350_326_329
92	LDFGLAVHT	Q86YV9 HPS6 283_286_268_272
93	HIGSLVFSI	Q16787 LAMA3 3197_3200_3182_3186
94	ERAGIARSL	Q8N4N8 KIF2B 625_628_638_642
95	GKVEEVKLA	O60346 PHLP1 590_596_602_603
96	DAVKTLKVV	A8TX70 CO6A5 1125_1131_1112_1113
97	LEKDGSLLV	Q9NWM8 FKB14 56_62_49_50
98	SGLSRVEIL	A4FU01 MTMRB 110_115_130_132
99	LNSPIFLGI	Q76EJ3 S35D2 77_78_56_62
100	TLSADLKDI	P10275 ANDR 161_162_176_182
101	PEFAGTKIL	Q9UBZ4 APEX2 330_335_338_340
102	KESALLTT	Q4AC94 C2CD3 799_805_797_798
103	GEIIITKF	Q8N3C0 ASCC3 862_868_860_861
104	GVQWATFAV	Q8WWR8 NEUR4 164_166_154_159
105	TSEPTFGKL	O14777 NDC80 49_51_38_43
106	VAIFDESAK	O43424 GRID2 12_12_31_38
107	SHGEINVLL	Q5T6L9 EMARD 373_378_396_398
108	IDKVPNPSL	C9JLW8 F195B 81_82_69_75
109	REGKPPISV	Q9BXSS AP1M1 357_357_371_378
110	KSPDIPLTI	Q8WXI7 MUC16 6131_6135_6148_6151
111	VKNGLNL	Q9ULH1 ASAP1 349_353_368_371
112	QELLLAGQL	Q9BTA0 F167B 121_124_97_101
113	NNRTTLLGPL	Q9HAU4 SMUF2 319_323_296_299; Q9HCE7 SMUF1 328_332_305_308
114	PEGKIELSL	Q8N7X0 ADGB 85_91_94_95
115	NAQLLTNVL	Q9P2I0 CPSF2 204_205_218_224
116	DALQKAIDL	P50502 F10A1 139_140_130_136; Q8IZP2 ST134 135_136_126_132; Q8NFI4 F10A5 139_140_130_136
117	SLVGIAWQL	Q14651 PLSI 475_480_497_499
118	WATNVLNGL	Q8IU68 TMC8 319_321_303_308
119	TPSSNLKQL	A8K2U0 A2ML1 1178_1182_1157_1160
120	ARETLATLL	Q69YU3 AN34A 110_110_124_131
121	EAFKIPIGL	Q14432 PDE3A 726_732_723_724
122	AKDLPVFVV	O15427 MOT4 253_256_246_250
123	GVEKLEAKD	Q9UBK8 MTRR 700_705_684_686
124	WLASITGKI	P41180 CASR 293_296_288_292
125	ADSDSLLRL	Q8N394 TMTC2 261_267_242_243
126	PEPALNHVL	Q5JR59 MTUS2 280_285_265_267
127	IFDGRVVAL	Q9UM00 TMCO1 108_114_100_101
128	KESLSSL	Q9H1K0 RBNS5 207_211_193_196
129	IFEIVGAKL	Q99698 LYST 2764_2768_2788_2791
130	GFQQQAQAL	Q0P6D6 CCD15 153_153_166_173
131	DAASEMVRI	Q9UNS1 TIM 585_589_600_603
132	LAYDTPKAI	Q96PF1 TGM7 389_394_380_382

133	ISFLPNTSL	O95490 LPHN2 17_23_10_11
134	GLAEHLLQL	P10253 LYAG 259_264_246_248
135	NATTLAYEL	Q8NCC3 PAG15 398_404_386_387
136	ESFGAPIKF	Q8IWG1 WDR63 172_173_192_198
137	IEHVLSQL	Q9BVJ6 UT14A 171_177_156_157
138	PDLLEILGQ	Q8NCM8 DYHC2 1427_1427_1436_1443; Q9P225 DYH2 1532_1532_1541_1548
139	PGEHQIFVI	Q7Z3E1 PARPT 611_612_628_634
140	VENGLPKSR	Q8IWK6 GP125 1198_1199_1204_1210
141	ADEVVVRVL	Q7Z2T5 TRM1L 475_477_464_469
142	AESAPAWLR	Q16342 PDCD2 14_20_22_23
143	ISDLFGHVL	Q8WXH0 SYNE2 54_58_64_67
144	MALQLINVV	A1A5B4 ANO9 308_314_292_293
145	PSTDLEKVL	A8MXD5 GRCR1 130_135_125_127
146	KNSGLLQEL	P30622 CLIP1 1049_1049_1065_1072
147	ITREGVLTL	Q02978 M2OM 171_173_175_180
148	ADFAADLRVP	Q9UQD0 SCN8A 1809_1813_1819_1822
149	VGTVTWEVI	P04035 HMDH 22_26_18_21
150	ELCKIGEVL	Q9Y4A5 TRRAP 1106_1112_1091_1092
151	VSIVELEKS	Q8TEK3 DOT1L 663_663_643_650
152	ADFLLRGVI	Q9BYC5 FUT8 460_463_447_451
153	LETLKSLSL	P48681 NEST 583_589_578_579; Q8N9N7 LRC57 87_89_64_69
154	LNSAFQNVI	Q96C45 ULK4 692_694_682_687
155	KGENVFEAL	Q5K4L6 S27A3 598_601_610_614
156	QGTVSLQQF	Q9UI26 IPO11 951_952_930_936
157	MELLACISK	A6NGW2 STRCL 704_709_701_703; Q7RTU9 STRC 704_709_701_703
158	IFDGRVVAM	Q9UM00 TMCO1 108_115_88_88
159	REIPPLLLG	Q9H6D7 HAUS4 134_139_127_129
160	DKGVTFDID	P38646 GRP75 536_538_520_525
161	DAEVLLPVR	Q969Z0 TBRG4 523_527_535_538
162	PKNRVEGVI	Q9C026 TRIM9 146_150_152_155
163	TDINLALPR	Q8NFA0 UBP32 590_592_577_582
164	EPLKGRVTL	P42167 LAP2B 200_205_210_212
165	DPLIKSTQL	Q6ZS81 WDFY4 2792_2798_2812_2813
166	GERLTVDLL	Q15149 PLEC 3876_3882_3859_3860
167	PTEL TTLKI	O14490 DLGP1 365_365_385_392
168	TDLVQKAKL	Q3SYG4 PTHB1 434_437_453_457
169	AKEAIFRAL	Q5FBB7 SGOL1 529_534_522_524
170	HPDLIVVLI	Q9BR76 COR1B 175_179_156_159
171	DERASLFAI	Q9UFE4 CCD39 36_41_15_17
172	VAFLSKNNE	Q9H1B5 XYLT2 342_348_338_339
173	IDKGIAYEI	Q9UN75 PCDAC 323_327_315_318
174	REGHPLSSL	Q9Y2T1 AXIN2 404_406_421_426
175	KDGVLFNMC	Q6P2Q9 PRP8 1210_1213_1186_1190
176	PTDLLTVRL	Q96AD5 PLPL2 315_320_328_330
177	VSSVFQFSK	Q5SW79 CE170 1411_1411_1419_1426; Q96L14 C170L 120_120_128_135
178	LQLSQLTLLL	P30989 NTR1 94_98_115_118
179	KEVPLLAFL	P30876 RPB2 413_415_398_403

180	DTLQNAIKQ	P14921 ETS1 217_221_225_228
181	LDENVLKSL	Q8WUM4 PDC6I 559_561_550_555
182	EKVFLAQPV	P14618 KPYM 304_310_323_324; P30613 KPYR 347_353_366_367
183	RSSLLDNQV	Q8NDX5 PHC3 722_724_736_741
184	REGDLPVFV	Q4G0X9 CCD40 237_243_220_221
185	TTRDVLVDL	Q969Y2 GTPB3 283_288_292_294
186	SERTVV DLL	Q8IWZ3 ANKH1 1118_1121_1137_1141
187	KEGALKWSL	P08F94 PKHD1 2716_2718_2733_2738
188	VSLPVDFKQ	O43149 ZZEF1 2029_2031_2016_2021
189	DNIDLLFAL	Q96N46 TTC14 60_62_73_78
190	EVSKEVMVL	Q16666 IF16 566_568_578_583
191	TREVSVLVM	Q13838 DX39B 122_124_114_119
192	LDFVVEKAL	P12111 CO6A3 326_331_310_312
193	LSPTEFLDL	Q8NCF5 NF2IP 200_202_190_195
194	LGEKIAYQL	P35606 COPB2 651_653_655_660
195	TDKKIFLGL	Q49A26 GLYR1 266_270_272_275
196	FEARAEVTL	Q86WI1 PKHL1 2379_2384_2371_2373
197	AERPLLPIQ	Q8WXD2 SCG3 38_42_15_18
198	HEGREPLSL	A8MX19 F90AC 217_223_196_197
199	RDALLIHSL	Q6NXR0 IIGP5 299_299_291_298
200	HPESIIETL	P0CF97 F200B 545_550_529_531
201	IQLTKPVQL	Q8IWX8 CHERP 314_318_305_308
202	NGNVFEFTL	A6NES4 MRO2A 218_224_212_213
203	VAVREDVRP	Q9NYQ7 CELR3 551_552_554_560
204	VDEVRPRAV	Q13748 TBA3C 75_79_63_66; Q6PEY2 TBA3E 75_79_63_66; Q9NY65 TBA8 75_79_63_66
205	DEVIGIRQL	P30153 2AAA 375_375_393_400; P30154 2AAB 387_387_405_412
206	ETHAIVLLF	Q8WY64 MYLIP 270_273_249_253
207	IKNLNTIEIV	P49802 RGS7 67_73_62_63
208	VGELWTLLL	Q3SXY7 LRIT3 639_644_654_656
209	TELLIRVIS	O60237 MYPT2 957_959_973_978
210	ADIDKRVEV	Q7Z5Q1 CPEB2 497_497_510_517; Q8NE35 CPEB3 606_606_619_626
211	RELENGKAK	Q96IT1 ZN496 497_498_513_519
212	NKKDEIVSL	Q49MG5 MAP9 70_72_51_56
213	REVNTTTNI	Q9H6D8 FNDC4 94_100_73_74
214	VETVMLEKV	P48735 IDHP 403_406_397_401
215	RSKSSQELL	Q8IWY8 ZSC29 104_105_125_131
216	DIAFPPFK	O15119 TBX3 154_157_133_137
217	EAKLFKQAL	Q9NRCC1 ST7 249_250_258_264
218	REKITAESD	Q9NR82 KCNQ5 587_593_582_583
219	GRDYVVQVI	Q8WUN7 UBTD2 198_199_215_221
220	VEMLPIFVT	Q9UN70 PCDGK 577_581_555_558
221	IDFPLPPHL	Q8IX18 DHX40 473_474_489_495
222	EDLGLFNEI	Q8IZF0 NALCN 249_253_263_266
223	DISHIQHSL	A6NCI4 VWA3A 517_519_528_533
224	IDADLFDKL	Q9H611 PIF1 305_306_313_319
225	DTLGFKEEL	Q5TGYZ AHDC1 1391_1391_1405_1412

226	SKFVEVTEL	Q9Y2G8 DJC16_593_594_600_606
227	FISEDNKS L	Q8IYS1 P20D2_338_342_320_323
228	VGEVWFFGL	P35241 RADI_37_38_41_47
229	YTRILADTT	Q8N0W4 NLGNX_296_301_310_312; Q8NFZ3 NLGNY_296_301_310_312
230	REILAEP II	Q9BQ52 RNZ2_289_294_273_275
231	EKGEFVAQF	Q9UQ80 PA2G4_310_311_313_319
232	VKESIDQHV	P21333 FLNA_2140_2144_2122_2125
233	ELLPNLEKV	Q15399 TLR1_654_661_651_651
234	LDKWLGPLL	P19235 EPOR_371_375_353_356
235	ESRVMTVS F	O15379 HDAC3_212_213_186_192
236	REGLPLEEL	Q6ZRS2 SRCAP_326_328_330_335
237	PVEELKEVI	Q4FZB7 SV421_124_125_135_141
238	DGAFKLHL R	Q7Z460 CLAP1_370_375_365_367
239	IDAERLINL	Q9BYE7 PCGF6_142_144_120_125
240	REIGEDILL	P01011 AACT_306_310_326_329
241	VDNQGQVWI	P13727 PRG2_175_176_153_159
242	FHTVQKVEA	Q5DID0 UROL1_24_24_43_50
243	LDDSIVRK L	Q93034 CUL5_140_141_132_138
244	CPAKMIEIR	Q5HYC2 K2026_548_553_570_572
245	ARVQTLFLL	O96024 B3GT4_89_89_104_111
246	NKYLSKIPV	Q86YB8 ERO1B_115_118_103_107
247	REDLAAQFL	Q14669 TRIPC_1311_1313_1330_1335
248	VVIEFNKVD	P14649 MYL6B_57_63_52_53
249	ADWKKGFVL	Q8NC51 PAIRB_315_316_319_325
250	LRGLYTEVI	Q8NGQ5 OR9Q1_259_261_276_281
251	IDLLLEAFM	Q8IZQ1 WDFY3_1986_1992_1965_1966
252	ADLFQVPKF	Q92523 CPT1B_762_769_750_750
253	VQKYELATI	Q4G0P3 HYDIN_666_672_648_649
254	QGEKFTVKE	Q8N815 CNTD1_241_246_248_250
255	PNDYLIAFL	P34972 CNR2_187_191_198_201
256	IPNDYIAFL	P34972 CNR2_186_190_198_201
257	PDLLEPLRL	Q93050 VPP1_145_149_165_168
258	IDLPELPRL	P29375 KDM5A_878_879_888_894
259	QHSHAVFQI	Q8NI77 KI18A_216_217_228_234
260	VENMKFTVV	Q8IVF4 DYH10_1393_1393_1407_1414
261	QEPLPELQL	Q8IZT8 HS3S5_249_249_261_268
262	QPHSTEQQ L	Q8HWS3 RFX6_710_713_731_735
263	ESFALRPTF	Q9UII4 HERC5_654_655_675_681
264	QDDLVPRL	Q8N7W2 BEND7_89_94_97_99
265	WDALIVPVR	Q9BRR6 ADPGK_61_66_68_70
266	QPRGLQRTL	Q6ZTK2 YP015_425_430_442_444
267	EVTQLLPRL	Q08426 ECHP_124_125_136_142
268	TEKLVEHVD	Q53H54 TYW2_223_226_199_203
269	HEKSLEVEV	P69849 NOMO3_561_562_569_575; Q15155 NOMO1_561_562_569_575; Q5JPE7 NOMO2_561_562_569_575
270	FENHLPIIS	P29353 SHC1_549_550_562_568
271	LEYLGYLAK	P51878 CASP5_72_76_86_89

272	PETKVQRVL	Q06787 FMR1 350_351_371_377
273	VTELHNETK	Q6PKX4 DOK6 59_64_74_76
274	RPTVLDTRI	Q9UMS0 NFU1 182_185_177_181
275	ERDSLLPEI	Q8N859 ZN713 80_85_95_97
276	LESKEIIQL	Q6TFL3 CC171 295_298_302_306
277	VCIFHTLKI	Q86UX2 ITIH5 431_434_415_419
278	LENDITKKL	Q8N141 ZFP82 89_93_84_87
279	PDSRCVLER	Q86UU0 BCL9L 164_166_146_151
280	VEEKANTRE	Q6DKK2 TTC19 226_232_215_216
281	DTALFPHYL	Q8IX06 GOR 601_603_605_610
282	LSNLLQEFI	Q8NGI8 O5AN1 83_89_69_70
283	EKLQGLIEF	Q9BUB5 MKNK1 125_129_110_113
284	REGDLLFEV	Q7L576 CYFP1 1076_1081_1093_1095; Q96F07 CYFP2 1100_1105_1117_1119
285	REDPFTISL	P37268 FDFT 110_110_123_130
286	IQDAYLNKL	Q9UPN3 MACF1 1166_1169_1152_1156
287	ERWGAFael	P12980 LYL1 159_161_168_173; P17542 TAL1 196_198_205_210
288	ERAALQYDL	O95159 ZFPL1 81_86_71_73
289	GEAEYIQRI	P07942 LAMB1 1667_1672_1646_1648
290	DAQAWVLYI	Q6ZTY9 CG065 128_132_116_119
291	EKNSLITQF	Q9UKK3 PARP4 1179_1180_1166_1172
292	TFGQKKLEE	P35712 SOX6 116_118_136_141
293	FSEDLVSFH	Q05BV3 EMAL5 1090_1091_1073_1079
294	QGELFRAFL	Q96JH7 VCIP1 154_158_166_169
295	REAEFTKSD	Q15005 SPCS2 185_192_167_167
296	YNDIVAFQI	O76083 PDE9A 375_378_388_392
297	FFRLVTDQG	Q8N5J2 FA63A 314_316_333_338; Q8NBR6 FA63B 443_445_462_467
298	ERGDLLYAF	Q9H2S5 RNF39 372_374_385_390
299	EKHEVLSel	Q5TAP6 UT14C 467_469_453_458
300	ENKEDIHSL	Q9C099 LRCC1 444_445_461_467
301	QLYGLLNHQ	Q8TAQ9 SUN3 80_82_62_67
302	LQIDDLKQL	Q02224 CENPE 941_943_932_937
303	YSSIPLLFF	Q5VTY9 HHAT 271_276_294_296
304	LETEIIKKL	Q9HCl6 K1586 469_475_460_461
305	NLYGTLPYF	Q9C091 GRB1L 389_390_404_410
306	WEKTIAALR	Q9Y2D4 EXC6B 374_375_380_386
307	VLIQKNHVH	Q9UKK3 PARP4 55_56_64_70
308	VHDCEIFIL	O43683 BUB1 908_913_923_925
309	VHNLIDNHK	Q03001 DYST 6843_6844_6852_6858
310	ERGLEYPLI	Q5T5U3 RHG21 1173_1178_1161_1163
311	DAEIEKKTR	Q8N5P1 ZC3H8 216_222_235_236
312	NWKCVLTLL	Q6YHU6 THADA 1716_1716_1730_1737
313	LEYALLVNR	Q59H18 TNI3K 769_773_749_752
314	DIRNLQDSM	Q9Y5S1 TRPV2 288_294_268_269
315	REALDEFLV	Q9UPN3 MACF1 7199_7200_7177_7183
316	IEDILLNHQ	Q6NXG1 ESRP1 458_462_481_484
317	RETILNHLV	Q969S9 RRF2M 565_570_587_589
318	EALPLDYKF	Q5TFE4 NT5D1 414_415_419_425

319	WEGPDQPLR	Q8TCY5 MRAP 144_145_118_124
320	RKYYAEGVI	Q8TE73 DYH5 4013_4015_4024_4029
321	KEALLELQR	Q13895 BYST 398_404_387_388
322	VEQIKLLKE	Q6ZV65 FA47E 71_72_91_97
323	RLENITIKI	P69849 NOMO3 366_370_390_393; Q15155 NOMO1 366_370_390_393; Q5JPE7 NOMO2 366_370_390_393
324	RANLLSRDR	Q86US8 EST1A 616_617_597_603
325	LEDKEILKI	Q8NG66 NEK11 303_306_280_284
326	LQNLEIMQI	P25391 LAMA1 1692_1694_1703_1708
327	LERSNKLEI	Q9Y592 CEP83 329_331_310_315
328	PQEENFLKV	Q9NP18 FANCF 218_221_200_204
329	NEFKNLEIP	Q12789 TF3C1 1365_1368_1386_1390
330	DIWTQKSLL	Q8NH19 O10AG 75_80_58_60
331	IDKEMRVTL	Q14204 DYHC1 1733_1734_1707_1713
332	HETLNHLHEL	Q12851 M4K2 518_519_511_517
333	RAFEDIEII	Q9NTK5 OLA1 125_128_144_148
334	KSERMKLTL	P09874 PARP1 518_520_522_527
335	KIWDLADFV	P42566 EPS15 55_61_74_75
336	FETLVVKQEL	P0C221 CC175 636_639_617_621
337	KELDHIVPR	A8MYV0 DCD2C 93_96_99_103
338	EDPHLKQQL	Q9NVH0 EXD2 495_497_472_477
339	KEIFDKSKL	Q53GS7 GLE1 442_447_439_441
340	DINSRLYDL	O14775 GBB5 283_286_306_310
341	HPHDILYTI	Q8TDJ6 DMXL2 2245_2246_2231_2237
342	KESIPLFKF	A6NHX0 GATL2 17_23_40_41
343	LDIPSEWHI	Q9H583 HEAT1 759_760_749_755
344	EKGFWPEAF	Q8N9N8 EIF1A 111_112_100_106
345	NAFFQLLEE	Q5VYK3 ECM29 1741_1745_1749_1752
346	LEVLDNDHRD	P35590 TIE1 888_891_879_883
347	YRTAFLNL	P0CG31 Z286B 92_98_105_106
348	LEQLLILRN	Q9UQL6 HDAC5 155_156_163_169
349	LPYEEVLHL	Q96PX8 SLIK1 192_198_181_182
350	EKYDVVLFT	Q32MK0 MYLK3 604_606_612_617
351	QEEGDLIR	P61266 STX1B 101_104_111_115; Q16623 STX1A 102_105_112_116
352	EHIGEWEAF	Q86WH2 RASF3 184_185_187_193
353	PEYLPERIT	P19087 GNAT2 165_169_160_163
354	LQQLLDFQL	Q9UPT5 EXOC7 510_517_502_502
355	KEKPDIFEL	Q8IWA0 WDR75 121_127_146_147
356	SREELFETL	Q702N8 XIRP1 465_468_444_448
357	VEIFHPLL	Q6P444 MTFR2 105_111_91_92
358	ENVEQRHTL	P12270 TPR 856_857_859_865
359	EGTWKTFIF	Q92673 SORL 567_568_570_576
360	ELKKIEEQ	P30740 ILEU 224_224_243_250; Q2YD98 UVSSA 27_31_36_39
361	WWEGLKARS	Q13237 KGP2 710_710_716_723
362	FHFVVVEDI	O95786 DDX58 911_914_893_897
363	RMMRSLDIL	P27708 PYR1 1948_1950_1955_1960
364	VNARLYEDR	Q96Q27 ASB2 347_348_356_362

365	KEEMDFPLE	O15371 EIF3D 171_177_185_186
366	NPDDVFRFE	O75190 DNJB6 95_101_87_88
367	FRNMDLETL	Q92747 ARC1A 303_307_319_322
368	HREILTEQL	Q5K651 SAMD9 32_39_23_23
369	ESKFFFTSF	Q8IYS0 GRM1C 150_151_153_159
370	IFDEFVRTL	Q5W0Q7 USPL1 1061_1065_1048_1051
371	PQYDHLEQI	Q8TEX9 IPO4 624_627_604_608
372	HELRAQLYL	Q13156 RFA4 221_227_241_242
373	NELLRQELK	Q15853 USF2 311_316_320_322
374	FKTEYPVIF	Q8NEB9 PK3C3 623_626_631_635
375	WDDAFIPKR	P0CG32 ZCC18 222_227_232_234; Q6PEW1 ZCH12 222_227_232_234
376	EEKIQFLQI	Q8IYE0 CC146 676_682_692_693
377	EELKFLQEL	Q63HN8 RN213 3782_3787_3761_3763
378	IEVQKLHQR	Q3SYC2 MOGT2 288_292_304_307
379	LEQVLKHQR	O95153 RIMB1 434_440_446_447
380	DHFRLLEQV	Q70CQ2 UBP34 1002_1006_1008_1011
381	ELKHELIEF	Q00610 CLH1 1526_1527_1501_1507
382	LDRNERLEL	Q9NYB0 TE2IP 85_86_90_96
383	RERESVLLR	O95071 UBR5 309_315_317_318; Q8IVT2 MISP 549_555_536_537
384	EKKVLEWNL	Q9BPY3 F118B 187_193_166_167
385	ESWKGPFYF	Q9BRF8 CPPED 26_27_29_35
386	QEFLLPDWL	Q9NVG8 TBC13 327_333_320_321
387	FEHLVKPYE	Q9BYT9 ANO3 920_924_898_901
388	REKIVEVMY	P61160 ARP2 120_127_131_131
389	KELPYFEEL	Q09472 EP300 1499_1505_1519_1520; Q92793 CBP 1535_1541_1555_1556
390	KEIFFETRV	Q14997 PSME4 599_602_618_622
391	NKENFIYEL	Q6ZRH7 CTSRG 501_507_514_515
392	REDLRLFL	Q9NPQ8 RIC8A 152_153_164_170
393	REFLERKPT	Q68D10 SPT2 205_211_225_226
394	YEEELLHMI	Q8N608 DPP10 231_237_255_256
395	MPFLRTIWL	Q5BKY1 LRC10 189_191_169_174
396	FELEFLDYI	O60494 CUBN 1203_1207_1220_1223
397	NRERLLEFI	Q5VTQ0 TT39B 331_333_321_326
398	LEQLEEYRI	P23468 PTPRD 674_678_682_685
399	IERYELAWI	Q9H254 SPTN4 311_315_322_325
400	REKMTQIMY	A5A3E0 POTEF 816_822_832_833; P0CG38 POTEI 816_822_832_833; P0CG39 POTEJ 779_785_795_796; P60709 ACTB 116_122_132_133; P62736 ACTA 118_124_134_135; P63261 ACTG 116_122_132_133; P63267 ACTH 117_123_133_134; P68032 ACTC 118_124_134_135; P68133 ACTS 118_124_134_135; Q562R1 ACTBL 117_123_133_134; Q6S8J3 POTEE 816_822_832_833; Q9BYX7 ACTBM 116_122_132_133
401	NKHSFRYEQ	Q86X10 RLGPB 941_947_960_961
402	FEEFIQEIR	P00973 OAS1 119_120_97_103
403	YEFKLFRPN	Q9H596 DUS21 156_161_144_146
404	REREVEELR	Q96DC7 TMCO6 24_27_16_20
405	RERELYENI	O95503 CBX6 62_67_46_48
406	EALLIIPKV	P40227 TCPZ 461_461_443_450; Q92526 TCPW 461_461_443_450

407	ERLLDGVL	Q8N1I0 DOCK4 1160_1164_1148_1151
408	VAGAAVTIPG	Q8NBN7 RDH13 14_19_35_38
409	VVGLGTVSAL	O60290 ZN862 691_696_675_678
410	VANGSGFVGL	Q03181 PPARD 305_312_302_303
411	VVTGAAVLVV	P17693 HLAG 321_327_315_317
412	IDSGVVAGVL	Q9H013 ADA19 690_693_703_708
413	GNINVSAASV	Q08AF3 SLFN5 166_173_161_162
414	VVADALSPVA	P80365 DHI2 173_177_179_183
415	ITGVISLAGL	Q8IU80 TMPS6 799_804_777_780
416	VTGTLVTSAP	Q9Y6R1 S4A4 878_883_861_864
417	LSGSGSLVLL	Q9NU22 MDN1 849_851_857_863
418	KGELGTAVAL	Q9Y5G1 PCDGF 387_388_361_368
419	VIGIATVTGK	Q2TAY7 SMU1 487_491_471_475
420	AELTATLAVA	B0I1T2 MYO1G 312_317_300_303
421	DGVLGRIAVA	Q13163 MP2K5 245_246_259_266
422	LGLLGVLKKA	Q13635 PTC1 758_765_748_749
423	LGSGIPFILG	Q8N2I9 STK40 20_24_34_38
424	MELGAALTGI	O14791 APOL1 212_215_218_223
425	LADSTTALAL	Q9H1N7 S35B3 215_221_234_236
426	LGSGFPLTAL	Q96CX6 LRC58 63_68_80_83
427	GQAPKLLGVP	P83593 KV405 47_53_63_65
428	GKAEALPLAL	Q8NDH2 CC168 286_287_275_282
429	VNMLGVKPGA	Q9NZQ0 DJC27 233_234_221_228
430	LNSVLGLQAA	Q8N8S7 ENAH 277_281_290_294
431	GKGSNELVAL	Q9NR20 DYRK4 111_114_127_132
432	KAAQGTITVV	Q9BZA7 PC11X 843_846_820_825; Q9BZA8 PC11Y 875_878_852_857
433	LGSGLPLLLL	Q5T3U5 MRP7 1060_1065_1067_1070
434	VAVIVSPLKA	P20020 AT2B1 865_869_880_884; P23634 AT2B4 853_857_868_872; Q01814 AT2B2 888_892_903_907; Q16720 AT2B3 862_866_877_881
435	APLEVSTAVL	Q99460 PSMD1 815_818_828_833
436	DAILKAAANI	P35914 HMGCL 151_157_160_162
437	NSKAVPQGIS	Q6ZU69 F205A 980_987_995_996
438	VAIEDEGAKA	O95484 CLD9 97_99_109_115
439	IEPSGASQTI	Q92954 PRG4 149_150_122_129; Q9NR99 MXRA5 479_484_460_463
440	TLSNAGVEVL	P00390 GSHR 301_303_284_290
441	TTGVVSKLSS	A2RU67 K1467 563_565_576_582
442	GQSVKSVSTL	Q8IZ16 CG061 97_99_108_114
443	TFTALGAVLL	Q6UX01 LMBRL 69_71_75_81
444	LAEPASVHAL	Q14254 FLLOT2 399_401_403_409
445	VITDGAVFST	Q5TIE3 VW5B1 462_468_483_485
446	LSGLDLAAHL	Q9P2K8 E2AK4 410_414_387_391
447	GGSLLRVPGR	Q8N912 NRAC 101_105_92_96
448	LGSLVPAEIL	Q9NR56 MBNL1 137_138_143_150
449	DALEPGTPGR	A6NJJ6 CS067 22_28_40_42
450	AEGGPLVTRL	Q6NTE8 CE045 312_318_327_329
451	ANATLLPLSL	P0C7T3 O56A5 44_48_32_36

452	VALAVEGNKL	Q9NT68 TEN2 1241_1245_1233_1237
453	VGLSSNKIPV	Q13018 PLA2R 422_422_440_448
454	VKEALNGLVA	O75964 ATP5L 70_73_75_80; Q7Z4Y8 AT5L2 70_73_75_80
455	QGSSPLTKSI	Q12802 AKP13 1672_1673_1682_1689
456	LDTAKTSAVL	Q9BQS2 SYT15 358_361_333_338
457	PLDALPAHEG	Q96C00 ZBTB9 111_118_97_98
458	KETGGVAVFI	P25874 UCP1 107_108_123_130
459	GQNATSLFAI	Q96JM2 ZN462 74_80_66_68
460	VSGPLAETHL	Q9UPN7 PP6R1 506_513_526_527
461	ALSVLLPLVV	O95382 M3K6 334_342_314_314
462	GNPIINGDLL	P21359 NF1 1602_1605_1618_1623
463	PQLMKVAGAL	Q9Y6J9 TAF6L 173_179_190_192
464	NPATLGTKLI	Q53H76 PLA1A 60_61_80_87
465	LGLEILSGLL	A4D1F6 LRRD1 188_195_199_200
466	TEAAVPKLSL	Q5VV67 PPRC1 398_404_414_416
467	TTIKLGAQTP	Q6MZP7 LIN54 80_82_101_107
468	GKDKKGKGINI	Q7Z407 CSMD3 1299_1302_1276_1281
469	LSGSVLELVI	Q9NUE0 ZDH18 295_297_278_284
470	IAVSLLLDHV	Q12836 ZP4 197_200_208_213
471	PLMNSGVLSI	O75678 RFPL2 361_365_355_359; O75679 RFPL3 300_304_294_298
472	LSGLAVTLTR	Q96HG1 SIM10 22_27_45_48
473	RTVGESLASI	O60741 HCN1 803_803_807_815
474	ISGSMALLKI	P19827 ITIH1 299_303_314_318
475	TVVGFGDLIL	Q92832 NELL1 18_23_4_7
476	EGDTLARAGF	P98170 XIAP 57_59_46_52
477	GVHSVLSLLL	O43299 AP5Z1 599_605_581_583
478	HSLVGVVQSI	Q96AQ9 F131C 98_98_87_95
479	IGSSSTVFEI	O60494 CUBN 876_880_859_863
480	NSFSVGKTSI	Q5JT25 RAB41 54_56_41_47
481	GPAVNDILEL	Q9BTE3 MCMBP 236_238_252_258
482	LKELEPAGAL	Q6UY18 LIGO4 230_234_220_224
483	VDVPGKDQAL	Q03001 DYST 4292_4298_4287_4289
484	PDSVIALNGR	P34969 5HT7R 283_291_267_267
485	IEVLASLTVP	Q8TEV9 SMCR8 472_475_491_496
486	QDVLGIGKNV	Q3B7J2 GFOD2 64_66_86_92; Q9NXC2 GFOD1 62_64_84_90
487	IDGADVVKLL	P19367 HXK1 163_164_182_189
488	IVNKLEAGKA	Q9NU22 MDN1 2170_2176_2163_2165
489	VQAADSISSPR	Q6ZSR9 YJ005 236_239_243_248
490	VSAAEELLEV	P58107 EPIPL 242_250_226_226
491	LGSDLVDSLVL	Q969K3 RNF34 153_155_142_148
492	VAILEQATKA	Q13936 CAC1C 203_203_210_218
493	EAVEREAAVA	P07101 TY3H 100_102_79_85
494	NGEICLLAGR	Q9NT68 TEN2 1507_1515_1500_1500
495	LGSDLDATEKL	A7E2Y1 MYH7B 753_757_748_752
496	GQQGFLGLDL	Q9UHC6 CNTP2 929_935_947_949
497	HPEVLALVG	Q9Y2X0 MED16 463_467_441_445
498	LGDRFSGIAL	Q92616 GCN1L 2314_2319_2338_2341

499	NGSVYVGLKI	Q9H061 T126A 34_41_20_21
500	PATRLGLNVL	Q8TD22 SFXN5 193_197_180_184
501	LQSLLGLRGP	A6NGR9 MROH6 529_532_518_523
502	PRVSQNGPLS	Q8N5R6 CCD33 447_453_433_435
503	VALREGANPK	P12821 ACE 1004_1011_1029_1030
504	AASVYGFSDL	Q06710 PAX8 348_353_329_332
505	KNGVTSPLOI	P31327 CPSM 1070_1073_1078_1083
506	QPVSAMLVLV	Q12805 FBLN3 441_441_444_452
507	VALLEQQGKAK	O75390 CISY 377_378_388_395
508	VKGTVDIVLL	Q2LD37 K1109 1621_1629_1606_1606
509	GGLHSIFVDL	Q86UN2 R4RL1 146_150_168_172
510	RGASVNLDIL	P16278 BGAL 299_305_295_297
511	GASALIKERL	Q8NB46 ANR52 641_649_622_622
512	KPTTGNVQTL	Q5CZ79 AN20B 336_340_354_358
513	VDFVPIIGTV	Q8WXG9 GPR98 2884_2891_2864_2865
514	PQGKMGMAQI	Q9UJD0 RIMS3 232_235_254_259
515	RATGEEGLEV	Q13459 MYO9B 419_422_424_429
516	GTSEEQLLLA	Q9BXL6 CAR14 943_950_970_971
517	SSGLAAVYFF	Q9NT68 TEN2 1885_1891_1895_1897
518	VVEFVIVEGA	Q8WZ42 TITIN 2266_2270_2261_2265
519	NGKVGDLNVF	Q13023 AKAP6 1437_1444_1464_1465
520	ATNLESKSTI	P62491 RB11A 49_50_37_44; Q15907 RB11B 49_50_37_44
521	EAMALLVFLG	Q8NE00 TM104 65_68_48_53
522	WHLIGAGHSS	Q9BYX4 IFIH1 737_737_753_761
523	DTTCIKLGQS	O75152 ZC11A 428_434_454_456
524	EPLQPPGSQI	Q9Y3S1 WNK2 1003_1007_1019_1023
525	SGDLTSVFEL	Q9H6Y2 WDR55 210_216_202_204
526	PDSRAQAPAR	Q9UHB6 LIMA1 363_367_383_387
527	VPGDQLEAKL	Q8NCC3 PAG15 43_46_50_55
528	NPNANMLAI	Q9BZK7 TBL1R 408_416_394_394
529	PDQLADLVSI	P06733 ENO A 273_279_290_292
530	VKGNNENAILL	Q5VYJ5 MALR1 878_879_855_862
531	KSLGLPEITL	P80188 NGAL 177_183_155_157
532	VREA VSGRPT	Q14624 ITIH4 402_409_388_389
533	PAELLFLVGI	O94910 LPHN1 924_924_906_914
534	RDSGINAQVL	Q9Y5E3 PCDB6 476_484_456_456
535	LETLEGAQVL	Q5VU43 MYOME 931_933_907_913
536	LDTVKGVIPM	O15031 PLXB2 692_697_676_679
537	VVEKLSVVSL	Q7L5Y9 MAEA 74_78_66_70
538	SKLPTEGDNL	Q96Q42 ALS2 665_667_643_649
539	WVTTLGGDLL	Q6DT37 MRCKG 130_134_153_157
540	NGKVMVL TTL	P14649 MYL6B 158_162_169_173
541	VSKILSSKSK	Q86SG6 NEK8 142_142_151_159
542	PTFSEALAGW	Q8IZ83 A16A1 175_178_158_163
543	HELKNNGGLVI	P46934 NEDD4 1132_1138_1154_1156
544	VQEIGHLT SV	Q9Y4G6 TLN2 1708_1713_1704_1707
545	GAEFLAHIL	P09874 PARP1 482_483_471_478

546	EKLDPIAGKL	Q9Y6F7 CDY2 161_167_181_183; Q9Y6F8 CDY1 160_166_180_182
547	EAKPSGIHVF	Q6UVY6 MOXD1 371_372_377_384
548	GVAKIENVQK	Q9BYW2 SETD2 48_49_30_37
549	LDIIGSRQAL	Q9NTX5 ECHD1 218_219_202_209
550	EVRRGRGVSL	Q96RJ6 FER3L 68_69_82_89
551	LREASAAVLR	P18074 ERCC2 292_298_270_272
552	AKGFAEMYVA	P13639 EF2 238_240_228_234
553	DPDLLTDVLS	Q4VC12 MSS51 224_226_235_241
554	RVAVTDDQAI	Q9UJ99 CAD22 382_387_377_380
555	VRAFAEPIQG	Q9BYV1 AGT2 310_312_285_291
556	LEGAFLVILL	Q6ZT12 UBR3 762_765_768_773
557	EVGSLRVESL	Q14532 K1H2 237_242_220_223
558	GVERTQKGTL	Q9P1Z0 ZBTB4 1003_1010_988_989
559	VETLIDLKTG	P16471 PRLR 135_136_155_162
560	METLLLAVSL	P08684 CP3A4 9_11_13_19
561	LEKASVVSTR	P13569 CFTR 6_13_20_21
562	QGPSPELYSL	Q7Z7M0 MEGF8 1722_1723_1701_1708
563	YLGGKPLVMI	P43155 CACP 162_168_151_153
564	VTFIEGRSQG	P42695 CNDD3 1423_1425_1445_1451
565	VAQTGKLKSY	P35913 PDE6B 565_567_575_581
566	VQUELFSQSGT	Q9BRC7 PLCD4 208_212_185_189
567	TEYQVVSATV	Q8WZ42 TITIN 24318_24321_24299_24304
568	GKIFGNAYLN	Q9P2G9 KLHL8 554_557_564_569
569	VMEAITSVT	Q75VX8 GAREL 119_127_144_144
570	PVCGFIHLVI	Q15125 EBP 57_57_71_79
571	KVSALQPELL	Q4KMZ1 IQCC 9_14_3_6
572	PTSPIFPLIL	Q96PP4 TSG13 168_170_158_164
573	PVTAQMIVL	Q6ZW61 BBS12 507_514_503_504
574	KVTGEIKVIL	Q9NZN1 IRPL1 528_528_501_509
575	ARTDELVAII	P12268 IMDH2 223_225_216_222; P20839 IMDH1 223_225_216_222
576	SVALKEVLEL	Q8IZJ1 UNC5B 707_707_722_730
577	VVEQLEANLS	P0DM48 SMCR9 69_70_45_52
578	REGNKDGVL	Q9NYQ8 FAT2 1695_1702_1718_1719
579	RTLDVSLVSL	P35498 SCN1A 1316_1318_1293_1299; Q14524 SCN5A 1303_1305_1280_1286; Q99250 SCN2A 1306_1308_1283_1289; Q9NY46 SCN3A 1304_1306_1281_1287
580	VGTDQVIQLM	P04844 RPN2 222_224_231_237
581	YTPVGLLLDL	Q96BM1 ANKR9 238_242_230_234
582	PGSLDSLFLR	O75038 PLCH2 904_909_897_900
583	IDGEAFLARL	Q9Y468 LMBL1 710_716_702_704
584	VTVCNQSCKL	Q86UV5 UBP48 220_225_230_233
585	VTTEIEGMNI	P43007 SATT 198_199_216_223
586	SKATEPLFTL	Q9UNN4 TF2AY 50_54_64_68
587	TNGQDLIFTV	Q13813 SPTN1 1931_1937_1919_1921
588	TSGRILVFQS	P59534 T2R39 71_78_87_88
589	VFSLDLTLI	Q9P2E7 PCD10 725_727_711_717
590	LTALELHTLP	Q9P260 K1468 108_115_124_125

591	AELLLPLKVL	Q9NQW1 SC31B 273_277_252_256
592	AVDADFKEKS	O94985 CSTN1 187_191_164_168
593	PLSLVDLEHS	Q9BW19 KIFC1 560_566_549_551
594	VLMDDPPPVEL	Q8IXH7 NELFD 312_313_320_327
595	DTSVVLLSMF	Q8N1G1 REXO1 1117_1120_1128_1133
596	GSVSFLLNFE	Q3C1W6 YK031 412_417_407_410
597	ISMGFAVFEL	Q5VW32 BROX 112_116_107_111
598	KEIGQLGQQI	P0C671 CF222 535_537_551_557
599	IDPKLICALQI	P48061 SDF1 72_76_55_59
600	PYPGLSLTLR	Q99466 NOTC4 1341_1344_1319_1324
601	RVTLSKDQGL	Q9UKA9 PTBP2 406_411_424_427
602	VTACLEQLLQ	P46100 ATRX 277_280_287_292
603	TELLLKSKVS	Q9UBW7 ZMYM2 948_951_937_942
604	SEMAQNAVRL	P35222 CTNB1 473_473_479_487
605	VWSDISGELI	Q8WUA4 TF3C2 708_710_724_730
606	LEDFRSASVP	Q17R60 IMPG1 657_663_644_646
607	VRNCIQAGFL	Q7Z6Z7 HUWE1 363_369_357_359
608	GYALDLIDKL	P50750 CDK9 270_270_287_295
609	VQFLDNTATL	Q8WZ42 TITIN 9030_9031_9034_9041
610	MSDLLSILMT	Q8TC07 TBC15 456_461_439_442
611	NSKSLDIFTV	P07942 LAMB1 728_729_711_718
612	LELFVVGFSL	Q6UXU4 GSG1L 158_161_150_155
613	KSELFGETTL	O00468 AGRIN 1158_1165_1172_1173
614	VVTEYSTAVR	O75445 USH2A 3049_3053_3033_3037
615	VTTGELEYTWG	A6NED2 RCCD1 315_316_318_325
616	VYFAAAATLRD	Q6PK81 ZN773 22_24_2_8
617	IELLEKGVNLL	Q6UB35 C1TM 208_213_215_218
618	SHPDLTIFSL	P00395 COX1 137_139_144_150
619	IDSNLNDLAR	Q16760 DGKD 390_395_411_414
620	LGNQLEAKTR	P04180 LCAT 56_63_46_47
621	GEIQEIVKTI	P35606 COPB2 518_526_510_510
622	RCDVIKVLAII	Q9P2R7 SUCB1 383_387_369_373
623	EDHYPQGATI	P51854 TKTL1 534_540_517_519
624	ELQASLDLEL	Q6AWC2 WWC2 1086_1089_1066_1071
625	DATDWKVIAI	Q15181 IPYR 165_166_152_159
626	FEPGRLTEAL	Q86T96 RN180 191_192_175_182
627	AEHFLEAGEM	P49368 TCPG 109_114_102_105
628	SEMLYGLIHA	P67870 CSK2B 69_69_77_85
629	KDANIAIEFL	Q9NTJ3 SMC4 295_297_303_309
630	FTALCELPQL	A6NHZ5 LR14B 409_416_392_393
631	SKRGGLDTFTI	Q9NQ48 LZTL1 23_27_47_51
632	ENFIAKGFVL	Q3SY77 UD3A2 284_289_294_297
633	REAEFTVSTV	Q7Z408 CSMD2 3464_3464_3475_3483
634	PLLEAFGKTY	Q2M1P5 KIF7 77_82_99_102
635	DAVPNLIQRL	O43747 AP1G1 436_442_457_459
636	QRSYGSIDL	Q8WUY9 DEP1B 443_448_423_426
637	LLHTELISL	Q8NEU8 DP13B 98_103_83_86

638	GDSFYPITLK	Q9NZI5 GRHL1 267_269_279_285
639	TINEPILLDI	O43776 SYNC 430_437_418_419
640	EGVCRPLVRI	Q9Y2V7 COG6 351_357_359_361
641	PRRSGEITLL	Q96LA8 ANM6 350_352_338_344
642	GGWYFLATEV	Q86W50 MET16 106_106_126_134
643	LLEQTQRAAI	Q6ZSZ5 ARHGI 849_852_827_832
644	GNYVLFVEGF	O95180 CAC1H 1002_1007_1015_1018; Q9P0X4 CAC1I 849_854_862_865
645	NESIISEKPQ	P0C7W6 CC172 190_193_206_211
646	TIFHKVSSIL	P46094 XCR1 165_170_160_163
647	WKLDTADIAI	P53794 SC5A3 29_30_5_12
648	LGSEAIRTWL	Q58EX7 PKHG4 616_622_635_637
649	MGRSLDQETL	Q6XZF7 DNMBP 681_687_671_673
650	GDIIVPLIYF	Q8TCT8 SPP2A 411_416_392_395
651	GVETDIQELF	Q86V81 THOC4 101_104_121_126
652	VNLHPIQTTK	Q8TEU7 RPGF6 1187_1192_1166_1169
653	EAIRHVIVTI	Q29RF7 PDS5A 374_378_380_384
654	GRCSIPIFFL	Q96JI7 SPTCS 524_530_547_549
655	SGLLNLELFF	Q96JS3 PGBD1 407_412_424_427
656	VKELNIEVIV	O43511 S26A4 285_289_302_306
657	KEVKGEKLLL	Q9BYJ4 TRI34 82_85_101_106
658	AAAAEPRKGI	P32455 GBP1 457_459_449_455; Q9H0R5 GBP3 455_457_447_453
659	VADAKQKRNE	O14974 MYPT1 28_28_4_12
660	TGVEDLQWVL	Q92542 NICA 70_72_80_86
661	NGSDDRNTKR	P63151 ABA 351_354_370_375; Q00005 2ABB 347_350_366_371; Q9Y2T4 2ABG 347_350_366_371
662	REIRDAGLSF	Q9NW64 RBM22 123_125_97_103
663	LEGSETERFP	Q5T890 ER6L2 936_940_922_926
664	WAFESLADNL	Q06418 TYRO3 716_718_702_708
665	LDKQLLGEHL	Q13619 CUL4A 278_279_292_299; Q13620 CUL4B 432_433_446_453
666	VKLFDTPLPH	Q9UNU6 CP8B1 450_453_469_474
667	KEGEFVAQFL	Q9UQ80 PA2G4 311_319_301_301
668	VDIFSLFDVL	Q9NYU2 UGGG1 420_420_406_414
669	CVLHLVNEKI	Q9P2E7 PCD10 91_95_75_79
670	WLDGGSQFFI	A2BFH1 PAL4G 121_124_109_114; F5H284 PAL4D 121_124_109_114; P23284 PPIB 161_164_149_154; P30405 PPIF 163_166_151_156; P45877 PPIC 155_158_143_148; P62937 PPIA 121_124_109_114; Q9Y536 PAL4A 121_124_109_114
671	GTVKILLWIK	Q9UII4 HERC5 394_397_371_376
672	PETTVLARER	O75864 PPR37 475_478_456_461
673	SRQAQLKELV	Q8WYP5 ELYS 2160_2162_2138_2144
674	LEQLLDSNQL	Q96S53 TESK2 138_145_125_126
675	ERGLQTPMEL	A2VDF0 FUCM 87_93_79_81
676	FLHSSVKENI	Q6P3W7 SCYL2 167_173_182_184
677	LKEQLLSETL	B4DZS4 T11X1 94_100_117_119; P49454 CENPF 941_943_945_951
678	DGQRSLKEEL	Q9Y6R9 CCD61 166_168_153_159
679	VIWTFPLDLA	Q6ZUK4 TMM26 213_216_222_227
680	GWMKSLLNII	Q9NYC9 DYH9 1083_1086_1095_1100
681	SSNYDDCNIF	P11388 TOP2A 148_153_170_173; Q02880 TOP2B 169_174_191_194

682	GNNFLLRVNM	Q86UK0 ABCAC 1933_1933_1945_1953
683	EKDSALQQFI	O14787 TNPO2 816_820_797_801; Q92973 TNPO1 817_821_798_802
684	NLDQTFQVTI	P0C091 FREM3 2070_2072_2080_2086
685	LSCQPMLFQL	O75607 NPM3 103_109_114_116
686	NSNLIHQQLL	A8MQB9 YR007 210_211_194_201
687	TYMGHLLFTV	Q13347 EIF3I 47_51_24_28
688	LEGDETPLYF	P15559 NQO1 205_207_217_223
689	ARHRCGEELL	Q14CX5 TM180 261_264_237_242
690	AEYFGPDFKL	Q13547 HDAC1 317_317_335_343; Q92769 HDAC2 318_318_336_344
691	TNRKLADEQL	Q8NFV4 ABHDB 221_222_199_206
692	GVEREAKTWI	Q96IT6 ARAS1 25_25_12_20
693	TSAQAYWYSL	O60383 GDF9 270_275_278_281
694	EREASRLDTL	Q8WUA7 TB22A 192_199_175_176
695	KTELEKEITV	Q13439 GOGA4 613_617_603_607
696	GEWWKAQSAK	P06239 LCK 95_102_117_118
697	NFEEKENALV	Q15057 ACAP2 111_112_132_139
698	DATEKLYQLL	Q96DB5 RMD1 114_115_99_106
699	LSRGVEEEYI	Q96J02 ITCH 746_751_735_738
700	HMPDFVPQLL	Q00653 NFKB2 594_598_589_593
701	IDLPLTHFEL	P43686 PRS6B 196_197_183_190
702	IEIEQLLLL	O95249 GOSR1 72_78_57_59
703	QLKEAQLEQL	Q9BQS8 FYCO1 436_439_426_431
704	REIAEVNKLK	Q96HR3 MED30 140_146_148_150
705	AEHDYGLFLH	Q69YN4 VIR 1355_1362_1375_1376
706	TTMALIFEYI	Q495N2 S36A3 222_223_227_234
707	EKLNIVLPEF	Q71F23 CENPU 259_260_251_258
708	DWKAIMDIVI	Q9NZJ5 E2AK3 316_318_304_310
709	PCKDDDRKEV	Q9NUY8 TBC23 595_597_572_578
710	IDADELGYF	P30626 SORCN 49_53_35_39
711	REIKDFLLTA	P63173 RL38 3_3_7_15
712	ATMEIMKRNI	P31323 KAP3 397_398_389_396
713	VPENEKMFTL	Q9H4I0 RD21L 258_264_277_279
714	VAQIDFMQKQ	Q8NG31 CASC5 2104_2104_2111_2119
715	SQQLVENVFM	Q9Y5Y5 PEX16 78_82_92_96
716	LDYFGPDFKL	Q13547 HDAC1 320_321_336_343; Q92769 HDAC2 321_322_337_344
717	VYLSFDAFRP	Q8N2G6 ZCH24 24_27_37_42
718	RDKEVGNELR	Q9Y3Z3 SAMH1 352_357_345_348
719	YAQLFLEHSL	Q96D42 HAVR1 292_293_275_282
720	LESNEEYRAL	Q96JN2 CC136 257_259_237_243
721	GAELYFFHEL	P26639 SYTC 349_350_331_338
722	YPPSQKVFEM	Q8N5Z0 AADAT 102_106_123_127
723	EYKTIAQMIE	O75410 TACC1 644_645_647_654; O95359 TACC2 2788_2789_2791_2798
724	DIREEIKCHS	O94763 RMP 160_167_182_183
725	TDFGWEKPHI	P54687 BCAT1 54_55_66_73
726	FLEFAEAQKF	Q9H511 KLH31 199_204_191_194
727	TARGLHQWKH	Q9NRC6 SPTN5 2638_2644_2616_2618
728	ERIEKLELFG	Q8NCE2 MTMRE 55_59_62_66

729	EKFSESFESF	A1A4G5 LNP1 109_116_93_94
730	YVFSQLQQQL	Q9P2R3 ANFY1 381_388_391_392
731	EEFEYIPTDP	P86452 ZBED6 196_197_215_222
732	LEKEEKLLQL	Q96LP2 FA81B 343_345_351_357
733	RDPGPDRFQPR	Q08493 PDE4C 650_657_639_640
734	AERKEIEEKL	A2RUR9 C144A 1195_1196_1207_1214; Q8IYA2 C144C 1005_1006_1017_1024
735	LDTMPKQYHL	Q9HCE0 EPG5 1566_1573_1583_1584
736	PQLENIHLRQ	Q9Y6G5 COMDA 89_89_95_103
737	ERLFQEASRL	Q8WWI1 LMO7 690_694_677_681
738	YTVFGKQFFI	Q9H2H8 PPIL3 115_120_100_103
739	YEFLWGLRAP	Q96JG8 MAGD4 572_580_565_565
740	GHRQLHQETF	I3L3R5 CCER2 126_132_149_151
741	SKYFATYIFL	Q5BJD5 TM41B 103_104_117_124
742	PQDLLWMRLS	Q8N0W3 FUK 502_508_527_529
743	LKDYIEEELL	P33991 MCM4 687_691_678_682
744	RELEEARKLK	P35580 MYH10 1659_1665_1681_1683; Q9Y4G6 TLN2 2513_2520_2509_2510
745	EEFKEAFLF	P60660 MYL6 6_6_11_19
746	FEKRIPLQM	P06746 DPOLB 146_151_156_159
747	KELDWLQEII	Q9BUU2 MET22 264_269_285_288
748	LKEEEEWVKL	Q14008 CKAP5 211_213_215_221
749	NWKTELLEFH	Q4LE39 ARI4B 264_269_253_256
750	AEWKKEEELR	Q96HY6 DDRGK 154_161_163_164
751	EEIEEFKERL	P0DJ07 PT100 31_31_49_57
752	LEREERDLQR	Q9P2F5 STOX2 806_809_811_816
753	GHPATIVENI	Q96A28 SLAF9 70_75_50_53
754	REIFPQSLLL	P42338 PK3CB 566_572_576_578
755	PTAATAVSAVS	P0C0L5 CO4B 903_910_926_928
756	GEVVGIGVQGP	Q2UY09 COSA1 481_483_495_502
757	INAGALGNAVI	Q9UKX5 ITA11 641_643_625_632
758	VSESLGAAVGQ	Q9Y4D7 PLXD1 1220_1221_1238_1246
759	GQLMGLGLASA	Q5JZY3 EPHAA 745_750_753_757
760	VTGESSAGKAI	Q8IZF0 NALCN 1386_1389_1373_1379
761	VDLLGLHSGAG	O14976 GAK 881_888_891_893
762	VEGGGLAATLR	Q9HCQ5 GALT9 88_90_97_104
763	NGAPVYVGGLV	Q9Y2G3 AT11B 120_126_130_133
764	GLDATARAALV	F8WCM5 INSR2 78_85_88_90
765	SEAVSLILGAL	Q6ZS81 WDFY4 285_293_304_305
766	SVAAEAQSLSL	Q9ULL0 K1210 686_692_668_671
767	KKQPLASAAGL	O75190 DNJB6 308_310_294_301
768	LEAGVGRDVL	Q96LA8 ANM6 267_274_245_247
769	KSLIGLLAGTL	P51793 CLCN4 62_63_76_84
770	VDIKGSISGIV	P20585 MSH3 481_486_489_493
771	GDLFDALASAI	O15075 DCLK1 471_476_495_499
772	SAVLGLTALHL	P40238 TPOR 505_510_496_500
773	VNQQGADGITV	Q9NR99 MXRA5 654_660_665_668
774	NAAA VPSMTQL	Q9NRP7 STK36 1178_1178_1191_1200
775	NVTEICAVLAA	Q5JTH9 RRP12 104_106_123_130

776	ATSRPACAAQL	Q68DL7 CR063 348_351_353_359
777	GDLAFEGINGL	Q9UQ90 SPG7 50_53_72_78
778	VAMELVSSAEA	O95479 G6PE 275_279_283_288
779	VSGTLPDGHMP	O14639 ABLM1 681_683_690_697
780	AGSSALQLRLV	Q8IYW2 TTC40 1024_1029_1005_1009
781	ASRAGIDSLLI	Q8NGK0 O51G2 234_237_213_219
782	VGVTQGKSTQI	Q9H5Z1 DHX35 103_107_82_87
783	ADGVKSSIFTV	Q9GZT4 SRR 237_243_259_262
784	GSMLVTLGFSI	Q9NY91 SC5A4 536_543_529_531
785	GPLPNTKTQGI	Q03692 COAA1 33_41_30_31
786	RTWGDLGAAAL	P31323 KAP3 56_65_39_39
787	RTGEGAVDITL	Q9UJX4 APC5 46_52_72_75
788	IESQALLTISG	Q8HWS3 RFX6 413_414_423_431
789	GSVPLPNPLEI	O75746 CMC1 422_427_445_449
790	GNAPGELLPLR	Q9H8Y1 VRTN 484_485_493_501
791	LELPGSLLTPVI	Q9H2S9 IKZF4 413_418_395_399
792	VVGAYQASSIF	Q8NGJ0 OR5A1 148_152_162_167
793	PWQASVVLTAAT	Q2L4Q9 PRS53 49_54_72_76
794	PDLGSSVSARR	Q2KHM9 K0753 81_88_104_106
795	LEGDVAEVTVI	Q9P2G3 KLH14 602_608_616_619
796	STERGAQVQVA	P57721 PCBP3 173_176_160_166; P57723 PCBP4 145_148_132_138; Q15365 PCBP1 141_144_128_134; Q15366 PCBP2 141_144_128_134
797	DTIGGNILVIM	P28335 SHT2C 50_50_67_76
798	DGSVKNILLGM	O75914 PAK3 413_417_407_412; Q13153 PAK1 400_404_394_399
799	VKECNVGASKI	Q9NW15 ANO10 89_93_72_77
800	VIEFTNGSLNG	Q9NSD5 S6A13 183_186_168_174
801	NGFSLNLNTVL	P08F94 PKHD1 1466_1467_1456_1464
802	FTSSADLKLGL	Q5T2R2 DPS1 312_314_324_331
803	SEIPKLPAVSL	O96009 NAPSA 318_327_299_299
804	PASSARNKAPR	Q6ZMI3 GLDN 86_93_75_77
805	VLLKEEGSLLK	Q9ULE4 F184B 568_573_581_585
806	DTRIAAGNNLL	O14981 BTAF1 57_63_41_44
807	ICNLLGEAVLL	Q69YI7 NAIF1 132_139_123_125
808	TPNSSSLINLL	Q8TDJ6 DMXL2 2311_2314_2323_2329
809	GVEILTPLFGL	P16442 BGAT 221_230_201_201
810	TLRDEGKAGTI	P15170 ERF3A 478_484_460_463; Q8IYD1 ERF3B 607_613_589_592
811	ANSLLSTVKDI	P60508 EFRD1 89_97_102_103
812	GKFSIDSPEAI	Q01974 ROR2 667_673_661_664
813	GGKEFLEAVSQ	Q9P0M6 H2AW 237_243_261_264
814	MVEAILSVCVT	Q9H1H9 KI13A 1047_1054_1058_1060
815	CQPPGPEQAEL	P41182 BCL6 414_417_394_400
816	ENPGLGLLNIE	Q9HA65 TBC17 393_401_375_376
817	VELLPGEEGVQ	Q9P2S6 ANKY1 601_603_592_599
818	IISLPDSDKAI	Q9BXL7 CAR11 286_287_293_301
819	LGS GWGEIIKL	Q8IZD9 DOCK3 464_467_487_493
820	LDDDARGTVVLL	P26010 ITB7 683_684_704_712

821	DLNGNQTVTVI	P43307 SSRA 179_182_191_197
822	GEAELNWSAVV	Q96CX6 LRC58 12_19_7_9
823	PTTNTSALTIR	Q2KHR2 RFX7 350_352_341_348
824	GEFGGFGSVRY	Q09028 RBBP4 103_111_131_132; Q16576 RBBP7 102_110_130_131
825	VSDENSLIGKN	O94916 NFAT5 482_487_465_469
826	KFQAPLTALNEG	Q8TD55 PKHO2 98_103_113_117
827	VCGILPGEKPY	Q9HBT7 ZN287 365_367_354_361
828	CGRTGDLLFLS	Q8N490 PNKD 260_263_252_258
829	DKSTAHitvvl	Q8NGA8 O4F17 224_226_234_241; Q8NH21 OR4F5 224_226_234_241; Q96R69 OR4F4 224_226_234_241
830	GETFILTHRGG	Q7L945 ZN627 173_177_187_192
831	SAVFSSSDIYL	Q8NF50 DOCK8 331_335_340_345
832	PTGFLGSKPER	Q8NDY3 ARHL1 167_173_145_148
833	VTFQKD LGNA	Q9BZJ0 CRNL1 5_5_9_18
834	TSLSKGKFVN	Q719I0 AHSA2 33_40_22_24
835	QMVT ALETCSI	Q6UWM7 LCTL 537_540_516_522
836	R GALC LEGETF	O76076 WISP2 87_92_109_113
837	VILNPVNTNSK	Q9NQT8 KI13B 35_43_45_46
838	SIPTIAEPLIF	Q8NH61 O51F2 42_44_19_26
839	NMQTCQVLGV	Q96DN5 TBC31 292_296_277_282
840	QKGILD SCKL	P50991 TCPD 125_128_117_123
841	GRGAEHQQEIS	Q9Y5S2 MRCKB 670_673_678_684
842	SSFYLADIALL	Q6PIS1 S23A3 441_448_464_466
843	PDVAVTKL KEL	Q8WTT2 NOC3L 248_253_235_239
844	VAPEEGIVTNW	P60709 ACTB 96_100_74_79; P63261 ACTG 96_100_74_79
845	GDAIENLK NEL	Q8IWJ2 GCC2 114_116_131_138
846	PKGCAQFIELL	Q6PIJ6 FBX38 468_472_447_452
847	YSVVPENTVTL	P78527 PRKDC 3791_3795_3807_3812
848	ERGLSGQYVTL	Q8N6Y1 PCD20 107_107_124_133
849	AVSLQR SFMAL	Q14444 CAPR1 95_97_112_119
850	HTSVDLPK QSI	O94887 FARP2 373_376_382_388
851	QPELENLVSSL	P24821 TENA 149_150_128_136
852	PQEKE MGLKIG	P05106 ITB3 433_437_413_418
853	LEAGLLTEKQK	P09486 SPRC 206_209_187_193
854	EEVLIKNGESL	Q8WXE1 ATRIP 133_141_148_149
855	PMIREGDTVTL	P20273 CD22 429_430_432_440
856	IDTILD KAMVL	Q13618 CUL3 392_393_410_418
857	ISANEAKLFQL	O14681 EI24 275_281_288_291
858	VLELF SNIWG G	Q9UGP5 DPOLL 334_343_320_320
859	LDSH LSDQ LTL	Q5UCC4 EMC10 119_120_140_148
860	IDDPETLG RLL	Q92503 S14L1 452_454_426_433
861	PEVILA EYPLV	Q2PZI1 D19L1 109_114_94_98
862	VQESASQALWQ	Q9ULE4 F184B 260_264_241_246
863	LSGYDRAAHFL	Q9UJX2 CDC23 124_126_99_106
864	SSKIADKIFQL	Q2UY09 COSA1 58_62_76_81
865	TRE LIGD LLQV	Q9Y616 IRAK3 69_72_83_89
866	PEQGN VVFQ KI	Q7Z2Z2 ETUD1 227_234_254_256

867	VVVITDIFLNE	Q8NGS2 OR1J2 204_208_191_196
868	ESIKISNPTEF	Q9BXS6 NUSAP 123_124_108_116
869	QESASRYAELL	Q6ZUS5 CC121 73_81_90_91
870	NFDVGHVIRLP	P50579 MAP2 386_392_394_397
871	QSKQLPVQLDL	Q96T21 SEBP2 428_430_445_452
872	LENLLSETPKM	Q8NGP3 OR5M9 80_86_76_79
873	IGDILEEIILF	Q969T7 SNT3B 159_167_152_153
874	DNDLTESVREV	Q6ZQQ2 S31D1 1072_1080_1099_1100
875	VLSQQAYVLFN	Q9H9J4 UBP42 399_408_380_380
876	AEPTDEEKQKI	Q2V2M9 FHOD3 1030_1031_1007_1015
877	GERLFPLIQSM	P11940 PABP1 563_571_548_549; Q13310 PABP4 572_580_557_558
878	RESLNQSLFSI	P28069 PIT1 268_269_275_283
879	GLSKYLDEEEL	P0CE71 OCM2 35_38_58_64; P0CE72 ONCO 35_38_58_64
880	REGRILPKEAK	Q8NDH2 CC168 262_268_251_254
881	KEILVTVGYLY	Q6YP21 KAT3 126_133_112_114
882	ITLDLDDRQTL	Q14114 LRP8 589_594_574_578
883	SLHSEDFLILQ	Q6ZS81 WDFY4 2364_2371_2380_2382
884	LEELWQGVSQL	P11277 SPTB1 1039_1045_1060_1063
885	EAMVVVISYVYK	Q5VZQ5 TEX36 133_137_127_132
886	VQKEGKIEDKK	Q9Y5P8 P2R3B 366_372_385_388
887	VKEDVDEFVIL	Q9H714 K226L 294_296_301_308
888	AEIEKFDKSLK	O14604 TYB4Y 8_16_18_19; P62328 TYB4 8_16_18_19
889	PTSFLLCFYNL	Q9GZP7 VN1R1 82_83_64_72
890	DNIQLSRDMTM	Q13347 EIF3I 209_210_194_202
891	VEYFPEESSKL	Q460N5 PAR14 261_269_245_246
892	REGDLLTKEIR	Q7L576 CYFP1 1076_1084_1100_1101; Q96F07 CYFP2 1100_1108_1124_1125
893	ELWLWLDKSKSSF	Q9BRG1 VPS25 80_81_89_97
894	LSKDYIDQEEL	Q14204 DYHC1 2877_2882_2885_2889
895	VRRLLMNELLTI	Q8N8C0 ZN781 281_286_264_268
896	YKENEFAEVFL	O95373 IPO7 311_313_286_293
897	KEHEVEKMYLT	Q96AX1 VP33A 56_63_41_43
898	REFEDQKLTFF	Q8TCB7 MELT6 74_82_95_96
899	PSTASTGAAITL	Q7Z5P9 MUC19 1085_1088_1073_1080
900	LKIGGSVGGHLG	Q9Y330 ZBT12 223_224_235_244
901	SPGSPGRPGSVL	Q96JH8 RADIL 815_824_839_840
902	GGAADAPLPPVR	Q8WZ71 TM158 20_25_14_19
903	GGNKKQAAGVIS	Q96T37 RBM15 909_912_898_905
904	VALLGPGLQGVK	Q5VXM1 CDCP2 13_21_27_29
905	PISGDPVAGNKL	Q14896 MYPC3 672_677_662_667
906	AGVSLPGILEVI	Q86XA0 MELT23 31_39_46_48
907	VQDAGDVMSGLV	Q9H2B4 S26A1 50_52_70_78
908	VASLSCAGEFTL	Q53H54 TYW2 228_236_248_250
909	AASGSPVRPLVF	Q96EX3 WDR34 453_456_444_451
910	SKLGTEIAASLL	Q86UK0 ABCAC 495_496_479_488
911	SVEDGAISTIVL	P50990 TCPQ 349_350_368_377
912	VTLGEVSSLPTT	P43357 MAGA3 48_53_69_74; P43360 MAGA6 48_53_69_74
913	VTASDAGAIVFR	Q6V1P9 PCD23 79_84_60_65

914	DASLSASPHLVL	Q12950 FOXD4 317_322_296_301; Q3SYB3 FX4L6 321_326_300_305; Q5VV16 FX4L5 321_326_300_305; Q6VB84 FX4L3 321_326_300_305; Q6VB85 FX4L2 321_326_300_305; Q8WXT5 FX4L4 321_326_300_305
915	GSSNGDITSFLL	P36980 FHR2 171_173_157_165
916	TSPIKALSNGLL	Q15477 SKIV2 359_367_381_383
917	KEKDGETSGSAL	Q5T4S7 UBR4 3377_3386_3394_3395
918	DSGRSAFIGIGF	Q8NC96 NECP1 87_88_101_110
919	RAGEKGVADVAR	Q86XP3 DDX42 591_598_574_577
920	VNTGDINITAIV	P32926 DSG3 90_90_105_115
921	GGTVTDVRLPCN	Q8TD84 DSCL1 1296_1300_1306_1312
922	VAGKFDPAKSVI	P19823 ITIH2 529_537_543_545
923	GASQLEKLF GAL	O43151 TET3 1436_1440_1455_1461
924	VNLSQLVTGAQ	Q6ZU35 K1211 608_612_596_602
925	KLG SSEKLFGAL	O43151 TET3 1462_1462_1451_1461
926	ANCKLGAVFQSL	Q6ZVT6 CC067 37_41_24_30
927	VLQQGNQTAARA	Q92185 SIA8A 61_65_71_77
928	ADSRNSNGAIQKI	O60763 USO1 176_178_195_203
929	GDLVKLAEAFQA	Q86Z14 KLOTB 682_687_667_672
930	QPEAYGAVTQTV	Q15126 PMVK 101_102_120_129
931	EKCALFNSVSPA	Q8NFJ8 BHE22 361_370_355_356
932	RELGSPEQPGVI	Q14807 KIF22 159_160_138_147
933	RDPTVMAPLTAL	P78527 PRKDC 2072_2076_2094_2100
934	VTGFFSQGIHSL	O94822 LTN1 1326_1328_1310_1318
935	PNGLTLDYVTSL	Q07954 LRP1 3191_3200_3217_3218
936	RDGS AFVILSDL	Q6DN12 MCTP2 264_265_273_282
937	GYAISEFSEGSF	O75037 KI21B 1102_1104_1110_1118
938	MEFGGDLEALRG	P39060 COIA1 886_887_891_900
939	GRLSSEFQIPTA	Q7L513 FCRLA 213_214_221_230
940	QAGDVITEMETI	Q9Y230 RUVB2 188_193_166_171
941	GEYFP GTGDLRV	Q13547 HDAC1 202_212_183_183; Q92769 HDAC2 203_212_193_194
942	PQDDDAKSSPVR	O95359 TACC2 2536_2541_2560_2565
943	PREALQPHLPSA	Q86Y56 HEAT2 464_472_448_450
944	KSNLLKMHGCSL	Q5TBE3 CI153 39_47_21_23
945	IERAKADLMQSA	Q96M95 CCD42 196_201_184_189
946	QSAIAQDFKTDL	P84243 H33 86_88_75_83
947	LKETTEGQVQVL	Q9UI26 IPO11 737_739_741_749
948	LESGDRIRTGEI	Q5VTT5 MYOM3 1261_1270_1275_1276
949	GLDQEIPFVFA L	Q93073 SBP2L 751_753_766_774
950	GGDIFPDENFKL	P45877 PPIC 98_101_117_124
951	LKEDEVG DLLQL	O15270 SPTC2 525_527_529_537
952	SKSPARKDFQTL	A6NCN8 YL021 291_297_269_273
953	PPEVINYADYSL	Q7L8C5 SYT13 73_73_92_102
954	LDQFH EG DVITL	Q99961 SH3G1 306_308_327_335
955	ELVNYGKQPLL L	B5ME19 EIFCL 21_23_30_38; Q99613 EIF3C 21_23_30_38
956	QTNLQADFKISE	P54577 SYYC 507_509_491_499
957	VEFFDEKLEAAT	P30153 2AAA 436_443_460_463; P30154 2AAB 448_455_472_475
958	RVFEALSELJIL	Q16850 CP51A 216_216_194_204

959	MMLIQATIAFHQ	Q96DT5 DYH11 2700_2701_2689_2698
960	KEFLGENISNFL	O14791 APOL1 246_246_256_266
961	GEWDLPEAVQIR	Q9BW92 SYTM 692_701_683_684
962	IQMVLLEEDLLII	Q8N357 S35F6 192_198_180_184
963	KELTELLLWVYG	Q9NQV8 PRDM8 132_137_126_131
964	SEFDRQAEITLR	Q9Y371 SHLB1 200_209_195_196
965	VEYRSLQLQELD	O60759 CYTIP 190_199_218_219
966	EDFLDILYDISR	P24043 LAMA2 1327_1336_1352_1353

## C1R EThcD 1D – non-spliced peptides

#	sequence	origin
1	GPGPLNVGL	Q8N831 TSYL6 192_200
2	VEGPGGRPL	O43566 RGS14 232_240
3	GEVEGRAGL	Q9C0G0 ZN407 2000_2008
4	GEAGITRSV	Q7Z2W4 ZCCHV 56_64
5	HEGLPGLAV	P49327 FAS 2050_2058
6	AERPGEAAV	P29966 MARCS 16_24
7	KELGVGIAL	Q01469 FABP5 24_32
8	SEGPKVVSV	Q8N1G0 ZN687 380_388
9	KEIGDIAGV	Q00403 TF2B 272_280
10	SEVGKLLSA	Q9H977 WDR54 262_270
11	AEKLGFAGL	P48643 TCPE 350_358
12	AEPGPRPAL	Q9BXI6 TB10A 396_404
13	KEAPAPPKA	P62750 RL23A 7_15
14	FESSGGRGL	Q8WYH8 ING5 120_128
15	GEHPVGGF	Q9H0F5 RNF38 316_324
16	REGPGGLVM	Q15027 ACAP1 260_268
17	REGEGLSL	Q9HCE1 MOV10 985_993
18	KEFPGLAGV	Q8NBS9 TXND5 366_374
19	ADFKAGKAL	Q8WU90 ZC3HF 279_287
20	GEGTGRVV	P49760 CLK2 170_178
21	REAGLILGV	Q9Y5T4 DJC15 95_103
22	SEAPGQRAL	Q04637 IF4G1 1430_1438
23	AEADKIGLL	Q96E52 OMA1 393_401
24	AETRAGLTL	P69849 NOMO3 471_479; Q15155 NOMO1 471_479; Q5JPE7 NOMO2 471_479
25	GQLKGFAVL	Q8IY67 RAVR1 259_267
26	GESATLRSL	Q15649 ZNHI3 96_104
27	VEHLAGVPL	Q9UII4 HERC5 185_193
28	SEISSATKL	P46100 ATRX 381_389
29	GEGHLVLLV	Q6DN14 MCTP1 574_582
30	SDFGLSKAL	P43403 ZAP70 478_486; P43405 KSYK 511_519
31	LEARGILGL	Q99741 CDC6 513_521
32	LDIAAVRAL	P43246 MSH2 302_310
33	AEGLLQEAL	O14579 COPE 235_243
34	VEMPLTGKA	Q8WUQ7 CATIN 623_631
35	GEEKLIASV	Q13868 EXOS2 48_56
36	VEATGEKVL	Q9UBK9 UXT 10_18
37	AEASMISKL	Q13616 CUL1 484_492
38	GEMTLKSAL	P25789 PSA4 182_190
39	GEVFSKLGL	Q92545 TM131 1735_1743
40	RDHAVVVGV	A6NHQ2 FBLL1 316_324; P22087 FBRL 304_312
41	SFD SALQSV	P49792 RBP2 261_269
42	FESGDVKAT	Q9H0A8 COMD4 60_68
43	HEAAFPIAV	Q53GS7 GLE1 496_504
44	KEGKPPISV	Q9BXS5 AP1M1 370_378

45	AEKAGMVHL	Q96E52 OMA1 338_346
46	AETLPALKI	O43252 PAPS1 251_259
47	VEVSIPAKL	Q00341 VIGLN 656_664
48	IEIAGVKLL	Q9UKF6 CPSF3 167_175
49	KEGGVQLLL	Q16181 SEPT7 101_109
50	GEVVKIAQL	Q96L91 EP400 1601_1609
51	AERLVAGKL	P04843 RPN1 569_577
52	GELVALKKV	Q9NYV4 CDK12 750_758
53	AEKGPMIVL	Q99741 CDC6 273_281
54	KEIGADLVL	Q00796 DHSO 214_222
55	GELSLARVL	Q13905 RPGF1 793_801
56	AEFVGVSHL	Q9ULX3 NOB1 95_103
57	GEKVNIISV	Q9BY44 EIF2A 56_64
58	SEAKKLLGL	P49321 NASP 41_49
59	HESACGRTV	Q13077 TRAF1 281_289
60	TEVGEKIAL	P41091 IF2G 435_443; Q2VIR3 IF2GL 435_443
61	GELSKVTKV	P51970 NDUA8 123_131
62	GEISTIDKV	P13674 P4HA1 197_205
63	KADGVPVYL	O14548 COX7R 69_77
64	TESSLLAKL	P33981 TTK 360_368
65	SEVSKIVTV	Q562F6 SGOL2 370_378
66	AEFIVAKAI	O43242 PSMD3 434_442
67	FEQGGARVV	Q86U28 ISCA2 99_107
68	AEGDVFRGL	Q02252 MMSA 134_142
69	SEAFVIKGL	Q9ULT0 TTC7A 166_174
70	GELVHPKAL	Q5SSJ5 HP1B3 8_16
71	NGKYILSGL	Q4LDE5 SVEP1 1913_1921
72	GELSLPVHL	Q9NSG2 CA112 392_400
73	LESGGFRSL	P32322 P5CR1 245_253; Q96C36 P5CR2 245_253
74	GKSLFEVSV	Q3MIT2 PUS10 204_212
75	GEEGYGRSL	Q9UJX4 APC5 292_300
76	QPGPLTLEL	Q12836 ZP4 311_319
77	GEPITIPKL	Q96PD7 DGAT2 339_347
78	GEHTLLVTV	Q0VGL1 LTOR4 71_79
79	KEKLIAPVA	P07195 LDHB 5_13
80	KDDVVLPAL	Q8TC07 TBC15 155_163
81	GEALPFSHL	Q9BRQ8 AIFM2 97_105
82	KELLGQGLL	B5ME19 EIFCL 644_652; Q99613 EIF3C 643_651
83	VEEPSRPSA	Q08050 FOXM1 219_227
84	AELAERLGL	Q00653 NFKB2 792_800
85	LEVGDIVKV	P46109 CRKL 258_266
86	AEVAKLLDL	P56192 SYMC 871_879
87	AEKNGLVKI	P08195 F2 138_146
88	AENGLTVRL	Q12789 TF3C1 1148_1156
89	SEQIGIVKV	O75592 MYCB2 2451_2459
90	AESLIAKKI	P78371 TCPB 113_121
91	HEIGFGSKV	Q99497 PARK7 115_123

92	AEKVEIATL	P25789 PSA4 208_216
93	GESLLIKTL	Q96F81 DISP1 1516_1524
94	TEKTVLVAL	O95239 KIF4A 177_185; Q2VIQ3 KIF4B 177_185
95	SVAIEVIED	Q96PZ0 PUS7 191_199
96	KEKVSTAVL	Q99460 PSMD1 825_833
97	ADFGAGVERL	P78371 TCPB 315_323
98	TEIEKSISA	Q02223 TNR17 175_183
99	TERANSMGL	P37268 FDFT 201_209
100	AEGFTKLTL	Q9NXR7 BRE 291_299
101	HEAVKAIVL	O43861 ATP9B 542_550
102	HDVNLGRAV	Q6P2Q9 PRP8 1145_1153
103	HEWLAGVGL	P13807 GYS1 180_188
104	LELGPKPEV	P53621 COPA 1129_1137
105	GEAHLKTIL	Q9Y315 DEOC 183_191
106	SEHLAAIEI	P41091 IF2G 171_179; Q2VIR3 IF2GL 171_179
107	SLPKKLALL	Q9UNZ5 L10K 72_80
108	AELTGDHQL	O75643 U520 567_575
109	GEDTGRVHL	Q5HYK7 SH319 458_466
110	GELPLVKEV	Q10570 CPSF1 841_849
111	SDLISIHSL	O60449 LY75 394_402
112	REVGQLIGL	Q7Z7L9 ZSCA2 204_212
113	KEGLPTRAL	P49454 CENPF 9_17
114	KEKVPGITI	Q5VV42 CDKAL 350_358
115	IFDGNVAHI	P46939 UTRO 1656_1664
116	AEGDLVRL	Q15080 NCF4 290_298
117	VFDATAIAHL	O43255 SIAH2 298_306
118	AEWLGVLK	Q93074 MED12 1090_1098
119	SELKKVVAL	Q06187 BTK 214_222
120	VFDVSHNAV	O95486 SC24A 509_517
121	AFEAIPRAL	P50990 TCPQ 444_452
122	KEGDIVTLI	Q96B97 SH3K1 289_297
123	GETEVLKVI	O95478 NSA2 128_136
124	GEVSARQEL	P13639 EF2 620_628
125	SEKISLQAI	O75694 NU155 773_781
126	GEVPKFKAL	Q9ULW0 TPX2 561_569
127	TELKGLSKI	P16615 AT2A2 457_465
128	SEQSLGQKL	P33991 MCM4 142_150
129	KESIPFAVV	Q8WYJ6 SEPT1 220_228
130	TETLALTKL	Q5UIP0 RIF1 331_339
131	AEIYGVTH	Q9HCS7 SYF1 640_648
132	HEDLGHVAL	O95714 HERC2 1447_1455; Q9BVR0 HRC23 174_182
133	LERMGANSL	P52272 HNRPM 568_576
134	GDFALINKL	O95260 ATE1 126_134
135	GEIKVLQGF	Q9HD26 GOPC 413_421
136	FPGSEDVKL	P11926 DCOR 238_246
137	SEATLLNML	P05388 RLA0 170_178; Q8NHW5 RLA0L 170_178
138	FEGAVIRT	Q14692 BMS1 1056_1064

139	GEVLGITRF	O14802 RPC1 1298_1306
140	GETAFAFHL	Q9BQ83 SLX1 103_111
141	AEFAERTVA	P67936 TPM4 203_211
142	GEAVRDFSL	O94759 TRPM2 219_227
143	REFGAGPLF	O75533 SF3B1 524_532
144	SEKGVDFVL	P09917 LOX5 172_180
145	TEKGDFLAL	P52789 HGX2 523_531
146	GELPEHAKI	O14602 IF1AY 107_115; P47813 IF1AX 107_115
147	GESLIRTAF	Q7Z3U7 MON2 919_927
148	IESKAAYVL	P51784 UBP11 917_925
149	GEHGLIIRV	O43847 NRDC 754_762
150	REPVLPLGL	A5PL33 KRBA1 437_445
151	SERFGEASL	Q6NSZ9 ZSC25 293_301
152	TEHVLGVQL	Q9H6L2 TM231 129_137
153	GEHVKAIEI	Q9HBG6 IF122 775_783
154	KEIPLIIL	P48200 IREB2 836_844
155	NEASVLHNL	A7E2Y1 MYH7B 96_104; P35579 MYH9 93_101; P35580 MYH10 97_105; P35749 MYH11 97_105; Q7Z406 MYH14 117_125
156	LEHEGLVSL	Q53GL7 PAR10 357_365
157	QEAPALVRL	Q2VPB7 AP5B1 658_666
158	SEHGINIDL	P18583 SON 1526_1534
159	YEAAKVFGL	P41252 SYIC 1212_1220
160	TEVLKTHGL	P40429 RL13A 193_201
161	AEDPERPNA	Q8N594 MPND 27_35
162	SEVMGEPHL	Q9Y244 POMP 124_132
163	LEAVFIHGL	Q9Y4G2 PKHM1 54_62
164	GEPTLRRAV	Q13200 PSMD2 682_690
165	TEIKKIPGI	P49915 GUAA 667_675
166	AEALKKLIL	P33991 MCM4 802_810
167	HETGTKITI	Q9Y6M1 IF2B2 302_310
168	IDGLLIDQI	P82650 RT22 281_289
169	VEKLPITSL	Q96EF0 MTMR8 58_66
170	VEHPGHPEV	P18583 SON 522_530
171	AEVDKVARL	Q9UNK9 ANGE1 412_420
172	KDFGSIFST	O95347 SMC2 1039_1047
173	IERIDGVSL	Q6DKI1 RL7L 93_101
174	REGITVIDV	Q5JUQ0 FA78A 35_43
175	VDTSLPRTL	Q15029 U5S1 388_396
176	KEGDLITLL	Q9UQB8 BAIP2 397_405
177	SEKDLILAL	Q9BYT1 S17A9 207_215
178	SERVVSVLL	O14521 DHSD 68_76
179	VEKKSVAKL	O14818 PSA7 45_53; Q8TAA3 PSA7L 47_55
180	SEMPAAKRL	P35269 T2FA 415_423
181	IEKMLGEAL	Q9NWT6 HIF1N 322_330
182	KEGLVMVEV	Q7KZF4 SND1 857_865
183	TEKIISIEL	P29375 KDM5A 1292_1300
184	GEFIIGRVI	P48059 LIMS1 75_83; Q7Z4I7 LIMS2 80_88

185	AEHSTVITF	Q709C8 VP13C 2959_2967; Q96RL7 VP13A 2396_2404
186	SESSVKVRL	Q8IUR7 ARMC8 394_402
187	TESTARVEL	O00267 SPT5H 728_736
188	TFDVAPSRL	P69849 NOMO3 301_309; Q15155 NOMO1 301_309; Q5JPE7 NOMO2 301_309
189	GEFAKVLEL	P30153 2AAA 190_198; P30154 2AAB 202_210
190	LEKVGSIFL	Q86VX2 COMD7 150_158
191	KEHGVPILI	Q9HD26 GOPC 307_315
192	YEEGPGKNL	P15954 COX7C 19_27
193	FEKQSPSAL	A2RRP1 NBAS 1561_1569
194	TEAVFKKAL	Q9NYH9 UTP6 457_465
195	SEKFIKAAI	P11388 TOP2A 395_403
196	AELMRSMGL	Q96RS0 TGS1 91_99
197	KEDVSSIVM	Q8NF91 SYNE1 7093_7101
198	SETTTRISL	Q9NSG2 CA112 371_379
199	HPEKLATVL	Q9NV06 DCA13 75_83
200	HEGIVHDAM	O75592 MYCB2 3003_3011
201	HPDVLPFAL	Q9NU22 MDN1 105_113
202	HEAAARIQL	Q96JI7 SPTCS 2235_2243
203	IEKDIAAHI	P63167 DYL1 34_42
204	VDTAVRHVL	P23396 RS3 168_176
205	VEHPVEMGL	Q7Z7L1 SLN11 67_75
206	AEVLNKHSL	P52272 HNRPM 129_137
207	ADVVLQPRL	Q10713 MPPA 168_176
208	KFDDGAVFL	O14974 MYPT1 37_45
209	GEYFAIKAL	Q05655 KPCD 372_380
210	EEHSIATLL	Q96RS6 NUDC1 176_184
211	PEFPIAPEI	Q15369 ELOC 91_99
212	GEESKRPL	Q9BW66 CINP 128_136
213	AEEPKARVL	P30305 MPIP2 363_371
214	GEKFEFSGL	P55160 NCKPL 477_485
215	NEFHSPIGL	Q06413 MEF2C 441_449
216	HEAPGTFRV	Q8TDB6 DTX3L 48_56
217	FEAVLQHGL	Q8TEQ0 SNX29 49_57
218	VTDPVVVDL	P56556 NDUA6 99_107
219	GESNKIPRL	P10124 SRGN 62_70
220	RERGGVINL	Q9UJA5 TRM6 415_423
221	AEELLRIGL	P50990 TCPQ 115_123
222	LEKAVVLEL	O14503 BHE40 91_99; Q9C0J9 BHE41 83_91
223	GEKVKQVLL	Q14254 FLOT2 303_311
224	VEAIRLVTL	Q8WVM7 STAG1 391_399
225	AELQEVVVKV	Q99459 CDC5L 305_313
226	FEITPPVVL	P06748 NPM 92_100
227	RERLVATAV	Q9BTZ2 DHRS4 96_104
228	GETVKIVRI	Q8N3R9 MPP5 251_259
229	VEDPERPAC	O94759 TRPM2 541_549
230	REEGTPPLTL	Q9Y3T9 NOC2L 609_617
231	REGDVITII	Q6XZF7 DNMBP 167_175

232	AEKELVTII	Q9Y248 PSF2 10_18
233	AERLTLLTV	Q99704 DOK1 180_188
234	SELVQKAKL	P31946 I433B 6_14
235	TEHGEFLAL	P52789 HXK2 75_83
236	TEIEKARAV	Q14690 RRP5 1633_1641
237	GEVEKLLKT	O43747 AP1G1 140_148
238	KEDSKLIAL	Q86UV5 UBP48 790_798
239	KESELLKGL	O75150 BRE1B 647_655
240	TEAVVKEKL	Q01082 SPTB2 1347_1355
241	AETEPIVKM	P60228 EIF3E 86_94
242	TELDRSLASL	P35869 AHR 45_53
243	KDFPDLAVL	Q9UJY4 GGA2 602_610
244	LEKALDVMV	P26447 S10A4 5_13
245	REVTFVPGL	P11388 TOP2A 73_81; Q02880 TOP2B 94_102
246	RMFGIPVVV	P11586 C1TC 746_754
247	GEWDKALSI	Q8IZU2 WDR17 843_851
248	TEIEGTQKL	Q14289 FAK2 937_945
249	AEKALFRAL	O00567 NOP56 331_339; Q9Y2X3 NOP58 321_329
250	IEAEGLKEM	Q8IXJ9 ASXL1 38_46
251	VFDEAIRAV	P15153 RAC2 168_176; P60763 RAC3 168_176; P63000 RAC1 168_176
252	REGLLFTAL	O95977 S1PR4 121_129
253	SEALGFEHM	Q9NY93 DDX56 4_12
254	HEFGAITFV	P13196 HEM1 402_410
255	IEKASQVVF	Q15058 KIF14 374_382
256	QEHSIGIFGF	Q16774 KGUA 26_34
257	NEMFPSAIL	Q8IWC1 MA7D3 757_765
258	DEFSGVLRV	Q9NZJ4 SACS 2086_2094
259	GDFLVRDSL	O75815 BCAR3 172_180
260	GESKDLLFI	Q16531 DDB1 71_79
261	GELKELYGL	Q8N6N7 ACBD7 24_32
262	RELGFSSNL	O60613 SEP15 39_47
263	KEFDGKSLV	P08238 HS90B 526_534; Q58FF7 H90B3 399_407; Q58FF8 H90B2 299_307
264	LEHVPDTVL	Q8N3Y1 FBXW8 205_213
265	REATGKITF	O15182 CETN3 75_83
266	YEVAVRKSA	Q15067 ACOX1 60_68
267	VEHANIIKV	Q96RG2 PASK 1059_1067
268	GEFADPFKL	O75694 NU155 1190_1198
269	AEASMFRVL	Q15910 EZH2 435_443
270	RYDLGGLVM	Q15274 NADC 161_169
271	HEIPSLQSI	Q5T4S7 UBR4 1113_1121
272	KDLGYPFAL	O14777 NDC80 156_164
273	AEAFVRAFL	O95707 RPP29 27_35
274	IDFSKLTSL	O95758 PTBP3 253_261; P26599 PTBP1 255_263
275	LDVVLPVRL	O15552 FFAR2 173_181
276	IEATKNHVL	Q9BZE1 RM37 245_253
277	KDNLIVPIL	Q9Y3A3 PHOCN 203_211
278	YEKLGSTDL	Q9HD20 AT131 639_647

279	LFDLGGQYL	Q9UHX1 PUF60 289_297
280	YELGRAVAF	O43598 DNPH1 103_111
281	HEVLVTTKV	Q8IX18 DHX40 671_679
282	LEKNKIPAL	P42695 CNDD3 1212_1220
283	KEAPPMEKP	P62841 RS15 65_73
284	NEVSVKHTL	Q8IWZ6 BBS7 598_606
285	AEINNIIKI	P11388 TOP2A 505_513; Q02880 TOP2B 526_534
286	REAVAKQLL	O95602 RPA1 515_523
287	KEGEEQPVL	O95071 UBR5 2120_2128
288	HETLFILGV	Q9BRP7 FDXA1 391_399
289	NDVLVPKPF	Q9Y4W2 LAS1L 370_378
290	VEILPVPYV	Q8IZ52 CHSS2 494_502
291	AERVLAEKL	Q15149 PLEC 1968_1976
292	AEFHQIEGV	Q9Y285 SYFA 368_376
293	VEKGHFAEL	Q9GZR7 DDX24 477_485
294	GEAQKIDRL	Q9Y6D5 BIG2 737_745; Q9Y6D6 BIG1 792_800
295	VDLERTIAL	Q15751 HERC1 1139_1147
296	REGDLTNLL	Q9NVI1 FANCI 25_33
297	KEMPVKVEA	O15397 IPO8 510_518
298	GESEKLVRL	O75449 KTNA1 284_292; Q9BW62 KATL1 283_291
299	LEKGKETLL	P13747 HLAE 193_201
300	KESHATL VF	P40763 STAT3 49_57
301	IERGILAEM	Q8NCH0 CHSTE 60_68
302	RSFPTLPTL	Q13761 RUNX3 250_258
303	IPIHADPRL	O15160 RPAC1 113_121
304	SFDAHLTEL	O43865 SAHH2 499_507
305	MFDIVGTHL	O75618 DEDD 29_37
306	IEKNDAETL	Q9BPX3 CND3 549_557
307	KDSLAWLSL	Q9Y315 DEOC 263_271
308	RELTSRVTA	Q9UFC0 LRWD1 139_147
309	SESTNQRVL	Q7Z7H5 TMED4 188_196; Q9BVK6 TMED9 196_204
310	AETPDIKLF	P46782 RS5 12_20
311	SELDVPFKV	Q709C8 VP13C 49_57
312	SEIEKLLAM	P40617 ARL4A 145_153
313	VEKFGDLIL	Q6P2Q9 PRP8 1899_1907
314	GEQGPIWTF	O00506 STK25 313_321
315	TEFPPTVLDI	O14929 HAT1 265_273
316	HETPKQPVV	O94967 WDR47 644_652
317	SEQKFLIGL	Q8N1G2 CMTR1 598_606
318	KETAVFINI	Q9UBQ7 GRHPR 235_243
319	KFDLAARTL	Q15751 HERC1 2881_2889
320	KEKSIFLVA	Q15005 SPCS2 135_143
321	SEKKIFIGL	Q86YD1 PTOV1 370_378
322	NEFDAIQKA	Q14674 ESPL1 1755_1763
323	EDVKMITSL	P49736 MCM2 459_467
324	KEKASWSSL	P13073 COX41 65_73
325	RDVDFVTAL	Q9H267 VP33B 233_241

326	LEGQIHPPEL	P69849 NOMO3 803_811; Q15155 NOMO1 803_811; Q5JPE7 NOMO2 803_811
327	QEHPPELAVL	Q6NYC1 JMJD6 318_326
328	REGIFPAVF	Q5HYK7 SH319 706_714
329	SEFEIVKAI	P61163 ACTZ 209_217
330	SEISALRFL	Q9H267 VP33B 579_587
331	AEYGEIKNI	Q9Y5S9 RBM8A 94_102
332	HDLVLPLVM	Q8IZL8 PELP1 549_557
333	LEWGADPHI	O14593 RFXK 144_152
334	YETEGIRGL	Q14566 MCM6 276_284
335	AEKESLTFL	Q92547 TOPB1 659_667
336	RDVFSISTL	Q92608 DOCK2 597_605
337	AEISKYLT	Q96KC2 ARL5B 136_144
338	KEVDALLHL	Q9BW19 KIFC1 511_519
339	GEFVDLYVP	P63220 RS21 6_14
340	GEFFKQIGI	Q92804 RBP56 251_259
341	RELLNVHSA	Q8IZT6 ASPM 256_264
342	KELIKPPTI	P53677 AP3M2 131_139; Q9Y2T2 AP3M1 131_139
343	VEKPLKLVL	Q9NPI1 BRD7 19_27
344	FETISQAML	P49720 PSB3 164_172
345	HEIGRMLAL	Q92621 NU205 1489_1497
346	HEKVELTAL	Q6NUT3 MFS12 161_169
347	KESTLHLVL	P0CG47 UBB 63_71; P0CG48 UBC 63_71; P62979 RS27A 63_71; P62987 RL40 63_71
348	RDLEIIPAL	Q9HA64 KT3K 205_213
349	HEFSSPSHL	Q9H3D4 P63 608_616
350	REGLRVLVV	O75110 ATP9A 593_601
351	GEFSITYKP	P62841 RS15 117_125
352	AENPFLTHL	Q05655 KPCD 405_413
353	IEHDVVMKA	Q9UNZ5 L10K 61_69
354	KEYFGIVSV	Q9NU53 GINM1 104_112
355	NEVIGIRQL	P30153 2AAA 392_400; P30154 2AAB 404_412
356	GELKRRRLGL	O43399 TPD54 75_83
357	REKLLGDVL	Q6GPH6 IPIL1 275_283
358	AELKEKIVL	O43482 MS18B 197_205
359	FFDTNTSVL	Q14008 CKAP5 1253_1261
360	QENVVKTLL	P24864 CCNE1 180_188
361	LEKSVLLEL	Q70SY1 CR3L2 484_492
362	TELIQKAKL	P27348 1433T 4_12
363	YEHVGIVDI	P19634 SL9A1 283_291
364	HEDIFGLTL	P29474 NOS3 1156_1164
365	KEPEINTTL	Q8IYU8 MICU2 226_234
366	REKLPssev	Q96CG3 TIFA 38_46
367	SESPVWVKL	Q6ZS30 NBEL1 1561_1569
368	KEDQILVSL	Q92609 TBCD5 631_639
369	RDSVLIQTL	Q14690 RRP5 832_840
370	RETGVIEKL	O75534 CSDE1 25_33
371	AEVKERVTL	Q13144 EI2BE 417_425

372	TEVDKILKV	Q9H0S4 DDX47 186_194
373	KELEKTLAL	Q9NU23 LYRM2 77_85
374	RESIKLVSI	O75369 FLNB 89_97; P21333 FLNA 116_124
375	REFSGLSHL	Q9Y5S1 TRPV2 316_324
376	KEVDVSKQL	Q9Y448 SKAP 118_126
377	IEVEKPFAI	P23284 PPIB 205_213
378	IEKLFPDAI	Q9NZS9 BFAR 91_99
379	REKITAQSI	P78527 PRKDC 1420_1428
380	KQFGNILIL	P52788 SPSY 156_164
381	LEHVDFSSL	Q9H6A0 DEN2D 227_235
382	LEKVFGIQL	Q9UNF1 MAGD2 328_336
383	PEYGEVIQL	O60739 EIF1B 77_85; P41567 EIF1 77_85
384	AEVDKLELM	Q8WVK7 SKA2 3_11
385	LYDPVISKL	Q96EZ8 MCRS1 179_187
386	AEKLFKQAL	Q9NRC1 ST7 256_264
387	RDFDGLVQV	Q6PI48 SYDM 84_92
388	QEFGILDKV	Q16740 CLPP 236_244
389	KDSTLIMQL	P27348 1433T 212_220; P31946 1433B 214_222; P31947 1433S 214_222; P61981 1433G 217_225; P62258 1433E 215_223; P63104 1433Z 212_220; Q04917 1433F 217_225  Q8NB14 UBP38 581_589
390	GEKTLIEKM	O43432 IF4G3 1506_1514; Q04637 IF4G1 1520_1528
391	KELQALYAL	Q9UKG9 OCTC 589_597
392	AEKLVQLTF	P13667 PDIA4 342_350
393	TEIAKFLKV	Q8IZT6 ASPM 2972_2980
394	KEYLAILKA	Q13618 CUL3 450_458
395	RETASELLM	Q01082 SPTB2 1261_1269
396	LFDDDKAVEI	Q13190 STX5 124_132
397	REGDLLFTV	Q13347 EIF3I 20_28
398	SEKNMISKL	Q13618 CUL3 450_458
399	AELTKVFEI	O60234 GMFG 115_123; P60983 GMFB 115_123
400	AEVYRILSV	Q9H8H0 NOL11 107_115
401	QEvhpllltL	Q9Y6X3 SCC4 202_210
402	TEFNSLVKL	Q9P2K8 E2AK4 345_353
403	NDFLLKTSL	Q7Z7G8 VP13B 2189_2197
404	AEKLITQTF	Q9Y266 NUDC 51_59
405	SESKVFQLL	Q6ZV73 FGD6 1392_1400
406	IEHLIGKKL	Q9H0S4 DDX47 378_386
407	VEKIDFDsv	Q9UBQ5 EIF3K 202_210
408	AEKSYEVLL	Q6ZT12 UBR3 1600_1608
409	HENLLEALL	Q9NRC1 ST7 335_343
410	IETSYVKVL	P43356 MAGA2 279_287; P43360 MAGA6 279_287
411	IEKQPPQVL	P42229 STA5A 334_342; P51692 STA5B 334_342
412	KEGEIIHLI	Q9Y5K6 CD2AP 291_299
413	VENPQTthev	Q96IJ6 GMPPA 156_164
414	HEAERNIAL	A6NKT7 RGPd3 189_197; O14715 RGPd8 189_197; P0DJ0 RGPd1 180_188; P0DJ1 RGPd2 188_196; P49792 RBP2 189_197; Q7Z3J3 RGPd4 189_197; Q99666 RGPd5 189_197
415	AEAVQKFFL	Q15388 TOM20 63_71

416	REPAELPKL	O96009 NAPSA 48_56
417	HEDVKKALL	P33993 MCM7 347_355
418	AEFKKIFGL	Q5T3J3 LRIF1 568_576
419	VEFGNFNNL	Q6IQ21 ZN770 537_545
420	EELDVKHAL	Q96SB8 SMC6 451_459
421	RDYLGLFAV	Q99707 METH 1094_1102
422	TEARHILTL	Q6PIY7 GLD2 233_241
423	IELPNIQKV	P51784 UBP11 184_192
424	LEPRLLEAL	A6NED2 RCCD1 199_207
425	LEEKLLPV	Q13505 MTX1 249_257
426	HEEMVALLL	O75179 ANR17 512_520; Q8IWZ3 ANKH1 483_491
427	RGFDKAYVV	O75531 BAF 37_45
428	HEYLPILGL	P17174 AATC 69_77
429	LEKPSIVRL	Q14997 PSME4 1067_1075
430	SESRMVVT	P78347 GTF2I 17_25
431	MFDVTSRVT	P62826 RAN 89_97
432	TDFGLKDFL	P81274 GPSM2 658_666
433	AEHIESRTL	Q99541 PLIN2 303_311
434	SFDITGRFL	Q9Y4P3 TBL2 380_388
435	IESKHEVTI	P62256 UBE2H 19_27
436	IEKNLINVL	Q7Z392 TPC11 534_542
437	RELVAIKKV	P49840 GSK3A 142_150
438	SETFLLPHL	Q9H8H0 NOL11 597_605
439	REVNLAQI	P48444 COPD 122_130
440	REELNLAVL	Q99418 CYH2 118_126
441	RELENLIGI	Q13352 CENPR 117_125
442	VDKRELIAL	Q8N3C0 ASCC3 2122_2130
443	GEFGKPYFI	P13051 UNG 104_112
444	AEHRIDFVA	P49585 PCY1A 159_167
445	KENDPSVRL	Q96HW7 INT4 82_90
446	KEDVHFAL	Q96LW4 PRIPO 59_67
447	GENVHIYLI	Q9NVX7 KBTB4 235_243
448	FEITQPPLL	Q9UI95 MD2L2 100_108
449	TEINNLLKL	Q9Y4D8 HECD4 353_361
450	AEKLQRITV	Q15050 RRS1 18_26
451	REINTILKA	P21127 CD11B 484_492; Q9UQ88 CD11A 472_480
452	REIITSILL	Q14289 FAK2 68_76
453	YFDPANGKF	P13639 EF2 265_273
454	FFEVPSPVSF	Q8N543 OGFD1 209_217
455	YEVGQRHGL	P26640 SYVC 601_609
456	PSDITIYHL	Q96JI7 SPTCS 1141_1149
457	HENKGVYVL	P26440 IVD 268_276
458	SENDVIRLI	O94768 ST17B 131_139
459	VELDLQRSV	Q5UE93 PI3R6 6_14
460	TEALRLWAV	Q9BWH6 RPAP1 672_680
461	EEIAKVEKL	P49755 TMEDA 136_144
462	VEDSIVRK	Q93034 CUL5 130_138

463	LEDKKITVL	Q9UDY8 MALT1 520_528
464	AEDHINFTI	Q9Y2L5 TPPC8 599_607
465	SEDKKNIL	P23528 COF1 41_49
466	IESPLFLKL	Q7L5N1 CSN6 146_154
467	KDFEQPLAI	O00151 PDLI1 22_30
468	QELGPRFTL	Q9H9Y2 RPF1 306_314
469	QEKLPTVV	Q96S52 PIGS 79_87
470	TEIKKTEVL	Q9Y265 RUVB1 104_112
471	FEGILIKKL	Q16548 B2LA1 95_103
472	IEDFPAKEL	Q9NXE4 NSMA3 36_44
473	SEKQVNILM	Q9NV70 EXOC1 210_218
474	SERNKLAML	Q7L1Q6 BZW1 145_153
475	REMIPFAVV	Q9UHD8 SEPT9 492_500
476	SEFKDLILP	Q92616 GCN1L 256_264
477	REFGKALQL	Q6ZN55 ZN574 473_481
478	YELVSIPKL	Q14997 PSME4 103_111
479	TDREDINSL	Q01581 HMCS1 60_68
480	YEGFSLPHL	P61160 ARP2 170_178
481	REGEIAQFL	O00170 AIP 81_89
482	KDVEFLAQL	P48426 PI42A 261_269
483	GQWKKGFVL	Q8NC51 PAIRB 317_325
484	HEFQAPFGM	Q15800 MSMO1 174_182
485	KEIIPITSEF	Q14669 TRIPC 1495_1503
486	IETTKVEML	Q9BW27 NUP85 627_635
487	AELFDLSRL	Q53GT1 KLH22 159_167
488	IDYEAVKL	P62333 PRS10 326_334
489	KEKLLTQGF	O60264 SMCA5 834_842; P28370 SMCA1 849_857
490	FEAPIKLVF	Q8TCT9 HM13 236_244
491	AEDDFKKVL	Q13217 DNJC3 124_132
492	SEFGKLERV	O43390 HNRPR 362_370
493	REDFKTAVV	Q9BUY7 EFC11 40_48
494	RESFSLVQV	P46379 BAG6 820_828
495	REKHVLLGL	Q9BZ67 FRMD8 307_315; Q9BZ68 FR8P1 307_315
496	AEFELPKTM	P78318 IGBP1 122_130
497	IEKEGEFTL	Q8WV22 NSE1 160_168
498	TEVLESFKL	Q9NVR2 INT10 407_415
499	IEKDITSFL	Q7Z449 CP2U1 290_298
500	IFSEKPVFV	Q92673 SORL 575_583
501	GEEWKGYVV	P62753 RS6 42_50
502	SETKDVFQL	Q9BWT6 MND1 21_29
503	KEVNFTSEL	Q9ULW0 TPX2 279_287
504	LEEQHRAAL	Q15149 PLEC 2738_2746
505	HEAEVLKQL	P16949 STMN1 64_72
506	IENSIVHRV	Q9NYH9 UTP6 84_92
507	FDFDGTPRL	O14818 PSA7 136_144
508	AEHERELAL	O15020 SPTN2 405_413; Q01082 SPTB2 402_410
509	SEIQVLEHL	P49759 CLK1 205_213; Q9HAZ1 CLK4 203_211

510	HEDLLNITL	Q92845 KIFA3 357_365
511	DEHLQLISL	P35249 RFC4 343_351
512	RETHEIVAL	Q00535 CDK5 24_32
513	GEVIFKDNF	Q9BXC9 BBS2 277_285
514	RDLTPIQI	P13612 ITA4 569_577
515	IEKVEHSDL	P61769 B2MG 66_74
516	PEFNLIHSL	Q15269 PWP2 318_326
517	VELIIVREV	Q96RT1 LAP2 1402_1410
518	VFDNSIKTF	Q6IQ55 TTBK2 279_287
519	FELDLPTVH	B5ME19 EIFCL 812_820; Q99613 EIF3C 811_819
520	HDVIMKSQ	Q96T49 PP16B 318_326
521	LEKQLQQAL	Q0D2I5 IFFO1 101_109
522	YEKEGEFVA	Q9UQ80 PA2G4 309_317
523	AEVGFVRFF	P43246 MSH2 15_23
524	IEWNPATKL	Q02224 CENPE 482_490
525	IERGQAERL	Q8N1B4 VPS52 623_631
526	IEIERILSV	Q12965 MYO1E 816_824
527	RELDITILV	Q13489 BIRC3 493_501; Q13490 BIRC2 507_515
528	REDVLTLLL	Q13200 PSMD2 494_502
529	KEPLLPVYL	Q5VYS8 TUT7 474_482
530	IEMNEPVQL	P12004 PCNA 197_205
531	HFDLSVIEL	O75419 CDC45 541_549
532	EEVARLWGI	P28324 ELK4 39_47; P43268 ETV4 375_383
533	IEVENKEVL	Q460N5 PAR14 601_609
534	RERGITIDI	P68104 EF1A1 67_75; Q05639 EF1A2 67_75; Q5VTE0 EF1A3 67_75
535	VEISRRVTL	Q14694 UBP10 667_675
536	HEPEKSFSL	Q8N720 ZN655 132_140
537	LENPTSYHL	P19484 TFEB 76_84
538	HEIEALKSF	O43847 NRDC 1054_1062
539	REVLELDSI	P36404 ARL2 139_147
540	TELDKIRQA	Q14204 DYHC1 348_356
541	TERTQINVL	P42858 HD 2493_2501
542	GETKIIYHL	Q92997 DVL3 2_10
543	TELKNLRSL	Q9BTA9 WAC 603_611
544	IERPVTVFL	Q00653 NFKB2 299_307
545	HEIGEFPVF	O96028 NSD2 913_921
546	GEIPDRLQF	O43242 PSMD3 340_348
547	NEGKHLYTL	P63244 GBLP 222_230
548	NEIGELIRM	O75643 U520 1159_1167
549	FPEQIAEKL	Q9Y546 LRC42 110_118
550	REGEVMKLL	Q9H078 CLPB 307_315
551	KELERVTS	Q96JG6 CC132 117_125
552	TDREIKVTL	P11802 CDK4 83_91
553	AEIEIMKKL	Q9Y6M1 IF2B2 337_345
554	REILANVFL	O60266 ADCY3 224_232
555	REGSGYFFL	Q8TEM1 PO210 917_925
556	SEHGEKLYL	O43639 NCK2 367_375

557	RDMRQTVAV	P68104 EF1A1 427_435; Q05639 EF1A2 427_435; Q5VTE0 EF1A3 427_435
558	AEIQFAQRL	Q14684 RRP1B 8_16
559	TELPLVEKF	Q9UPM8 AP4E1 859_867
560	KEMVVFPPLL	Q6PL18 ATAD2 439_447; Q9ULI0 ATD2B 413_421
561	IWPLHPSLL	Q86YV0 RASL3 248_256
562	HENESVYKA	P52292 IMA1 479_487
563	RDVFVFLAWVA	O94842 TOX4 602_610
564	GEKIIQEFL	P43246 MSH2 880_888
565	LEKQVVTFL	Q6P3X3 TTC27 70_78
566	KEYVGIVRL	O60832 DKC1 151_159
567	SEFRAFSSF	P19256 LFA3 69_77
568	RELEDLGVF	Q6PL18 ATAD2 200_208
569	TERKNFLAV	Q8IZT6 ASPM 2730_2738
570	EEYVLLKAL	P11474 ERR1 324_332
571	RQLGSKYIL	P04035 HMDH 84_92
572	RELEVQHPA	P50990 TCPQ 74_82
573	FERKSIVSL	Q5THK1 PR14L 567_575
574	REGPFYPTL	Q9ULC4 MCTS1 74_82
575	SEIFPLFRA	Q8WVB3 HEXDC 27_35
576	IEHHIENIV	O76021 RL1D1 223_231
577	HEGPALYYM	P49721 PSB2 110_118
578	TFDDIVHSF	P49327 FAS 545_553
579	RDFPSFAQL	P53602 MVD1 247_255
580	REKLPSYGM	Q9H2U1 DHX36 204_212
581	GETEKLYQL	Q96DB5 RMD1 97_105
582	AEQKVEYTL	Q04637 IF4G1 1418_1426
583	REAEFTKSI	Q15005 SPCS2 185_193
584	REGEYSKVL	Q6P1L8 RM14 130_138
585	YENVIKAML	P54577 SYYC 97_105
586	AENLFRAFL	P78527 PRKDC 193_201
587	AERKSLYTL	Q96RT8 GCP5 587_595
588	REHTALLKI	P18077 RL35A 22_30
589	QEKAFFAQL	Q16236 NF2L2 66_74
590	AEFKEAFAQL	P60660 MYL6 10_18
591	AEKNDFVIF	Q8TEL6 TP4AP 185_193
592	RESNEVVHL	Q9H992 MARH7 426_434
593	FEKATFIKV	P19338 NUCL 506_514
594	KEWPLLVVV	Q9NZC9 SMAL1 477_485
595	NFDNILNSF	Q9ULQ1 TPC1 629_637
596	RENGQLHMV	Q9Y546 LRC42 19_27
597	TETHVERVL	Q9H3S7 PTN23 1326_1334
598	IEVFLPPRL	Q9Y5A7 NUB1 85_93
599	DLEEMTPLH	Q9Y283 INVS 111_119
600	ADWDTKHVL	Q13347 EIF3I 60_68
601	REPVQLET	P62314 SMD1 50_58
602	IERNKQLAL	Q9BVW5 TIPIN 203_211
603	HEAEDLKML	Q9BVW5 TIPIN 95_103

604	YERLFGTTV	Q15904 VAS1 313_321
605	REWVAPEKA	O14744 ANM5 421_429
606	LEHQVFTVL	Q92989 CLP1 394_402
607	KEKKDILVL	Q8IVB5 LIX1L 316_324
608	SEFKKMLGF	Q7Z449 CP2U1 246_254
609	AEQDLIREL	Q9BXC9 BBS2 333_341
610	NEFPEPIKL	P51149 RAB7A 184_192
611	LEKDAQNRL	Q2TAL8 QRIC1 493_501
612	QERVTLDDL	Q9UBB4 ATX10 241_249
613	KDILKPEIM	Q13868 EXOS2 269_277
614	NEFPVIVRL	Q38SD2 LRRK1 188_196
615	REVTELIKV	P52657 T2AG 82_90
616	YERDHAVVV	A6NHQ2 FBLL1 314_322; P22087 FBRL 302_310
617	LESPERPFL	P00558 PGK1 201_209
618	REKENVTVL	Q86XI2 CNDG2 599_607
619	TETVHIFKL	Q5MNZ9 WIPI1 253_261; Q9Y4P8 WIPI2 269_277
620	SERNILSRL	Q14839 CHD4 1888_1896
621	RENTLLKTL	Q99576 T22D3 92_100
622	KEKVLWTAI	P61619 S61A1 29_37
623	RDWQSGRAL	P21333 FLNA 190_198
624	LERRDAESL	O95396 MOCS3 378_386
625	FFDPSSLHL	Q96S52 PIGS 502_510
626	TEKTRELVL	Q6ZT07 TBCD9 505_513
627	KDAYLPLRL	P28340 DPOD1 514_522
628	IEFDKPEVL	Q96J65 MRP9 1333_1341
629	AEEPIYIRV	Q9NX02 NALP2 348_356
630	KEAQRIMTL	Q9BTL4 IER2 5_13
631	KEFAQIIKI	P07954 FUMH 223_231
632	HEHIEILTV	Q9ULC4 MCTS1 56_64
633	IEYQSKPLL	O60427 FADS1 412_420
634	EEIAFLKKL	P08670 VIME 229_237
635	RDWKTGESL	Q8WUA2 PPIL4 273_281
636	FEWAKNSPL	Q15067 ACOX1 633_641
637	GETWNPFKL	Q9H4A5 GLP3L 144_152
638	MENKIRSTL	P47756 CAPZB 220_228
639	FEAWNIIKA	Q14005 IL16 1298_1306
640	AEFKQIRSI	Q14289 FAK2 300_308
641	RENTFVVKV	Q9NRF2 SH2B1 340_348
642	KETDLLILF	P05455 LA 176_184
643	IYDEVVKLL	P53007 TXTP 296_304
644	KEKIDMESL	Q9Y6Y8 S23IP 667_675
645	KEDPTSFRL	Q15437 SC23B 564_572
646	IESSPQYRL	Q8WWM7 ATX2L 303_311
647	YEDIKNVVL	Q8N4J0 CI041 361_369
648	KDFEQLISI	A6NIE6 RN3P2 104_112; Q9NYV6 RRN3 104_112
649	LEFSKDKIL	Q96TA2 YMEL1 570_578
650	SEKLFRTVL	Q9NYC9 DYH9 4192_4200; Q9UFH2 DYH17 4162_4170

651	LESDFRDVL	Q9H9E3 COG4 485_493
652	KEIDLESIF	O00139 KIF2A 52_60
653	YEKDLIEAI	Q9BRT3 MIEN1 85_93
654	KEGWNPHLL	Q9HBE5 IL21R 231_239
655	RELDVSYVL	P46977 STT3A 571_579
656	TEINFTQKL	Q8IYW5 RN168 421_429
657	SEVNKLYKL	P09884 DPOLA 1027_1035
658	KELDGLWSF	P08236 BGLR 39_47
659	GEFEKIMQL	Q17R31 TATD3 47_55
660	RDRAFESTL	Q16760 DGKD 941_949; Q86XP1 DGKH 948_956
661	LEHVQPWSV	Q01813 K6PP 776_784
662	GEKKDELYL	P49840 GSK3A 183_191
663	REHVEAIKI	O95229 ZWINT 104_112
664	KEIEDFDLSL	P46060 RAGP1 43_51
665	SEEDFIRSL	Q9Y2I7 FYV1 1841_1849
666	FEGEYPKLL	Q9UP83 COG5 409_417
667	KEFQLFQGV	Q9UET6 TRM7 34_42
668	YEKGIMQKV	P41161 ETV5 430_438; P43268 ETV4 403_411; P50549 ETV1 397_405
669	REELIPLIL	Q9P260 K1468 539_547
670	YEKTIAQMI	O75410 TACC1 645_653; O95359 TACC2 2789_2797
671	KESEVVVMKF	Q9NUQ8 ABCF3 472_480
672	SEFQRLLGF	Q9H6K1 CF106 29_37
673	TETTKFEKL	Q6P1N0 C2D1A 604_612
674	LEHSWIKA	O43293 DAPK3 270_278
675	EEKEIEHAL	Q99741 CDC6 537_545
676	HEAEIETRI	Q6ZRS2 SRCAP 102_110
677	FEGDIRTIF	Q9UJV9 DDX41 354_362
678	KELAEFLTF	Q86YV0 RASL3 433_441
679	EELEVLPRL	Q96F44 TRI11 203_211
680	KEDIPRQLV	Q15629 TRAM1 190_198
681	LEQNLIRVI	O00231 PSD11 331_339
682	WESSFSRTV	Q9NX14 NDUBB 29_37
683	GESRTFRVF	O60306 AQR 620_628
684	IEAFKNYTL	P10515 ODP2 173_181
685	YEALPQHKL	P26358 DNMT1 399_407
686	REDEKPLVL	Q8WUY8 NAT14 12_20
687	LERELNLVL	P49327 FAS 2166_2174
688	LEQQNKILL	P08670 VIME 124_132
689	RFEDSPSYV	O60264 SMCA5 167_175
690	YEDGSIRIF	Q9UNX4 WDR3 84_92
691	MEHTEVLQL	Q9UDY8 MALT1 113_121
692	NEFVHINNL	O00743 PPP6 222_230
693	LEHRDFIGL	Q9C0J9 BHE41 14_22
694	IEQVNERVL	P0C1Z6 TFPT 92_100
695	LERNITIKL	P41091 IF2G 73_81; Q2VIR3 IF2GL 73_81
696	KEKVTRIIL	Q9UI12 VATH 278_286
697	KEDFSSSQL	Q9GZN2 TGIF2 192_200

698	SESRIQHML	Q9UMX1 SUFU 170_178
699	KEHFEVNVV	Q14667 K0100 2003_2011
700	REKAELL	Q9H6Q3 SLAP2 101_109
701	KELQKVQDI	Q9UHA3 RLP24 116_124
702	VEVQRLLML	Q9H2Y7 ZN106 1086_1094
703	RDLKEILTL	Q9UKG1 DP13A 121_129
704	TDFLAFKEM	Q9Y2Y0 AR2BP 116_124
705	EEWLSIPEV	O94906 PRP6 155_163
706	WENNNKALL	Q9NUQ3 TXLNG 403_411
707	SWDIVVQRV	O15371 EIF3D 264_272
708	KEKLEGWLV	Q9H9Y6 RPA2 386_394
709	REDDKIVDL	P19447 ERCC3 472_480
710	IETGERERL	Q9NPA8 ENY2 21_29
711	FEEAQLPRL	Q96CT7 CC124 176_184
712	QEIEELTKI	O75410 TACC1 785_793
713	HDFQAPYLL	Q5TGZ0 MOS1 60_68
714	HEFLVKPSF	P43246 MSH2 466_474
715	NEFLLLHAF	P09884 DPOLA 788_796
716	VEKEFEPLL	P14625 ENPL 611_619
717	WEISQKTVL	P23921 RIR1 684_692
718	WEVFAKPKV	Q86Y39 NDUAB 133_141
719	WESSIONDRL	Q3KQU3 MA7D1 292_300
720	GEWWKAKSL	P07948 LYN 97_105
721	REYPNLVTI	Q9HB58 SP110 91_99
722	KEFIINDIL	Q5THJ4 VP13D 4042_4050
723	REDYIEPAL	O75164 KDM4A 1050_1058
724	NEVFNDVRL	P47755 CAZA2 30_38; P52907 CAZA1 30_38
725	LEKLEELTM	O00567 NOP56 228_236
726	RETVIKQTM	Q96EY4 TMA16 109_117
727	AEFEKIQKL	Q8N5Y8 PAR16 103_111
728	KEAEFLQKL	A2A3N6 PIPSL 146_154; O14986 PI51B 143_151; O60331 PI51C 193_201; Q99755 PI51A 199_207
729	EEALLRYVL	Q92503 S14L1 360_368
730	IFDRVLTTEL	P19793 RXRA 345_353; P28702 RXR B 416_424; P48443 RXRG 346_354
731	FETIVKQQI	P20591 MX1 454_462
732	RDELLPHIL	Q92973 TNPO1 399_407
733	LYDVVRTILL	O00762 UBE2C 125_133
734	IESLFDNRL	Q96QE2 MYCT 605_613
735	FEILPGRQF	Q9BYK8 HELZ2 859_867
736	LEKNEFITL	P51003 PAPOA 405_413; Q9NRJ5 PAPOB 405_413
737	EEVQFLKTL	P49588 SYAC 378_386
738	EEVKSFRVL	Q9HBU6 EKII 181_189
739	AEYLEKLKL	Q8NFP7 NUD10 137_145; Q96G61 NUD11 137_145; Q9NZJ9 NUDT4 137_145
740	TELLARYKL	P19388 RPAB1 157_165
741	HFDDFVTNL	P35610 SOAT1 72_80
742	HEADKYML	O75663 TIPRL 203_211
743	KEVEQFTQV	O96000 NDUBA 121_129

744	REIAQDFKT	P68431 H31 73_81; P84243 H33 73_81; Q16695 H31T 73_81; Q71DI3 H32 73_81
745	RELFGPELF	P35249 RFC4 93_101
746	FEKLFPDVL	P45983 MK08 271_279
747	LEHQLQNII	Q08211 DHX9 282_290
748	IEKFDKSKL	O14604 TYB4Y 10_18; P62328 TYB4 10_18
749	FEDDNIRSL	Q4G148 GXLT1 390_398
750	TFDPMTRQI	O95402 MED26 426_434
751	GERTYQELL	Q9NX24 NHP2 20_28
752	READFKETL	Q96Q89 KI20B 616_624
753	AEIEHFIHI	P05023 AT1A1 286_294
754	RENFFPVTV	Q9Y6J0 CABIN 1935_1943
755	HDPHLLYTL	P53611 PGTB2 91_99
756	MEKIITQVF	O60343 TBCD4 1156_1164
757	HEDKIRVVL	Q9H4M9 EHD1 210_218; Q9NZN4 EHD2 210_218
758	VEKVEVHRL	Q9H6D7 HAUS4 293_301
759	REPLVRQVL	Q7KZ85 SPT6H 598_606
760	HEHPDQNSF	Q8IZU8 DSEL 467_475; Q9UL01 DSE 450_458
761	REVEIQSHL	O14965 AURKA 180_188
762	KEGDFVLRF	P07384 CAN1 505_513
763	WEREPAPLL	O75376 NCOR1 2420_2428
764	IYDKFIAQL	Q6P1K2 PMF1 76_84
765	MPVFPDFKM	Q8N7H5 PAF1 205_213
766	HEQKEQISL	Q9Y5P8 P2R3B 480_488
767	SEKVIFFEL	Q9Y3A6 TMED5 116_124
768	VYDVVELKF	Q8N684 CPSF7 107_115
769	GEFKKYLEV	Q14974 IMB1 726_734
770	YPEKTFKSL	Q9BYC9 RM20 108_116
771	RDIKIVKKL	P50991 TCPD 206_214
772	AEDFYSRLL	Q9H900 ZWILC 9_17
773	YEKILFTEA	P48556 PSMD8 279_287
774	LEHVQLFDL	P49761 CLK3 588_596
775	LEKFTVYTL	Q6PL18 ATAD2 817_825
776	REKLTPEQL	Q9Y2R0 COA3 27_35
777	REDVVLNRI	Q14289 FAK2 422_430
778	AERWIVNLI	P60228 EIF3E 367_375
779	REGEKLIRL	P20591 MX1 515_523
780	FENVIHDKL	P23497 SP100 144_152
781	HEEKVFRAV	P48444 COPD 139_147
782	RSLPEIWTL	O95163 ELP1 1268_1276
783	GEKVWQIRV	Q06265 EXOS9 126_134
784	VERELEKVL	Q9H871 RMD5A 7_15
785	SEKQLIQRL	Q14C86 GAPD1 22_30
786	LEFPQLIRV	Q86WQ0 NR2CA 51_59
787	IEKEKELLI	Q96BN8 OTUL 62_70
788	FEIPIKVRL	O60488 ACSL4 665_673
789	HEYPWILSA	P53621 COPA 103_111
790	TEYSFLKEV	Q63HN8 RN213 3354_3362

791	KFDFPVSYL	Q9NXE4 NSMA3 106_114
792	WERKVIVSV	O60478 G137B 185_193
793	VEHFMPILM	Q9BXS5 AP1M1 30_38
794	SERLQGWQL	Q9Y217 MTMR6 119_127
795	REKEDLVDL	Q969K3 RNF34 138_146
796	IESEVRRDL	O43264 ZW10 77_85
797	KERTLDNQL	P26010 ITB7 689_697
798	KEMWPSLLL	Q96GM8 TOE1 45_53
799	TEILERRSRSL	Q9NXR8 ING3 116_124
800	TEKKHFTIL	P15170 ERF3A 149_157
801	WEWDGDGIRV	Q8N1G2 CMTR1 801_809
802	TEAWLQEKL	O60234 GMFG 130_138
803	KEKPDIQFL	Q8IWA0 WDR75 121_129
804	KEVLQKEML	P30876 RPB2 340_348
805	IEVFPPFRL	Q5VU65 P210L 1079_1087; Q8TEM1 PO210 1075_1083
806	LEKMEDIQL	Q8TDJ6 DMXL2 1742_1750
807	FEEAVRRVL	P51151 RAB9A 165_173
808	RESLPIYKL	Q14562 DHX8 562_570
809	LFDDIDHNM	O60502 NCOAT 172_180
810	KESESFVFF	A2VDJ0 T131L 572_580
811	TEISWENKL	Q9Y277 VDAC3 83_91
812	EEFKHIAVF	O60841 IF2P 1082_1090
813	REFPFPDVL	Q9HA65 TBC17 502_510
814	QEKVIFDQL	Q96SN8 CK5P2 1852_1860
815	LEHIKTHEL	P41240 CSK 440_448
816	SEIDQLFRI	P06493 CDK1 208_216; P24941 CDK2 207_215; Q00526 CDK3 207_215
817	TERIMTEKL	O14980 XPO1 472_480
818	FEVKKWNAV	P62877 RBX1 22_30
819	IEKEIKDVF	O95602 RPA1 1621_1629
820	YEQLLDVKL	P20700 LMNB1 360_368
821	YERKLIEVA	Q8TEQ0 SNX29 588_596
822	AEVYKELRL	P49327 FAS 988_996
823	REKFEILSV	Q14690 RRP5 69_77
824	AEFIMLNHF	Q9BQ52 RNZ2 717_725
825	SEIKRVMQM	P50750 CDK9 124_132
826	LEFLDRESI	O75369 FLNB 84_92; P21333 FLNA 111_119
827	YEKINVNEI	Q13206 DDX10 60_68
828	IFDPVKQQF	Q9P2D1 CHD7 1984_1992
829	YEVEEVKIL	Q9UG01 IF172 355_363
830	TEVKKIYKL	Q9Y3C4 TPRKB 143_151
831	VFDEWVSKL	Q9H4L5 OSBL3 133_141
832	KENLFMDLL	Q92621 NU205 859_867
833	QEHLQLQNL	Q00610 CLH1 10_18
834	SEFLKEEKL	Q86UV5 UBP48 254_262
835	IEHFIHIIT	P05023 AT1A1 288_296
836	TEKEDFIEL	P04150 GCR 278_286
837	DEYSLVREL	Q9Y490 TLN1 125_133

838	REFGNLTRM	O14949 QCR8 3_11
839	GETKVVQYI	Q13823 NOG2 343_351
840	YDKILEETL	O15228 GNPAT 284_292
841	RQFSTPFQL	Q7Z3K3 POGZ 537_545
842	REFGKIINF	Q96RL7 VP13A 3143_3151
843	HWDPQEVTI	Q9HBU6 EKI1 132_140
844	TENDIRVMF	Q92879 CELF1 120_128
845	SEMRFVQDL	O43293 DAPK3 429_437
846	REYRDLTTA	Q02543 RL18A 95_103
847	EEHKKIEVL	Q8N6V9 TEX9 326_334
848	TELDLHKRL	Q9P2N5 RBM27 905_913
849	AEYIRTEML	Q9UFH2 DYH17 4102_4110
850	HEHYVTLNL	Q96HP0 DOCK6 1051_1059; Q96N67 DOCK7 1128_1136
851	FERKYAQAI	P78347 GTF2I 369_377
852	KEFKSQLFV	O43847 NRDC 848_856
853	REKIQPEIL	Q96JJ3 ELMO2 530_538
854	KELNILHEM	P13612 ITA4 289_297
855	RDVQHIIVF	Q16549 PCSK7 429_437
856	HFDIVIRNL	Q9H0K6 PUS7L 391_399
857	IEQEIRILL	Q96TA2 YMEL1 717_725
858	NEWSYVAKM	Q9P2J3 KLHL9 424_432
859	DEFEFLEKA	Q14258 TRI25 303_311
860	QEYPDLIHI	P23497 SP100 132_140; Q9H930 SP14L 132_140
861	KERPDLEQL	Q9UFH2 DYH17 3555_3563
862	AEFKTKYKL	Q92598 HS105 246_254
863	REVLRLLTKL	Q6P2Q9 PRP8 548_556
864	FEGMFKKEL	Q9P0I2 EMC3 248_256
865	QELQEINRV	A6NMY6 AXA2L 138_146; P07355 ANXA2 138_146
866	REHDIAIKF	P30260 CDC27 581_589
867	YEFDTKDLV	Q8TCT9 HM13 156_164
868	GERERLKEL	Q9NPA8 ENY2 24_32
869	IEKFFPHVL	Q9BRT9 SLD5 100_108
870	LEKKIEQEL	Q9H444 CHM4B 43_51
871	RELLPVKKF	Q08211 DHX9 385_393
872	REDDPVRML	Q9P2D0 IBTK 712_720
873	EEHPLVFLF	Q9H078 CLPB 371_379
874	HEVDKLYKV	Q9H267 VP33B 61_69
875	KEKKEEQVI	P62263 RS14 7_15
876	RDFLLKPEL	O00148 DX39A 47_55; Q13838 DX39B 48_56
877	MERIILDKL	Q14094 CCNI 130_138
878	IEMEKRVIL	Q14790 CASP8 144_152
879	REDEFHISV	P35790 CHKA 107_115
880	KETTYYDVL	P31689 DNJA1 3_11
881	LEHWYITGL	Q709C8 VP13C 579_587
882	KENEELTRI	Q9Y6A5 TACC3 819_827
883	KEFNEPRVL	O94915 FRYL 1670_1678
884	LEWAPKFQL	Q96BZ9 TBC20 391_399

885	AEHFLEQQM	P49368 TCPG 109_117
886	REDMIDIKL	P20340 RAB6A 185_193
887	KEQMRIQSL	Q9Y6A5 TACC3 802_810
888	KEGEWKIML	O00186 STXB3 28_36
889	MWDTRIAKL	Q9Y248 PSF2 120_128
890	REKQEILAF	Q8N201 INT1 801_809
891	RENRYIVLA	P43686 PRS6B 388_396
892	RDPFNPFEL	P53634 CATC 394_402
893	REMEEKVTL	Q8TD19 NEK9 313_321
894	RDMDIIMKL	Q9BRS2 RIOK1 442_450
895	LERNEFITL	Q9BWT3 PAPOG 404_412
896	YEKVKLLEI	O95926 SYF2 95_103
897	SEEFQIHVF	Q5R372 RBG1L 224_232
898	SEREMRNTL	Q9NTJ3 SMC4 810_818
899	KENDFDRLV	O14579 COPE 293_301
900	NEFKELWAV	P30626 SORCN 93_101
901	RDFESNVRL	Q8NG08 HELB 824_832
902	MEPFPLRVF	Q9HBH1 DEFM 145_153
903	QEEYVKRAL	P04075 ALDOA 325_333
904	TEDLFENRL	Q92615 LAR4B 546_554
905	GEWYEVLKI	Q9H583 HEAT1 570_578
906	VEVPFMREM	P42356 PI4KA 1186_1194
907	AERMILEEF	Q6MZP7 LIN54 718_726
908	RETFQVLNM	O00267 SPT5H 555_563
909	MEKEIKNVF	Q9P0U3 SENPI 427_435
910	AELNFFQRI	Q8IXI2 MIRO1 207_215
911	YENEKLTKL	Q9BYX4 IFIH1 696_704
912	IDMLLKEYL	Q53EL6 PDCD4 331_339
913	YEQMGDHKM	Q9Y5Q9 TF3C3 261_269
914	NPDDVFREF	O75190 DNJB6 95_103
915	KETEAWDFL	Q96MG7 MAGG1 194_202
916	FETDIVQRM	Q99996 AKAP9 426_434
917	HYDHVLIEL	Q14566 MCM6 782_790
918	REKMADIYL	Q7Z4L5 TT21B 691_699
919	YEEEVKKTL	Q9NTX5 ECHD1 39_47
920	YELGRLFQL	Q96LI5 CNO6L 119_127
921	MEIDIPHVV	Q04637 IF4G1 1329_1337
922	AEYFLRPML	O00410 IPOS 903_911
923	TEFHGVRTL	Q12802 AKP13 2005_2013
924	YEVKELYVP	O43252 PAPS1 232_240
925	REQNVLHML	Q9NRZ9 HELLS 432_440
926	SEIELFRVF	O75643 U520 1010_1018
927	EEFQFIKKA	P55081 MFAP1 58_66
928	FYDERIVVV	Q9P265 DIP2B 854_862
929	YEKTPFDQL	Q9Y6B2 EID1 151_159
930	SERVEFFNL	Q93074 MED12 588_596
931	REIDDDFFKA	Q7Z3V4 UBE3B 55_63

932	RELVKNWVP	O14957 QCR10 11_19
933	FLLDLTEQEF	Q9Y262 EIF3L 478_486
934	YEFLDKLDV	O43242 PSMD3 218_226
935	EERKPQLEL	Q9BQ67 GRWD1 135_143
936	AERQRQIQL	O14964 HGS 502_510
937	REIRNVELL	Q9UJX6 ANC2 537_545
938	LEQLKIERL	Q9C0J8 WDR33 556_564
939	AFDLTEQRY	Q86UE8 TLK2 479_487
940	REIDYKTAF	Q75QN2 INT8 905_913
941	TERAFIHRL	Q9H6S0 YTDC2 73_81
942	REKQNEIIL	Q08AF3 SLFN5 36_44
943	IEKELLERL	Q9BXY0 MAK16 162_170
944	REKLIAWKV	O43314 VIP2 289_297
945	DEFSDFDRL	Q9Y6I3 EPN1 402_410
946	VMDVQYNKF	P33076 C2TA 1076_1084
947	KESEVFYEL	Q16665 HIF1A 32_40
948	FEKEETFTL	Q9Y678 COPG1 783_791
949	RDLEIQQEL	Q02224 CENPE 1918_1926
950	IYDLVDRHL	Q9NXR8 ING3 86_94
951	KEJEKDRL	Q2M389 WASH7 678_686
952	REIIQKLML	P13797 PLST 54_62
953	VEFHRLWSA	Q7L576 CYFP1 1125_1133; Q96F07 CYFP2 1149_1157
954	HEFLLVHHL	Q8WYP5 ELY5 951_959
955	EEFLKLPRL	Q9Y6Y0 NS1BP 168_176
956	REDNQTNR	P63092 GNAS2 258_266; Q5JWF2 GNAS1 901_909
957	GQWKEEQKLL	P55735 SEC13 200_208
958	VEHPYQFLL	O75909 CCNK 157_165
959	HEALLYTWL	Q14204 DYHC1 2577_2585
960	REWWTGIDRL	P56182 RRP1 105_113
961	RQLESMIRL	Q14566 MCM6 619_627
962	YFDVSHEHL	P14735 IDE 150_158
963	QEFSFFDKV	O75182 SIN3B 306_314
964	HEWLQQHGI	P27708 PYR1 105_113
965	REFEPMLQV	O75417 DPOLQ 311_319
966	VERAIEYRL	Q15751 HERC1 4684_4692
967	TEFRNIQKL	P46013 KI67 879_887
968	REKQSKFIL	O14965 AURKA 151_159
969	KEDTFFYSL	Q9BTC8 MTA3 126_134
970	KEMESIWNL	Q7Z417 NUFP2 667_675
971	IERYPEETL	P78527 PRKDC 3472_3480
972	REYQDLLNV	P07197 NFM 382_390; P08670 VIME 381_389; P12036 NFH 383_391; P17661 DESM 386_394; Q16352 AINX 377_385
973	RELDIYNNL	P20749 BCL3 163_171
974	RELQSKEFL	Q8NBI5 S43A3 244_252
975	FEVIFPERI	P25685 DNJB1 318_326
976	REKDLFRSV	O60524 NEMF 1042_1050
977	LEKYIIEEL	P41252 SYIC 866_874

978	YEKKLRAEL	Q9ULR0 ISY1 177_185
979	REISYLSKLL	P09874 PARP1 340_348
980	KEMEQLLEM	Q9Y448 SKAP 308_316
981	SERLEQELF	O00571 DDX3X 143_151; O15523 DDX3Y 141_149
982	RDFDDEKIL	O43670 ZN207 18_26
983	VEKYIEQL	Q9Y2Y0 AR2BP 73_81
984	REKFNQMVV	Q13464 ROCK1 1045_1053
985	KENPLQFKF	P15311 EZRI 72_80; P35241 RADI 72_80
986	REKIVEVMF	P61160 ARP2 120_128
987	MENEMRTQL	Q16891 IMMT 475_483
988	FEWENKVTV	P53618 COPB 847_855
989	LEKLMFEEL	Q9Y3I0 RTCB 42_50
990	EERKIYQSV	Q14527 HLTF 673_681
991	REQELHNLL	P52732 KIF11 840_848
992	IERRFFQAEEL	O43187 IRAK2 250_258
993	IEKNIELFF	P26358 DNMT1 427_435
994	MEKYLKEVL	P35790 CHKA 253_261
995	REIEHLSRL	O95347 SMC2 225_233
996	HEYTTKEVF	Q969P6 TOP1M 102_110
997	FEMPTYVVRL	O14744 ANM5 498_506
998	HDFDHFHSL	Q7Z5W3 BN3D2 216_224
999	YEMEVSQRL	Q86WA8 LONP2 643_651
1000	RQNKLTYTM	Q96DI7 SNR40 223_231
1001	RERLEQQVP	P39023 RL3 198_206
1002	SEKHMIYTF	Q9UL63 MKNL1 396_404
1003	DEYIKFLDL	Q9H799 CE042 1548_1556
1004	EEFVHINRL	P50851 LRBA 2401_2409
1005	REDIRELIL	Q9BQF6 SENP7 1030_1038
1006	REKELQQLL	O94986 CE152 26_34
1007	VEWGKIRRL	Q5TKA1 LIN9 161_169
1008	WEQDQIAHM	Q9UG63 ABCF2 330_338
1009	RFDESMQVF	Q96JC1 VPS39 361_369
1010	YERGFENIM	Q6NUQ4 TM214 60_68
1011	VEFKHDDRLL	P53992 SC24C 791_799
1012	REKELSIHF	Q9NZL9 MAT2B 4_12
1013	KDFLKIFTF	O14777 NDC80 123_131
1014	YDFFIGREL	Q14739 LBR 366_374
1015	TELDIYHRI	Q7Z3C6 ATG9A 204_212
1016	TEWERVARL	P09496 CLCA 209_217
1017	IERLQQIFL	Q09161 NCBP1 744_752
1018	HENEDIYKL	O00505 IMA4 468_476; O00629 IMA3 468_476
1019	QDWKEIQTL	P78316 NOP14 223_231
1020	EEMLEIRQL	Q9BZE4 NOG1 475_483
1021	HENYMKILL	Q96MG8 PCMD1 173_181
1022	KEVMKLWNL	Q15022 SUZ12 611_619
1023	KEIFLRELI	P07900 HS90A 41_49; P08238 HS90B 36_44; P14625 ENPL 97_105; Q14568 HS902 41_49

1024	GERFPWQEL	Q6P179 ERAP2 59_67
1025	REAQVWEML	Q9HAY2 MAGF1 185_193
1026	YEIFSKEVF	Q13569 TDG 235_243
1027	TERVWLWTA	P49792 RBP2 2398_2406
1028	REMMLRVNM	Q14141 SEPT6 275_283; Q92599 SEPT8 277_285; Q9NVA2 SEP11 274_282
1029	LETLFVHRF	Q9NZ01 TECR 143_151
1030	EELEFIRIL	Q9UPN3 MACF1 6059_6067
1031	IEQLYVRQL	Q02556 IRF8 369_377
1032	YPVEIHEYL	Q13901 C1D 10_18
1033	SEWQMIQKL	Q86UV5 UBP48 802_810
1034	REMIYPKLL	Q9NNV5 AIG1 113_121
1035	YEIIKRDIL	Q96RS6 NUDC1 218_226
1036	KEELLYRVL	A6NI79 CCD69 265_273
1037	HDFPQFYPL	P35244 RFA3 107_115
1038	TEQEFRSQL	Q9Y262 EIF3L 482_490
1039	YEDFHIVKL	O43681 ASNA 310_318
1040	KEWVTPKEF	P09874 PARP1 331_339
1041	KEKLQEIYL	Q8TB03 CX038 248_256
1042	LEKRIQTYL	P30085 KCY 148_156
1043	KEALYKWLL	Q13772 NCOA4 424_432
1044	EEWLTAERM	O00507 USP9Y 379_387; Q93008 USP9X 378_386
1045	REQEIPFVF	Q93073 SBP2L 764_772
1046	REKDLEVYL	Q9Y2I1 NISCH 88_96
1047	IEWFSIEKL	Q8IU60 DCP2 197_205
1048	QEVRDLFQM	Q9BZX2 UCK2 143_151
1049	KEHLYFETV	P69849 NOMO3 381_389; Q15155 NOMO1 381_389; Q5JPE7 NOMO2 381_389
1050	KEFLMENRV	Q9H668 STN1 213_221
1051	KEIYNEKEL	P60228 EIF3E 29_37
1052	KEFLKPEKF	Q8N543 OGFD1 296_304
1053	QEEDTFREL	Q6PL18 ATAD2 981_989
1054	YEETRQEVL	O75410 TACC1 628_636
1055	SENKKWVEF	Q8WZ60 KLHL6 362_370
1056	SERYTWIVL	Q66K64 DCA15 592_600
1057	REKLTELMF	O94805 ACL6B 130_138; O96019 ACL6A 133_141
1058	FEFKHIKAF	Q5TA45 INT11 300_308
1059	REIEELHKL	Q96SN7 ORAI2 232_240
1060	VEFRDFLKI	O94804 STK10 265_273
1061	YFDEPVCLR	Q9NP61 ARFG3 356_364
1062	REWYTGRVT	Q9Y6X9 MORC2 805_813
1063	KELEEIYML	O14646 CHD1 1062_1070; O14647 CHD2 1062_1070
1064	REYTLMELL	O43847 NRDC 931_939
1065	HEKDLVWKL	O00329 PK3CD 526_534
1066	LEKFFETRV	O60244 MED14 1281_1289
1067	KEKEFEETM	Q14203 DCTN1 1008_1016
1068	READFFWSL	O15519 CFLAR 397_405
1069	KEKLIIWKI	Q8WUM0 NU133 120_128
1070	YEIIRDYSL	O60287 NPA1P 1846_1854

1071	YELLMPHRI	Q8N6F7 GCSAM 148_156
1072	REQEEIVRL	Q9NZM3 ITSN2 476_484
1073	LERELYHVI	P24928 RPB1 1378_1386
1074	YEKFSKEEL	Q99459 CDC5L 621_629
1075	LEQEEQQRL	Q3ZCQ8 TIM50 318_326
1076	HEQEEIFKL	Q86UE8 TLK2 403_411; Q9UKI8 TLK1 397_405
1077	REWKGIDRL	Q14684 RRP1B 104_112
1078	RSDDQQIKL	Q14493 SLBP 181_189
1079	REMFGYMKL	E9PQ53 NDUCR 87_95; O95298 NDUC2 87_95
1080	KEFEPLLNW	P14625 ENPL 613_621
1081	HEWHKRVAL	Q9HCS7 SYF1 358_366
1082	RELEKLFQL	O95997 PTTG1 153_161; Q9NZH4 PTTG3 153_161
1083	REELFIQKL	Q14738 2A5D 114_122
1084	EWDPLDVRF	O95876 FRITZ 283_291
1085	EEHNFLFQL	Q8WVR3 CG043 311_319
1086	RERFLEDLV	Q9NWQ9 CN119 54_62
1087	YEVQKFLHL	O15519 CFLAR 276_284
1088	KEHEDIFLF	O94822 LTN1 1198_1206
1089	KEHQQFITF	Q9HCL2 GPAT1 712_720
1090	YERDKQILL	O95995 GAS8 300_308
1091	KERLDQIYL	Q96L91 EP400 1747_1755
1092	REDDFNNRL	Q9H078 CLPB 250_258
1093	FEKIHQETF	Q15393 SF3B3 99_107
1094	REEDFTRIL	P49368 TCPG 260_268
1095	AEKKFQEWL	Q96HJ3 CCD34 272_280
1096	REKYLLPFL	Q13571 LAPM5 88_96
1097	REQDEAYRL	Q9UNN5 FAF1 509_517
1098	KEKEFQEEL	P49454 CENPF 392_400
1099	LEKRYNEDL	P25787 PSA2 174_182
1100	YEITEQRKI	Q02878 RL6 240_248
1101	RERDSKLYL	Q8N511 TM199 68_76
1102	EEFEKSWLL	Q7Z4L5 TT21B 1194_1202
1103	WSDYEIVRL	O14966 RAB7L 51_59
1104	REKTWNISF	Q96AD5 PLPL2 4_12
1105	FERDKLIFL	Q9UFH2 DYH17 3709_3717
1106	REWAIIKKHL	Q9H0U6 RM18 108_116
1107	RDFQERLSM	Q6ZSZ5 ARHGI 626_634
1108	EEWKHLNNL	O75081 MTG16 394_402
1109	YEKIHKDHL	P48200 IREB2 875_883
1110	REFQKTEDM	Q96II8 LRCH3 427_435
1111	RDYPLELFM	P12694 ODBA 167_175
1112	HEWKKLIMV	O00584 RNT2 32_40
1113	HQFLQYHVL	Q96DM3 MIC1 519_527
1114	QEFLERIHL	Q9NSI8 SAMN1 247_255
1115	MEKLLFEYL	Q9BSI4 TINF2 147_155
1116	MEHPYFYTV	P68400 CSK21 319_327; Q8NEV1 CSK23 319_327
1117	MERFSEEFL	Q5VWQ0 RSBN1 388_396

1118	YETFQQKML	Q15554 TERF2 256_264
1119	LESERRWVL	Q14527 HLTF 576_584
1120	HEAFWEQEL	Q02833 RASF7 171_179
1121	HEWMKSEEL	Q9BTE0 NAT9 29_37
1122	FEKDFKEVF	Q9H930 SP14L 563_571
1123	REKLRNFIL	P53611 PGTB2 260_268
1124	SEFDFFERL	Q9H3S1 SEM4A 252_260
1125	QEMEERRIV	Q96RU3 FNBP1 217_225
1126	HFDLNLRQF	O15213 WDR46 188_196
1127	FEFEYQTKV	P08243 ASNS 88_96
1128	MEKNWQELL	A1L190 SYCE3 73_81
1129	KEKEIQWET	Q96SU4 OSBL9 703_711
1130	EEFKQQRLL	Q96JI7 SPTCS 2365_2373
1131	RERDFLKKV	Q5TA45 INT11 217_225
1132	DEYDYLFKV	P62491 RB11A 6_14; Q15907 RB11B 6_14
1133	REFLEKEEL	Q13596 SNX1 262_270
1134	REYEELIKL	Q0ZGT2 NEXN 429_437
1135	HEYFPEMQI	P04035 HMDH 672_680
1136	YEAWKVREL	P55081 MFAP1 276_284
1137	REHFQSYDL	Q13564 ULA1 193_201
1138	TEYLEERRV	P08238 HS90B 190_198; Q58FF7 H90B3 169_177
1139	WEDYPHVHL	Q15035 TRAM2 148_156
1140	WEEIQKHNL	O95864 FADS2 23_31
1141	AYDDKIYYF	O75326 SEM7A 235_243
1142	KEKFPDWTF	Q7Z2K6 ERMP1 883_891
1143	RRFMQTFVL	Q13283 G3BP1 106_114
1144	YEWTTEKEL	Q16531 DDB1 891_899
1145	DEYQFVERL	Q13405 RM49 43_51
1146	RESFFYTHL	Q7L576 CYFP1 597_605
1147	YEFMTIQRL	Q96M89 CC138 314_322
1148	WEEVQQRLL	Q9Y6D6 BIG1 1747_1755
1149	YERSNEYQL	P63092 GNAS2 163_171; Q5JWF2 GNAS1 806_814
1150	WEQEPLLRM	P52888 THOP1 513_521
1151	NEVEKQWRL	Q9NZG7 NINJ2 93_101
1152	YEFFAKRQL	P36873 PP1G 255_263; P62136 PP1A 255_263; P62140 PP1B 254_262
1153	KEFDELVHW	Q8IY21 DDX60 494_502
1154	WEKELQQEL	Q96A49 SYAP1 316_324
1155	REKEDYLHL	Q9BYZ6 RHTB2 685_693
1156	KDRFEYLSF	Q9UKV5 AMFR 166_174
1157	FEWTRPQQL	Q8TDJ6 DMXL2 2790_2798
1158	RERRDNYVP	P08708 RS17 78_86; P0CW22 RS17L 78_86
1159	REIFRNEKL	O15160 RPAC1 285_293
1160	LEWLMPNRF	Q8N531 FBXL6 185_193
1161	VEFPYQYDF	Q14667 K0100 826_834
1162	AEYLYFFRV	P60228 EIF3E 148_156
1163	REEYPDRIM	P07437 TBB5 156_164; P68371 TBB4B 156_164; Q13509 TBB3 156_164; Q13885 TBB2A 156_164; Q9BVA1 TBB2B 156_164; Q9H4B7 TBB1

		156_164
1164	FEQFLQERI	P35268 RL22 39_47
1165	KEFIHILYF	Q9NZ32 ARP10 69_77
1166	EEIERFFKL	O75694 NU155 533_541
1167	EEKWYSEEL	Q15075 EEA1 101_109
1168	EEFSYIRRL	Q6PI98 IN80C 165_173
1169	YENFRSERL	Q15019 SEPT2 296_304
1170	YEYKKRRTL	O00566 MPP10 452_460
1171	RERERLELL	Q6ZSZ5 ARHGI 944_952
1172	YERREDFLSL	Q9H7D0 DOCK5 1388_1396
1173	NEFFRPYEL	Q92562 FIG4 675_683
1174	REEEFDLFM	P51531 SMCA2 1246_1254
1175	LRLWQEEL	O15440 MRP5 149_157
1176	REHEEYLKL	Q96HY6 DDRGK 184_192
1177	EEFDLFMRM	P51531 SMCA2 1248_1256; P51532 SMCA4 1311_1319
1178	REFPKFFT	Q13085 ACACA 1350_1358
1179	KEKLFRRRL	Q9HCU9 BRMS1 75_83
1180	YEKENYNFL	O75916 RGS9 139_147
1181	YESLFREYL	Q8WV92 MITD1 103_111
1182	FEKLPEYFF	Q9BXW9 FACD2 154_162
1183	HEFEELFRL	P41226 UBA7 617_625
1184	KEWQEQLI	Q9UFN0 NPS3A 107_115
1185	REFEERRSL	Q9BVJ6 UT14A 422_430
1186	REEWKFDTL	P38919 IF4A3 260_268
1187	KEYFEFSEF	O15397 IPO8 284_292
1188	KEYDWLQHL	Q9NU22 MDN1 1290_1298
1189	QEREKQFRL	Q6ZSZ5 ARHGI 833_841
1190	REFDSLHWF	Q2M389 WASH7 1065_1073
1191	RETWELEEF	Q9Y4W2 LAS1L 194_202
1192	WEKKVIEYF	Q9BTE3 MCMBP 28_36
1193	YEFILERRM	O00458 IFRD1 116_124
1194	REFVRQYYT	Q13283 G3BP1 13_21; Q9UN86 G3BP2 13_21
1195	RERWNDFV	P38936 CDN1A 46_54
1196	REEMYIRYL	Q14185 DOCK1 1212_1220; Q92608 DOCK2 1216_1224
1197	REREVFYKF	Q9NQ89 CL004 11_19
1198	REFWPQEVIEW	P37268 FDFT 228_236
1199	RERYFEELF	Q9NVR0 KLH11 281_289
1200	REREELYRL	Q9Y5K8 VATD 194_202
1201	FNEYYSQRW	P23246 SFPQ 486_494
1202	YEWQQRQQF	Q6IQ23 PKHA7 524_532
1203	GESAVGKSSL	P20339 RAB5A 27_36; P51148 RAB5C 28_37; P61020 RAB5B 27_36
1204	GETGIGKSTL	Q6ZU15 SEP14 59_68; Q92599 SEPT8 51_60; Q9NVA2 SEP11 48_57; Q9P0V9 SEP10 73_82
1205	AERPGEAAVA	P29966 MARCS 16_25
1206	VEKGATGISL	Q15572 TAF1C 335_344
1207	AEGLAALHSL	Q96T76 MMS19 319_328
1208	GEAQVGKTSL	Q8IXI1 MIRO2 11_20

1209	GEGLALEKSL	Q4V339 CBWD6 79_88; Q5JTY5 CBWD3 79_88; Q5RIA9 CBWD5 79_88; Q8IUF1 CBWD2 79_88; Q9BRT8 CBWD1 79_88
1210	AEPGQQQPAA	P55884 EIF3B 17_26
1211	AELKSSTVGL	Q14320 FA50A 58_67; Q9Y247 FA50B 58_67
1212	GEAAAVFKTL	Q8IWZ6 BBS7 52_61
1213	KEAAIGVLVL	Q5VSG8 MANEL 179_188
1214	GELGNIGNKL	P12004 PCNA 173_182
1215	SEIGKAVGFL	Q9HAW4 CLSPN 704_713
1216	KEVLPAGVTI	Q13469 NFAC2 885_894
1217	KELAPAVSVL	Q9Y678 COPG1 283_292
1218	AESWGTGRAV	P36578 RL4 64_73
1219	AEDPLGAIHL	P08567 PLEK 283_292
1220	REAGLPGLLL	Q9NRP7 STK36 497_506
1221	AEPLRLLLAV	Q96EH3 MASU1 30_39
1222	AEFPGLPEAL	P52333 JAK3 330_339
1223	GEPRVGKTSL	Q8IXI2 MIRO1 11_20
1224	WEGGGLKIAL	Q9P2L0 WDR35 311_320
1225	KEILGTAQSV	P30050 RL12 130_139
1226	GEERATAISL	O00267 SPT5H 187_196
1227	SQSQATLLSI	Q9Y2V0 CO041 34_43
1228	KELNEAVAAL	P49454 CENPF 2362_2371
1229	RELVSGGRSV	P33993 MCM7 666_675
1230	RELMGGIGKT	P60602 ROMO1 50_59
1231	TEAIGIISKM	Q15021 CND1 635_644
1232	AEKADGFVNL	Q8WWN9 ICEF1 82_91
1233	TEAEIAHIAL	O75955 FLOT1 92_101
1234	SETLKGSFSL	P07948 LYN 158_167
1235	LEALRALTAL	Q9UBB4 ATX10 23_32
1236	GEGEKLVRAL	Q9UBP0 SPAST 417_426
1237	AEINKSLLAL	O00139 KIF2A 479_488; Q8N4N8 KIF2B 469_478; Q99661 KIF2C 514_523
1238	GEGHFGKVEL	P23458 JAK1 882_891
1239	KEIAAVIETV	Q7Z4G1 COMD6 76_85
1240	GELLERLSSA	O43264 ZW10 598_607
1241	LEKSGVLDTL	Q99417 MYCBP 18_27
1242	GEVSGLMRKV	Q13263 TIF1B 476_485
1243	AEAFRVIGTL	P46060 RAGP1 201_210
1244	WEKGGSGLVF	Q96I76 GPTC3 329_338
1245	LEANLAVLKL	Q9UBQ5 EIF3K 44_53
1246	KELLGQGLLL	B5ME19 EIFCL 644_653; Q99613 EIF3C 643_652
1247	AENILMGHSL	Q9BVV6 TALD3 1336_1345
1248	GEVIRTLPSL	Q92835 SHIP1 222_231
1249	SEIRAPIVTV	Q9BPX3 CND3 467_476
1250	AEFDTPGHTL	P06865 HEXA 255_264
1251	AEKEGRGLDL	Q9Y2Y0 AR2BP 130_139
1252	TEFGGVVTQHL	Q14674 ESPL1 1062_1071
1253	RDGFLLPTGL	A9UHW6 MI4GD 178_187
1254	TEIDGRSISL	P19338 NUCL 452_461

1255	MEKVLAGETL	Q12906 ILF3 180_189
1256	FEISDIGAKI	O43405 COCH 397_406
1257	SELFGPRAAF	Q14999 CUL7 1184_1193; Q8IWT3 CUL9 1513_1522
1258	GEAVEVIHKL	A6NI72 NCF1B 251_260; A8MVU1 NCF1C 226_235; P14598 NCF1 250_259
1259	AEHKIFPAAL	P22102 PUR2 979_988
1260	RELQPGVKAV	Q8N2W9 PIAS4 180_189
1261	GELDLPILKV	O15381 NVL 320_329
1262	KEFGFSGLNV	Q14008 CKAP5 744_753
1263	AELESVLSHL	Q15013 MD2BP 129_138
1264	SETHKAIQAL	Q9UHX1 PUF60 523_532
1265	HEINGLLVGF	P78549 NTH 276_285
1266	LENEKGALLL	Q14789 GOGB1 480_489
1267	SEVKALIRAL	O43264 ZW10 755_764
1268	AEVLLRTGKL	A2RRP1 NBAS 1504_1513
1269	GEAHLELNAF	O43861 ATP9B 799_808; O75110 ATP9A 710_719
1270	SEIYIHGLGL	O75817 POP7 67_76
1271	KEREGALVSL	Q96DC7 TMCO6 81_90
1272	TEAQSSLRAL	Q15418 KS6A1 287_296
1273	RETADVIAKV	O43617 TPPC3 72_81
1274	QEGAKMAVRL	P14923 PLAK 257_266; P35222 CTNB1 266_275
1275	SEAKDLISKL	Q9BUB5 MKNK1 345_354
1276	AEGINLIKVF	P82650 RT22 322_331
1277	RETAQAQIKGM	P18621 RL17 30_39
1278	HPVSDHEATL	P04222 1C03 216_225; P10319 1B58 216_225; P18464 1B51 216_225; P30490 1B52 216_225; P30491 1B53 216_225; P30498 1B78 216_225; P30499 1C01 216_225; P30501 1C02 216_225; P30504 1C04 216_225; P30505 1C08 216_225; P30508 1C12 216_225; P30510 1C14 216_225; P30685 1B35 216_225; Q07000 1C15 216_225; Q29865 1C18 216_225; Q29963 1C06 216_225; Q95604 1C17 216_225; Q9TNN7 1C05 216_225
1279	YEGSPIKVTL	P06748 NPM 67_76
1280	KEYDGVVVVV	P03923 NU6M 107_116
1281	SEFGSKIILL	Q14008 CKAP5 153_162
1282	NEIGVPLPRL	O75694 NU155 1290_1299
1283	TEFSVDARAL	P21333 FLNA 1276_1285
1284	HEIDGALLL	Q96GD3 SCMH1 619_628; Q9UN30 SCML1 285_294
1285	REAITHLLGV	Q15021 CND1 220_229
1286	FEKPTENSSA	Q9BPX5 ARP5L 116_125
1287	FESKLGSQTL	Q9UG22 GIMA2 48_57
1288	KEFDGKSLVS	P08238 HS90B 526_535; Q58FF7 H90B3 399_408; Q58FF8 H90B2 299_308
1289	AENGFLPIHL	P05023 AT1A1 874_883
1290	GEVKPVLQKL	P30154 2AAB 570_579
1291	KEGLLILPETL	O43889 CREB3 156_165
1292	SEHLAAIEIM	P41091 IF2G 171_180; Q2VIR3 IF2GL 171_180
1293	VETSELVHSL	Q9Y2I8 WDR37 310_319
1294	KEIELPSGQL	Q9H0A0 NAT10 882_891
1295	GELQKAILEL	P78527 PRKDC 3071_3080
1296	KELDVQIIGV	O14977 AZIN1 185_194
1297	TELHGKMISV	Q15424 SAFB1 470_479

1298	QEIDGKSLLL	Q5VXD3 SAM13 75_84; Q6SPF0 SAMD1 486_495
1299	REDTKAAVLL	Q8TDD1 DDX54 319_328
1300	REVLSALSQL	Q9H3C7 GGNB2 77_86
1301	TEDAKRLIAV	Q63HN8 RNP213 1075_1084
1302	GEGNWSKILL	P54274 TERF1 399_408
1303	LERTEGLSVL	P05198 IF2A 242_251
1304	EEIDLGNKL	O60346 PHLP1 1063_1072
1305	AEKLGETEKL	P52292 IMA1 451_460
1306	REGDLLFTVA	Q13347 EIF3I 20_29
1307	SEVDGNRMTL	Q99741 CDC6 439_448
1308	REAAAYNAITL	O60216 RAD21 101_110
1309	FEKVVTSEAL	Q13795 ARFRP 115_124
1310	GEFKNKAFAAL	Q9H2U2 IPYR2 256_265
1311	REGNVPNIII	P35250 RFC2 65_74
1312	ENFSQISTSI	Q14207 NPAT 414_423
1313	SELPFPShVl	Q9P1Y6 PHRF1 1451_1460
1314	TEFAGKGLRF	Q92871 PMM1 172_181
1315	EEHSIATLLL	Q96RS6 NUDC1 176_185
1316	GEVDVEQHTL	O95067 CCNB2 277_286; P14635 CCNB1 313_322
1317	REDGSHILTV	Q9Y485 DMXL1 1147_1156
1318	RELLKPNASV	P43686 PRS6B 121_130
1319	AEINNIKIV	P11388 TOP2A 505_514; Q02880 TOP2B 526_535
1320	GEDPDKRISI	Q92769 HDAC2 399_408
1321	HEIEVIGGYL	Q4KMQ1 TPRN 550_559
1322	AEERIEGRVA	Q9H269 VPS16 640_649
1323	WEAEGLGLRV	Q5T447 HECD3 66_75
1324	IEVDGKQVEL	P08134 RHOA 46_55; P61586 RHOA 46_55; P62745 RHOB 46_55
1325	GETDKRQIAI	Q75QN2 INT8 949_958
1326	AEGNIKIWSL	Q9Y485 DMXL1 2948_2957
1327	KELEGKINSL	Q8IWJ2 GCC2 583_592
1328	GELKDLTQKV	Q9Y448 SKAP 198_207
1329	HEEALSFVSL	P23458 JAK1 399_408
1330	RETIASVRSL	O15514 RPB4 77_86
1331	REAEHGYASL	Q9BW11 MAD3 23_32
1332	KEVDDLTAEL	Q9NTJ3 SMC4 953_962
1333	KEIREAANAM	O60488 ACSL4 651_660
1334	GEFSVDRPII	Q8NC51 PAIRB 149_158
1335	KEIFSGLPEL	Q8TEA1 NSUN6 182_191
1336	VFDEAIRAVL	P15153 RAC2 168_177; P60763 RAC3 168_177; P63000 RAC1 168_177
1337	VFDATAIAHLF	O43255 SIAH2 298_307
1338	KELGTVMRSL	P62158 CALM 31_40
1339	KEAMTDIITL	P50416 CPT1A 755_764
1340	REGIFPAVFV	Q5HYK7 SH319 706_715
1341	GESKDLLFIL	Q16531 DDB1 71_80
1342	FEAGDRQVTL	Q8TBB5 KLDC4 451_460
1343	AETDVLFNKV	P54277 PMS1 364_373
1344	SEINFDFGIKL	Q96Q89 KI20B 26_35

1345	GEFSLRGKEL	P49366 DHYS 149_158
1346	AEVSNTFVRL	Q9BUI4 RPC3 142_151
1347	AEKLPNLTHL	Q92688 AN32B 84_93
1348	HEGEIVNIIL	Q8TCN5 ZN507 933_942
1349	FEFTGSHLTW	O60341 KDM1A 558_567
1350	TESYLNVAL	Q9BRT9 SLD5 137_146
1351	IEHSKAVEIL	Q5EBL8 PDZ11 105_114
1352	EELRPLPVSV	Q13200 PSMD2 835_844
1353	AEVEHLTEVL	Q96M89 CC138 249_258
1354	SEASQGFRFL	Q9H992 MARTH7 342_351
1355	AEFTKSIAKF	Q15005 SPCS2 187_196
1356	GEAQRLIEIL	Q9P2E9 RRBP1 665_674
1357	REILTLLQGV	Q15631 TSN 36_45
1358	LWDDKGPAKI	Q93034 CUL5 52_61
1359	IELEKIVGEL	P49454 CENPF 1922_1931
1360	GEHDPVTEFI	Q8IXH7 NELFD 570_579
1361	REIGTVIDQI	Q8NHH9 ATLA2 528_537
1362	REKLPSSEVV	Q96CG3 TIFA 38_47
1363	KELESVGIRL	P55039 DRG2 161_170
1364	AEVENVFHSL	Q9C0G0 ZN407 968_977
1365	RESFPVPTVL	Q96DY7 MTBP 693_702
1366	SEVFAPLLRL	Q16254 E2F4 374_383
1367	KEMGTPDVRI	P62899 RL31 55_64
1368	GEYEKGVDHL	Q15388 TOM20 84_93
1369	AEAQLRFIQA	Q86UX7 URP2 537_546
1370	GESDMKIRV	Q9NYP7 ELOV5 103_112
1371	REVYVKGLLA	Q53EZ4 CEP55 191_200
1372	REGFLDTLVV	P42771 CD2A1 87_96; P42772 CDN2B 89_98
1373	GEFQFPPKSL	Q5T0D9 TPRGL 146_155
1374	RELEVQHPAA	P50990 TCPQ 74_83
1375	SEARFIARSL	P18858 DNLI1 437_446
1376	GEIKNIHLNL	Q9Y5S9 RBM8A 97_106
1377	AEIRHVLVTL	P60660 MYL6 107_116
1378	REAEFTKSIA	Q15005 SPCS2 185_194
1379	GEYDMTVPKL	Q09666 AHNK 962_971
1380	KEVEIAYSDV	Q9Y696 CLIC4 238_247
1381	GEDSKLIYDL	P12081 SYHC 108_117
1382	KENDAHLVEV	Q9NYL9 TMOD3 194_203
1383	RERPPEEVAA	Q16891 IMMT 195_204
1384	GEFQIVNPHL	P23921 RIR1 632_641
1385	AENPFLTHLI	Q05655 KPCD 405_414
1386	SEFLLTHPVL	Q6P2E9 EDC4 451_460
1387	KEPESILQVL	P17174 AATC 276_285
1388	TEDGHIDKEL	Q9NTM9 CUTC 120_129
1389	GEVELLQQKQL	O95613 PCNT 1527_1536
1390	GELREQLKAL	Q8TD16 BICD2 447_456
1391	SEARKGFSYL	P47985 UCRI 107_116

1392	AEVERVKDVL	B0I1T2 MYO1G 129_138
1393	AELDKRIEAL	Q9Y3X0 CCDC9 15_24
1394	KEAVILPIKF	O75351 VPS4B 147_156; Q9UN37 VPS4A 140_149
1395	SEVKNVLEKL	Q9H2G9 GO45 124_133
1396	KESEKIIAEL	O60333 KIF1B 478_487
1397	TEDARTILEL	Q96IC2 REXON 366_375
1398	SERDRAMLAL	Q13438 OS9 484_493
1399	REVLQGLAYL	Q92918 M4K1 119_128
1400	REGETMILTL	O43290 SNUT1 267_276
1401	GEARKQVEVF	Q9UL46 PSME2 11_20
1402	GEEALLRYVL	Q92503 S14L1 359_368
1403	FEISDRLIGI	Q9NTJ3 SMC4 1256_1265
1404	HELTIPNNLI	Q15365 PCBP1 282_291
1405	KEMDLSVETL	Q969J3 L12R1 119_128
1406	AEIKNLFTKT	Q9NZ01 TECR 30_39
1407	AEHQINLIKV	P25398 RS12 70_79
1408	NESELFGRGI	Q9UNP9 PPIE 68_77
1409	TEIKEITVSF	O75330 HMMR 524_533
1410	AEPVNLFQHL	Q6GPH6 IPIL1 513_522
1411	SEFSKRLLST	Q9UPT5 EXOC7 538_547
1412	VEKPPDNQKL	Q8NI27 THOC2 337_346
1413	TEDGDRLYSSL	O43264 ZW10 676_685
1414	SESRMVVTF	P78347 GTF2I 17_26
1415	GEFPSRIHLI	Q8NFZ0 FBX18 764_773
1416	LEKSFEGNVF	Q9NV96 CC50A 110_119
1417	MELKSTNISF	Q9Y3B1 SLMO2 91_100
1418	QEKLPEDEVVL	Q86XK2 FBX11 156_165
1419	AEINEIIRVL	P18206 VINC 239_248
1420	REGHEEMVAL	O75179 ANR17 509_518; Q8IWZ3 ANKH1 480_489
1421	REDLSAHLMV	P28065 PSB9 111_120
1422	SEPDLRDLLL	O60826 CCD22 93_102
1423	REAFVHVVTL	Q9NTZ6 RBM12 612_621
1424	KELEALIQNL	Q00341 VIGLN 788_797
1425	HEGLFQSQQL	Q14667 K0100 232_241
1426	AELEELKQVL	Q12912 LRMP 330_339
1427	AEILKEIREA	O60488 ACSL4 647_656
1428	REASLELIKL	O60347 TBC12 540_549; Q9P2M4 TBC14 459_468
1429	REAAAAIYHL	P14618 KPYM 383_392
1430	SEVQSLLQRL	Q9UBK8 MTRR 349_358
1431	GELRRTLQSL	Q13620 CUL4B 776_785
1432	KELDTDRPSL	Q9NRA8 4ET 85_94
1433	KEFEQLAPVL	Q9BWS9 CHID1 244_253
1434	GEPRDIFLK	O75161 NPHP4 1189_1198
1435	AEFHGLWDSL	Q15645 PCH2 130_139
1436	GEAELNWSRL	Q96CX6 LRC58 12_21
1437	VEVKDIELVM	E9PAV3 NACAM 2039_2048; Q13765 NACA 176_185
1438	TEIREIITSI	Q14289 FAK2 65_74

1439	KEFLPEGQDI	Q04637 IF4G1 1404_1413
1440	AEVKDMEQLL	A8MPP1 D11L8 334_343; Q92771 DDX12 351_360; Q96FC9 DDX11 332_341
1441	REMENIIATV	Q8N3C0 ASCC3 1594_1603
1442	KELTLENSEL	P49454 CENPF 2761_2770
1443	IEKKKGDFVL	Q96PP9 GBP4 402_411
1444	FEYGQVNHAL	Q9BSJ2 GCP2 283_292
1445	AEFWDGKIVL	Q56NI9 ESCO2 430_439
1446	KEIENGVYLI	Q5SWX8 ODR4 213_222
1447	KEKSFLDLVV	O15519 CFLAR 127_136
1448	KEVEQFTQVA	O96000 NDUBA 121_130
1449	GEFTDLKQQL	O43264 ZW10 90_99
1450	EEIKDFLLTA	P63173 RL38 6_15
1451	KEIETFVSSL	Q14571 ITPR2 613_622
1452	LENIKGIFVF	O95470 SGPL1 434_443
1453	REDGVTPYMI	P13693 TCTP 152_161
1454	REVTFVPGLY	P11388 TOP2A 73_82; Q02880 TOP2B 94_103
1455	RETKPIPMLI	Q9NVI1 FANCI 1245_1254
1456	GEFDKDRDSI	Q8TEY7 UBP33 379_388
1457	IEKEGVHQL	Q96GD4 AURKB 113_122
1458	GELDQLKEHL	O14593 RFXK 101_110
1459	AEAVDWLHEL	Q8WUY9 DEP1B 47_56
1460	AETPVYRFSL	Q9Y6Q9 NCOA3 328_337
1461	RELDGFGLYL	Q9UJX2 CDC23 165_174
1462	KEFIEGVSQF	P63098 CANB1 73_82
1463	FEFGSLDQKL	Q8TB72 PUM2 784_793
1464	HERSLNTDV	Q92620 PRP16 655_664
1465	YEVDGGKLRF	Q8TDJ6 DMXL2 2062_2071
1466	TEWLDGKHVV	P62937 PPIA 119_128
1467	AELRHVMTNL	P62158 CALM 104_113
1468	LEFLHANQVI	Q13177 PAK2 356_365
1469	GEFSFEEIRA	O60566 BUB1B 408_417
1470	REKEDGAFSF	Q15036 SNX17 166_175
1471	HEISNAVREM	Q86SQ9 DHDDS 160_169
1472	GEFQSFPKVF	Q3SY17 S2552 245_254; Q9H1U9 S2551 245_254
1473	KEKLIQEGL	O95168 NDUB4 112_121
1474	REDERGNVVL	Q2M1P5 KIF7 169_178
1475	EEIEDLVARL	P04844 RPN2 182_191
1476	REHALLAYTL	P68104 EF1A1 134_143; Q05639 EF1A2 134_143; Q5VTE0 EF1A3 134_143
1477	REKELAKVTI	Q9NX55 HYPK 81_90
1478	KEFGFQNNGF	Q8TAT6 NPL4 35_44
1479	AELRTWIEGL	Q99439 CNN2 32_41
1480	KEKEEADLLL	O43896 KIF1C 656_665; O60333 KIF1B 691_700
1481	KEINEKSNIL	Q9NTJ3 SMC4 349_358
1482	AEFKEAFLSF	P62158 CALM 11_20
1483	KEKNDEILSL	O75330 HMMR 262_271
1484	KEKDNIDITL	Q96BM9 ARL8A 165_174; Q9NVJ2 ARL8B 165_174
1485	HELVPEHVVM	P19388 RPAB1 142_151

1486	KELTQSELEL	O95273 CCDB1 351_360
1487	TETDRKDLVL	Q13905 RPGF1 705_714
1488	HEGSDLFWTV	Q9BXC9 BBS2 149_158
1489	MERIMKAQAL	P07900 HS90A 610_619; P08238 HS90B 602_611; Q58FG1 HS904 298_307
1490	FEKELEGILL	Q13438 OS9 436_445
1491	SEKDTKEEIL	P41208 CETN2 98_107; Q12798 CETN1 98_107
1492	LEFDSSIIQKV	Q9BRL7 SC22C 113_122
1493	KEILKGKDYL	Q9P289 MST4 126_135
1494	QEWLKGMTSL	Q92564 DCNL4 159_168
1495	SEAQLRQFTL	Q9NXE4 NSMA3 633_642
1496	RELDVSYVLV	P46977 STT3A 571_580
1497	KEFEKASKIL	Q15554 TERF2 211_220
1498	VEFMHYIIAA	O00541 PESC 166_175
1499	REDLRGGFML	Q9Y6X9 MORC2 55_64
1500	WEAYLSRLGV	P11172 UMPS 471_480
1501	AELKEKYISL	Q96CN9 GCC1 525_534
1502	SEFHQSFFLL	Q562F6 SGOL2 128_137
1503	SEKLLLYDTL	Q9HCU9 BRMS1 147_156
1504	AEKNDFVIFL	Q8TEL6 TP4AP 185_194
1505	REIVSGMKYI	P52565 GDIR1 120_129
1506	HEQSRIITVL	Q99487 PAFA2 301_310
1507	REGDMPIHEL	Q8N108 MIER1 60_69
1508	RENNAVY AFL	O75368 SH3L1 86_95
1509	REIIHNAVRI	P31350 RIR2 290_299
1510	YEKRMATEVA	P62753 RS6 28_37
1511	FEFGSLEQKLL	Q14671 PUM1 906_915
1512	SEYEKEITS	Q14BN4 SLMAP 624_633
1513	REAIKQIEVL	Q8IWEE5 PKHM2 74_83
1514	REIQTAVRLL	O60814 H2B1K 93_102; P06899 H2B1J 93_102; P23527 H2B1O 93_102; P33778 H2B1B 93_102; P57053 H2BFS 93_102; P58876 H2B1D 93_102; P62807 H2B1C 93_102; Q16778 H2B2E 93_102; Q5QNW6 H2B2F 93_102; Q93079 H2B1H 93_102; Q96A08 H2B1A 94_103; Q99877 H2B1N 93_102; Q99879 H2B1M 93_102; Q99880 H2B1L 93_102
1515	REIADKLI	Q16254 E2F4 91_100
1516	REANRLKTVL	Q9Y4L1 HYOU1 311_320
1517	GEWNRKSPNL	P48556 PSMD8 100_109
1518	WEEKPINTAL	Q96SN8 CK5P2 894_903
1519	REDLNQVITI	Q14789 GOGB1 2537_2546
1520	REKGNEILEL	P12270 TPR 213_222
1521	AEFREPLILL	Q96EX2 RNFT2 389_398
1522	SELKLKEIQL	P51955 NEK2 304_313
1523	KEVSMDDHKL	P05023 AT1A1 37_46
1524	GEHEIDYILL	Q13907 IDI1 145_154
1525	QEFGIPIERL	P49588 SYAC 124_133
1526	HEFEEATNLL	Q9BWQ6 YIPF2 10_19
1527	REIAGHIMEF	Q14671 PUM1 847_856
1528	KESWDKILAL	P49642 PRI1 237_246
1529	KEWSGLLEEL	Q01813 K6PP 139_148

1530	REGEKNILVF	P11021 GRP78 214_223
1531	RERFLKGEGL	Q8WYA6 CTBL1 327_336
1532	GEWEESEVKL	Q09666 AHNK 5698_5707
1533	EEIANYRPTL	Q01082 SPTB2 791_800
1534	AEYIQKNVQL	P49721 PSB2 57_66
1535	AEMETQKEKI	Q9NTJ3 SMC4 335_344
1536	KEVDNFVDKL	P48444 COPD 233_242
1537	IEFVADRLML	P31350 RIR2 324_333
1538	RESFLDDVNLL	P21675 TAF1 1565_1574; Q8IZX4 TAF1L 1584_1593
1539	QEYEDIAVKL	O15294 OGT1 974_983
1540	LEFQKSLETL	Q96JI7 SPTCS 1573_1582
1541	IEYEALKTQL	Q96LB3 IFT74 524_533
1542	KELHIQGNRL	Q15404 RSU1 183_192
1543	REIMGTPEYL	O94768 ST17B 193_202
1544	AEYESLRDLL	P49454 CENPF 758_767
1545	YEKNPDSHGY	Q9NX14 NDUBB 67_76
1546	MEFEERNAAL	Q9NP66 HM20A 244_253
1547	HELLQPVNVL	Q9UQ80 PA2G4 299_308
1548	AEFQEHEHAL	Q9NW13 RBM28 545_554
1549	GESYTHIQYL	Q8N5H7 SH2D3 275_284
1550	SEREAIEVFM	P32456 GBP2 358_367; Q96PP8 GBP5 358_367
1551	EESIDRVYSL	Q14566 MCM6 560_569
1552	QEFEPLYVSV	Q15036 SNX17 180_189
1553	SEMRYGIEIL	Q13438 OS9 37_46
1554	HERNLQSDVL	Q9H2U1 DHX36 337_346
1555	YELSPMMVKL	Q9Y282 ERGI3 325_334
1556	FEFLTKEAL	A6NHG4 DDTL 82_91; P30046 DOPD 82_91
1557	REVLEKQPVL	P28070 PSB4 196_205
1558	REFSDFIQAV	A3KN83 SBNO1 501_510
1559	KEFQLPTTTF	Q9ULD0 OGDHL 171_180
1560	LEGMFKDME	Q13619 CUL4A 491_500; Q13620 CUL4B 645_654
1561	YEDEDSSLKTL	P11388 TOP2A 522_531
1562	SERDFVAEFL	P04424 ARLY 234_243
1563	RELAQQIQKV	P60842 IF4A1 110_119; Q14240 IF4A2 111_120
1564	REIEGRAIRL	P19338 NUCL 546_555
1565	RERDLGAQRL	A6NC98 CC88B 218_227
1566	RENQVLSVRI	Q10589 BST2 139_148
1567	HEILREAYAL	Q7L5N1 CSN6 254_263
1568	AEWREALRAL	Q9H7E9 CH033 172_181
1569	LEKNLINEEL	P29374 ARI4A 706_715
1570	SELQLVEQRI	P07741 APT 4_13
1571	KEKAIEVERI	P32456 GBP2 483_492
1572	SEFDSFRQSL	Q9H6S0 YTDC2 184_193
1573	KENDHFLFLS	Q13137 CACO2 263_272
1574	RELLNPVVEF	P78527 PRKDC 2452_2461
1575	REVELPLTNF	Q9ULT8 HECD1 1830_1839
1576	FEITPEGRR	Q9Y4Y9 LSM5 57_66

1577	KENWTVVKTL	Q13112 CAF1B 116_125
1578	REAEMRNSIL	O14737 PDCD5 35_44
1579	KEAEFLQKLL	A2A3N6 PIPSL 146_155; O14986 PI51B 143_152; O60331 PI51C 193_202; Q99755 PI51A 199_208
1580	REILKGLDYL	O00506 STK25 122_131; Q9Y6E0 STK24 138_147
1581	HERTIHTDVL	Q14562 DHX8 688_697; Q9H6R0 DHX33 197_206
1582	IEFGQRMLQV	Q969T9 WBP2 120_129
1583	REYDGNIRQA	Q9NR09 BIRC6 4725_4734
1584	REIDDYIVQA	Q6NUK4 REEP3 101_110
1585	READFKETLL	Q96Q89 KI20B 616_625
1586	REKDGDLYIL	Q7LGA3 HS2ST 333_342
1587	AEIEHFIHII	P05023 AT1A1 286_295
1588	REFDMILGKL	Q8N1F7 NUP93 578_587
1589	GEKQFSEERI	P39748 FEN1 312_321
1590	MEYPEAITRL	Q04206 TF65 494_503
1591	HEAEFQHLVL	A2RRP1 NBAS 2169_2178
1592	KEFLSRSDQL	O94979 SC31A 436_445
1593	TENQYLRVSL	Q9ULG6 CCPG1 305_314
1594	WESLFSRVSL	P49327 FAS 1377_1386
1595	AEMPLRYITNL	Q9H0U9 TSYL1 298_307
1596	AEMETFRDIL	Q9Y5P4 C43BP 162_171
1597	FEVEKELFA	P26639 SYTC 399_408
1598	HEIESRILDL	P52630 STAT2 143_152
1599	FPDPNVKYVF	P22415 USF1 42_51
1600	KEKYPDAVYL	Q6IPU0 CENPP 188_197
1601	HEIQRTENSL	Q8NHM5 KDM2B 956_965
1602	REVENPQNQL	O43556 SGCE 237_246
1603	RENEVLKVQL	Q8TEQ0 SNX29 532_541
1604	KEIKELENLL	Q14789 GOGB1 2408_2417
1605	KEPRFVLRAL	O43242 PSMD3 89_98
1606	AEFKEAFLF	P60660 MYL6 10_19
1607	HEFEKDILKA	Q9H0I3 CC113 148_157
1608	TELLIRKLPF	P68431 H31 59_68; P84243 H33 59_68; Q16695 H31T 59_68; Q6NXT2 H3C 58_67; Q71DI3 H32 59_68
1609	REDESYGYVL	Q01780 EXOSX 523_532
1610	READDIVNWL	P07237 PDIA1 120_129
1611	SEFKYNKPAF	Q9NPD8 UBE2T 130_139
1612	WEAETIIQKI	Q92835 SHIP1 597_606
1613	REKTLITEKL	Q02224 CENPE 908_917
1614	KEKEYFGIAF	Q9P2Q2 FRM4A 56_65
1615	REVEELKSEL	Q96CN9 GCC1 297_306
1616	RELSEISERL	Q9BWU0 NADAP 511_520
1617	RELPEPLMTF	Q13459 MYO9B 1776_1785; Q17R89 RHG44 332_341; Q68EM7 RHG17 329_338; Q9Y3L3 3BP1 353_362
1618	HEIESLYTKL	Q9H4A3 WNK1 2096_2105
1619	REVWPEGDVF	Q9UNS1 TIM 623_632
1620	REFEDVVNIL	Q9UK61 F208A 121_130
1621	SEMEQLKQKL	Q8NEM2 SHCBP 290_299

1622	KEFNIPLEML	P42356 PI4KA 262_271
1623	KEKEPDYVLL	Q9NUL3 STAU2 320_329
1624	EEIKQEMNTL	Q14683 SMC1A 997_1006
1625	SEFKEFSQSF	Q9Y5K5 UCHL5 112_121
1626	QEYVHKSMTL	P28066 PSA5 182_191
1627	REKDDANFKL	O75150 BRE1B 780_789; Q5VTR2 BRE1A 754_763
1628	KELDMHGIFF	Q9NR96 TLR9 367_376
1629	YEALKENEKL	O75496 GEMI 111_120
1630	HEQEAILHNF	P46013 KI67 54_63
1631	KEYEGEAILW	Q96T49 PP16B 360_369
1632	YEWLRLGLTS	Q9NW38 FANCL 339_348
1633	FYDLYGGEKF	P29350 PTN6 60_69
1634	EELIKEKNNHL	Q15311 RBP1 564_573
1635	EYDGERKKTL	P53350 PLK1 202_211
1636	REYNARLFGL	Q00653 NFKB2 444_453
1637	RERIIPRSVL	P55209 NP1L1 331_340
1638	YEFLDKLDVV	O43242 PSMD3 218_227
1639	FEKIPEFIAF	Q14CX7 NAA25 590_599
1640	GELQERIQRL	Q9HCU9 BRMS1 158_167
1641	YEVDDLRLDAF	Q9GZX7 AICDA 184_193
1642	HEKPEIFTEL	Q14CB8 RHG19 51_60
1643	KEYPFILDAF	P42285 SK2L2 134_143
1644	KEIQELEQLL	P49454 CENPF 1675_1684
1645	LEKQEIIEQL	Q5H9R7 PP6R3 242_251
1646	GERERLKELL	Q9NPA8 ENY2 24_33
1647	GEKFVMQEEF	P30101 PDIA3 333_342
1648	GEIEWWKQLL	Q7Z7A1 CNTRL 1752_1761
1649	REKENIQTLL	Q9P0K7 RAI14 833_842
1650	KEIEELKELL	P49321 NASP 637_646
1651	AEFHTELERL	P48556 PSMD8 206_215
1652	KEADWILEQL	Q96Q83 ALKB3 100_109
1653	REKEIQLESL	Q6P2H3 CEP85 528_537
1654	AEKREIEEKL	Q9BW91 NUDT9 244_253
1655	SEFTWPNHDL	O94832 MYO1D 643_652
1656	GEWVERTTQLL	Q9NU22 MDN1 3099_3108
1657	IQRTPKIQVY	P61769 B2MG 21_30
1658	REKPDDPLNY	Q86Y39 NDUAB 81_90
1659	REGKEWETVL	P54198 HIRA 725_734
1660	KEELTWLQSL	Q9NXF1 TEX10 693_702
1661	IEKQKLVYIL	Q15393 SF3B3 135_144
1662	YEVIMKSQHL	O95602 RPA1 1044_1053
1663	AEFEQKINRL	Q15154 PCM1 653_662
1664	RERFLEDLVA	Q9NWQ9 CN119 54_63
1665	RELRSIIETM	Q96B97 SH3K1 617_626
1666	REIQDDMQTL	A6NHR9 SMHD1 393_402
1667	KENDFDRLVL	O14579 COPE 293_302
1668	IEMEKVMQEL	Q9NQ89 CL004 172_181

1669	KEKEPEYTL	O95793 STAU1 299_308
1670	REKLDTLVEF	P51784 UBP11 838_847
1671	KEDDVRQYVV	P62753 RS6 149_158
1672	RERIWAPLL	Q8IVL5 P3H2 2_11
1673	FEKNPDLYL	Q6P1N9 TATD1 84_93
1674	FEYDTPRIVL	Q99571 P2RX4 13_22
1675	AEIKELFQYI	Q9NQC8 IFT46 76_85
1676	REISDHVLRM	P25205 MCM3 495_504
1677	SEWKDTNYTL	Q07021 C1QBP 217_226
1678	RETDFYLQSV	Q9ULW3 ABT1 180_189
1679	RERWGDLVQV	O60244 MED14 317_326
1680	RQYKGMDFTL	Q9H2D1 MFTC 161_170
1681	YEYKDGRKL	Q92530 PSMF1 69_78
1682	RELDLEENKL	Q9UQ13 SHOC2 451_460
1683	REIDTLNERL	Q9Y2I8 WDR37 81_90
1684	AEMKEYITKF	Q9H410 DSN1 209_218
1685	PSEWQMIQKL	Q86UV5 UBP48 801_810
1686	RELEETNQKL	Q01850 CDR2 92_101
1687	RENVPAWEIF	O60306 AQR 103_112
1688	KEYYPGFNP	A2VDJ0 T131L 1569_1578
1689	REIFDLIRSI	Q9Y3D0 MIP18 44_53
1690	AELKRKFEQL	Q13310 PABP4 274_283
1691	FEYFGPDFKL	Q13547 HDAC1 334_343; Q92769 HDAC2 335_344
1692	YEPRVINQML	Q16594 TAF9 31_40; Q9HBM6 TAF9B 31_40
1693	RDFNSELLRL	Q9NVC6 MED17 181_190
1694	KELEAFREEL	P30533 AMRP 272_281
1695	VEKYIEEQLL	Q9Y2Y0 AR2BP 73_82
1696	YEIERTIVQL	O75934 SPF27 193_202
1697	YEWPKPDEQGL	Q92973 TNPO1 11_20
1698	RESEKIIENF	Q96PZ2 F111A 305_314
1699	FEKSRLDQEL	P46781 RS9 20_29
1700	AEWNILYDKL	Q99832 TCPH 269_278
1701	KEFEDKKVEL	Q9H7L9 SDS3 137_146
1702	VERSIDDWVF	Q9H0D6 XRN2 328_337
1703	FERPQYAEIL	Q15014 MO4L2 202_211; Q9UBU8 MO4L1 276_285
1704	REAEPYYLLL	Q9H1Y0 ATG5 30_39
1705	RELEASEAWTTDF	Q9UFH2 DYH17 4328_4337
1706	HELNQKWEAL	Q13813 SPTN1 866_875
1707	REYPNLVTIY	Q9HB58 SP110 91_100
1708	REMEQSMNMML	Q9NPA0 EMC7 192_201
1709	REAEHLYHTL	Q7Z460 CLAP1 519_528
1710	KEYDEPYVLL	O15439 MRP4 1253_1262
1711	HEILRQVNEM	P49257 LMAN1 397_406
1712	FEFDEQGREL	O95163 ELP1 1246_1255
1713	KEFDKKYNPT	P63167 DYL1 44_53; Q96FJ2 DYL2 44_53
1714	SEFRKNFETL	Q9BVG4 PBDC1 73_82
1715	REMFPNPMYAL	Q7Z6Z7 HUWE1 4071_4080

1716	RELEEARKKL	Q9Y490 TLN1 2513_2522; Q9Y4G6 TLN2 2513_2522
1717	FEIITPYRSF	Q8WZ64 ARAP2 648_657
1718	SEVILHHEYF	O75643 U520 1230_1239
1719	KEWDLLNENI	O00232 PSD12 78_87
1720	KEFEENTQHL	A2VDJ0 T131L 271_280
1721	REHDIAIKFF	P30260 CDC27 581_590
1722	QELDRVFQKL	O95229 ZWINT 183_192
1723	REIEELLNNF	Q96QU8 XPO6 29_38
1724	RELESFLRNL	Q9UPN3 MACF1 796_805
1725	TEWDPLDVRF	O95876 FRITZ 282_291
1726	FEWVAERVEL	P22234 PUR6 249_258
1727	LEFENQKTRL	Q14683 SMC1A 808_817
1728	RELDLYDNQI	Q15435 PP1R7 123_132
1729	HEYTINNLKF	Q16775 GLO2 221_230
1730	KEKNLFEEEL	O75330 HMMR 369_378
1731	KEIYNEKELL	P60228 EIF3E 29_38
1732	FEIQYPLKKL	Q9UIQ6 LCAP 408_417
1733	TEYRRQVQSL	P08670 VIME 317_326
1734	TEIYEFHKTL	A6NI72 NCF1B 46_55; A8MVU1 NCF1C 21_30; P14598 NCF1 45_54
1735	REFEKMNQSL	P52701 MSH6 1321_1330
1736	REFNDL DLL	P51826 AFF3 1186_1195
1737	AEYDNFFQHL	Q7Z460 CLAP1 357_366
1738	REFDYVINDL	P52788 SPSY 268_277
1739	HEWFIPARDL	Q9BPZ3 PAIP2 71_80
1740	FEYLLKQTEL	O60264 SMCA5 92_101
1741	REFDKRFTSV	Q8WU67 ABHD3 302_311
1742	GEYRQKLLMF	Q96JC1 VPS39 658_667
1743	MEHPYFYTVV	P68400 CSK21 319_328; Q8NEV1 CSK23 319_328
1744	SEIEEFYQKL	Q53T59 H1BP3 72_81
1745	REQWANLEQL	Q01082 SPTB2 723_732
1746	REWEREVLGI	Q96ST3 SIN3A 924_933
1747	REDWKQSVEL	Q92845 KIFA3 184_193
1748	RELEALKQRF	Q9HAW4 CLSPN 526_535
1749	REKFPEKIPF	P42345 MTOR 2368_2377
1750	GENEYFRVFM	P22681 CBL 110_119
1751	YEIITPWRLT	Q13443 ADAM9 43_52
1752	YETERLIQEL	O43681 ASNA 256_265
1753	REWSDWSSEL	O95714 HERC2 3671_3680
1754	KEFQDLREVM	Q53GS7 GLE1 182_191
1755	KEKYIDQEEL	P07900 HS90A 281_290; P08238 HS90B 273_282; Q14568 HS902 280_289; Q58FF8 H90B2 195_204
1756	REIRELFSTF	Q9Y4C8 RBM19 846_855
1757	RELEKVLHKF	Q9H871 RMD5A 9_18
1758	YEVSLREKEF	Q16531 DDB1 193_202
1759	RELEQEVQRL	Q9BZE2 PUS3 19_28
1760	REMNPNYTEF	P49840 GSK3A 345_354; P49841 GSK3B 282_291
1761	FENQVKYLEM	Q96LB3 IFT74 224_233

1762	YEFFAKRQLV	P36873 PP1G 255_264; P62136 PP1A 255_264; P62140 PP1B 254_263
1763	KELDQWIEQL	P67775 PP2AA 8_17
1764	LEKWLKEDKL	P53675 CLH2 448_457; Q00610 CLH1 448_457
1765	SEYSKQMQRF	Q13547 HDAC1 85_94; Q92769 HDAC2 86_95
1766	YEIDMKQYTL	O14578 CTRO 1752_1761
1767	LEFLWERPTL	Q6IN84 MRM1 244_253
1768	REWTEQETLL	Q8TAQ2 SMRC2 599_608; Q92922 SMRC1 621_630
1769	HEYFPEMQIL	P04035 HMDH 672_681
1770	WEVELQKNNF	Q14258 TRI25 514_523
1771	KEFEPLLNNWM	P14625 ENPL 613_622
1772	KEIDYQRELL	Q8TED0 UTP15 472_481
1773	RELEDHIRKL	Q9BQE5 APOL2 90_99
1774	TEYRKWKDAL	Q9NQZ5 STAR7 186_195
1775	QEYQNKLIAL	Q9NZM3 ITSN2 545_554
1776	HEAHPWFEL	Q96JI7 SPTCS 1028_1037
1777	KEYEGKWLLF	O94782 UBP1 741_750
1778	RELEEEFYSL	Q92613 JADE3 401_410
1779	YERSNEYQLI	P63092 GNAS2 163_172; Q5JWF2 GNAS1 806_815
1780	REMERLIKLL	Q13371 PHLP 82_91
1781	RELFEPWNNL	Q9HC16 ABC3G 169_178
1782	REIEIRFDQL	Q8NCD3 HJURP 432_441
1783	QEIEEFKERL	P0DJ07 PT100 48_57
1784	KEWKKKYVTL	Q96P47 AGAP3 384_393; Q99490 AGAP2 693_702; Q9UPQ3 AGAP1 363_372
1785	HEMDIRYDNM	P21333 FLNA 1840_1849
1786	KEWEKFQEEA	P26639 SYTC 309_318
1787	REFIQDFQKLL	Q14C86 GAPD1 1266_1275
1788	KEDEFRMPYL	O95793 STAU1 399_408
1789	YEYADERLRI	O60783 RT14 45_54
1790	REIKERIERV	P50502 F10A1 245_254; Q8NFI4 F10A5 245_254
1791	RELDQQKLWL	Q15329 E2F5 145_154
1792	WEYSDYNIKL	O75795 UDB17 118_127
1793	REYYDHLPEL	P11216 PYGB 730_739
1794	REYLERELTM	Q9H0D6 XRN2 310_319
1795	HEWEERRDAL	Q8IWR0 Z3H7A 931_940
1796	REFNFEKWNA	P78347 GTF2I 347_356
1797	RELDRERQKL	O43633 CHM2A 27_36
1798	REFWEIVHSF	Q05086 UBE3A 788_797
1799	REWDFDLKKL	Q96EY4 TMA16 144_153
1800	REDYTRYNQL	Q9NV31 IMP3 42_51
1801	YEYDNLYVHF	Q9NXB0 MKS1 325_334
1802	KEKNRETWYL	P15170 ERF3A 114_123; Q8IYD1 ERF3B 243_252
1803	REYELRKNNF	P62913 RL11 90_99
1804	REFVRQYYTL	Q13283 G3BP1 13_22; Q9UN86 G3BP2 13_22
1805	REWEFQKYGH	P62877 RBX1 99_108
1806	REREWEREVL	Q96ST3 SIN3A 922_931
1807	REYRPEYERL	Q9HCN4 GPN1 267_276
1808	GEGGSFGELAL	P10644 KAP0 195_205

1809	AEAPSESKPAA	Q92539 LPIN2 370_380
1810	GEHIIAGAGEL	P13639 EF2 542_552
1811	AEDGSAGVRVL	Q8N5A5 ZGPAT 158_168
1812	GESHVSGTTL	Q9UPT9 UBP22 352_362
1813	KEKGSSASLVL	Q00325 MPCP 293_303
1814	GEHVILGTGEL	Q15029 U5S1 625_635
1815	GEHTPSALAIM	P04075 ALDOA 155_165
1816	KERSGVSLAAL	P10412 H14 52_62; P16402 H13 53_63; P16403 H12 52_62
1817	GEMTLKSALAL	P25789 PSA4 182_192
1818	LEAEKAATITP	Q13423 NNTM 458_468
1819	KEIEVGGGRKA	P62081 RS7 49_59
1820	KEDGAISTIVL	P50990 TCPQ 367_377
1821	GETDLSKALVL	O14732 IMPA2 161_171
1822	REALDVGLAVL	Q92552 RT27 277_287
1823	LELGGGLGERVL	P05023 AT1A1 543_553; P13637 AT1A3 533_543; Q13733 AT1A4 550_560
1824	PEAETRAGLTL	P69849 NOMO3 469_479; Q15155 NOMO1 469_479; Q5JPE7 NOMO2 469_479
1825	SESDKTAVLTL	O75410 TACC1 599_609
1826	RELPAGINSIV	P30876 RPB2 770_780
1827	KEDNGIGILT	Q9NTX5 ECHD1 59_69
1828	GESDDISILRLA	P63220 RS21 63_73
1829	KEGDPLVFATV	O75530 EED 106_116
1830	KEAIETIVAAM	P63092 GNAS2 100_110; Q5JWF2 GNAS1 743_753
1831	GELPTSPLHLL	Q969R5 LMBL2 62_72
1832	SEVKGLDAFVL	Q6P3X3 TTC27 131_141
1833	GEIASFDKAKL	P63313 TYB10 8_18
1834	VEDPAGHQEEA	P21333 FLNA 320_330
1835	KPSDMTLPLAL	Q9NPC7 MYNN 556_566
1836	AEALLSDLHAF	Q14761 PTCA 173_183
1837	SEADKRGLTPL	Q9BWD1 THIC 267_277
1838	GEIQEIVKTGL	P35606 COPB2 518_528
1839	AEAFEAIPRAL	P50990 TCPQ 442_452
1840	SEIPKLPAVSF	O96009 NAPSA 318_328
1841	VEFNGKLLASI	Q16531 DDB1 874_884
1842	GEFNNGRIGVFP	O94868 FCSD2 610_620
1843	RELMGGIGKTM	P60602 ROMO1 50_60
1844	GEIGGTEEYKI	P53396 ACLY 717_727
1845	GENGRLSFFGL	Q9ULF5 S39AA 72_82
1846	KEAEPDLLAVL	Q9UBB6 NCDN 212_222
1847	AEFHQIEGVVA	Q9Y285 SYFA 368_378
1848	AEAVSRVLNKL	O00244 ATOX1 16_26
1849	AEFKKVQGEAV	E9PAV3 NACAM 2003_2013; Q13765 NACA 140_150; Q9BZK3 NACP1 139_149
1850	SEFLSTAPRSL	Q13416 ORC2 156_166
1851	GEAIKYLTEAL	P56282 DPOE2 23_33
1852	GEFLPKGYLAL	Q9ULT0 TTC7A 483_493
1853	KEFDGKSLVSV	P08238 HS90B 526_536; Q58FF7 H90B3 399_409; Q58FF8 H90B2 299_309
1854	AERDVYTGDAL	P20618 PSB1 211_221
1855	AELKGHTSRVL	Q12834 CDC20 437_447

1856	IEWPGANAQLL	Q96JJ3 ELMO2 12_22
1857	GERGSIGFLYL	Q15393 SF3B3 655_665
1858	AENRLQAVEAL	Q9UDT6 CLIP2 790_800
1859	GEFTLHGRAIL	Q8WV22 NSE1 164_174
1860	HENAAFKDVAL	Q5JTV8 TOIP1 498_508; Q8NFQ8 TOIP2 384_394
1861	AEVEAQKAQQL	Q9ULW0 TPX2 679_689
1862	REAPTSLSQLL	Q14686 NCOA6 1485_1495
1863	KEAIKSSLIIL	P28066 PSA5 192_202
1864	HEMDTSNGVLL	Q9ULV4 COR1C 260_270
1865	SEDRARASLVL	Q9BX59 TPSNR 54_64
1866	SEISAELIRSL	Q9H9E3 COG4 26_36
1867	REPALDGGFQM	Q9Y6B2 EID1 139_149
1868	AERDGKNNVAF	P35606 COPB2 719_729
1869	KELDSNPFASL	Q9NVS9 PNPO 119_129
1870	AEMPLPPVLTHL	Q9UGV2 NDRG3 117_127
1871	GEVFSFINIKTL	O15371 EIF3D 386_396
1872	GEDNGQRGYLL	O00116 ADAS 497_507
1873	GEPRYALTTL	Q9HB07 MYG1 185_195
1874	TESILRGIFSV	Q96PP9 GBP4 433_443
1875	TENGYAHNVSM	O14777 NDC80 104_114
1876	REASIYTGITL	P38606 VATA 323_333
1877	AENGFLPIHLL	P05023 AT1A1 874_884
1878	REVGIPPEQSL	P61158 ARP3 211_221; Q9C0K3 ARP3C 82_92; Q9P1U1 ARP3B 211_221
1879	GEISDIHTKLL	Q9UHD2 TBK1 496_506
1880	TETDLHGSLRV	Q9H832 UBE2Z 344_354
1881	SEIVQNGLIV	P78317 RNF4 140_150
1882	SEAGSHIIQRM	P04222 C03 112_122; P10319 B58 112_122; P30481 B44 112_122; P30491 B53 112_122; P30685 B35 112_122; Q07000 C15 112_122
1883	TEFGGSIYQKV	P21796 VDAC1 188_198; P45880 VDAC2 199_209; Q9Y277 VDAC3 188_198
1884	LESPYITGHVL	Q8N4T8 CBR4 217_227
1885	GEILPFPESQL	Q7Z7L1 SLN11 202_212
1886	AESERVVQEAL	Q9NUT2 ABCB8 644_654
1887	MEDPRRAASSL	Q16633 OBF1 220_230
1888	FEMTVPGALRL	Q9NXB0 MKS1 303_313
1889	SESASRLQMIL	Q6YHU6 THADA 982_992
1890	FEFGGPEVLKL	Q08257 QOR 14_24
1891	KEKDSFTAVVI	A6NHR9 SMHD1 314_324
1892	GEYGDQNSRLV	P45844 ABCG1 331_341
1893	RELPRGVLEG	Q86UD0 SAPC2 62_72
1894	FEILPPDIGKL	Q15404 RSU1 146_156
1895	QUELLSKGLIKL	P62851 RS25 89_99
1896	HEFKPQSGAEI	O43683 BUB1 413_423
1897	AESDFASTFRL	Q9UBW8 CSN7A 56_66
1898	AEDELRDAVLL	P61204 ARF3 112_122; P84077 ARF1 112_122
1899	QEKAALIMQVL	Q9H0L4 CSTFT 574_584
1900	AENPAMTRELL	Q9UH62 ARMX3 271_281
1901	KEIELPSGQLM	Q9H0A0 NAT10 882_892

1902	GEMGKDYIYAV	O75533 SF3B1 1159_1169
1903	GELLDLQKQSEL	Q96EK5 KBP 334_344
1904	RETKVLGALLF	Q8IUR0 TPPC5 78_88
1905	GESDLENSRKL	Q9Y490 TLN1 846_856
1906	GEFPGEKSRL	Q12789 TF3C1 1234_1244
1907	FERIAGEASRL	O60814 H2B1K 71_81; P06899 H2B1J 71_81; P23527 H2B1O 71_81; P33778 H2B1B 71_81; P57053 H2BFS 71_81; P58876 H2B1D 71_81; P62807 H2B1C 71_81; Q16778 H2B2E 71_81; Q5QNW6 H2B2F 71_81; Q6DN03 H2B2C 71_81; Q6DRA6 H2B2D 71_81; Q93079 H2B1H 71_81; Q99877 H2B1N 71_81; Q99879 H2B1M 71_81  Q8IZT6 ASPM 917_927
1908	AEFKASKEILL	P62333 PRS10 324_334
1909	GEIDYEAIVKL	P41229 KDM5C 22_32
1910	AEFRDPLGYIA	Q7Z4H7 HAUS6 618_628
1911	REVLPESLPVL	Q13085 ACACA 213_223
1912	SENPKLPELLL	Q9UBI1 COMD3 4_14
1913	SESVQKGQML	Q9UIA0 CYH4 116_126
1914	GERDPINLQVL	A4D1E9 GTPBA 316_326
1915	VEFQHIIPIASA	A6NED2 RCCD1 197_207
1916	AELEPRLLREAL	Q06203 PUR1 248_258
1917	REVLPGEIVEI	O75694 NU155 768_778
1918	HEAQLSEKISL	P49368 TCPG 491_501
1919	KELGIWEPLAV	P47974 TISD 125_135
1920	SENGDRSQHLL	P49327 FAS 1337_1347
1921	REGGFLLLHTL	Q9UJK0 TSR3 243_253
1922	REFGNPNRPVA	O75665 OFD1 808_818
1923	SEFSDVDKLAF	Q7Z5Y7 KCD20 299_309
1924	IENRDVAKTVL	O60306 AQR 136_146
1925	GEFSLHEQTQL	O43913 ORC5 11_21
1926	RESQVSILQL	Q9NU22 MDN1 1801_1811
1927	GEFAWRDGPLL	P62081 RS7 30_40
1928	LEMNSDLKAQL	P13639 EF2 580_590
1929	RETVSEESNVL	P46781 RS9 27_37
1930	QELKLIGEYGL	P27816 MAP4 19_29
1931	GEIKRDFIATL	Q86UP2 KTN1 952_962
1932	RESDLSSKTQL	Q9BW91 NUDT9 229_239
1933	REFGEEALNSL	O60306 AQR 1345_1355
1934	GERPSHEVQII	O95229 ZWINT 104_114
1935	REHVEAIKIGL	Q9NRW7 VPS45 380_390
1936	TEFDAARLVML	P23921 RIR1 632_642
1937	GEFQIVNPMLL	P20592 MX2 280_290
1938	HEVDPEGDRTI	P69849 NOMO3 301_311; Q15155 NOMO1 301_311; Q5JPE7 NOMO2 301_311
1939	TFDVAPSRLDF	Q9Y450 HBS1L 643_653
1940	VELQTQRPIAL	A0AV96 RBM47 291_301
1941	REDAVHAMNNL	P02786 TFR1 15_25
1942	GEPLSYTRFSL	Q96P71 NECA3 100_110
1943	SEHLGVYRPVL	Q9UPW0 FOXJ3 289_299
1944	FEDLSASFRSL	P68104 EF1A1 65_75; Q05639 EF1A2 65_75; Q5VTE0 EF1A3 65_75
1945	AERERGITIDI	

1946	SELNISEIQKL	Q8TD16 BICD2 338_348; Q96G01 BICD1 319_329
1947	HESLYNALQLS	Q13315 ATM 2125_2135
1948	KELPVNAQNYV	P30520 PURA2 419_429
1949	GERLFPLIQAM	P11940 PABP1 563_573; Q9H361 PABP3 558_568
1950	WEENASRALSL	Q9NU22 MDN1 3787_3797
1951	GELSKYRVPNL	Q16667 CDKN3 82_92
1952	HENESVYKASL	P52292 IMA1 479_489
1953	KELILHNPVTL	Q9NY93 DDX56 208_218
1954	REIVIGVLHQL	Q9UH92 MLX 283_293
1955	FEANYVAIHTL	O60502 NCOAT 318_328
1956	KENQNIAYVSL	Q9H967 WDR76 25_35
1957	HEDVKKALLLL	P33993 MCM7 347_357
1958	IEFDPSKPFSL	Q92889 XPF 759_769
1959	HEPIPSLFRAL	Q9GZX9 TWSG1 97_107
1960	GEFPDLHRTIV	Q9H4I3 TRABD 246_256
1961	IEKAILEQQVL	Q9UPN3 MACF1 1460_1470
1962	FEITPPVVRL	P06748 NPM 92_102
1963	GEFEKKYVATL	P62826 RAN 33_43
1964	RENGKTVIRVL	P25789 PSA4 218_228
1965	REILETLIKGL	Q06210 GFPT1 17_27
1966	RERVTVAKLTL	Q9Y2H1 ST38L 18_28
1967	AEYGEIKNIHL	Q9Y5S9 RBM8A 94_104
1968	KELEDSLLARL	Q9UFH2 DYH17 3579_3589
1969	SEVDLTRSFNF	Q9P2T1 GMPR2 28_38
1970	KEFMPPGLQEL	P49591 SYSC 457_467
1971	KELEPLKEMTA	Q96BX8 MOB3A 203_213
1972	QESPLFNNVKL	Q9BRG1 VPS25 55_65
1973	LEWDEGKRNSG	Q53EP0 FND3B 414_424
1974	REKDLTEVSTL	Q8NEU8 DP13B 119_129
1975	FEHFIEGGRTV	Q96FW1 OTUB1 190_200
1976	YELIQKGVTTEL	Q8N0X2 SPG16 134_144
1977	SEADARIFKAW	Q92985 IRF7 53_63
1978	KEFAPVYPIMV	Q9UP83 COG5 818_828
1979	REVDLKNGHNL	Q8TEK3 DOT1L 1416_1426
1980	KEYEEDGARSI	P61163 ACTZ 361_371
1981	AEYEKTIAQMI	O75410 TACC1 643_653; O95359 TACC2 2787_2797
1982	YQFDKVGILTL	Q13769 THOC5 420_430
1983	GENYMMRNAVL	Q15021 CND1 328_338
1984	LEHDPQYAVIL	O60841 IF2P 1025_1035
1985	RELVPQDLWAA	Q9NVR2 INT10 15_25
1986	SEPWITKPRAL	Q14534 ERG1 537_547
1987	REKQLANVQVL	Q96DY7 MTBP 466_476
1988	RERHPGSFDVV	P22090 RS4Y1 198_208; P62701 RS4X 198_208
1989	GEFGKPYFIKL	P13051 UNG 104_114
1990	GEFVDDYTDRV	O00487 PSDE 59_69
1991	RETTPLTIEKL	P30281 CCND3 114_124
1992	REKRTTVVAQL	P60228 EIF3E 71_81

1993	VERLDNGTWVL	Q9UH17 ABC3B 220_230
1994	GEIEDKLKREL	Q14789 GOGB1 2674_2684
1995	LEFDPAQRITL	P49761 CLK3 601_611
1996	GEYFNGQKTF	Q8TBB5 KLDC4 83_93
1997	REQEAGLLQFL	Q9NZL4 HPBP1 220_230
1998	KELRHPNIVSL	P06493 CDK1 56_66
1999	REDGSFSFYSL	P69849 NOMO3 274_284; Q15155 NOMO1 274_284; Q5JPE7 NOMO2 274_284
2000	SEMSEEKRAKL	O15042 SR140 834_844
2001	AEIEKFDKSKL	O14604 TYB4Y 8_18; P62328 TYB4 8_18
2002	TEIDDTKVFKI	Q9Y4D1 DAAM1 629_639
2003	KEPEKEIRPAL	P50395 GDIB 360_370
2004	KEMDLSVETLF	Q969J3 L12R1 119_129
2005	KEHDLAMINQL	Q8WWN9 ICEF1 369_379
2006	RELDALLIQKL	Q5THK1 PR14L 2122_2132
2007	KEFLEKLLPPV	O95372 LYPA2 221_231
2008	RQADFEAHNIL	P49915 GUAA 589_599
2009	REVDPDGRRTL	O00429 DNM1L 201_211
2010	TEGDWWLAHSL	P12931 SRC 117_127
2011	RDFAVLEDHTL	Q8IVM0 CCD50 19_29
2012	SERGRDLEQIL	Q9BZX2 UCK2 172_182
2013	GELTEGIWRRV	Q08945 SSRP1 46_56
2014	RELDGDRSKQL	Q86Y91 KI18B 518_528
2015	RERITSEAEDL	P61289 PSME3 19_29
2016	VWDLFPEADKV	B5ME19 EIFCL 766_776; Q99613 EIF3C 765_775
2017	KEYFSTFGEVL	Q13148 TADBP 121_131
2018	GERDEFNIQVL	Q15438 CYH1 117_127
2019	FEKLPDGTWNL	Q13627 DYR1A 395_405
2020	VEWDPTGRYVV	P55884 EIF3B 657_667
2021	YEVT PDDKRKA	P43250 GRK6 90_100
2022	TEREPDQTFSL	Q9GZP4 PITH1 119_129
2023	KEFNFPPEAVL	Q9UPN7 PP6R1 539_549
2024	SEFREDMPSIL	Q8NI27 THOC2 74_84
2025	KELDPTNMITYI	P31948 STIP1 252_262
2026	YEFPLNKVDSDL	Q9UJA5 TRM6 255_265
2027	REYLPEGDFSI	Q7Z5K2 WAPL 1144_1154
2028	REDGVTPYMF	P13693 TCTP 152_162
2029	REHFTPEATQL	Q9UKK3 PARP4 230_240
2030	REKEDLVDLVL	Q969K3 RNF34 138_148
2031	KENLLESVQRL	Q9NXR1 NDE1 159_169
2032	REIFLSQPILL	P36873 PP1G 43_53; P62136 PP1A 43_53; P62140 PP1B 42_52
2033	AEIEEDKARRI	P78527 PRKDC 3349_3359
2034	REKNLDDLTLL	Q4VC31 CCD58 89_99
2035	REGDLLTKERL	Q7L576 CYFP1 1076_1086; Q96F07 CYFP2 1100_1110
2036	TEWLDGKHVVF	P62937 PPIA 119_129
2037	SELLRERESVL	O95071 UBR5 305_315
2038	KEKKEEQVISL	P62263 RS14 7_17
2039	YEIDTGEETKF	Q0VDF9 HSP7E 100_110

2040	TEFVHQNSQEI	O43164 PJA2 246_256
2041	YEIHDGMNLEL	Q9BZL1 UBL5 60_70
2042	EEWSADLNRTL	Q9UNF0 PACN2 302_312
2043	SEFLYDKALTF	Q6P158 DHX57 390_400
2044	NEDLRRSFNAL	Q14789 GOGB1 2583_2593
2045	AEYLKRAEEIL	Q9NRS6 SNX15 323_333
2046	GEFNEQVLRLM	Q9H0K1 SIK2 294_304
2047	REIAQDFKTDL	P68431 H31 73_83; P84243 H33 73_83; Q16695 H31T 73_83; Q71DI3 H32 73_83
2048	REWYTGRVTAV	Q9Y6X9 MORC2 805_815
2049	VEYDGERKKTL	P53350 PLK1 201_211
2050	LEWLDKSKSSF	Q9BRG1 VPS25 87_97
2051	GEKFEDENFIL	P62937 PPIA 80_90
2052	VEFFDEKLNSL	P30153 2AAA 436_446; P30154 2AAB 448_458
2053	RERSDLGIFTF	P61009 SPCS3 58_68
2054	RERELLGKVQL	Q9BSJ8 ESYT1 1068_1078
2055	SEFKYNKPAFL	Q9NPD8 UBE2T 130_140
2056	GEYQNQEIHNL	Q14692 BMS1 225_235
2057	GEWTPTLQHYL	P14635 CCNB1 359_369
2058	FYEPQKGSIYL	O75027 ABCB7 521_531
2059	KEWLEDKGQQL	P05455 LA 128_138
2060	REAAEERVQKSL	Q15149 PLEC 2121_2131
2061	RENLEEEAIM	Q9P0J0 NDUAD 88_98
2062	AELRRMQEMIA	Q15019 SEPT2 327_337
2063	SEFFRSGKYDL	P06733 ENOA 249_259
2064	QEYQEKGVRVL	P61160 ARP2 376_386
2065	FEKNVEITEQL	Q6PL18 ATAD2 89_99
2066	KEMQPTHPIRL	P27348 1433T 158_168; P31946 1433B 160_170; P63104 1433Z 158_168
2067	KELEFSKDKIL	Q96TA2 YMEL1 568_578
2068	REKFENSIESL	P83111 LACTB 295_305
2069	RENGTMEIYQL	Q10570 CPSF1 789_799
2070	KEFEDRGFVQV	P54136 SYRC 347_357
2071	KEYGQIESVRF	P42696 RBM34 206_216
2072	RERLEQADLIL	Q969Y2 GTPB3 323_333
2073	IERINNEIDQL	Q9UQE7 SMC3 704_714
2074	REIDVRIDRNA	P52272 HNRPM 720_730
2075	REKLAEKKELL	Q9Y6K9 NEMO 319_329
2076	KERDLKEILTL	Q9UKG1 DP13A 119_129
2077	RENYDRGYSSL	P17844 DDX5 511_521
2078	AEIRDQMQQQL	P20700 LMNB1 347_357
2079	REILPEKQAEF	P78527 PRKDC 631_641
2080	IELEPNRQFTL	Q9BRX2 PELO 102_112
2081	REHMGQLLHQL	Q04637 IF4G1 1294_1304
2082	REIRHPNIITL	O43293 DAPK3 69_79
2083	REGSIRYWPSL	Q8WUM0 NU133 180_190
2084	IEYARQLEMIV	P48556 PSMD8 340_350
2085	RERDFPSFAQL	P53602 MVD1 245_255
2086	LEFEDTEENKL	Q9Y2Y0 AR2BP 50_60

2087	EYDDRTARVL	Q9UKN8 TF3C4 720_730
2088	MEKQNIEYEAL	Q96LB3 IFT74 519_529
2089	YEAIRSEMEQL	Q8TD16 BICD2 68_78
2090	TNTQTYRESLR	P30464 B15 93_103; P30466 B18 93_103; P30479 B41 93_103; P30483 B45 93_103; P30486 B48 93_103; P30488 B50 93_103; P30685 B35 93_103; Q04826 B40 93_103
2091	TEYENFKVQVL	Q5VW36 FOCAD 682_692
2092	FEYIGEQKDEL	Q5HYK7 SH319 580_590
2093	REFLFNAIETM	P31350 RIR2 190_200; Q7LG56 RIR2B 152_162
2094	REKEPNRLESL	O14777 NDC80 286_296
2095	GELRWPPEEFL	Q53QV2 LBH 76_86
2096	KWEAAREAEQR	P01889 B07 170_180; P30504 C04 170_180; P30510 C14 170_180; Q29865 C18 170_180; Q9TNN7 C05 170_180
2097	REMETLILKEL	O95067 CCNB2 247_257
2098	GEPQSWFQRQL	P26358 DNMT1 1390_1400
2099	REIESSPQYRL	Q8WWM7 ATX2L 301_311
2100	KEFEREKQLTA	Q9UL45 BL1S6 156_166
2101	YEFESTQEPLH	Q5H9U9 DDX6L 373_383
2102	YEWDVAEARKI	P13639 EF2 639_649
2103	LEYDYRGLIKL	Q92624 APBP2 513_523
2104	HEWEESNVQIL	O60293 ZC3H1 1880_1890
2105	REIEQVNDRV	P0C1Z6 TFPT 90_100
2106	HEFDGDEQFYV	P01909 DQA1 50_60
2107	QEFLTDMKQVF	Q9UIG0 BAZ1B 1402_1412
2108	QEWKRLGVSQL	Q8WUK0 PTPM1 85_95
2109	KEFEENTQHLL	A2VDJ0 T131L 271_281
2110	AEFEKNFKEVF	Q13342 SP140 848_858
2111	AEFEKDFKEVF	Q9H930 SP14L 561_571
2112	KEHEVEKMFTL	Q96AX1 VP33A 56_66
2113	AEFFQMESQKF	Q13618 CUL3 214_224
2114	KERFLDVENEL	P49454 CENPF 1990_2000
2115	REKPDDPLNYF	Q86Y39 NDUAB 81_91
2116	VEWYKKGIEEL	Q9UBP0 SPAST 146_156
2117	KEIDMLLKEYL	Q53EL6 PDCD4 329_339
2118	REWKEQGSKTF	Q15392 DHC24 79_89
2119	REFDQKALLEF	Q03113 GNA12 83_93
2120	SEYRQLSLHTYL	O00567 NOP56 275_285
2121	REYHTDTTVKF	P11388 TOP2A 958_968
2122	FEFMQRALQDL	Q5BLP8 CD048 54_64
2123	WEFQPSNRTSF	P23458 JAK1 1132_1142
2124	SEYWDRETRSA	P13747 HLAE 78_88
2125	WEQQEPGERKL	Q14137 BOP1 330_340
2126	LEKRLQEIEEL	P78362 SRPK2 283_293
2127	RERVNEAREEL	P61204 ARF3 97_107; P84077 ARF1 97_107
2128	REHEIGEWEAF	Q86WH2 RASF3 183_193
2129	RENEVDWLTEL	O60381 HBP1 104_114
2130	HERRISQIQQL	O60306 AQR 411_421
2131	REYQDLLNVKM	P07197 NFM 382_392; P08670 VIME 381_391; P12036 NFH

2132	YEFQWGPRTNL	383_393; P17661 DESM 386_396; Q16352 AINX 377_387  Q96MG7 MAGG1 246_256
2133	REKYDNMAELF	Q9UK41 VPS28 33_43
2134	KEKVLPWFEQL	O00410 IPO5 854_864
2135	REYEDNDEVHI	Q9UKF6 CPSF3 433_443
2136	REQESKYIEEL	Q9Y6Q9 NCOA3 38_48
2137	RETWLSENQRL	O15020 SPTN2 437_447; P11277 SPTB1 434_444; Q01082 SPTB2 434_444
2138	RETELYQYNIL	Q6PGP7 TTC37 947_957
2139	KEWNEKELQKL	Q6P0N0 M18BP 878_888
2140	HEWQDEFSHIM	Q9UKT5 FBX4 301_311
2141	REYNEYENIKL	Q9UKT9 IKZF3 91_101
2142	REFVRQYYTLL	Q13283 G3BP1 13_23; Q9UN86 G3BP2 13_23
2143	REYHERLQTFL	O14929 HAT1 172_182
2144	RERDVDRDREF	Q14152 EIF3A 1229_1239
2145	REYRRFEKEKL	P05107 ITB2 733_743
2146	GEVSAATGRFSL	O75881 CP7B1 3_14
2147	AERVGAGAPVYL	P0C0S8 H2A1 41_52; P16104 H2AX 41_52; Q8IUE6 H2A2B 41_52; Q93077 H2A1C 41_52; Q96KK5 H2A1H 41_52; Q99878 H2A1J 41_52; Q9BTM1 H2AJ 41_52
2148	GEVAPDAKSFVL	P09382 LEG1 22_33
2149	GEPLLPAGTQRV	O43824 GTPB6 87_98
2150	AEILARDGPNAL	P05023 AT1A1 69_80
2151	AEIGEGAYGKVF	Q00534 CDK6 17_28
2152	GEADILAALKKL	Q12899 TRI26 170_181
2153	AEGAFPNLARVL	Q9BTL4 IER2 167_178
2154	AELFAEGQGRAL	Q92508 PIEZ1 1662_1673
2155	KEFSPFGSITSA	Q13310 PABP4 312_323
2156	LEALLNSKEAAL	P02545 LMNA 137_148
2157	KEFVGGNTPNVL	Q9BQE5 APOL2 196_207
2158	AIKLRPIAVIKG	Q9Y3I0 RTCB 494_505
2159	LEAEADKIGLLL	Q96E52 OMA1 391_402
2160	AERDGVKVPTTL	P49427 UB2R1 176_187
2161	REAEADGAAWVLT	Q8N8D1 PDCD7 196_207
2162	REINDCIGGTVL	O76021 RL1D1 192_203
2163	RESESAPGDFSL	P62993 GRB2 86_97
2164	REFNPSSSGRSA	Q9NX95 SYBU 55_66
2165	AEITDKLGLHSL	P61204 ARF3 137_148; P84077 ARF1 137_148
2166	GERRLEAGAMVL	P25205 MCM3 389_400
2167	IERDVVSGSEVL	Q9NQZ5 STAR7 202_213
2168	KEFLPEGQDIGA	Q04637 IF4G1 1404_1415
2169	KEWAPGAEGVFL	Q04446 GLGB 89_100
2170	KEHGPDVLPQAL	Q99973 TEP1 1405_1416
2171	KEFNEDGALAVL	O60506 HNRPQ 66_77
2172	RETLLNSATTSL	P50991 TCPD 160_171
2173	KEFDGKSLVSVT	P08238 HS90B 526_537; Q58FF7 H90B3 399_410; Q58FF8 H90B2 299_310
2174	RELLKPNASVAL	P43686 PRS6B 121_132
2175	GEFLQPQGYHVL	Q14534 ERG1 164_175

2176	SEHSMDTLLATL	O00244 ATOX1 44_55
2177	TEAELGGDAWRL	O95985 TOP3B 397_408
2178	KEFVAKEGQGNL	Q13564 ULA1 312_323
2179	KEAEYAGQLAEL	P12757 SKIL 625_636
2180	GEKFQADGTYTL	O43242 PSMD3 383_394
2181	GELNVDSLITRL	P62140 PP1B 4_15
2182	VEREIDGGLETL	P38117 ETFB 162_173
2183	TEFDSTVTHVVV	Q99728 BARD1 598_609
2184	GELSWADSIRL	Q13568 IRF5 432_443
2185	AEFLAEHPNVTL	Q8IUX4 ABC3F 104_115
2186	REFGAGPLFNQI	O75533 SF3B1 524_535
2187	KEFSGNPIKVSF	P35637 FUS 357_368
2188	REASIDILHSIV	O00231 PSD11 20_31
2189	AEFGDFDIKTVL	Q8IWS0 PHF6 258_269
2190	AEFLSEHPNVTL	Q9UH17 ABC3B 105_116
2191	REWTLLEAGALVL	P49736 MCM2 567_578
2192	RELVPSSDPIVF	Q92979 NEP1 187_198
2193	KELTPAMPVIFI	Q9UFH2 DYH17 4420_4431
2194	REVGTEAKMLL	Q9BRP4 PAAF1 245_256
2195	GERAMTKDNLL	P08107 HSP71 445_456; P11142 HSP7C 445_456; P17066 HSP76 447_458; P34931 HS71L 447_458; P54652 HSP72 448_459
2196	SEALLEAEKQML	Q460N5 PAR14 582_593
2197	REFNEEGALSVL	O43390 HNRPR 69_80
2198	KEMDNAGQLVFL	P50897 PPT1 272_283
2199	REDITQSAQHAL	Q12906 ILF3 311_322
2200	AEYAHPLETLIL	Q15800 MSMO1 184_195
2201	REEGAEGRPWAL	Q14807 KIF22 159_170
2202	KEADIEKLNQAL	Q96R06 SPAG5 1023_1034
2203	IEKDLVHTEQL	Q9Y547 IFT25 89_100
2204	QEKNPLPSKETI	P62328 TYB4 24_35
2205	QFEIPIGTREAL	Q9P2A4 ABI3 8_19
2206	IEFTEGEDKITL	Q00341 VIGLN 399_410
2207	FEYKPEVIGEAL	O43847 NRDC 587_598
2208	GEIDRARAIYSF	Q9HCS7 SYF1 679_690
2209	HEFTDLNLVQAL	Q15438 CYH1 134_145; Q99418 CYH2 133_144
2210	KELDSKTIRAQL	O60216 RAD21 330_341
2211	GEMNLKPEEVFL	P49915 GUAA 353_364
2212	REFGRYGPIVDV	O75494 SRS10 28_39; Q8WXF0 SRS12 28_39
2213	REIQTAVRLLL	O60814 H2B1K 93_104; P06899 H2B1J 93_104; P23527 H2B1O 93_104; P33778 H2B1B 93_104; P57053 H2BFS 93_104; P58876 H2B1D 93_104; P62807 H2B1C 93_104; Q16778 H2B2E 93_104; Q5QNW6 H2B2F 93_104; Q93079 H2B1H 93_104; Q96A08 H2B1A 94_105; Q99877 H2B1N 93_104; Q99879 H2B1M 93_104; Q99880 H2B1L 93_104  O43683 BUB1 86_97
2214	FEFLYNHGIGTL	O00487 PSDE 59_70
2215	GEFVDDYTWRVI	P69849 NOMO3 181_192; Q15155 NOMO1 181_192; Q5JPE7 NOMO2 181_192
2216	YEILATHPTWAL	O75143 ATG13 468_479
2217	REFQNPPQLSSL	Q96CG3 TIFA 38_49
2218	REKLPSSEVVKF	

2219	REKHPDGKILII	P53396 ACLY 329_340
2220	EEIDLEGKFVQL	Q03252 LMNB2 457_468
2221	VEWDPTGRYVVVT	P55884 EIF3B 657_668
2222	REAEFTKSIAKF	Q15005 SPCS2 185_196
2223	REQKYEDGIALL	Q9UJX3 APC7 488_499
2224	FEFDTRDNPKGL	Q9Y484 WIPI4 136_147
2225	GEFNEVFNDVRL	P47755 CAZA2 27_38; P52907 CAZA1 27_38
2226	YELGEDTIRQAF	Q9UHX1 PUF60 138_149
2227	AEYFPTKPMFVI	Q8NEB5 PPC1B 52_63
2228	VEKDMKKAKEQL	Q9BWH2 FUND2 135_146
2229	MKLTDSDLRSFR	Q6UXN9 WDR82 1_12
2230	AEWRPEEGFVEL	Q7Z6J9 SEN54 80_91
2231	WEYDESHVITAL	Q9Y6J8 STYL1 40_51
2232	REFMKDTDSINL	O14980 XPO1 442_453
2233	YEYDENGDRVVL	Q99683 M3K5 675_686
2234	RENYDRGYSSLL	P17844 DDX5 511_522
2235	KELEFSKDKILM	Q96TA2 YMEL1 568_579
2236	KEYYPGFNPFRA	A2VDJ0 T131L 1569_1580
2237	KEYRPETGSWVF	P52948 NUP98 864_875
2238	REFLWQEGHSAF	P07814 SYEP 1165_1176
2239	KWEAAREAEQRR	P01889 B07 170_181; P30504 C04 170_181; P30510 C14 170_181; Q29865 C18 170_181; Q9TNN7 C05 170_181
2240	SEYEKEKLNERL	P10809 CH60 383_394
2241	KEFRPEDQPWLL	P35269 T2FA 89_100
2242	REKRLEQEKEELL	P12270 TPR 179_190
2243	REIRRYYQKSTEL	P68431 H31 50_61; P84243 H33 50_61; Q16695 H31T 50_61; Q6NXT2 H3C 49_60; Q71DI3 H32 50_61

### C) Identified peptide sequences from human primary fibroblasts

#### Fibroblasts HCD 1D – spliced peptides

#	sequence	origin
1	GLPVAGAVL	Q86V86 PIM3 63_67_43_46
2	GLAGLAVIS	A6NGN9 IGLO5 7_7_18_25; Q8NGH9 O52E4 185_190_204_206; Q9NS82 AAA116_119_135_139
3	PVASTAVTA	Q8IWI9 MGAP 1689_1694_1701_1703
4	KAAAPVAKA	Q8IZA3 H1FOO 298_302_283_286
5	ATTAALLLA	Q15149 PLEC 3519_3526_3511_3511; Q7RTX1 TS1R1 153_159_141_142
6	SAAAAAAWAK	Q8N4J0 CI041 44_50_67_68
7	AVALPGTKP	Q8WYP3 RIN2 326_326_346_353
8	PGLOSSIVL	Q9NZM4 GSCR1 668_673_677_679
9	SSVSSVVVV	Q9NQ11 AT132 30_35_52_54
10	PGLOSSALLI	A0FGR8 ESYT2 549_549_532_539
11	LSSAQALAL	Q2M3D2 EX3L2 192_194_207_212; Q9UG01 IF172 1442_1442_1458_1465
12	VPGGLVVFS	P43003 EAA1 234_236_245_250; P48664 EAA4 259_261_270_275
13	SIASEGTVL	Q7Z407 CSMD3 1791_1793_1769_1774
14	APTALAVAY	Q7RTY0 MOT13 303_305_309_314
15	KTHPCAAPG	Q9H3T3 SEM6B 400_403_378_382
16	AAAKPVVTNI	Q5T8P6 RBM26 940_942_959_964
17	AVAARAGLR	Q7L311 ARMX2 45_47_53_58
18	QAAAFGPKP	Q9BT30 ALKB7 93_99_119_120
19	KCGGGLLTF	Q9Y4C2 F115A 143_149_169_170
20	GRPGPIGLM	Q9UDY2 ZO2 301_307_310_311
21	SPSIVAVLL	Q96DW6 S2538 91_95_72_75
22	PAALTLVSK	O95995 GAS8 396_402_412_413
23	GPPGSVILY	Q9ULI4 KI26A 411_415_403_406
24	PGPSGLLVY	P00387 NB5R3 161_161_144_151
25	SPGNTALML	Q6UXC1 AEGP 1142_1147_1163_1165
26	KAGMNPASK	P53675 CLH2 83_85_73_78; Q00610 CLH1 83_85_73_78
27	SALKDKGG	Q9NY61 AATF 273_276_264_268
28	SGVGKVLLM	Q8WVB3 HEXDC 212_214_233_238
29	KFDVGAGVI	P33316 DUT 208_209_183_189
30	VSASLSITK	Q9UHC9 NPCL1 97_98_101_107
31	EASGATYVL	Q96PS8 AQP10 141_141_114_121
32	VPVVSVTL	P32519 ELF1 427_432_441_443
33	PVVVTLATL	P06748 NPM 97_99_74_79
34	HSGPISTSK	Q69YQ0 CYTSA 886_886_889_896
35	ISILGDAPQ	Q8IUZ0 LRC49 561_567_556_557
36	ILGSPSSQK	Q4ZG55 GREB1 983_989_1005_1006
37	TTAKPVATK	P12111 CO6A3 2984_2985_2960_2966
38	CPIPPAVEV	Q9Y534 CSDC2 118_122_129_132
39	HQAINLGAT	Q5JWR5 DOP1 1780_1782_1799_1804
40	KEEAGALVL	Q9NXL9 MCM9 420_421_399_405
41	PVNISSSLL	Q8IZF4 GP114 171_175_148_151

42	ALPALAFRA	Q5JWF8 ACL10 136_136_140_147
43	VAASLPPLY	Q7L8L6 FAKD5 414_420_398_399
44	KGGDKVLSK	P69849 NOMO3 118_121_134_138; Q15155 NOMO1 118_121_134_138; Q5JPE7 NOMO2 118_121_134_138
45	TEPVSAELS	Q8N398 VW5B2 612_614_626_631
46	KASRATSVL	Q8NBC4 CT203 70_71_44_50
47	ADGTTELIN	Q5T1H1 EYS 1069_1072_1057_1061
48	LAFGAPCRV	P08F94 PKHD1 1796_1798_1771_1776
49	NAPSGYLVI	Q93050 VPP1 604_607_584_588
50	VVGPCLPFC	P0C626 OR5G3 145_148_165_169
51	ETGLGMITI	Q6ZWJ1 STXB4 28_32_22_25
52	KLFSAPSGK	Q2KJY2 KI26B 1653_1657_1641_1644
53	CTSPGSFLK	Q8NHY3 GA2L2 274_276_281_286
54	KTCKKGKAGF	Q8IXY8 PPIL6 169_172_180_184
55	GPPLYPLSP	Q9H0X9 OSBL5 61_63_40_45
56	AVALPIFIP	Q7KYR7 BT2A1 248_252_234_237
57	KPVVCVIDA	Q27J81 INF2 958_960_970_975
58	KLDAANKAL	Q9C0G6 DYH6 2792_2792_2780_2787
59	KVRSTGPAK	Q13263 TIF1B 185_185_192_199
60	ICLILAISV	Q6UXF1 TM108 462_464_473_478
61	AETSITIVI	Q08211 DHX9 716_722_709_710; Q6P158 DHX57 916_922_928_929; Q9H2U1 DHX36 554_559_547_549; Q9H5Z1 DHX35 345_351_338_339; Q9H6R0 DHX33 357_363_350_351  Q5XPI4 RN123 614_616_619_624
62	KTLDLASKA	P0C874 S31D3 628_630_649_654; Q6ZQQ2 S31D1 631_633_652_657; Q6ZUB0 S31D4 628_630_649_654
63	KVQPPAPNP	P46821 MAP1B 2316_2318_2325_2330
64	KDKNASASK	Q9Y5V3 MAGD1 178_179_155_161
65	KTVGPNATY	Q9NP80 PLPL8 207_209_194_199
66	LSNSSITTK	Q16363 LAMA4 1716_1722_1705_1706
67	FSTSVPVI	P78325 ADAM8 639_641_659_664
68	HCAVVVLVL	Q5T200 ZC3HD 310_314_318_321
69	KRDKPSPAG	Q7L775 EPMIP 569_572_546_550
70	HTLSKVASL	Q5VUD6 FA69B 195_198_171_175
71	KSVWPALVG	Q9C0G6 DYH6 161_163_178_183
72	GTRVVVKANI	P12821 ACE 436_441_426_428; Q9UPN3 MACF1 1712_1718_1692_1693
73	KIGLLDLSV	Q9UPU5 UBP24 950_953_958_962
74	PHGAHLLTL	Q4VC12 MSS51 352_354_370_375; Q9UIK5 TEFF2 39_43_22_25
75	AAFPTLLLL	P16435 NCPR 536_541_546_548
76	GVAPFIERA	Q8IU81 I2BP1 58_60_71_76
77	SHVALKHGA	Q7Z3T8 ZFY16 86_91_100_102
78	KGLTSILD	Q6NUM9 RETST 330_332_320_325
79	KACVQSVLL	Q8N865 CG031 252_254_245_250
80	TSLPKTFAP	Q5VUD6 FA69B 142_148_125_126
81	KPTRGTSSK	Q8TER5 ARH40 1088_1088_1108_1115
82	RVPPPGEPEL	Q9H422 HIPK3 866_870_876_879
83	AVSVITDEE	A4IF30 S35F4 81_83_69_74
84	KPGFLGTSR	Q6ZNI0 GCNT7 266_270_259_262
85	KDKPPAPPN	

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87	KCFGQAQAL	A8K2U0 A2ML1 1043_1049_1062_1063
88	AINTSAFEL	Q8WZ42 TITIN 32285_32285_32263_32270
89	LGGCDIYNL	Q8N1P7 AIM1L 167_170_143_147
90	KEAPPAVQK	Q8WZ42 TITIN 10292_10297_10302_10304
91	HASDQSLVL	Q6JVE9 LCN8 30_30_42_49
92	KRGGLKVVL	Q5T2E6 CJ076 6_10_24_27
93	KDGKSPIIL	A6NI72 NCF1B 144_148_156_159; A8MVU1 NCF1C 119_123_131_134; P14598 NCF1 143_147_155_158
94	PDNSIVLTI	Q8WUJ3 CEMIP 1284_1290_1282_1283
95	KDARSPVAK	Q9H8X2 IPPK 221_228_209_209
96	KPPGVFLTI	Q9UN42 AT1B4 150_154_135_138
97	LSPSTFHAL	Q5T011 SZT2 102_106_122_125
98	KITGEGVIR	O94985 CSTN1 88_89_105_111; Q6ZMZ3 SYNE3 297_301_285_288
99	GIMVLAKQI	Q9NX24 NHP2 77_82_58_60
100	TAALPYPLE	Q8IZ20 ZN683 306_312_286_287
101	IEVSLAFVP	Q6ZQN7 SO4C1 30_33_10_14
102	KYLGAIGPR	Q14331 FRG1 115_118_131_135; Q9BZ01 FRG1B 48_51_63_67
103	KTTVKKGDV	P23141 EST1 275_277_256_261
104	AINVFVSLI	Q9BUL8 PDC10 187_193_197_198
105	KGCQLMAVK	Q9Y5S2 MRCKB 1326_1331_1347_1349
106	PLWALLPPA	Q9BZJ7 GPR62 174_179_152_154
107	LPAAMTIVY	Q9H7F0 AT133 458_463_466_468
108	IMSIGPVVY	P38484 INGR2 79_83_60_63
109	GLWTLGLGY	P0C7Q5 S35G4 176_180_190_193
110	KSGAKKTLF	O15014 ZN609 863_864_874_880
111	DSYAVSLIL	Q6ZS81 WDFY4 297_299_287_292
112	ICSTKKTSI	Q8N3X6 LCORL 248_249_235_241
113	KSAFAPFSK	Q01085 TIAR 114_120_137_138
114	PLCGQTVCY	Q9BXP8 PAPP2 497_504_513_513
115	KNPVVLNSL	Q5RGN0 NBPFN 739_740_718_724; Q86T75 NBPFB 814_815_793_799
116	KPIATLLDL	P48553 TPC10 286_288_301_306
117	ISHLMAVTI	Q8N0Y5 OR8I2 224_224_242_249
118	KTAISPRGR	Q8ND23 LR16B 311_318_337_337
119	KTARPARSV	Q9BTC0 DIDO1 791_793_773_778
120	KAVRAKTVL	Q9NPH3 IL1AP 504_506_516_521
121	KRIGKVLAT	O15020 SPTN2 291_297_274_275
122	KLRKGAVIT	Q00341 VIGLN 1054_1055_1070_1076
123	AVSILYHLA	P0C626 OR5G3 247_252_244_246
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125	KNVQLLSGK	Q9Y3D5 RT18C 75_81_69_70
126	LLKVDLTGK	Q6P9B6 TLDC1 98_100_73_78
127	VEKEKSVAV	Q6ZMU5 TRI72 159_160_147_153
128	KEKLTVGTL	Q9H8Y5 ANKZ1 444_446_420_425
129	KYLASGHTL	O60907 TBL1X 518_523_499_501; Q9BQ87 TBL1Y 465_470_446_448; Q9GZS3 WDR61 161_166_184_186
130	PNLTVYALV	P06213 INSR 104_108_118_121; P08069 IGF1R 101_105_115_118; Q9NRP0 OSTC 15_17_32_37

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132	KLADVAAFR	Q9C0H9 SRCN1 349_355_340_341
133	KTQTMKTPG	Q8N4P6 LRC71 364_371_352_352
134	KALMPTVTM	Q5H8A4 PIGG 120_123_112_116
135	KETRAMAGK	Q9NVU7 SDA1 610_613_617_621
136	KTTTPTTNK	Q9P212 PLCE1 2201_2205_2197_2200
137	QYARTGPSL	Q8NHQ8 RASF8 68_70_79_84
138	VIFCSVLV1	P17658 KCNA6 189_192_180_184; P22001 KCNA3 249_252_240_244; P22459 KCNA4 322_325_313_317
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140	KPELLAPIL	Q9BYG8 GSDMC 449_455_433_434
141	HLLTGRVTV	Q96KK4 O10C1 83_88_75_77
142	PQGAVFNTY	Q02161 RHD 261_263_237_242
143	HELLGPISM	Q5JWR5 DOP1 1822_1822_1813_1820
144	KANESHIVV	Q8NCM8 DYHC2 1909_1909_1892_1899
145	FSAFSLVLL	Q5T6L9 EMARD 382_383_392_398
146	RTALLLPGR	O15105 SMAD7 122_124_126_131
147	ASHDQDIVI	Q92876 KLK6 101_107_93_94
148	HDASQDLVL	Q9HAQ2 KIF9 62_68_60_61
149	LGACFVFQI	Q4G0P3 HYDIN 504_510_526_527
150	KPFLIPSPV	Q13535 ATR 764_767_774_778
151	PN DLLNSLL	Q8N9V7 TOPZ1 1157_1157_1168_1175
152	KYPIVKPGP	P98066 TSG6 76_76_94_101
153	NGEISYGIF	Q9UN75 PCDAC 274_281_293_293
154	HNGLGFLEI	O75161 NPHP4 292_297_280_282
155	KSFHPVTPS	Q6P2I7 EBLN2 108_109_119_125
156	KLSLLKSPN	Q6ZTA4 TRI67 101_104_119_123
157	EPEALSLEL	Q12967 GNDS 257_262_273_275
158	FCLVAVHVI	O75122 CLAP2 1242_1248_1250_1251
159	SIQLWIGAI	P05023 AT1A1 116_118_104_109
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161	LENKKKGKAL	O15164 TIF1A 331_332_321_327
162	RVTGALQKK	Q8TC56 FA71B 550_551_524_530
163	KAGRDKDVL	P35241 RADI 556_561_548_550
164	KVQVTNKGK	P52429 DGKE 351_358_346_346
165	KTNPSQTTK	Q8NG27 PJA1 49_51_61_66
166	TYIDGLPLL	Q8N4X5 AF1L2 488_494_476_477
167	SPKHSQVSH	Q9ULJ8 NEB1 974_978_992_995
168	MLNKSILST	Q8NHU2 CT026 485_491_482_483
169	VHYTQVGGF	Q9UI46 DNAI1 102_108_95_96
170	ESYVAITIL	Q9ULB5 CADH7 456_457_467_473
171	KGATYPVHH	P61313 RL15 77_81_84_87
172	TMTEAEEEAA	Q86XW9 TXND6 196_201_212_214
173	KLARSVLSH	A6NGR9 MROH6 275_279_290_293
174	KPQVEILAI	Q5H9R4 ARMX4 172_177_162_164
175	KSGPEPKLR	Q9P1Z3 HCN3 39_45_62_63
176	SGKPPEKLR	A6NDY2 F90AA 122_128_143_144; A6NE21 F90AI 122_128_143_144; A6NEW6 F90AG 122_128_143_144; A6NIJ5 F90AK

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218	KKQKQQSPG	P16499 PDE6A 826_831_847_849
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221	LTCVRTSSY	Q69YN4 VIR 1345_1350_1339_1341
222	IEKHAGLVY	P40227 TCPZ 363_365_346_351
223	TKLYLPASH	P49815 TSC2 573_576_578_582
224	KLDVLRASK	Q7Z401 MYCPP 1315_1320_1334_1336
225	KIRDLGNSNK	Q96IV0 NGLY1 100_104_115_118
226	KDFKPLGVK	Q8IWF9 CCD83 357_360_367_371
227	KLTQNVDSK	Q14185 DOCK1 612_618_598_599; Q9H7D0 DOCK5 630_636_612_613
228	KMPKEISSI	Q96QE5 TEFM 222_225_215_219
229	KTGRPAKFK	Q00169 PIPNA 167_170_160_164
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231	KGSWPGFQK	P81408 F189B 579_584_560_562
232	EKCNLAMLL	Q05D60 DEUP1 79_85_70_71
233	KHVSPLLIK	Q6GMR7 FAAH2 386_391_394_396
234	HPNIISLEI	Q8TD08 MK15 70_76_60_61
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238	CEKVVVLTF	Q8NCM8 DYHC2 700_706_698_699
239	EPGFVVVDLY	Q96JN8 NEUL4 208_211_192_196
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259	KFALNLTEL	C9JL84 HHLA1 97_98_77_83
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261	RCVLLPVSY	P41231 P2RY2 24_25_34_40
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263	YLQKKIGSL	A6NNT2 CP096 717_717_734_741
264	WNNGLQDGF	Q9BR39 JPH2 110_116_89_90

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266	FVTVDSNIR	Q9H2G2 SLK 291_297_300_301
267	ELHSLVEII	Q8IYI6 EXOC8 638_640_646_651
268	SHMLQTSHL	P48728 GCST 82_87_68_70
269	KTDKSRTFA	Q8IYQ7 THNS1 24_27_34_38
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271	SPDFTVYLI	Q14332 FZD2 515_521_529_530
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283	PDKGYSFVF	P31483 TIA1 247_254_234_234
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286	KEQGKTIQK	Q9Y6Q9 NCOA3 83_89_96_97
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289	PNGTWKDKD	P23467 PTPRB 1211_1214_1219_1223
290	EVMLKTVLQ	Q9P1Z9 CC180 522_527_530_532
291	VVDLKPFSR	P21359 NF1 350_353_362_366
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303	YQNKNAYAP	O14960 LECT2 81_86_67_69
304	DAQIKLFFS	Q6ZR62 ZCH16 93_100_88_88
305	TRSPVKQPR	A4UGR9 XIRP2 3237_3239_3227_3232
306	TYIVFVPKC	O14786 NRP1 174_181_173_173
307	KSSHQRSKL	A6NCD4 CJ131 52_54_64_69
308	KWGKPVMVK	P62306 RUXF 24_25_16_22
309	PEKGYSFVF	Q01085 TIAR 238_244_236_237
310	HVLMKIDAF	Q86UY8 NT5D3 151_151_158_165
311	YVIQLVPEI	Q8WXG9 GPR98 4730_4734_4723_4726

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313	TQRVPDLVF	Q8NFN8 GP156 150_155_133_135
314	KPWLGDIVF	P98187 CP4F8 129_133_121_124
315	PMKAVYIPR	Q8N490 PNKD 71_75_62_65
316	QPLCPLLEY	Q7Z4L5 TT21B 468_474_454_455
317	KLTTMIKLK	Q6P9F0 CCD62 168_168_159_166
318	DHAQQPYSM	Q9HCE0 EPG5 656_657_671_677
319	KNAEVHESY	Q15067 ACOX1 637_638_644_650
320	KPSWSMLEV	Q6ZVL6 K154L 93_93_75_82
321	EEQSKITEL	P12270 TPR 567_569_574_579
322	KPDNLLITY	O60307 MAST3 492_499_480_480; Q6P0Q8 MAST2 637_644_625_625; Q9Y2H9 MAST1 499_506_487_487
323	KNKNKVMSK	O00257 CBX4 254_258_265_268
324	KEVFVQTNI	O43304 S14L5 89_90_79_85
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326	PLNNYLAYI	Q8TBC4 UBA3 338_343_335_337
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330	HLDLMRVSL	Q8NE71 ABCF1 481_484_458_462
331	NTYLKLLGY	Q13797 ITA9 229_234_247_249
332	KDHIFLNKA	O94923 GLCE 462_468_487_488
333	KERPVSELEK	Q15678 PTN14 826_831_850_852
334	KLDRKEALL	Q9BVP2 GNL3 79_82_57_61
335	VDKKKLKEV	Q5EBL4 RIP1 170_172_164_169
336	KQVQVTKKK	Q56P03 EAPP 127_128_118_124
337	VHETRGYIL	Q93099 HGD 206_207_195_201
338	KEVKEKEVV	Q9NUY8 TBC23 597_601_576_579
339	IRLPSILLY	Q6IEE7 T132E 206_209_220_224
340	EVKERVESI	Q7L590 MCM10 693_699_680_681
341	KQITSWAQK	Q99550 MPP9 150_151_142_148
342	KTKWKALSK	Q92540 SMG7 241_244_228_232
343	KFVSRVLEL	Q9H9G7 AGO3 126_131_149_151
344	KDIRNFDAL	A6NMZ7 CO6A6 600_604_596_599
345	HPMLIPHTF	Q6W2J9 BCOR 726_733_713_713
346	PHYLCNVTF	P08F94 PKHD1 1547_1550_1526_1530
347	KEDYGLIQK	Q8ND71 GIMA8 366_368_386_391
348	PIRAWQLPL	A6NEL2 SWAHB 324_328_337_340
349	QDAFLKLEM	Q3V5L5 MGT5B 722_728_738_739
350	RHGPPMHYT	O14770 MEIS2 420_426_407_408
351	QHIAHTLFE	Q14164 IKKE 368_373_353_355
352	WNDRGNSTF	Q9BZZ2 SN 1483_1486_1475_1479
353	FILMMTVEL	A6NM11 L37A2 1031_1031_1008_1015; A6NMS7 L37A1 1031_1031_1008_1015; O60309 L37A3 1031_1031_1008_1015
354	KSSERSIYK	Q9Y613 FHOD1 454_454_433_440
355	QRAQQVLQK	Q9Y250 LZTS1 325_331_322_323
356	REHGEPVLY	Q6PIF6 MYO7B 1050_1053_1026_1030
357	KSVFLLHKK	Q5HYK9 ZN667 293_296_269_273

358	FFNNVLALY	Q9UL01 DSE 479_484_471_473
359	LDNKRVENI	O00421 CCRL2 54_56_70_75
360	KRSRTLLVK	P18615 NELFE 87_92_68_70
361	KIFTHDPED	Q32P41 TRM5 144_148_129_132
362	VLLISIEEW	Q96N66 MBOA7 11_16_4_6
363	KKCIQIIKK	Q8N7Z5 ANR31 1694_1699_1682_1684
364	KMKKPIMKV	O15480 MAGB3 127_134_119_119
365	KFRDVIVII	Q8WZ42 TITIN 26721_26727_26705_26706
366	KDPYILISR	Q05940 VMAT2 290_296_273_274
367	KVFVWGKIK	O95714 HERC2 2960_2965_2979_2981
368	YILVVESRK	Q86US8 EST1A 1271_1275_1267_1270
369	KYNQLGKKK	P29144 TPP2 944_947_931_935
370	KFNTQNVEK	P48552 NRIP1 528_532_512_515
371	TIKDFPQLF	Q9P2D8 UNC79 2102_2105_2095_2099
372	KNLKIHNKN	Q5T0N1 TTC18 409_412_390_394
373	EPIVNMRH	Q9H7T0 CTSRB 1001_1003_977_982
374	KEEATYIQK	Q7Z7G0 TARSH 825_829_805_808
375	QPTYTIYLI	Q86XX4 FRAS1 3616_3618_3606_3611
376	KSAWHITEK	Q9BSJ2 GCP2 714_716_706_711
377	FDSIIKLLY	Q8NBI5 S43A3 166_168_175_180
378	KIIDPLKRE	O00469 PLOD2 217_218_200_206
379	VTKEHTHFD	Q5GJ75 TP8L3 151_157_145_146
380	KDDDLVYVF	Q6V1P9 PCD23 1080_1083_1073_1077
381	QLQSRIQQL	Q9BXR5 TLR10 62_65_83_87
382	AELYRVLIH	A8MPP1 D11L8 28_34_11_12; Q96FC9 DDX11 28_34_11_12
383	KYIVVNLHK	Q9NRZ5 PLCD 84_85_91_97
384	KKIREVEVL	Q6NZI2 PTRF 326_330_333_336
385	LEVTRQKQL	Q15014 MO4L2 159_160_140_146
386	LNKEKLEKL	Q96HP0 DOCK6 361_361_369_376; Q96N67 DOCK7 391_391_373_380
387	LERKKLSQL	Q5THJ4 VP13D 293_296_277_281
388	KHTIYLVIK	Q8IYU4 UBQLN 80_80_94_101
389	KIWVRTALK	Q01668 CAC1D 1579_1581_1554_1559; Q13698 CAC1S 1496_1498_1471_1476
390	KKNQRISEL	D6RF30 GOG8K 327_333_307_308; P0CJ92 GOG8H 327_333_307_308
391	KERVKLEIT	Q9P258 RCC2 92_98_85_86
392	KIRAQMЛЕК	Q6P1R4 DUS1L 147_149_161_166
393	DLKEKKEVK	P06454 PTMA 16_23_15_15
394	KLEMIKLEI	Q96MW7 TIGD1 20_26_35_36
395	THLLKTLEY	Q96RV3 PCX1 1307_1308_1327_1333
396	HTLFIFLT	Q13315 ATM 2555_2559_2571_2574
397	KYLLSIVQR	P0C7Q3 FA58B 147_150_124_128
398	IYIVEMKLL	P21439 MDR3 851_852_872_878
399	KSQNYIQEI	Q8IWU2 LMTK2 129_131_138_143
400	FFNAETFTF	P02768 ALBU 512_512_526_533
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408	KTWLDSAKW	P11171 41 262_269_256_256
409	KRYEGKILK	Q6PF04 ZN613 147_150_133_137
410	KFTLELKEK	Q5VIR6 VPS53 543_547_533_536
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412	KQQIHVKKK	Q5BKX8 MURC 109_115_126_127
413	QYHYLVTTL	Q7Z442 PK1L2 1389_1395_1413_1414
414	KSQEYIKEL	P04150 GCR 681_684_693_697
415	KPPPEPFYNF	Q8TDW7 FAT3 1352_1354_1364_1369
416	KNKEEKYSI	B2RTY4 MYO9A 772_773_763_769
417	KPLFLKPWL	Q6NT55 CP4FN 116_118_135_140
418	KWVNILLKK	Q01082 SPTB2 1394_1395_1415_1421
419	KLLERNKEL	A2A2Z9 AN18B 615_617_600_605; Q86X02 CDR2L 36_36_38_45; Q8IVF6 AN18A 606_608_591_596
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421	LFLTFKYTL	Q8IU68 TMC8 503_507_511_514
422	THVDLQDYR	Q9NVR5 KTU 251_251_262_269
423	KHKLSLEEY	Q9BRT2 UQCC2 69_71_83_88
424	IHEISYFEI	Q5SW79 CE170 259_262_239_243
425	KYLDQFKVL	O75185 AT2C2 105_111_126_127
426	FIKIYCRTI	P48739 PIP NB 108_111_93_97
427	KNKYYTKTL	P39900 MMP12 436_440_459_462
428	KNARYCLEY	C9JL84 HHLA1 501_503_490_495
429	QEEFYQREG	O94832 MYO1D 418_419_421_427
430	RYFDEPVEL	Q9NP61 ARFG3 338_338_356_363
431	KMRFCPYSH	Q9H4Y5 GSTO2 11_11_29_36
432	KLF DLLKEY	Q9ULK4 MED23 397_402_406_408
433	KIITYYLQK	O14975 S27A2 390_394_386_389
434	YTLIKYLQK	Q9H9E3 COG4 300_307_316_316
435	KEIRKEELQ	Q8WY36 BBX 390_396_376_377
436	MEKVVYLYE	Q9NR11 ZN302 178_182_167_170
437	ELRKNLYEL	A4UGR9 XIRP2 333_336_319_323
438	AYRDWFSSF	O95864 FADS2 351_357_369_370
439	WHTRHELIS	A5YKK6 CNOT1 495_497_499_504
440	EIQYRKETL	P32927 IL3RB 373_378_389_391
441	PHDYKQRKD	Q9HCX4 TRPC7 193_196_206_210
442	KKHQDFLEY	A0AVI2 FR1L5 1384_1390_1407_1408
443	KYLPYNHQF	O95864 FADS2 255_262_239_239
444	RYLPYNQQF	Q9Y5Q0 FADS3 256_263_241_241
445	YRIEFLHRV	P53677 AP3M2 60_61_80_86; Q9Y2T2 AP3M1 60_61_80_86
446	KERKVWQKR	O43150 ASAP2 302_303_320_326
447	IINEPTAAK	P08107 HSP71 172_179_159_159; P11021 GRP78 198_205_185_185; P11142 HSP7C 172_179_159_159; P17066 HSP76 174_181_161_161; P34931 HS71L 174_181_161_161; P54652 HSP72 173_180_160_160
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452	AAATPVKA AAA	Q96CK0 ZN653 223_226_215_220
453	ALAVSPAAGK	P01034 CYTC 18_25_30_31
454	GHVALVGGGK	Q5MNZ6 WIPI3 55_57_67_73
455	AALAALAALI	Q04671 P 362_368_343_345
456	GYGGGSANSF	Q08211 DHX9 1184_1186_1200_1206
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458	VKC AA AAAAAAAF	Q9GZN0 GPR88 223_224_240_247
459	KGGKMVP PG	P23246 SFPQ 208_212_191_195
460	AAAKPVATA K	P12111 CO6A3 2958_2965_2942_2943
461	GLALPAAMKG	O94772 LY6H 10_12_2_8
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463	AVAAGVPEKT	Q02108 GCYA3 122_128_115_117; Q9Y4G6 TLN2 2190_2194_2166_2170
464	ASAAATRGLK	P11831 SRF 116_121_96_99
465	AVRPPAAA AK	P12111 CO6A3 2951_2955_2957_2961
466	SGVSRKP APG	O75022 LIRB3 219_225_236_238; Q6PI73 LIRA6 219_225_236_238
467	KGGCKPK AAP	Q12860 CNTN1 428_430_436_442
468	KGDGNVG VVVL	P33316 DUT 213_215_195_201
469	VAAVGILCLT	Q05BV3 EMAL5 706_710_730_734
470	KGGGA VIFVL	O43155 FLRT2 569_570_548_555
471	ADGTTAKDLA	Q8IUR7 ARMC8 584_591_580_581
472	SPTKATSAAM	O75626 PRDM1 511_513_532_538
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475	PAISKSLGCV	O60941 DTNB 295_295_302_310
476	PNPGPGPLL L	Q8TE59 ATS19 197_203_178_180
477	HVVSGCGLGF	Q9H8H0 NOL11 354_357_367_372
478	KRPAP PAPAPA	P0C7V6 SP202 490_491_505_512; Q9H7N4 SFR19 524_525_501_508
479	HGPLTATG TK	P22105 TENX 1832_1837_1850_1853
480	RAVAA AVLGR	Q9UPU3 SORC3 62_65_78_83
481	RVIGGLLAG K	P12111 CO6A3 3043_3051_3035_3035
482	RLAAAGAR L S	O75129 ASTN2 21_22_2_9
483	AVEVTAVT IS	Q9NYC9 DYH9 3365_3366_3339_3346
484	EAALETSS AL	Q5VV67 PPRC1 399_401_381_387
485	ELESSP GEGP	Q6AI39 GSC1L 88_93_69_72
486	KSPGNKG SVK	Q9NXC5 MIO 443_450_460_461
487	LASP SKSKAI	Q04637 IF4G1 1269_1273_1245_1249
488	KAATAQ QLSLV L	O43196 MSH5 657_658_662_669
489	NDLGGDAE VN	P45844 ABCG1 337_337_356_364
490	ATEAKKD SPG	Q96JG9 ZN469 3258_3259_3233_3240
491	CVLGVNV SIT	P28845 DHI1 213_216_206_211
492	CGLEESVA AK	Q8TAP8 PPR35 142_148_126_128
493	KPADK I PAGL	Q96P70 IPO9 682_682_658_666
494	KPLLASPT AI	O95425 SVIL 1248_1250_1223_1229
495	KQGLRV AGAL	Q6WRX3 ZY11A 332_339_349_350

496	FSGVAVSFSL	Q5VT99 LRC38_253_259_241_243
497	TLRAGKLGPT	A1L4H1 SRCRL_975_977_955_961
498	IEDVAVGAQI	Q15751 HERC1_4293_4300_4284_4285
499	KLSDGAPQAK	Q86XJ1 GA2L3_553_554_540_547
500	KPPASRSGSK	P27816 MAP4_774_775_795_802
501	IKNKGVNGGK	Q92538 GBF1_879_881_859_865
502	HSLTEAGPGF	P11047 LAMC1_435_441_432_434
503	TNPACGLLRA	Q8N414 PGBD5_313_316_294_299
504	LTTKAPGKSI	Q8IVF2 AHNK2_1486_1489_1507_1512
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507	VMKMVPGAAL	Q13085 ACACA_784_788_805_809
508	LPSCSVTPIT	P20702 ITAX_719_722_726_731
509	KAIMDAGIAK	Q9Y216 MTMR7_314_320_323_325
510	KGGNLPPVHV	Q9UK61 F208A_1095_1102_1119_1120
511	VSKAKADVSL	Q8IVF2 AHNK2_4145_4146_4162_4169
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513	KTGSLSTKPP	Q99755 PI51A_79_81_98_104
514	HSGHSEVVAV	Q7Z6G8 ANS1B_118_119_139_146
515	KSTQGSQSAK	Q3T8J9 GON4L_197_200_185_190
516	KANGLPAVKK	Q9Y2H5 PKHA6_235_241_228_230
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518	KLSSPPGRAN	Q8N398 VW5B2_783_783_767_775
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520	KFPGCGLSY	Q2VWA4 SKOR2_397_404_379_380
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523	KLATGIVAKK	Q9BQ61 CS043_124_126_129_135
524	TRSTGLLGVK	P13056 NR2C1_230_236_248_250
525	KASGRLLSSL	Q9BVA0 KTNB1_30_36_24_26
526	KKQMNGGAAK	Q9UPX6 K1024_79_80_95_102
527	KLLTSSALLS	Q5VWN6 F208B_113_113_131_139
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529	ILSSLMLVSA	Q5HYC2 K2026_1481_1484_1473_1478
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531	RITGAPAVLH	Q7Z7G8 VP13B_1696_1703_1714_1715
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533	KIGGIPALLR	Q99569 PKP4 607_608_614_621
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537	LHAKATLALC	O14732 IMPA2 194_198_208_212
538	KGGVILQTPK	Q15427 SF3B4 142_143_124_131
539	KQALGNALLL	Q9P2D7 DYH1 2557_2557_2577_2585
540	SPPGNTPPQF	P36956 SRBP1 176_181_154_157
541	HAVVSTPSLM	P48165 CXA8 95_97_85_91
542	HLTLMGNGSI	Q8NGC1 O11G2 88_88_75_83
543	KAARDVPASK	Q8IZC6 CORA1 561_567_541_543
544	THANNTSVIS	Q92598 HS105 58_63_37_40
545	RALAVSLNTV	Q2TAY7 SMU1 25_28_36_41
546	KTKATAVLVI	Q9BY44 EIF2A 245_246_231_238
547	ITLSGCPLLK	Q9UL68 MYT1L 880_887_903_904
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551	KTRLAEAGAM	Q9H2D1 MFTC 145_148_128_133
552	ELSGKSVQSL	P82094 TMF1 347_351_330_334
553	KTGNALFIGK	P05543 THBG 151_152_131_138
554	RMFGGPGTAR	P08670 VIME 13_21_4_4
555	KSLGCSKKAK	Q8N4Q0 ZADH2 214_218_193_197
556	LGYKDAAVIC	P56730 NETR 541_543_532_538
557	KSTSPPVLSH	Q15629 TRAM1 6_8_10_16
558	VTVDTSDFVAF	P57678 GEMI4 148_153_156_159
559	VVLEGLQTPV	Q5VUG0 SMBT2 430_431_442_449
560	TVLSPLLLAK	Q9Y4D8 HECD4 1490_1494_1475_1479
561	LRSVGSPALR	Q6ZQT7 YJ013 108_113_96_99
562	KQSGVPLAKK	Q9H583 HEAT1 167_175_152_152
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571	KRDGTAGILK	Q6NY19 KANK3 451_455_442_446
572	KASSRNVAVQ	Q59EK9 RUN3A 18_25_6_7
573	KIISESAQLA	Q7Z4S6 KI21A 252_259_275_276
574	PSLGSPIYII	A6NHA9 O4C46 51_56_32_35
575	IINSFATGHT	A1KZ92 PXDNL 1044_1050_1056_1058
576	KQLVPPAPPN	Q969Z4 TR19L 251_254_265_270
577	KSDEGSVLVK	Q5JXA9 SIRB2 140_144_146_150
578	TVSSQKVSL	A6QL64 AN36A 646_650_628_632; Q5JPF3 AN36C 680_684_662_666; Q8N2N9 AN36B 356_360_338_342

579	AVHEDGPLPK	P0C091 FREM3 229_230_215_222
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582	KGKKTGMGKVS	Q9BWN1 PRR14 420_422_438_444
583	ISTAMGMILK	P05546 HEP2 158_165_141_142
584	KPHSEGLLGK	Q9Y5B8 NDK7 245_247_250_256
585	KGDAFTENGK	Q5HYW2 NHSL2 27_32_47_50
586	PNGTSNVKSY	Q9H7U1 CCSE2 31_34_45_50
587	QHLLAGCPEV	Q96EM0 T3HPD 56_58_36_42
588	HLPADSCVLI	Q9GZZ6 ACH10 259_264_247_250
589	APNLADGFTY	Q9NYB9 ABI2 323_331_351_351
590	TSNTSNLVAY	Q9Y485 DMXL1 1133_1136_1114_1119
591	HAVSALCRIT	Q96C45 ULK4 658_658_668_676
592	ALIGKKGQQK	P0C0S5 H2AZ 103_103_118_126; Q71UI9 H2AV 103_103_118_126
593	KGACPKVIQK	P52701 MSH6 1291_1296_1312_1315
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595	LVCPKDATLL	P04114 APOB 37_44_17_18
596	KGFSLPLDVP	Q6V0L0 CP26C 235_236_222_229
597	KTKNCGHTGK	Q6V9R5 ZN562 261_266_254_257
598	IGYPSPNLNV	Q6UVJ0 SAS6 527_530_510_515
599	KFSSSVSEGF	P51811 XK 377_377_380_388
600	KA VCKSKKAL	O75533 SF3B1 649_656_638_639
601	KVDVPFAGED	Q8WZ42 TITIN 23093_23098_23088_23091
602	KKGPHACPLK	Q16445 GBRA6 189_192_168_173
603	KKGSYGVVKL	Q96RR4 KKCC2 168_168_173_181
604	SSLPPPIVPR	Q96PL5 ERMAP 442_447_422_425
605	KGHVNIVITL	Q8TCN5 ZN507 392_399_408_409
606	IGTLDMINGF	Q92482 AQP3 166_168_155_161
607	KSCKVPPPBP	Q9C0C2 TB182 1688_1693_1702_1705
608	TLYSVGSKLL	Q93033 IGSF2 844_848_858_862
609	SFSTVFGHIS	Q96PQ0 SORC2 644_646_623_629
610	SHLAVVLDDI	Q96K49 TM87B 346_346_348_356
611	KVEQGPVLIV	Q5VWP3 MLIP 145_150_130_133
612	TLPKDEPSPV	Q8TAQ2 SMRC2 356_359_344_349
613	NYPLPLLVPG	Q8NFJ9 BBS1 545_548_538_543
614	KSMSTCAIML	Q8NDX1 PSD4 701_704_684_689
615	KDGSSFSLML	Q9HDC9 APMAP 29_35_44_46
616	KPMGAGTFYI	Q9HCE1 MOV10 251_253_228_234
617	FGFVSAKICL	Q9Y6K0 CEPT1 323_330_317_318
618	KPNPVLGRG	Q9BZF2 OSBL7 554_561_571_572
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620	KGEPLQSLTI	Q14997 PSME4 832_835_811_816
621	DLKAQAQLAK	Q8IVM0 CCD50 66_73_59_60
622	DVSKPDLQGK	Q8NE65 ZN738 77_83_89_91
623	KLPDGHPPIL	Q6IQ32 ADNP2 979_984_997_1000
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625	TVAQNKSILD	Q00338 ST1C2 270_274_246_250

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627	SLHAADVTYL	Q08493 PDE4C 390_396_372_374
628	KISNACPQTK	Q5TAX3 TUT4 729_732_708_713
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630	KANAFIKADL	Q9UPI3 FLVC2 495_497_485_491
631	KWNGILGAYA	Q9Y5Z0 BACE2 192_198_200_202
632	KPHDCVPALL	Q9Y4U1 MMAC 178_184_191_193
633	YLIGRTLLSG	Q9BX84 TRPM6 519_523_501_505
634	ASDPGRYLQS	Q69YI7 NAIF1 310_314_298_302
635	LLKDGLIPPK	Q8IW50 F219A 143_147_161_165
636	KRLGIVPLAK	P30101 PDIA3 61_63_76_82
637	KNTRPGLPTL	Q96KM6 Z512B 741_742_725_732
638	KAEKSHDEPG	P04114 APOB 3234_3241_3249_3250
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642	VVKPPQGYIV	P15514 AREG 107_112_95_98
643	KTIGQVKTPQ	Q96S44 PRPK 144_149_134_137
644	KVRIPGSKK	Q9P275 UBP36 408_409_422_429
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646	SSYHGSFSTK	P12111 CO6A3 3091_3092_3070_3077
647	KSQVAEVVLK	Q2TAC2 CCD57 456_460_474_478
648	KILEAASKLQ	Q9BSI4 TINF2 106_110_129_133
649	KLRVPSVSSK	Q12836 ZP4 497_501_478_482
650	PAMSPVDFHT	Q02297 NRG1 431_432_434_441
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655	LLDARTVVKS	Q9Y2Y6 TMM98 154_159_142_145
656	TIKVAVKEL	Q6JQN1 ACD10 228_231_236_241
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658	ALSSLLPFVR	Q9P203 BTBD7 536_536_513_521
659	AFLGLLLLRS	Q6P9B9 INT5 37_39_59_65
660	TIMPAKDSQI	O00560 SDCB1 268_272_250_254
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672	YKVDAKPSAK	Q8WVV9 HNRLL 485_487_489_495

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679	RVLVTHGISK	O15438 MRP3 805_813_787_787
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694	KVCSSRPLL	Q9BYB4 GNB1L 199_200_175_182
695	KESRAPRSRV	Q6ZVF9 GRIN3 345_350_330_333
696	KHSLSGVIY	Q9UPQ8 DOLK 156_160_149_153
697	THLLTLSLGY	Q7Z442 PK1L2 1225_1227_1206_1212

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703	KDKESAQLLS	A0PJY2 FEZF1 219_220_231_238
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705	KSIGVKYKPV	P17516 AK1C4 161_165_183_187; P42330 AK1C3 161_165_183_187; P52895 AK1C2 161_165_183_187; Q04828 AK1C1 161_165_183_187
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882	KYLMSTLPFQ	P41143 OPRD 108_111_100_105
883	KQQQAAEHYK	Q14980 NUMA1 1625_1627_1605_1611
884	KESPRINLKF	Q4G0N8 SL9C1 1164_1171_1160_1161
885	VLTEDIQRYP	Q9Y255 PRLD1 34_39_24_27
886	KELNQCLEIF	A4D0V7 CPED1 440_446_422_424
887	KVLECYNLKQ	Q8N6D2 RN182 35_39_27_31
888	KRVDIGYIFK	P06400 RB 417_419_421_427
889	KQFMGQLLQF	P28562 DUS1 289_290_301_308; Q05923 DUS2 288_289_300_307; Q13115 DUS4 311_312_323_330
890	LLQERVKNKL	Q5M775 CYTSB 446_453_442_443; Q9NZ56 FMN2 1683_1689_1680_1682
891	KHVESFQQLK	I1YAP6 TRI77 196_200_209_213
892	KLSRDEKLKK	Q8TF74 WIPF2 28_33_49_52
893	KMFQQTFSRK	P11388 TOP2A 188_193_173_176
894	FQANPSPYYY	Q13761 RUNX3 323_330_333_334
895	KTYEIIIMEL	Q96PF2 TSSK2 74_78_88_92
896	KNDEAGYYFF	Q86TH1 ATL2 275_276_258_265
897	KRITKEINEK	Q9NTJ3 SMC4 332_334_348_354
898	MLFQNIPRLK	O95025 SEM3D 29_31_40_46
899	KYGVNYFEIK	P35241 RADI 193_193_201_209
900	VTIFEEDQRE	Q9P225 DYH2 800_802_777_783
901	KEYMALQQKK	Q9UJX3 APC7 91_93_102_108
902	IYHPNINSQW	P51668 UB2D1 73_79_91_93; P61077 UB2D3 73_79_91_93; P62837 UB2D2 73_79_91_93; Q9Y2X8 UB2D4 73_79_91_93
903	KPFNRKDQLK	Q9BYN7 ZN341 620_621_631_638
904	KYLYDKDSD	Q9BZ29 DOCK9 648_653_671_674
905	NYLLEQKHCK	Q53EP0 FND3B 411_415_433_437
906	KTRDDFKIQK	Q6P995 F171B 455_462_438_439
907	KLEKTRRILK	Q5VT25 MRCKA 742_748_738_740
908	KTAREQYEKF	O60879 DIAP2 952_959_932_933
909	HNRIQYHNKL	Q15399 TLR1 78_83_102_105
910	KEGMTEEEVE	P14649 MYL6B 155_157_177_183; P60660 MYL6 98_100_120_126
911	PGSQAYSRAL	Q6PEY1 TMM88 146_150_126_130
912	GTYHGSFSTK	P12111 CO6A3 3051_3051_3069_3077
913	KPLSPEEATK	P11940 PABP1 361_363_342_348; Q13310 PABP4 361_363_342_348; Q4VXU2 PAP1L 361_363_342_348; Q9H361 PABP3 361_363_342_348
914	STYHGSFSTK	P12111 CO6A3 3064_3064_3069_3077
915	LGSEHRLSNK	Q86YD1 PTOV1 66_67_84_91
916	VVDNGSGMCKG	P60709 ACTB 9_18_20_20; Q562R1 ACTBL 10_19_21_21
917	TAASSSSLEKD	P60709 ACTB 229_238_211_211; P62736 ACTA 231_240_213_213; P63261 ACTG 229_238_211_211; P63267 ACTH 230_239_212_212; P68032 ACTC 231_240_213_213; P68133 ACTS 231_240_213_213; Q6S8J3 POTEE 929_938_911_911
918	VIDNGSGMCKQ	A5A3E0 POTEF 709_718_695_695; P0CG38 POTEI 709_718_695_695; P0CG39 POTEJ 672_681_658_658; Q6S8J3 POTEE 709_718_695_695; Q9BYX7 ACTBM 9_18_28_28

919	KAGGGGLVAGK	A6NIH7 U119B 29_32_18_24
920	AVRGAGVAGGK	Q4G148 GXLT1 56_63_38_40
921	KHDGGGGAAAL	Q8IWK6 GP125 44_46_32_39
922	KGLGGAGGQSK	Q5T011 SZT2 709_716_698_700
923	LGGVAVVLGAK	Q9UHC9 NPCL1 670_679_665_665
924	KVPAGASVPPP	O15056 SYNJ2 1331_1333_1315_1322
925	GPSSSIGSPTM	Q9P0T4 ZN581 34_42_19_20
926	VGNISGGVSAY	Q8TCW7 ZPLD1 127_132_115_119
927	KVAGANVVAKA	Q3LXA3 DHAK 162_166_182_187
928	KGSAGNTVASF	Q9Y6X0 SETBP 267_273_257_260
929	PPLPGAGLSSF	Q92615 LAR4B 535_540_530_534
930	GPSAGAARYSI	O60422 ONEC3 311_317_336_339
931	IGAMSIGAFVS	Q969I6 S38A4 163_167_152_157
932	PAAPETQAPAI	Q8WTX9 ZDHC1 232_235_237_243
933	KPIAPCGAPSK	Q9NV96 CC50A 166_173_153_155
934	KLGKAGAVQSI	Q6NZI2 PTRF 95_99_84_89
935	NALAIPAGQLL	Q6ZS92 YD022 68_70_45_52
936	PEPAAPEPPVS	Q6ZN55 ZN574 435_438_447_453
937	DASPGRAHSPV	Q9NZP6 NPAP1 31_33_35_42
938	GTRGGGLLLPR	Q9NQZ5 STAR7 13_20_2_4
939	KDKPRAAGGAK	Q9Y4B5 MTCL1 108_111_118_124
940	TATAVITDNPP	P12830 CADH1 358_364_370_373; P19022 CADH2 365_371_377_380
941	LAASLGLTLLK	P56179 DLX6 82_89_107_109
942	SLYAGSSLCSL	P28221 5HT1D 233_235_249_256
943	KCGPRGGQVAK	Q7LC44 ARC 33_34_16_24
944	KEAGVGNGLQK	Q96C86 DCPS 28_35_49_51
945	KMVVLGGLNIG	Q8WZ60 KLHL6 415_421_407_410
946	KEGDEVGIAGK	Q96SY0 VWA9 280_286_302_305
947	VACTNTVIGLL	Q8NH37 OR4C3 185_190_192_196
948	SSDASTAPLLF	Q3SXM0 DC4L1 224_226_233_240
949	KAAKPGALNKL	Q14643 ITPR1 74_80_89_92
950	KNKGPTTPAAK	Q8N655 CJ012 1101_1106_1121_1125
951	TATAVITDNPP	P55283 CADH4 375_381_387_390
952	KAVGQLGSILK	O14980 XPO1 700_703_687_693
953	RQAGLFSPGKG	Q5T8A7 PPR26 1098_1105_1090_1092
954	KFQAGNGGTALK	Q13835 PKP1 91_97_106_109
955	SDNLSNSVSSL	Q14C86 GAPD1 569_572_583_589
956	SGSFIDIQALKG	Q86WI1 PKHL1 935_942_947_949
957	PGSLSKPTLSH	Q9ULJ6 ZMZ1 161_165_136_141
958	KGSSSKTGFKT	P35663 CYLC1 539_541_527_534
959	KRAAAVLLSAK	Q5TIA1 MEI1 974_982_999_1000
960	KGKAGNVDIDL	A6NKN8 PC4L1 21_27_37_40
961	VVIQDMAGQLG	Q9UJ99 CAD22 243_246_249_255
962	TLYTAPEAAVP	Q9BZZ2 SN 1290_1293_1266_1272
963	LAGFLGCVLQL	Q8NGZ2 O14K1 105_107_92_99
964	KEAAASVAMEK	P28715 ERCC5 1027_1031_1038_1043
965	KGGPRGPPPLEK	Q5VUM1 CF057 85_91_70_73

966	KEPGESSGQAF	Q9Y467 SALL2 902_908_917_920
967	QLAAKGGTVEY	Q92508 PIEZ1 2337_2339_2312_2319
968	AYVPATVTVCL	P20648 ATP4A 341_344_349_355
969	VLGYLGLSFAP	Q96B33 CLD23 161_166_179_183
970	VIAEPVGDPKN	P56539 CAV3 44_50_28_31
971	KKKAGPGSLQK	Q14684 RRP1B 572_580_588_589
972	RLSPSPSDAGR	Q8IVL1 NAV2 1102_1105_1113_1119
973	KGADQAEISQP	P12111 CO6A3 585_590_564_568
974	SSSSSGKVIHR	Q13009 TIAM1 58_60_43_50
975	KPDGSISVTKI	O00165 HAX1 218_221_210_216
976	KATGVRGLETL	Q8WXK3 ASB13 252_260_241_242
977	KSARPTKAASK	Q8N283 ANR35 43_49_61_64
978	KGMIVKILGSV	O95436 NPT2B 392_393_382_390
979	KVGGHPQVVL	Q96D42 HAVR1 23_26_2_8
980	KTQSNNASTAK	Q7KZI7 MARK2 426_432_449_452
981	KSDGSSMIIVL	O60312 AT10A 346_351_365_369
982	KAGIMGSVILY	Q8TDX9 PK1L1 1781_1783_1757_1764
983	PSSVPHISSLE	Q6PKC3 TXD11 573_579_562_565
984	ALSSLSSVLLY	Q8N1F8 S11IP 1018_1018_1027_1036
985	KVLFFKSGAAS	O75891 AL1L1 337_339_347_354
986	AGTYHGSFSTK	P12111 CO6A3 3050_3051_3069_3077
987	KLGCGCLLVHL	Q9HC58 NCKX3 609_616_599_601
988	PHSVASPFTSK	Q4VNC0 AT135 889_890_873_881; Q4VNC1 AT134 887_888_871_879
989	ALKEEASVPLT	Q9UMZ2 SYNRG 714_720_722_725
990	GRVCDAVKALK	Q9Y315 DEOC 93_93_105_114
991	LSRESPTGASR	O15061 SYNEM 1183_1186_1163_1169
992	KMDRGGGIGDR	P13196 HEM1 435_437_422_429
993	PAGQSVLITYL	P35232 PHB 261_267_257_260
994	KTVTSGSILEK	Q9BXF6 RFIP5 560_567_556_558
995	KIATYGQALAK	P29401 TKT 314_317_321_327
996	SKILGPMFSGK	P04183 KITH 15_16_24_32
997	ATAASDRMEKS	Q7Z4V5 HDGR2 133_141_148_149
998	ATSRHPSDAPQ	P02549 SPTA1 359_362_334_340
999	ATAASWRSLCT	Q9H461 FZD8 635_638_612_618
1000	KTQPPVAVAEQ	Q02086 SP2 242_243_256_264
1001	LALNITRSLLG	O15050 TRNK1 2122_2125_2135_2141
1002	PNVGEFASTSY	Q10571 MN1 1039_1045_1050_1053
1003	TGRSSALTNHK	Q96JC4 ZN479 264_265_280_288
1004	KIDATSANILK	P13667 PDIA4 119_124_105_109
1005	SFLPSAASFTF	Q9Y653 GPR56 160_161_151_159
1006	VSVSSPWLTAK	P28358 HxD10 235_240_260_264
1007	EDISGFRGPTP	Q9UPS6 SET1B 570_573_553_559
1008	KPSGQPLLKAH	P15822 ZEP1 2674_2677_2662_2668
1009	ALGCDSKIRSK	P27695 APEX1 304_306_296_303
1010	KSPKGFLESGK	Q7L4E1 FA73B 390_398_374_375
1011	EESSSKSSQPL	P17096 HMGA1 17_17_3_12
1012	KTVAGGAWTYK	P61513 RL37A 62_71_44_44

1013	MATAASMRTSR	Q96JK9 MAML3 843_847_818_823
1014	KPTTGKELALK	Q8WWL7 CCNB3 936_942_914_917
1015	QVSVGLPGRQF	Q9BYK8 HELZ2 853_857_862_867
1016	QICGLAMAILR	Q5VST9 OBSCN 3506_3513_3495_3497
1017	KIFV SALVAKL	Q9BU20 RSG1 57_61_70_75
1018	KETVALAFGKK	Q8N841 TTLL6 27_34_52_54
1019	ALRLNLANALK	O15294 OGT1 319_322_298_304
1020	KVVEDRGGLL	Q9UKK3 PARP4 457_463_452_455
1021	GERSSALTNHK	Q96JC4 ZN479 265_266_280_288
1022	KVMEALTLAVK	Q8WUM0 NU133 91_99_81_82
1023	KTIEFGKTPIA	P49792 RBP2 997_1004_985_987
1024	GLYVGAKKRTD	Q6P4A8 PLBL1 171_179_155_156
1025	PILVKEIIPEG	Q00872 MYPC1 827_836_817_817
1026	THIVSTSFSSET	O94979 SC31A 1190_1196_1198_1201
1027	LLAWPSAVVPR	Q8N109 KI2LA 15_16_33_41; Q8NHK3 KI2LB 15_16_33_41
1028	PGSQAYSRALY	Q6PEY1 TMM88 146_150_126_131
1029	HLTSDILDDAI	Q7Z745 MRO2B 36_39_45_51
1030	KKQSKPVQVAT	P10809 CH60 156_162_170_173
1031	KKQKSPTQAVV	O43491 E41L2 83_87_102_107
1032	CQSSEARPLII	Q9H013 ADA19 577_585_596_597
1033	QVNWKINFSGP	Q8NA58 PNDC1 397_400_407_413
1034	EVSKATLEVLK	Q9BQG0 MBB1A 187_193_199_202
1035	RSFTVAVTHIS	Q8TBY9 WDR66 713_718_696_700
1036	KSSLHGHITIK	Q92887 MRP2 677_680_692_698
1037	KHGPSPEKETI	Q9H4D0 CSTN2 386_391_396_400
1038	KLTPRNPAAQK	P52948 NUP98 551_555_537_542
1039	KFKAENASLAF	Q9HC77 CENPJ 919_928_948_948
1040	QKNLSVADHSK	Q9H0A6 RNF32 45_46_33_41
1041	VTGIDMTKCYV	Q9HBK9 AS3MT 98_105_85_87
1042	KDSPPKNSLTF	Q9BUR5 APOO 27_34_17_19
1043	KFGVRLESLKG	Q8WXH0 SYNE2 5483_5483_5502_5511
1044	KLVDLYIGTLV	Q13042 CDC16 290_295_272_276
1045	YTLPPASLSDLR	Q9H4B4 PLK3 277_285_301_302
1046	KEGDFVLPSFT	P07384 CAN1 505_511_498_501
1047	ALPRSILLRSD	Q5HY92 FIGN 517_523_507_510
1048	KPLMDNGIILK	Q9H082 RB33B 203_206_212_218
1049	STYHGSFSTKK	P12111 CO6A3 3064_3064_3069_3078
1050	KEKTQPSLLAK	Q5CZC0 FSIP2 5264_5271_5259_5261
1051	KFLHTHTSGKLI	Q8WZ42 TITIN 12857_12860_12844_12850
1052	KPNSPQLKPIQ	O15014 ZN609 707_707_696_705
1053	VMLNLNGGFIIQ	P58397 ATS12 731_732_752_760
1054	FEMDSPQSIGF	P22061 PIMT 29_30_47_55
1055	KTYIPPKADKT	B2RPK0 HGB1A 76_81_65_69
1056	KTYIPPKGETKK	B2RPK0 HGB1A 76_81_83_87; P09429 HMGB1 76_81_83_87
1057	KQFFGAVPIAW	Q8WTQ7 GRK7 502_505_511_517
1058	KQENPPAVQQK	Q6N021 TET2 1008_1014_1019_1022
1059	KFSVEDMAELT	P35579 MYH9 79_81_83_90; P35580 MYH10 83_85_87_94; P35749 MYH11

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1060	RLAQPPSQFEP	P33993 MCM7 532_534_546_553
1061	RVLDALVQSRL	Q8IUR0 TPPC5 64_70_51_54
1062	KELPATTELLEK	Q9H156 SLIK2 764_767_739_745
1063	PAQGVQQFAYY	Q04637 IF4G1 147_154_144_146
1064	ASYYPPSSFPKK	Q4V9L6 TM119 124_125_127_135
1065	QQSPPHNNLLQ	Q96N11 CG026 394_397_380_386
1066	KHPELIEILAI	Q9NUY8 TBC23 649_653_666_671
1067	THTLVEKMTYG	P32754 HPPD 143_150_138_140
1068	KAAQPPEQKRK	Q9NW13 RBM28 622_625_635_641
1069	KDKGYSELDKV	Q9UM82 SPAT2 184_192_170_171
1070	KHGGDLKQHHK	Q9P2G1 AKIB1 166_171_187_191
1071	FHGTMTGMLYK	Q5SRD1 TI23B 175_176_161_169
1072	KYISPETMVAF	P30305 MPIP2 413_421_399_400
1073	KDLKDINLPKL	Q8NCM8 DYHC2 2349_2350_2358_2366
1074	RQVCKAEEVDE	Q02241 KIF23 189_191_205_212
1075	SHFDAKLLHQL	Q9BRR3 TM246 151_158_139_141
1076	KRDILLGRREG	Q9UGR2 Z3H7B 466_473_458_460
1077	DLVILWMALIK	Q5TCS8 KAD9 655_658_643_649
1078	KVHYNIGKNDK	Q5T4D3 TMTTC4 483_491_494_495
1079	KIERFTDLSSK	Q8IZD9 DOCK3 267_270_275_281
1080	KFSPLAFNKYI	Q7Z410 TMPS9 619_620_600_608
1081	KSENLKKEELIK	Q3L8U1 CHD9 2048_2055_2072_2074
1082	LRFGEQLVLK	Q9H845 ACAD9 517_520_525_531
1083	KMALLETLYEE	P47736 RPGP1 417_418_392_400
1084	KFIDPIYQVMS	Q9NYV6 RRN3 572_580_584_585
1085	LQQEDQSQLQK	Q9NVV4 PAPD1 509_513_492_497
1086	TIRIEMRLKVS	Q9Y2L9 LRCH1 568_570_590_597
1087	KTMNRLTQLLK	Q96RT1 LAP2 178_186_173_174
1088	KYLFGQPVFFT	P32418 NAC1 653_661_648_649
1089	KSRLNLFTLQK	Q13507 TRPC3 734_741_722_724
1090	ITFSHYKLFPV	Q6ZUL3 CH086 137_142_157_161
1091	LNTGYQRQLYL	P01023 A2MG 1008_1016_989_990
1092	KQVQLEKEKQL	Q9UI36 DACH1 643_649_667_670
1093	KGRDELKCRKR	P42285 SK2L2 873_875_849_856
1094	KRKATQQWILK	A6NGU7 CX028 28_30_45_52
1095	LKWNLIRVLQK	Q69YN4 VIR 954_958_973_978
1096	KYLDLFDLRQN	Q9UL15 BAG5 254_258_268_273
1097	KQMLERTHIYI	Q96JB2 COG3 454_458_467_472
1098	VALSSAGLKAIS	P41226 UBA7 349_355_373_377
1099	AGVVHNACALGK	Q9GZT5 WN10A 139_143_147_153
1100	KVRAVTGGAASK	Q9Y5H6 PCDA8 593_597_573_579
1101	TAADGHERAAPG	O75354 ENTP6 93_99_76_80
1102	YSLGSGPGTASR	P08670 VIME 38_42_17_23
1103	ATAASSSSLEKD	P60709 ACTB 228_238_211_211; P62736 ACTA 230_240_213_213; P63261 ACTG 228_238_211_211; P63267 ACTH 229_239_212_212; P68032 ACTC 230_240_213_213; P68133 ACTS 230_240_213_213; Q6S8J3 POTEE 928_938_911_911

1104	LVVDNGSGMCKG	P60709 ACTB 8_18_20_20; Q562R1 ACTBL 9_19_21_21
1105	SGPEGPNTQPQPV	Q969W3 F104A 131_135_146_152
1106	TAKLSSTTGKP	Q96CB8 INT12 307_314_318_321
1107	VVDNGSGMCKAN	Q562R1 ACTBL 10_20_4_4
1108	TIFGNAAAATF	P18089 ADA2B 26_31_16_21
1109	IVDKMAPGSASK	Q13905 RPGF1 110_115_125_130
1110	KTPSSASAELTL	O15084 ANR28 857_859_877_885
1111	KPGRKGAAAGLFK	O15541 R113A 21_29_18_20; Q8IZP6 R113B 24_32_21_23
1112	LPPDQELGAGAY	Q12800 TFCP2 56_59_31_38
1113	TCGITKIISLGK	Q8N556 AFAP1 350_352_324_332
1114	KPLGLPCLDPALI	Q9HC78 ZBT20 30_36_45_49
1115	KTSQAQARTGTR	Q9P266 JCAD 58_61_31_38
1116	SLTTKTISAKSL	Q8TDR0 MIPT3 339_344_361_366
1117	KEPTCGLVEGGY	P58397 ATS12 204_209_184_189
1118	DIVFVGDATPDN	O75953 DNJB5 241_245_231_237
1119	LVIDNGSGMCKQ	A5A3E0 POTEF 708_718_695_695; P0CG38 POTEI 708_718_695_695; P0CG39 POTEJ 671_681_658_658; Q6S8J3 POTEE 708_718_695_695; Q9BYX7 ACTBM 8_18_28_28  Q96K80 ZC3HA 418_420_402_410
1120	VTYAQPLAGITM	O75400 PR40A 213_215_225_233
1121	KELIVAGSLITK	Q8IYT3 CC170 561_568_577_580
1122	AKLADTNETKAI	O14718 OPSX 257_258_275_284
1123	SIMAIIAPLFAK	P62736 ACTA 225_227_233_241; P63267 ACTH 224_226_232_240; P68032 ACTC 225_227_233_241; P68133 ACTS 225_227_233_241
1124	FENASSSSLEKS	Q03135 CAV1 20_20_3_13
1125	EGGKYVDSEGHLL	Q9H1B5 XYLT2 393_402_378_379
1126	IVVDGGSDWFDS	Q9P2D3 HTR5B 246_249_265_272
1127	MATAATFDEVLE	Q3SY69 AL1L2 473_476_487_494
1128	KVSYAAAKDAFE	Q00169 PIPNA 60_63_36_43
1129	KIYHGGEVGEVL	O75382 TRIM3 590_598_585_587
1130	IVVDNKSCCRNG	P04040 CATA 443_445_460_468
1131	VRACENIAGHLK	Q9NS86 LANC2 206_212_198_202
1132	ALLYLNTYGRAG	Q9H694 BICC1 112_115_94_101
1133	KEDVLKIGAKSK	Q969S9 RRF2M 233_237_251_257
1134	KGVVDNDGKDFE	P25391 LAMA1 617_622_592_597
1135	LTLSTQSYDIPV	O14639 ABLM1 159_168_143_144
1136	HGC Gef VEGEEY	Q6YHK3 CD109 517_526_510_511
1137	FSLTPENSWTGK	P08670 VIME 113_115_88_96
1138	RFALADAINTEF	Q86TW2 ADCK1 47_55_57_59
1139	AVISYDYLTLKS	Q8TB61 S35B2 372_374_384_392
1140	TLRLLYGHTVTV	P42336 PK3CA 279_285_296_300
1141	LGRMPNLQLPMD	O15047 SET1A 53_58_74_79
1142	KYIPVEFSLPVP	Q6ZWH5 NEK10 497_503_519_523
1143	KQIAENIYAILD	P05023 AT1A1 938_939_946_955; P13637 AT1A3 928_929_936_945; P50993 AT1A2 935_936_943_952
1144	KTQQGMKNKILI	Q13017 RHG05 1400_1407_1416_1419
1145	KINLMTADTLMR	P51587 BRCA2 844_849_857_862
1146	SPSRKVLRVIQK	Q01167 FOXK2 179_183_159_165
1147	ISPLTSEKREKQ	

1148	SKETQRVLTKEP	Q13618 CUL3 650_652_640_648
1149	KEGMTEEEVEML	P60660 MYL6 98_100_120_128
1150	TRLLSDEEVDEM	P27482 CALL3 111_113_117_125
1151	QNWSSQKEALEK	Q0VDD8 DYH14 1401_1408_1386_1389
1152	KTQNYLNVYAKI	O60312 AT10A 795_804_791_792
1153	KMNIKHIDDLFL	Q7Z3D6 CN159 450_455_460_465
1154	FLDEEEQRSLVE	A6NLI5 TR64C 185_192_166_169

## Fibroblasts HCD 1D – non-spliced peptides

#	sequence	origin
1	LSGGPGDGP	Q13263 TIF1B 827_835
2	VVGPVGAGK	O15439 MRP4 443_451; O95255 MRP6 661_669
3	GPLAVGAVI	Q9NS86 LANC2 153_161
4	AVITGAVVA	P01891 1A68 320_328; P01892 1A02 320_328; P04439 1A03 320_328; P05534 1A24 320_328; P10316 1A69 320_328; P13746 1A11 320_328; P16188 1A30 320_328; P30443 1A01 320_328; P30447 1A23 320_328; P30455 1A36 320_328
5	GVAPPAGAY	Q08AF3 SLFN5 862_870
6	SVSPASAGK	Q86UE4 LYRIC 306_314
7	ATAGPGTTK	P46821 MAP1B 2335_2343
8	GTGASGSFK	P10412 H14 98_106; P16401 H15 101_109; P16402 H13 99_107; P16403 H12 98_106; P22492 H1T 102_110; Q02539 H11 101_109
9	VVGPVGCGK	O15438 MRP3 659_667
10	AVKGIGSGK	Q99538 LGMMN 123_131
11	GTFGLGLGSK	Q09666 AHNK 5823_5831
12	AVGAVPVVL	Q9H2X8 I27L2 15_23
13	LVGPPGTGK	Q96TA2 YMEL1 377_385
14	LLGPIGAGK	Q8TCB0 IFI44 191_199
15	ASAAAVLSH	P04844 RPN2 256_264
16	SVAPPGGSR	Q14934 NFAC4 361_369
17	LIAVGVGAQ	P08962 CD63 28_36
18	LAAARLAAA	P30101 PDIA3 16_24
19	AAAPVCSSK	Q8IUR6 CRERF 181_189
20	AVTSGVATK	Q8WZ71 TM158 292_300
21	VVAPPGAPK	P15170 ERF3A 63_71
22	GLGPLVPGK	O15525 MAFG 136_144
23	GTSGPHVGK	Q14511 CASL 144_152
24	IVGPNGVGK	Q8NE71 ABCF1 656_664
25	IIGPNGSGK	Q14683 SMC1A 30_38; Q8NDV3 SMC1B 30_38; Q9NTJ3 SMC4 111_119
26	KVAGAAATPK	P16402 H13 141_149
27	MVGPPGTGK	O75449 KTNA1 247_255; Q9BW62 KATL1 246_254
28	AVGSVARAL	P0C860 MS3L2 7_15
29	TASPVAVSL	Q15154 PCM1 859_867
30	ALSSVGSPK	Q6YHK3 CD109 1095_1103
31	TPAPGGSPY	Q86U86 PB1 1549_1557
32	SISSAVKSA	P32249 GP183 330_338
33	GLVPAAPPK	P27816 MAP4 746_754
34	SGAPHAVVL	Q5HYK7 SH319 495_503
35	AYAGSGNVL	Q13200 PSMD2 599_607
36	SHASPVSPVA	Q96HC4 PDLI5 159_167
37	AATSVHVVA	Q68EM7 RHG17 421_429
38	IQGPPGTGK	Q92900 RENT1 501_509; Q9BYK8 HELZ2 2172_2180; Q9P2E3 ZNFX1 617_625
39	GPYGGGGQY	P09651 ROA1 339_347; Q32P51 RA1L2 287_295
40	THSPAGTSV	P38571 LICH 282_290
41	AAAKPVATK	P12111 CO6A3 2958_2966
42	TAAKPVAAK	P12111 CO6A3 2940_2948

43	AALKKALAA	P10412 H14 60_68; P16401 H15 63_71; P16402 H13 61_69; P16403 H12 60_68; Q02539 H11 63_71
44	SSAPPLTGK	Q9HBE1 PATZ1 256_264
45	AATGVVLDL	Q14692 BMS1 1009_1017
46	KIAVAAASK	P29373 RABP2 31_39
47	AAQSGVLTL	Q9Y2F9 BTBD3 334_342
48	VTGPNMGGK	P52701 MSH6 1132_1140
49	GHGNNGGTYY	Q13163 MP2K5 173_181
50	TVTPASSAK	Q16555 DPYL2 512_520
51	SHVGAGVVH	P12110 CO6A2 915_923
52	IVAAGVGEF	P68104 EF1A1 115_123; Q05639 EF1A2 115_123; Q5VTE0 EF1A3 115_123
53	GSSLPTSSK	Q9H3P7 GCP60 314_322
54	AISSSAISK	Q8N684 CPSF7 346_354
55	EVAPAGASY	Q9NZM5 GSCR2 239_247
56	VVVPVGAK	Q9P2E9 RRBP1 180_188
57	ATGSVFTGK	Q96EM0 T3HPD 302_310
58	AVGLVLPAK	O75911 DHRS3 24_32
59	GHSPPPSSL	Q96SU4 OSBL9 262_270
60	VLGAPVKKG	Q9NY93 DDX56 319_327
61	ALLGSLLGK	Q9C000 NALP1 438_446
62	LHGPGSAF	P26006 ITA3 361_369
63	AHGTAGLVF	Q7KZN9 COX15 264_272
64	ALAGLAKTK	Q15417 CNN3 124_132
65	AQPPVGAAY	Q96SN8 CK5P2 1009_1017
66	GAADTTIIL	P51659 DHB4 682_690
67	GTGKTLIGK	Q6PIW4 FIGL1 444_452
68	AVFGVPASK	Q2M2I8 AAK1 643_651
69	VIFTGGVGK	Q9Y6K0 CEPT1 268_276
70	SGMSGLITL	Q9BZ11 ADA33 134_142
71	SGAPHAILL	Q6NUM9 RETST 203_211
72	FGGLGSKSK	Q09666 AHNK 5825_5833
73	AHAKSSVAL	Q9ULK4 MED23 551_559
74	KGAGPLRGK	Q12888 TP53B 1332_1340
75	VAAKPVATK	P12111 CO6A3 2918_2926
76	AGQDAIVL	P30043 BLVRB 66_74
77	GLGPKASQK	O60832 DKC1 381_389
78	ATGPALDNK	O15031 PLXB2 68_76
79	EASALGLIL	Q504Q3 PAN2 589_597
80	KASTPALAK	Q8IV32 CCD71 127_135
81	IVGDPSTAK	Q14566 MCM6 394_402
82	ATPSSSLPK	P12270 TPR 1821_1829
83	GTQGSPITK	Q96PE2 ARHGH 1815_1823
84	KLLSAGATK	P11908 PRPS2 235_243
85	STSSPSVPK	Q68D10 SPT2 318_326
86	STTPPTSAK	Q13620 CUL4B 47_55
87	ISGPISTSK	Q69YQ0 CYTSA 888_896
88	AASDLAMVL	Q765P7 MTSSL 443_451

89	ADGTTAKDL	Q8IUR7 ARMC8 584_592
90	AHRPVAVAA	Q8N3U4 STAG2 420_428; Q8WVM7 STAG1 423_431
91	SLGTIVSSK	Q96FN4 CPNE2 117_125
92	ATAGFTIGR	Q93074 MED12 447_455
93	AVGPHTAK	Q8WVP5 TP8L1 130_138
94	GVHGGLINK	P07737 PROF1 118_126
95	ASYGVSKGK	Q00839 HNRPU 325_333
96	ALGKLPGLK	Q6ZNQ3 LRC69 32_40
97	GPGVDVNLK	Q09666 AHNK 5435_5443
98	ATVTPSPVK	Q9H1E3 NUCKS 176_184
99	TIAPALVSK	P06733 ENO A 72_80
100	GHLSPLGGY	Q9UQL6 HDAC5 968_976
101	ALKTGIVAK	Q9BQ61 CS043 126_134
102	APAPPASQY	P56945 BCAR1 91_99
103	SHAGGINVF	Q13443 ADAM9 325_333
104	TTGEPATPK	Q8N5Y2 MS3L1 328_336
105	SVLEPGTAK	Q9Y426 CU025 612_620
106	IRAPSGTSL	Q16254 E2F4 157_165
107	KSTPVIVSA	Q02952 AKA12 1482_1490
108	KVSGVILSV	P51798 CLCN7 230_238
109	IVAGSLITK	O75400 PR40A 225_233
110	SHVSGTTTL	Q9UPT9 UBP22 354_362
111	VLCQPTGGK	P42677 RS27 62_70; Q71UM5 RS27L 62_70
112	TVAPTTANK	O00391 QSOX1 277_285
113	SVIDGVTVL	O95394 AGM1 139_147
114	AVAIKAMAK	P63241 IF5A1 146_154; Q6IS14 IF5AL 146_154
115	KLSGSLVAK	Q86UU5 GGN 632_640
116	STAQKAIGK	Q14195 DPYL3 337_345
117	KGSGVVIIM	P51659 DHB4 435_443
118	GSSPVAMQK	P18206 VINC 344_352
119	LLADPTGAF	P30044 PRDX5 149_157
120	VVSKGSLK	Q14978 NOLC1 576_584
121	NGFGGFGSY	Q13151 ROA0 250_258
122	GTSSVIVSR	Q9UKB1 FBW1B 53_61
123	VYAPPVGGF	Q99436 PSB7 6_14
124	KSSAPGMTK	Q14995 NR1D2 80_88
125	HHAYPGAGV	Q9Y5Q3 MAFB 142_150
126	MAAAAFAEK	Q9Y3B1 SLMO2 186_194
127	ATDPKAIGH	Q99437 VATO 120_128
128	GGSNVHIIL	P49327 FAS 396_404
129	VLGTVVHGK	Q9Y6C9 MTCH2 82_90
130	HHMGGMAGL	P61011 SRP54 472_480
131	GHMPPLTSA	Q9Y490 TLN1 483_491; Q9Y4G6 TLN2 486_494
132	THAPATLEA	O95433 AHSA1 236_244
133	LPNGKPVSV	P57729 RAB38 114_122
134	AVGVPIKVK	Q709C8 VP13C 2429_2437
135	KLPVVGIGK	Q9NUP7 TRM13 257_265

136	NHVTSSPVA	Q7Z3K3 POGZ 136_144
137	HSSPASTPK	Q14687 GSE1 93_101
138	SHAVAQSVL	Q92543 SNX19 151_159
139	GQLGKPLAK	Q8NF91 SYNE1 5491_5499
140	IIAIPTGVK	P00395 COX1 311_319
141	AHSVPSPAF	Q9H000 MKNR2 70_78
142	AHVLPAAF	Q8IWA0 WDR75 738_746
143	ASNLNLKPG	P09382 LEG1 7_15
144	AVVKPGNTK	Q9NWN3 FBX34 109_117
145	GQAVALRAK	Q13363 CTBP1 186_194
146	THVPVGASF	Q6AI39 GSC1L 169_177
147	ASYGSTTK	Q8WVM8 SCFD1 507_515
148	GLSDIILGK	Q9UBC2 EP15R 47_55
149	KVKSGAIGR	Q9UNQ2 DIM1 3_11
150	EVGAGWIGK	P51659 DHB4 238_246
151	SLVGQTSPK	Q9Y2X3 NOP58 345_353
152	IVQTLGKTG	Q8TE57 ATS16 124_132
153	TVNTSLVGK	A2RUB6 CCD66 124_132
154	SVSSPVKSK	Q8IWI9 MGAP 53_61
155	KVYGPVGAK	P21333 FLNA 773_781
156	TVGSAISRK	O43399 TPD54 146_154
157	EHAGSSNAF	P14735 IDE 133_141
158	STASELSPK	Q3KQU3 MA7D1 454_462
159	ALSTALSEK	P02545 LMNA 147_155
160	GSGKVTFPK	Q09666 AHNK 5652_5660
161	IGNGVVIHL	P30520 PURA2 95_103; Q8N142 PURA1 98_106
162	THGGTLSSY	Q9NW82 WDR70 579_587
163	HYVGSAAAF	Q13227 GPS2 163_171
164	STTASLSKK	Q86TP1 PRUNE 445_453
165	RIVAPPGR	Q14194 DPYL1 557_565; Q14195 DPYL3 555_563; Q16555 DPYL2 557_565
166	SVASPFTSK	Q4VNC0 AT135 873_881; Q4VNC1 AT134 871_879; Q9H7F0 AT133 906_914
167	ATTTTVTTK	Q86Z02 HIPK1 157_165
168	GLYGQTTGK	Q9NR31 SAR1A 152_160; Q9Y6B6 SAR1B 152_160
169	EHAGVISVL	O43504 LTOR5 40_48
170	KTSSAFVGK	Q99460 PSMD1 302_310
171	AMHPTLAGK	P11940 PABP1 572_580; Q9H361 PABP3 567_575
172	AVATNQPPK	P56945 BCAR1 768_776
173	AVLPTPVTK	O75151 PHF2 712_720
174	VTAPIALLK	O14735 CDIPT 178_186
175	GTKLPGLLK	Q9NUQ8 ABCF3 103_111
176	TVSPHAMGK	Q9P2P1 NYNRI 1466_1474
177	AGLDKVIVL	Q9NPH2 INO1 218_226
178	MHSGPVVAM	P15531 NDKA 68_76
179	AGADHIITM	P11908 PRPS2 119_127; P21108 PRPS3 119_127; P60891 PRPS1 119_127
180	AYGLVSATF	Q96MC6 HIAT1 159_167
181	AVTTVVNPK	P05556 ITB1 786_794
182	STGPITKPK	Q15751 HERC1 702_710

183	KVCAPVLA	P12111 CO6A3 3160_3168
184	RIGIAGSKK	O94916 NFAT5 398_406
185	SQFGGGSQY	O15371 EIF3D 61_69
186	EAGAAGLRW	Q9NZL4 HPBP1 158_166
187	NRPGTVSSL	P35659 DEK 115_123
188	VFLPSTPGL	Q7Z7H5 TMED4 67_75
189	KILADATAK	Q9Y490 TLN1 861_869
190	GHGLLSGQY	Q92995 UBP13 391_399
191	SHNVAGVTF	Q6J4K2 NCKX6 136_144
192	KQSAPVSSK	Q86Z02 HIPK1 847_855
193	GVAPFTIAR	P12111 CO6A3 1363_1371
194	SVNGKVLSK	P69849 NOMO3 130_138; Q15155 NOMO1 130_138; Q5JPE7 NOMO2 130_138
195	GHDGGMIVF	P53621 COPA 309_317
196	AVKEKGSTL	O00767 ACOD 192_200
197	TQAAPALDF	Q15274 NADC 273_281
198	TMLARLASA	Q6UVK1 CSPG4 21_29
199	ELKSSTVGL	Q14320 FA50A 59_67; Q9Y247 FA50B 59_67
200	VIIPAKPPV	Q6PKC3 TXD11 90_98
201	ILSGGVFNK	P30260 CDC27 91_99
202	GHAASFAQF	Q00610 CLH1 196_204
203	YIDIGALNG	P53396 ACLY 1051_1059
204	SLGQTTETK	Q9NR99 MXRA5 1502_1510
205	VLIDVGTGY	Q99471 PFD5 82_90
206	ALYGGSQLQK	Q75T13 PGAP1 134_142
207	VVGVGMTKF	P22307 NLTP 16_24
208	LSSGAVALYK	Q14534 ERG1 548_556
209	VISPPTVPK	Q9H9Y6 RPA2 81_89
210	SHSISSSSF	O95197 RTN3 10_18
211	FPALPGSSY	Q9NZN8 CNOT2 280_288
212	VLGPTPVQK	Q8WU20 FRS2 252_260
213	AVAHALTEK	P49368 TCPG 417_425
214	AHLDATTVL	P06576 ATPB 377_385
215	STYGVTKGK	Q1KMD3 HNRL2 283_291
216	TLSQPVPAK	Q86SQ0 PHLB2 61_69
217	SLRPKGGL	Q92917 GPKOW 197_205
218	SGHTRPSSL	Q6P0Q8 MAST2 1311_1319
219	SQGPISKPK	P25440 BRD2 538_546
220	AAAKVILKK	Q5EE01 CENPW 77_85
221	AVIGHFNGK	P29558 RBMS1 196_204
222	DSKKLPSPA	Q12756 KIF1A 1542_1550
223	GLAPSIRTK	P24821 TENA 1510_1518
224	ACNGTVIEH	O60739 EIF1B 68_76; P41567 EIF1 68_76
225	NHAVLAVGY	P09668 CATH 280_288; P43235 CATK 275_283
226	GVMSPPLSR	Q12772 SRBP2 852_860
227	ALSTPVVEK	P29084 T2EB 16_24
228	KLPSSVGQK	Q9NPF5 DMAP1 328_336
229	TVLKPGNSK	P32519 ELF1 343_351

230	NGATRKLAL	P31689 DNJA1 120_128
231	KVLQIGSAK	Q9UGM6 SYWM 333_341
232	KLGGTLARK	Q9HBI1 PARVB 24_32
233	LLSISLLGK	Q12767 K0195 1134_1142
234	KIGKSILGK	O00418 EF2K 517_525
235	RSAPAASER	O43299 AP5Z1 485_493
236	GAHSFVLTL	Q5GLZ8 HERC4 199_207
237	ALANVSIEK	P53618 COPB 905_913
238	SLGQVVITK	O94953 KDM4B 920_928
239	LHGNGPGSTY	Q7Z2W4 ZCCHV 340_348
240	SFLHGNASL	P56945 BCAR1 595_603
241	SHLAGAKVY	O95897 NOE2 385_393
242	SPLTKSISL	Q12802 AKP13 1683_1691
243	GTYGPPAKR	O14497 ARI1A 1375_1383
244	AYVGDVPIL	Q8NB46 ANR52 49_57
245	SVSNVVITK	P42566 EPS15 746_754
246	KVATTVISK	P05155 IC1 44_52
247	AQAPAQSQF	Q92793 CBP 785_793
248	IVNASTTNK	O15056 SYNJ2 596_604
249	GTAPAFKQK	Q15746 MYLK 1095_1103
250	GQWGGSHY	B1AH88 TSPOB 21_29
251	HHGPHGLGH	Q15427 SF3B4 313_321
252	AHYSAVTSL	Q12788 TBL3 193_201
253	ASWGGTIEK	Q6ZS30 NBEL1 750_758
254	QRAPGGLSY	Q5BJH7 YIF1B 53_61
255	TSNPVTTK	P12111 CO6A3 2867_2875
256	GLFQAGMPK	O43516 WIPF1 102_110
257	IVFVTGNNAK	Q9BY32 ITPA 10_18
258	KISTVVSSK	P37108 SRP14 66_74
259	VGKVKFASL	Q8N766 EMC1 37_45
260	QMAPSSSNK	Q5VYK3 ECM29 638_646
261	TGPPMGSRF	Q15056 IF4H 176_184
262	ALPEHSPAK	Q8NDC0 MISSL 10_18
263	SLSGYPLGR	Q86SQ0 PHLB2 117_125
264	GMASKINTK	P78347 GTF2I 656_664
265	ILGPMFSGK	P04183 KITH 24_32
266	QRKGAGSVF	P62917 RL8 8_16
267	GVFGFPLGR	Q460N5 PAR14 924_932
268	VFIEGADAE	P07814 SYEP 550_558
269	SYLQAANAL	P12111 CO6A3 758_766
270	GTTSCLIQK	Q8IYA7 MKX 326_334
271	SHVTGLHSL	Q9UKN8 TF3C4 416_424
272	SSPKGKFSL	Q09666 AHNK 5762_5770
273	KLYPGTGSK	Q32MH5 F214A 299_307
274	ASCNQTLSK	Q5T4F4 ZFY27 403_411
275	GLFGNSQTK	P52948 NUP98 50_58
276	HTPSPTSPK	P40123 CAP2 306_314

277	SLFAGGMLR	Q9BVK6 TMED9 130_138
278	IVAFTTATK	Q9Y673 ALG5 25_33
279	KTGHVIAVK	O14733 MP2K7 141_149
280	AQTDPTTGY	Q9Y4K0 LOXL2 585_593
281	AVSTFAMVK	Q9UBM7 DHCRL7 190_198
282	ITAPPSRVL	O00767 ACOD 20_28
283	ATNTTMMGK	Q8IYA7 MKX 236_244
284	ASFQSTSVK	Q9UHB6 LIMA1 595_603
285	VVNDAGRPK	P11142 HSP7C 94_102
286	QLGQPVVSK	Q15746 MYLK 130_138
287	KARGPGLEK	P21333 FLNA 676_684
288	KLPNSVLGK	Q9H223 EHD4 478_486; Q9NZN3 EHD3 475_483
289	KSGPVIAKR	Q8N3X1 FNBP4 290_298
290	TLIDSSSF	Q13905 RPGF1 959_967
291	AHQGNPAVY	Q9Y6Q9 NCOA3 1382_1390
292	ATDPNILGR	P78527 PRKDC 4111_4119
293	DLNLKGPSL	Q09666 AHNK 5303_5311
294	VSNVKPLSL	Q9UIF8 BAZ2B 381_389
295	KIAPESAIIK	Q6KCM7 SCMC2 252_260; Q9BV35 SCMC3 251_259
296	KVIDPVTGK	Q9Y2R5 RT17 90_98
297	RTAGAIRGR	P26232 CTNA2 538_546; P35221 CTNA1 540_548
298	ALSPSLKNK	Q7Z333 SETX 1619_1627
299	DLIKGISV	Q13148 TADBP 247_255
300	SSAKPVIKK	Q9GZR1 SENP6 818_826
301	IVALILSTK	P27449 VATL 147_155
302	RTGPPMGSR	Q15056 IF4H 175_183
303	ATEQPLTAK	Q9H173 SIL1 278_286
304	HLAPPQPAK	Q14206 RCAN2 99_107
305	KLQGQVSAK	O95235 KI20A 819_827
306	LSYSTSSSK	Q9P0K7 RAI14 904_912
307	VAYGSYTAK	Q8IZU8 DSEL 277_285
308	TLKPMGNAK	Q15746 MYLK 1034_1042
309	IIADKQSGK	Q13151 ROA0 129_137
310	SAKLRQSGL	Q9NZN5 ARHGC 643_651
311	HGIDPTGTY	P04350 TBB4A 28_36; P07437 TBB5 28_36; P68371 TBB4B 28_36
312	THRSGQGAF	P36578 RL4 84_92
313	THMTAIVGM	P53396 ACLY 409_417
314	TGNPTVIKM	P46940 IQGA1 1046_1054; Q13576 IQGA2 959_967
315	TVLSRANSL	P61009 SPCS3 3_11
316	KVSTSPLTK	Q9Y320 TMX2 207_215
317	ATTGKILEK	Q5H9S7 DCA17 135_143
318	AHQGTASQY	Q99829 CPNE1 406_414
319	SHITGGDIY	P38606 VATA 145_153
320	KVTGSLETK	P21796 VDAC1 53_61
321	ALYGVVNVK	O94952 FBX21 374_382
322	GTPADVLYK	Q9Y618 NCOR2 1240_1248
323	KSAFPAQSK	O75362 ZN217 777_785

324	SLYGPGTNR	Q9UMY1 NOL7 197_205
325	VSSKPSTMK	O95573 ACSL3 5_13
326	IMAFALIGNK	P12111 CO6A3 577_585
327	ATAVAQLYK	Q14CZ0 CP072 67_75
328	KIHAGPITK	P62333 PRS10 314_322
329	FDSDAASPR	P01889 B07 60_68; P03989 B27 60_68; P04222 C03 60_68; P10319 B58 60_68; P10321 C07 60_68; P18463 B37 60_68; P18464 B51 60_68; P18465 B57 60_68; P30460 B08 60_68; P30462 B14 60_68; P30464 B15 60_68; P30466 B18 60_68; P30475 B39 60_68; P30480 B42 60_68; P30484 B46 60_68; P30486 B48 60_68; P30490 B52 60_68; P30491 B53 60_68; P30492 B54 60_68; P30493 B55 60_68; P30495 B56 60_68; P30498 B78 60_68; P30499 C01 60_68; P30501 C02 60_68; P30504 C04 60_68; P30505 C08 60_68; P30508 C12 60_68; P30510 C14 60_68; P30685 B35 60_68; Q07000 C15 60_68; Q29718 B82 60_68; Q29836 B67 60_68; Q29865 C18 60_68; Q29940 B59 60_68; Q29960 C16 60_68; Q29963 C06 60_68; Q31610 B81 60_68; Q31612 B73 60_68; Q95365 B38 60_68; Q95604 C17 60_68; Q9TNN7 C05 60_68
330	NLLDPGSSY	Q96IZ0 PAWR 205_213
331	AALEKPLSH	Q9ULJ6 ZMIZ1 932_940
332	KLFGTSGQK	P00533 EGFR 479_487
333	GHLEKAVVL	O14503 BHE40 89_97; Q9C0J9 BHE41 81_89
334	SHLGESSSY	Q9NYV4 CDK12 1381_1389
335	SHAISMSAY	Q96A65 EXOC4 448_456
336	SHVSTMASF	Q9UJU6 DBNL 99_107
337	HHGPMAVAF	P53634 CATC 366_374
338	HVSPGQLTK	Q8N7R7 CCYL1 110_118
339	GQLSVHTPK	Q9H334 FOXP1 279_287
340	AHIALESI	O95864 FADS2 138_146
341	KQLGPAQPK	Q6NZY7 BORG3 5_13
342	ILIPNGVQI	Q8N0X7 SPG20 222_230
343	TVRPPVAVK	P12111 CO6A3 2929_2937
344	VKPKAAKPK	P10412 H14 194_202; P16401 H15 196_204; P16403 H12 193_201
345	RILGPGLNK	P62906 RL10A 122_130
346	THTTGSTY	Q6ZS17 FA65A 549_557
347	THNPTNATL	O75365 TP4A3 22_30; Q12974 TP4A2 19_27; Q93096 TP4A1 22_30
348	ALPDMVVSH	Q92597 NDRG1 186_194
349	ASYSDGKLK	P40692 MLH1 128_136
350	AVTKYTSAK	O60814 H2B1K 118_126; P06899 H2B1J 118_126; P57053 H2BFS 118_126
351	GLLTkpIVK	Q86V97 KBTB6 280_288; Q8WVZ9 KBTB7 280_288
352	HHGQTGGIY	Q86XK2 FBX11 498_506
353	SAHDQSLVL	P12111 CO6A3 3026_3034
354	HLNGKNSSL	Q96FT9 IFT43 36_44
355	AHSPPVKSF	Q9UQK1 PPR3C 31_39
356	KANPGAWIL	Q9NYU1 UGGG2 1135_1143; Q9NYU2 UGGG1 1157_1165
357	KLPNTVLGK	Q9H4M9 EHD1 475_483
358	RTGKPIAVK	O75534 CSDE1 78_86
359	ALAIKVNLK	P25789 PSA4 191_199
360	NHADSRASL	Q96BY6 DOC10 1282_1290
361	ALDPDKPTN	Q07954 LRP1 4493_4501
362	GLRPNGQTK	Q9GZT9 EGLN1 178_186

363	ISNPNSIIL	O00429 DNM1L 174_182
364	AMKPKPLSV	Q9NR09 BIRC6 4512_4520
365	TSALPIIQK	Q99541 PLIN2 63_71
366	SVLSPLLNK	Q12929 EPS8 380_388
367	AIAKQALKK	Q9NQR1 SETD8 192_200
368	TFIDAGSNF	Q8TEQ8 PIGO 145_153
369	HSSGPMVEK	Q8IVP5 FUND1 39_47
370	RIDGPTGQK	Q14766 LTBP1 502_510
371	VVNDADIIL	P13667 PDIA4 190_198
372	SVNLKVSPK	O75475 PSIP1 171_179
373	VVLENAAKK	Q01780 EXOSX 771_779
374	RVKLPSGSK	P62917 RL8 147_155
375	GVADKILKK	Q13287 NMI 211_219
376	KLGGVIKEK	Q9Y2X3 NOP58 93_101
377	IIAKVTAKK	Q6UXV4 APOOL 159_167
378	IHMPGVGDF	Q14692 BMS1 297_305
379	TMAPPIKSK	Q8WYP3 RIN2 472_480
380	KVFGGTVHK	P49915 GUAA 112_120
381	ITSPVVTQK	P04035 HMDH 354_362
382	LTGKPVMVK	P62306 RUXF 14_22
383	KSGKPKVTK	P16402 H13 204_212
384	RILSGVVTK	P62280 RS11 71_79
385	AHFAKSISL	Q8N0T1 CH059 62_70
386	KSADPLKSK	Q9Y6W3 CAN7 74_82
387	KLD SKAI AK	Q8IZQ1 WDFY3 1345_1353
388	KA STKVL VK	Q14517 FAT1 444_452
389	SHSNSPTNM	Q01196 RUNX1 431_439
390	DHSTPPSAY	A6NMY6 AXA2L 16_24; P07355 ANXA2 16_24
391	AYVPGFAHI	Q9H467 CUED2 63_71
392	GTA EVEL KK	P14618 KPYM 128_136
393	TVTTVILEV	Q9UKF6 CPSF3 579_587
394	KTLES A VVK	Q8WUY3 PRUN2 118_126
395	SHGNSMTEL	Q9UHB7 AFF4 279_287
396	HHHGVGQQGF	Q04446 GLGB 365_373
397	THAANTVVY	Q6UXN9 WDR82 72_80
398	EAAQKNMAL	P35579 MYH9 1095_1103
399	EHRHAAAAL	P31483 TIA1 55_63
400	SVSPFLLGR	Q96P70 IPO9 489_497
401	DGKKKISTV	P37108 SRP14 62_70
402	VLN GNPLL H	Q13045 FLII 180_188
403	IIN SSIT TK	P49368 TCPG 155_163
404	KVT GTLET K	P45880 VDAC2 64_72
405	TTKPVTTTK	P12111 CO6A3 2873_2881
406	GLYKAPLSK	Q8NBM4 UBAC2 9_17
407	RVSAIFVGK	Q9BTD3 TM121 244_252
408	SQATPHSSY	Q49A88 CCD14 246_254
409	VYSPKSPSL	O60291 MGRN1 148_156

410	GVADALLYR	P14406 CX7A2 48_56
411	SHSPLLQV	Q16649 NFI3 256_264
412	AVATKFVNK	O75962 TRIO 2821_2829
413	SHHPPVSAF	Q9H0X9 OSBL5 477_485
414	DHVHPVGAF	Q9H0Q0 FA49A 264_272; Q9NUQ9 FA49B 265_273
415	ATSFPSLQK	Q86UP3 ZFHX4 86_94
416	TAMKKGETL	Q9NR30 DDX21 15_23
417	KIGDFGLTK	O60674 JAK2 991_999; P23458 JAK1 1018_1026
418	TVNPVAIHK	P10070 GLI2 365_373
419	HQSPSSSSY	O43298 ZBT43 140_148
420	SMNANTITK	O43290 SNUT1 792_800
421	ASNPAMLLY	Q9H8E8 CSR2B 738_746
422	ATYPMPMPTAK	O75179 ANR17 2027_2035
423	AYVGDLQTL	Q9Y576 ASB1 45_53
424	GLNNKTIGY	Q8TE76 MORC4 519_527
425	SVFGTMPLK	Q93063 EXT2 682_690
426	PFKSPSIGF	P62256 UBE2H 62_70
427	VYVAGAPRF	Q9UKX5 ITA11 440_448
428	IPMTPTSSF	Q7Z5L9 I2BP2 389_397
429	SLSSHLLSH	Q5TEC3 ZN697 327_335
430	KIGGIFAFK	P22307 NLTP 454_462
431	VLCPPPVKK	P60763 RAC3 176_184; P63000 RAC1 176_184
432	VPNLKPLTV	P17181 INAR1 393_401
433	IPKAKPLTL	Q86SK9 SCD5 67_75
434	GHAMPIRSL	Q9GZS3 WDR61 188_196
435	IQYGTTSKGK	P28370 SMCA1 952_960
436	AGLDIFAKF	O00299 CLIC1 106_114
437	GIYIGSIMK	O14640 DVL1 277_285; O14641 DVL2 293_301; P54792 DVLP1 277_285; Q92997 DVL3 275_283
438	VTAPPARNR	Q9UFW8 CGBP1 6_14
439	HISTPLVSK	Q8N2H9 PELI3 110_118
440	AVAAFVLYK	Q8WV48 CC107 75_83
441	IVYPPPPAK	Q9GZR1 SENP6 655_663
442	NLAIPVINK	P52306 GDS1 387_395
443	KLHTSIAGR	P04035 HMDH 633_641
444	ALKPIKGK	Q9NQR1 SETD8 197_205
445	GSSDVIIHR	Q9P1Y6 PHRF1 519_527
446	HLADILSSK	Q9UHI6 DDX20 324_332
447	KLPNSVLGR	Q9NZN4 EHD2 480_488
448	NFTNVAATF	P53396 ACLY 346_354
449	QHLQAAVAF	Q9NV31 IMP3 122_130
450	AVTKYTSSK	P23527 H2B1O 118_126; P33778 H2B1B 118_126; P58876 H2B1D 118_126; P62807 H2B1C 118_126; Q16778 H2B2E 118_126; Q5QNW6 H2B2F 118_126; Q8N257 H2B3B 118_126; Q93079 H2B1H 118_126; Q96A08 H2B1A 119_127; Q99877 H2B1N 118_126; Q99879 H2B1M 118_126; Q99880 H2B1L 118_126
451	HSGTIITQK	Q14517 FAT1 1715_1723
452	TSHPAFLVL	P16234 PGFRA 3_11

453	KGNSPLLQK	Q9H1I8 ASCC2 170_178
454	KLQPGSVKK	P51911 CNN1 66_74; Q15417 CNN3 64_72
455	AYGSLFNTI	Q6YP21 KAT3 134_142
456	HSNTQTLGK	Q6PKG0 LARP1 1088_1096
457	HLAEKTSSL	Q69YN4 VIR 572_580
458	VHGKPSVYY	O15258 RER1 11_19
459	VAETPDIKL	P46782 RS5 11_19
460	KLGDSPIQK	Q13490 BIRC2 94_102
461	SVSTHLITK	Q8N2I2 ZN619 170_178
462	FHDPSAVV	Q05519 SRS11 83_91
463	ATSNVHMVK	Q63ZY3 KANK2 395_403
464	QLAQEAAQK	Q15149 PLEC 2174_2182
465	ALKVPTTEK	Q04637 IF4G1 824_832
466	DHNPPGCTF	Q9UI95 MD2L2 138_146
467	SHITPTQGF	P36405 ARL3 43_51
468	SHLDKASVM	Q16665 HIF1A 52_60
469	KVGDALKEK	P41221 WNT5A 261_269
470	AVSSLIRNK	P54619 AAKG1 141_149
471	THSPSNAQF	Q14CX7 NAA25 500_508
472	LTCGPLWAQ	P17301 ITA2 129_137
473	ATFPDPNVK	P22415 USF1 40_48
474	AQADWAACK	P35579 MYH9 22_30
475	KVIPTSSEK	Q9NR99 MXRA5 2386_2394
476	ALKQISSNK	P10768 ESTD 2_10
477	KTISQAVNK	Q9Y2A7 NCKP1 635_643
478	RNTSVVVTL	Q9HCD6 TANC2 1210_1218
479	AHGKVSVEY	Q92979 NEP1 204_212
480	TFVPVANEL	O94832 MYO1D 840_848
481	KYVPLVTGL	Q6PIJ6 FBX38 250_258
482	IIAFVLEGK	O43493 TGON2 409_417
483	SYSSIASEF	Q96JJ7 TMX3 86_94
484	DTAMSRPGR	P30460 B08 33_41
485	THFSDISAL	Q8NEJ9 NGDN 273_281
486	GQYGNPLNK	O14672 ADA10 19_27
487	SHAIFPATF	Q969R5 LMBL2 481_489
488	DVKSKTEAL	P53618 COPB 34_42
489	KTGEVLDTK	Q92520 FAM3C 112_120
490	VASEYPVIL	P19174 PLCG1 403_411
491	ATFPLSVQK	P26196 DDX6 278_286
492	KLADFGLAR	O94921 CDK14 271_279; P06493 CDK1 143_151; P11802 CDK4 155_163; P24941 CDK2 142_150; P50750 CDK9 164_172; Q00526 CDK3 142_150; Q00534 CDK6 160_168; Q00535 CDK5 141_149; Q00536 CDK16 301_309; Q00537 CDK17 328_336; Q07002 CDK18 278_286; Q14004 CDK13 852_860; Q96Q40 CDK15 239_247; Q9NYV4 CDK12 874_882  P09912 IFI6 113_121
493	ALMGYATHK	P41226 UBA7 898_906
494	PFAPAIQTF	Q9BVK8 TM147 107_115
495	ATAELIMSR	O00213 APBB1 442_450
496	LHAQPIISI	

497	SHHPPISAF	Q96SU4 OSBL9 500_508; Q9BXW6 OSBL1 650_658; Q9BZF1 OSBL8 513_521; Q9H1P3 OSBL2 177_185
498	GMSEKAIEK	Q6UWU4 CF089 29_37
499	VYVVGTAHF	Q9H4I3 TRABD 75_83
500	TVNSPAIYK	Q9Y3A2 UTP11 238_246
501	VYISNGQVL	Q9Y6D0 SELK 2_10
502	SLKQAPLVH	P09496 CLCA 240_248
503	THNGESVSY	P11908 PRPS2 303_311; P21108 PRPS3 303_311; P60891 PRPS1 303_311
504	VYPSSLSKI	Q86VP6 CAND1 722_730
505	ILANHVAKK	P49736 MCM2 439_447
506	TRPPALLLL	Q8WUY8 NAT14 40_48
507	KSSDFAVLK	Q9C0B7 TNG6 711_719
508	IIYKGGTSR	P06396 GELS 545_553
509	RVYGGLTTK	Q8WUM4 PDC6I 606_614
510	NHGPLLHH	O00470 MEIS1 40_48
511	KIYGENGSK	Q8WWI1 LMO7 695_703
512	HILDGSPEK	Q15067 ACOX1 21_29
513	SITSVFITK	Q9Y4A5 TRRAP 1806_1814
514	VINPEPITL	Q5VWN6 F208B 1046_1054
515	KLRPPGAEK	P53365 ARFP2 326_334
516	RAAIPIAKR	Q6TFL4 KLH24 485_493
517	LPALKINKV	O43252 PAPS1 254_262
518	ATFSTGERK	Q9NPD3 EXOS4 79_87
519	SHRPSLNSV	Q96QB1 RHG07 1008_1016
520	RFIGATANF	Q8TDP1 RNH2C 118_126
521	SSMKKTTTL	P27816 MAP4 867_875
522	KIMHPVSGK	Q9BW91 NUDT9 186_194
523	LHYGLPVVV	P35222 CTNB1 487_495
524	RTIAPIIGR	Q99459 CDC5L 83_91
525	LPSRKLVVAL	Q969U7 PSMG2 80_88
526	KLLPSVVLK	Q99075 HBEGF 2_10
527	LLKAPAKKK	Q9UNZ5 L10K 79_87
528	THREDGVAL	P15884 ITF2 453_461
529	GLDPSQRPK	Q8WVB6 CTF18 358_366
530	ALPEKVVNK	Q4LE39 ARI4B 407_415
531	STLPKPVQK	Q9NUL3 STAU2 73_81
532	RVGPTILNK	Q8NFG4 FLCN 477_485
533	AVKDPLVKK	Q96CB8 INT12 240_248
534	KITAPLINK	Q9H8M1 CQ10B 66_74
535	KTLGPILKK	O00458 IFRD1 167_175
536	SRNEGTATY	P14923 PLAK 636_644
537	HEAVPLSVF	Q6ZTW0 TPGS1 173_181
538	RTSPPVSVR	O15079 SNPH 18_26
539	RANVGKLLK	Q9UBQ5 EIF3K 8_16
540	QSHPGDFVL	Q06124 PTN11 141_149
541	SHTAPQVLF	O15144 ARPC2 192_200
542	VMAPRTVLL	P01889 B07 3_11; P30460 B08 3_11; P30462 B14 3_11; P30475 B39 3_11; P30480 B42 3_11; P30486 B48 3_11; Q29836 B67 3_11; Q31610 B81

		3_11; Q31612 1B73 3_11; Q95365 1B38 3_11
543	KVAPETKVK	Q13356 PPIL2 454_462
544	RLPASSIKK	Q6ZSZ6 TSH1 477_485
545	DVKKRAVAL	Q03001 DYST 6032_6040
546	RVKGVTIVK	O95619 YETS4 15_23
547	KVAIKIISK	O96017 CHK2 245_253
548	RHAQSGTIM	P46734 MP2K3 82_90
549	DHVALLSVF	Q08211 DHX9 914_922
550	HVPEHAVVL	P49327 FAS 751_759
551	AQNAKVIEK	Q9H5V9 CX056 179_187
552	ALLEVLSQK	O75369 FLNB 52_60; P21333 FLNA 79_87; Q14315 FLNC 72_80
553	KINKAIVSK	P07093 GDN 94_102
554	SPYQGGVFF	P61077 UB2D3 43_51; P62837 UB2D2 43_51; Q9Y2X8 UB2D4 43_51
555	GTMTGMLYK	O14925 TIM23 161_169; Q5SRD1 TI23B 161_169
556	SYGKVTAEF	Q86TB3 ALPK2 1863_1871
557	VMSATFAKF	Q13409 DC1I2 335_343
558	GHFSKALEL	Q96RY7 IF140 1092_1100
559	FSHAQTVVL	P42677 RS27 47_55; Q71UM5 RS27L 47_55
560	GYIKGIFGF	Q9UHB9 SRP68 617_625
561	ARNTVTQVL	Q9P2B4 CT2NL 501_509
562	VLKEKGQSL	Q53T94 TAF1B 497_505
563	ALKPTEKK	O43852 CALU 17_25
564	TYIPVPAKI	Q11201 SIA4A 229_237
565	RSAKTLTPK	O15228 GNPAT 248_256
566	VVDAKTLKK	P13010 XRCC5 278_286
567	RVTVGTIKK	Q86SE9 PCGF5 170_178
568	EHIADPSAY	P13807 GYS1 540_548
569	VVMRDPASK	P22626 ROA2 51_59
570	THVVTLLGY	Q9H5K3 SG196 132_140
571	ALYSGVHKK	O94885 SASH1 305_313
572	KTETPIVSK	O95292 VAPB 147_155
573	TLNEKLTLA	Q8WUW1 BRK1 49_57
574	GQTKVLTQK	Q9H3M7 TXNIP 225_233
575	TIFPKVLGK	Q7Z7M9 GALT5 345_353
576	MHGPPQLSH	Q9ULJ6 ZMZ1 915_923
577	EHRTGTVGF	Q9BZG1 RAB34 42_50
578	RGSDVIIML	P20340 RAB6A 115_123; Q9NRW1 RAB6B 115_123
579	TIKEGSQLK	P55769 NH2L1 105_113
580	AILDKTTNK	P29558 RBMS1 93_101; Q15434 RBMS2 87_95
581	HYGHAGTVY	Q9P2J3 KLHL9 436_444; Q9P2N7 KLH13 478_486
582	QHSLAGQTY	A8K0Z3 WASH1 7_15; C4AMC7 WASH3 7_15; Q6VEQ5 WASH2 7_15
583	SYIEVSHGL	Q9UMS6 SYNP2 553_561
584	YTAPPLQSK	Q6UXV4 APOOL 44_52
585	TYLPTSPPLL	O43847 NRDC 1115_1123
586	TLSGWILSK	P27824 CALX 79_87
587	SVIVQPFSK	Q6N043 Z280D 118_126
588	GMTKQAKK	P36873 PP1G 315_323

589	VVYAPLSKK	Q9NRZ9 HELLS 467_475
590	SHIPQSSYY	P15884 ITF2 246_254
591	HRSPSSTSF	Q5VU43 MYOME 1604_1612
592	THIVSTSNF	O94979 SC31A 1190_1198
593	NHAGAIYIF	Q9UKX5 ITA11 569_577
594	RLAEVALAY	P13716 HEM2 149_157
595	KLPPPVAR	P25054 APC 1600_1608
596	GHYAPGEF	Q96D15 RCN3 144_152
597	DHFLGSLAF	Q9H488 OFUT1 49_57
598	RLSDGTMAR	P26358 DNMT1 1445_1453
599	QYGEVANLL	Q5VIR6 VPS53 170_178
600	AVYGKAQNR	Q9Y646 CBPQ 54_62
601	KTDSDIISK	P08579 RU2B 85_93
602	VFTPVTTEI	Q9BS26 ERP44 23_31
603	SVLEKTTTK	A1L4H1 SRCRL 611_619
604	VLNGLLYK	Q9H7B7 CG069 43_51
605	AANKTIIYL	Q9NU22 MDN1 2630_2638
606	RVFTGVVTK	Q8IX12 CCAR1 148_156
607	STSENITQK	O00571 DDX3X 410_418; O15523 DDX3Y 408_416
608	GTYHGMTLK	Q6P1J9 CDC73 313_321
609	VYGPLPQSF	P13073 COX41 125_133
610	GQRKPATSY	P46779 RL28 69_77
611	AYLDALQTL	Q9P2N6 KANL3 210_218
612	IHPVVNEL	Q9Y2X3 NOP58 107_115
613	ASFDKAKLK	P63313 TYB10 11_19
614	ALFLTLTTK	P00403 COX2 41_49
615	FYSGSPTSY	Q8IY67 RAVR1 483_491
616	EHMAAFGVF	P46977 STT3A 266_274
617	GHAGLVYNEY	P40227 TCPZ 345_353; Q92526 TCPW 345_353
618	NYLGSTQLL	Q02410 APBA1 464_472; Q99767 APBA2 375_383
619	NYISGIQTI	Q15393 SF3B3 988_996
620	IYVATVETL	Q709F0 ACD11 145_153
621	KVYPSSLSK	Q86VP6 CAND1 721_729
622	LSDDDTESK	P35580 MYH10 1955_1963
623	HEIAHNAAF	O15121 DEGS1 89_97
624	GRSEAVVEY	Q7KZF4 SND1 525_533
625	NYVDLVSSL	O75521 ECI2 110_118
626	ATYGKPVHH	P61313 RL15 79_87
627	DAHLRPTSL	Q9C0C2 TB182 415_423
628	RYIPTAAAF	P61619 S61A1 415_423; Q9H9S3 S61A2 415_423
629	RGAPPIRDK	Q9BYG0 B3GN5 225_233
630	ILKGIPPIKK	O95243 MBD4 237_245
631	YPTQPGQGY	P35637 FUS 17_25
632	PYVGGLEEF	Q99973 TEP1 1087_1095
633	IHSGLYSSF	P28324 ELK4 142_150; P41970 ELK3 138_146
634	FHDGSVHIV	Q9Y2X0 MED16 386_394
635	ATFYGPVKK	Q13618 CUL3 561_569

636	RLASKVISH	Q6YHU6 THADA 1655_1663
637	KVHVVTTSK	Q99715 COCA1 2650_2658
638	KLLAIPVEK	O75717 WDHD1 200_208
639	KLKPGVIKK	Q8WWI1 LMO7 103_111
640	SHYGSENSM	Q9UKA2 FBXL4 63_71
641	GHFDTKIGH	Q9UHY7 ENOPH 178_186
642	SYYGNVPVI	Q7L7V1 DHX32 227_235
643	VFIAQGYTL	Q6Z XV5 TMTC3 203_211
644	HLKALTSEL	P26038 MOES 521_529
645	KSGPPELRK	Q96JM3 CHAP1 391_399
646	NHGQGSYSY	Q12906 ILF3 778_786
647	EHHPGTTSF	Q969I6 S38A4 69_77
648	TPYKGGNLY	Q13439 GOGA4 2154_2162
649	VHPPPTTY	Q969N2 PIGT 296_304
650	GSYESTLKK	Q6ZSC3 RBM43 235_243
651	KIADMGHLK	P12004 PCNA 240_248
652	IINSNPIEL	Q92545 TM131 569_577
653	KTSNLLSH	P21127 CD11B 564_572; Q9UQ88 CD11A 552_560
654	QPKAKAKEL	Q14008 CKAP5 100_108
655	ISVRRLTPA	P82251 BAT1 344_352
656	KLALTKNPK	Q12851 M4K2 251_259
657	KTKPGILKK	Q9HCI7 MSL2 422_430
658	SHMSQSSSY	Q99081 HTF4 258_266
659	GHNEAVSHY	Q6ZSZ5 ARHGI 368_376
660	LHSSPLNVF	Q8NHV4 NEDD1 457_465
661	TYAPAIHQI	Q68CP9 ARID2 938_946
662	TLSNQPLLK	Q8N163 CCAR2 115_123
663	ATTLKNRPL	Q8N4X5 AF1L2 787_795
664	VMAPRTLLL	P04439 1A03 3_11; P10314 1A32 3_11; P13746 1A11 3_11; P16188 1A30 3_11; P16189 1A31 3_11; P16190 1A33 3_11; P30443 1A01 3_11; P30455 1A36 3_11; P30459 1A74 3_11; P30512 1A29 3_11; Q07000 1C15 3_11  O15244 S22A2 207_215
665	RLIQGLVSK	Q10570 CPSF1 387_395
666	RLGNSLLLK	Q63HM9 PLCX3 195_203
667	YHSPVALEV	Q969Z0 TBRG4 140_148
668	SVWHGTLSK	Q14681 KCTD2 179_187
669	SQGPVKHVV	Q96N19 G137A 307_315
670	SHILNGQVF	Q8IYT2 CMTR2 299_307
671	HVFKPATSK	P23921 RIR1 158_166
672	KINGKVAER	Q9Y5J5 PHLA3 9_17
673	VLKEGVLEK	Q15393 SF3B3 759_767
674	TNTLRILAL	Q7Z3E5 ARMC9 36_44
675	KIKGKPLCK	O15397 IPO8 439_447; O95373 IPO7 438_446
676	SLAEILLKK	Q68CZ2 TENS3 210_218
677	VYTSGIYNV	P32019 ISP2 628_636
678	DHKPVSSVF	Q8TAM1 BBS10 441_449
679	GTSSLFIYK	Q15149 PLEC 2895_2903
680	VVGPELHHK	

681	SHALIKSLF	O43795 MYO1B 546_554
682	SPKKKDLSL	Q93045 STMN2 73_81
683	KSAEAILKR	Q9P2R3 ANFY1 851_859
684	KLAETLGRK	P48059 LIMS1 317_325
685	AVSLWAKLK	Q12874 SF3A3 455_463
686	AVLSWKLAK	Q7Z3B0 SIM15 38_46
687	SVAKTILKR	Q7L9L4 MOB1B 146_154; Q9H8S9 MOB1A 146_154
688	KLKVVITSK	Q04446 GLGB 141_149
689	AHLEEALSF	Q15334 L2GL1 111_119
690	TYHPGVPVF	Q9UHD1 CHRD1 25_33
691	SYGDILHVI	Q92796 DLG3 528_536
692	LNLPGIRSF	Q9Y3E0 GOT1B 119_127
693	GLADKPLFR	O75970 MPDZ 814_822
694	KILPTSETK	P18583 SON 1565_1573
695	KLNIEGKSK	Q09666 AHNK 3340_3348
696	SILPAIFQK	Q5BJD5 TM41B 276_284
697	RLFVGSIPIK	O43390 HNRPR 247_255; O60506 HNRPQ 244_252
698	VLGQFLVLK	O75531 BAF 45_53
699	NQKPPSAEF	Q03001 DYST 5417_5425
700	LDDLLRSGE	Q8NEZ4 KMT2C 2745_2753
701	IITDRQSGK	P22626 ROA2 143_151
702	PFAKPLPTF	Q96L91 EP400 2346_2354
703	SVINKVTEK	Q9BRS2 RIOK1 130_138
704	KACKVLVEK	Q96NT3 GUCD1 120_128
705	KLLPNGFTK	Q9NWK9 BCD1 321_329
706	DHGQSNPTY	Q6JQN1 ACD10 292_300
707	THAAEDIVY	Q53EP0 FND3B 985_993
708	SVNSQTLNR	Q9NYJ8 TAB2 354_362
709	SVYHISGKK	Q9NTJ3 SMC4 195_203
710	ALKNPGBK	P10768 ESTD 159_167
711	TLFGKAILR	Q9BX95 SGPP1 360_368
712	STMGYMMAK	P08238 HS90B 615_623; Q58FF7 H90B3 488_496
713	VYANGIRNI	O60337 MARCH6 792_800
714	KVMSVVQTK	P51610 HCFC1 682_690
715	ILFSEGLIK	P42285 SK2L2 469_477
716	AHGTFYTSH	Q8IXJ6 SIR2 186_194
717	HPTAFVVSY	Q03518 TAP1 196_204
718	KVYTPVASR	Q9NS91 RAD18 115_123
719	AIFKPVMSK	Q13547 HDAC1 239_247
720	KYGSVIQLL	Q14573 ITPR3 117_125
721	DHLDSSNSF	P42263 GRIA3 76_84
722	GSYVTHTEK	P63167 DYL1 63_71; Q96FJ2 DYL2 63_71
723	YASDVQLIL	Q8NHQ8 RASF8 69_77
724	IVKPKPRAL	Q92539 LPIN2 324_332
725	TQSPSLVQY	Q14157 UBP2L 396_404
726	GTYQPLSTR	O15213 WDR46 390_398
727	THNEPGVRL	Q9NVA2 SEP11 72_80

728	SHFPALLTH	O00629 IMA3 329_337
729	KKSDPVVSY	P13639 EF2 571_579
730	ASPKEKYSL	P15924 DESP 2023_2031
731	AYSDVAKRL	Q9Y696 CLIC4 243_251
732	KVYTPSISK	Q5VV42 CDKAL 496_504
733	HLTPVTLEL	P30838 AL3A1 203_211; P43353 AL3B1 203_211; P48448 AL3B2 122_130; P51648 AL3A2 200_208
734	AVLTKQLLH	Q14094 CCNI 179_187
735	QQYESVAAK	P08670 VIME 274_282
736	HHVSAVLNF	Q9NY93 DDX56 352_360
737	AVSNHVFHL	Q9ULJ6 ZMIZ1 584_592
738	KASDLYITL	Q96G23 CERS2 35_43
739	HRAPPIGY	O15516 CLOCK 291_299; Q99743 NPAS2 266_274
740	VSFPIGIYK	Q8TCA0 LRC20 35_43
741	FVHPKPVSL	Q9HAP2 MLXIP 538_546
742	TPFQQPSGY	Q14157 UBP2L 952_960
743	TRTPQASTY	P46821 MAP1B 2049_2057
744	VYSNTIQSI	P04899 GNAI2 73_81; P08754 GNAI3 73_81; P63096 GNAI1 73_81
745	KTYLGEEGK	Q9BV86 NTM1A 101_109
746	SYLPISPTF	Q9UGH3 S23A2 617_625
747	ILYPGGNKY	O94907 DKK1 66_74
748	KVAKPTSMY	Q12959 DLG1 401_409
749	KSYPSLTTK	Q15029 U5S1 612_620
750	KLATTILQH	P78527 PRKDC 1617_1625
751	KTHAVILSR	Q96FV2 SCRN2 69_77
752	LISPIILKK	O94953 KDM4B 245_253
753	KLPKGILKK	Q9H093 NUAK2 405_413
754	NHLDPGPIY	Q9Y546 LRC42 9_17
755	HPYSPLSPK	Q8WUF5 IASPP 107_115
756	KMGQPVLPR	Q92576 PHF3 858_866
757	GLYQDGVFK	Q9H8T0 AKTIP 115_123
758	VLYNGFTGR	P30876 RPB2 1027_1035
759	GHYPEILVV	Q9Y4E6 WDR7 133_141
760	SLFNTGFLK	Q7Z2T5 TRM1L 534_542
761	RLLPGSQQK	Q8N8N0 RN152 120_128
762	KLSPPMLLK	P06400 RB 228_236
763	AIKKPLTQK	Q92925 SMRD2 183_191
764	KVLALQARK	Q96SB4 SRPK1 4_12
765	TYHGSFSTK	P12111 CO6A3 3069_3077
766	TYIGQGYII	Q96AY3 FKB10 315_323
767	KFIDTGFSL	Q96J02 ITCH 653_661; Q9H0M0 WWP1 672_680
768	GLMGFIVYK	P56378 68MP 29_37
769	AVATFLIRH	Q9Y570 PPME1 362_370
770	QLAKAQLQK	Q00610 CLH1 1110_1118
771	IVRDPKATK	Q9BSI4 TINF2 93_101
772	KIERAIGLK	O60869 EDF1 123_131
773	RVIAKALEK	P46060 RAGP1 67_75

774	SSYPDCKTK	Q7Z7G8 VP13B 3299_3307
775	RGTSFLNAY	Q6UWY0 ARSK 66_74
776	QHQLPVSGY	P10276 RARA 45_53
777	AQNEPLTQK	O95104 SFR15 400_408
778	KAGEVFIHK	Q15233 NONO 99_107
779	KFLDAGHKL	P30101 PDIA3 289_297
780	VHVKGAGRYY	Q07954 LRP1 3907_3915
781	FQAPTMATY	Q9UH99 SUN2 679_687
782	KSTAISLFY	P13639 EF2 71_79
783	DLNEKARAL	Q9BUL8 PDC10 102_110
784	KLYTLPASH	P49815 TSC2 574_582
785	THLKPGTLY	Q53EP0 FND3B 635_643
786	QLSKPSLEK	Q96BD5 PF21A 322_330
787	SLNKQIAQK	Q567U6 CCD93 321_329
788	RTNEVVAIK	Q7L7X3 TAOK1 49_57
789	GLEEKVRAK	P49321 NASP 409_417
790	SLFPSPILR	Q9P241 AT10D 1323_1331
791	KTKVPEVTK	Q9UPQ9 TNR6B 36_44
792	VLS DINLKK	Q7Z628 ARHG8 349_357
793	YHSEVPVSL	Q01082 SPTB2 2249_2257
794	ARPDEKAIM	O43707 ACTN4 250_258; P12814 ACTN1 231_239
795	GLTDVILYH	O60506 HNRPQ 269_277
796	VYLPPTHTSL	Q8WY64 MYLIP 431_439
797	THKILGNTF	Q9H0A0 NAT10 110_118
798	DAAIRVWSL	Q12788 TBL3 174_182
799	DLDVKQISL	Q8TER5 ARH40 1454_1462
800	ELKEAIKSL	P12109 CO6A1 686_694
801	RLQSKVTAK	P00966 ASSY 404_412
802	GTADVHFER	Q86V81 THOC4 147_155
803	GHFVPNITF	Q2QD12 RPEL1 41_49; Q96AT9 RPE 41_49
804	SINKPTSER	O14777 NDC80 44_52
805	VLNTSLKEK	Q16666 IF16 244_252
806	KNVCLELTI	Q8TDW5 SYTL5 654_662
807	VRNPFTVTV	Q49AG3 ZBED5 574_582
808	KTFGQKPVK	Q12824 SNF5 8_16
809	RIGQVGKFK	Q8NDD1 CA131 265_273
810	HIHKSLIGK	P0C0S5 H2AZ 113_121; Q71UI9 H2AV 113_121
811	RVAAHPILR	Q9UNH7 SNX6 150_158
812	LLAKVFITK	Q9H9Q4 NHEJ1 23_31
813	KLLPKILAH	Q9UPU9 SMAG1 103_111
814	NQKPPSAEY	Q9UPN3 MACF1 5369_5377
815	HVYTPSTTK	Q9H9E1 ANRA2 113_121
816	ATYYGAFIK	O95819 M4K4 83_91; Q8N4C8 MINK1 83_91; Q9UKE5 TNK 83_91
817	NRSNTVVIM	Q2TAY7 SMU1 417_425
818	VVNPKYEGK	P05556 ITB1 790_798
819	VASFPKKQE	P14406 CX7A2 75_83
820	NLKFAAKEL	Q7LBR1 CHM1B 10_18

821	KGLSVFLNR	Q14956 GPNMB 539_547
822	RVTYPAKAK	P04844 RPN2 395_403
823	AMADTFLEH	P14618 KPYM 21_29; P30613 KPYR 64_72
824	IHSDLTSVY	O60486 PLXC1 372_380
825	TYLDPALEL	Q15904 VAS1 76_84
826	VLYPSAQEK	Q6L8Q7 PDE12 419_427
827	SLDQPFLSK	Q8WWN8 ARAP3 1444_1452
828	STSERTLLK	Q6P2E9 EDC4 165_173
829	LLYSNPTVK	Q9BW27 NUP85 312_320
830	QAADILLYK	Q9UGM6 SYWM 164_172
831	RLPPPTILK	O14802 RPC1 582_590
832	NRPPFGQGY	Q92734 TFG 384_392
833	IHSTTGTRY	Q504T8 MIDN 35_43
834	RVADDVFTL	O75386 TULP3 408_416
835	QTNPYTLAK	P46940 IQGA1 980_988
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837	SAIDRIFTL	Q86TU7 SETD3 403_411
838	VMFTPPLTVK	O00303 EIF3F 230_238
839	KLAPISIMY	P03891 NU2M 135_143
840	RIHGSPLQK	O00566 MPP10 57_65
841	SVYSPVKKK	O15504 NUPL2 136_144
842	KVLAKQLVH	Q9UQN3 CHM2B 59_67
843	VYPPHSHSI	P42226 STAT6 692_700
844	EYVANLTNL	P51531 SMCA2 535_543
845	AVDDRGLYK	P0C7V7 SC11B 106_114; P67812 SC11A 119_127
846	TLAEKFLSK	Q8NFU5 IPMK 272_280
847	ALYATKTLR	O95835 LAT51 729_737
848	KVFSKNVSK	Q96N64 PWP2A 636_644
849	HQMTPSSSY	Q93074 MED12 1928_1936
850	LGDMEGRLF	Q16531 DDB1 273_281
851	GHARSYISF	P49589 SYCC 66_74
852	FHFAPGKSF	Q9Y282 ERGI3 214_222
853	EYSDVLAKL	Q5TGY3 AHDC1 611_619
854	KVFSGKSER	P14866 HNRPL 533_541
855	VLNPTPIKR	P84095 RHOG 176_184
856	RSAPPLLKR	Q5TB80 CE162 492_500
857	KLNIPAILR	O94880 PHF14 693_701
858	IVLELIPLK	P00403 COX2 209_217
859	FHMDPSGTF	P28066 PSA5 154_162
860	VYTSGVYHI	Q63HR2 TENC1 334_342
861	RVYDVSSGR	Q8WUJ1 NEUFC 62_70
862	QTYVGITEK	O75643 U520 687_695
863	MPNTRPPII	P27708 PYR1 1503_1511
864	ALFSRIFGK	P84085 ARF5 7_15
865	DHQQNSPTL	Q9HAN9 NMNA1 112_120
866	AYLPVNESF	P13639 EF2 786_794
867	GSFNYARPK	Q8WX93 PALLD 727_735

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870	TYITSVSRSL	Q9Y236 OSGI2 196_204
871	ALYPHVLVK	Q9BUJ2 HNRL1 367_375
872	PYPPPPPFEF	Q969T9 WBP2 171_179
873	HLYSTILGH	Q9NWD8 TM248 135_143
874	VVDPVVREK	Q9UKV0 HDAC9 36_44
875	KIYFSAIAK	Q12768 STRUM 928_936
876	HAYEHSLGK	O60664 PLIN3 249_257
877	GTPEKPLYH	O60337 MARCH6 16_24
878	KLSGFSFKK	P29966 MARCS 165_173
879	RIHGVGFKK	P62899 RL31 32_40
880	DHNINLVSM	Q13017 RHG05 1315_1323
881	SQYQGVVVY	Q9Y221 NIP7 126_134
882	SQFGTVTRF	Q9BYG3 MK67I 66_74
883	AYNPVTHQL	Q4KMG0 CDON 193_201
884	KMDQPPQAK	P34932 HSP74 560_568
885	QYVSAFSKL	Q9UJZ1 STML2 281_289
886	KMAPKPQSR	Q96N64 PWP2A 501_509
887	SSHPIILYL	Q8N2K0 ABD12 166_174
888	VYLPLTSHI	Q9Y5X2 SNX8 406_414
889	KLNITPTKK	Q7KZ85 SPT6H 615_623
890	KLSGLLRQK	Q6UWJ1 TMCO3 56_64
891	SMYNSVSQK	Q8N1G2 CMTR1 85_93
892	THREDSVSL	Q99081 HTF4 468_476
893	AHSNEILIF	Q9Y2U9 KLDC2 349_357
894	EHISLAQVF	Q9BZC7 ABCA2 2323_2331
895	KYISGPHEL	P49454 CENPF 1271_1279
896	TYVSGTLRF	Q9Y6K0 CEPT1 200_208
897	AQYGNILKH	Q8NFH5 NUP53 194_202
898	NLAERIKSL	Q14139 UBE4A 966_974
899	KLGMTPIRK	A6NHR9 SMHD1 1958_1966
900	KLVKPTTEK	A0AVT1 UBA6 1011_1019
901	KVQSKVNLK	Q14204 DYHC1 1111_1119
902	DIKS KIRAL	P34932 HSP74 255_263
903	SYVQVTSNF	Q9UHB7 AFF4 1095_1103
904	HKIEAGNEF	O43293 DAPK3 166_174
905	SHLPSEVLY	Q6ZV29 PLPL7 130_138; Q8IY17 PLPL6 171_179
906	KLNENAISR	O95361 TRI16 188_196
907	RTQNVLGEK	P23396 RS3 54_62
908	KYIHSANVL	P27361 MK03 155_163; P28482 MK01 138_146; P31152 MK04 138_146; Q16659 MK06 141_149
909	QVTSQILQK	Q7Z4V5 HDGR2 507_515
910	ELIAKIPNF	P0DME0 SETLP 96_104; Q01105 SET 86_94
911	KLYPLPSAR	Q8TBM8 DJB14 36_44
912	RVAKTNSLR	Q53HL2 BOREA 9_17
913	MNYGTPISY	Q4LDE5 SVEP1 1463_1471

914	NHGGHYVVY	Q93009 UBP7 460_468
915	SHVDPTKVY	Q07157 ZO1 995_1003
916	NASPLFLHF	Q68CZ2 TENS3 174_182
917	HIKPHIDSV	Q99536 VAT1 353_361
918	HHFQNGIGH	Q9Y4X0 AMMR1 316_324
919	SVYSGIRHK	Q14642 ISP1 200_208
920	AHQLVMEGY	P60510 PP4C 237_245; P62714 PP2AB 240_248; P67775 PP2AA 240_248
921	KVADMALHY	P50990 TCPQ 296_304
922	SVDPKNYPK	P01584 IL1B 200_208
923	KYLDNPNAL	Q63ZY3 KANK2 603_611
924	YGNPNTLRL	Q15814 TBCC 219_227
925	EFVAKGHLF	Q9BUE0 MED18 128_136
926	TAFGPWIQK	Q9GZR5 ELOV4 202_210
927	KTDPKMLSK	Q9UBD5 ORC3 194_202
928	SIFKQPVTK	O95983 MBD3 106_114; Q9UBB5 MBD2 250_258
929	THVFPETAF	Q99593 TBX5 203_211
930	SHYTTPMVL	P46379 BAG6 362_370
931	SLYKEGHSK	Q14839 CHD4 767_775; Q8TDI0 CHD5 741_749
932	VSYSHIQSK	P27816 MAP4 999_1007
933	VFSTVVVIHF	P04035 HMDH 105_113
934	HHVSVTKQL	O94901 SUN1 591_599
935	KSIDFPLTK	O75844 FACE1 243_251
936	HLISPLIQK	O43847 NRDC 708_716
937	YHAGFNHGF	B2RXH2 KDM4E 276_284; O75164 KDM4A 275_283; O94953 KDM4B 276_284; Q6B016 KDM4D 279_287; Q9H3R0 KDM4C 277_285
938	KHAESIMSF	Q9H3Q1 BORG4 201_209
939	HHRPDSSTL	P35568 IRS1 598_606
940	LHHPNIVGY	Q96KB5 TOPK 92_100
941	KAFQATQQK	Q8WTS6 SETD7 358_366
942	KLKEFGTAR	O15266 SHOX 81_89
943	GVLKKVIRH	P24821 TENA 23_31
944	YHNPTANSF	P50552 VASP 39_47
945	GTYSKIMNH	Q13464 ROCK1 285_293
946	SHHHSSVIF	Q6YHK3 CD109 1423_1431
947	SLKEKFNGK	Q16666 IF16 248_256
948	SVFKSARQK	P51531 SMCA2 1497_1505
949	GTLKDLIYK	Q7Z7A4 PXK 232_240
950	THILTPQKL	P61764 STXB1 570_578
951	IRPNIILVL	Q8IWU5 SULF2 42_50; Q8IWU6 SULF1 41_49
952	GTYSKIMDH	O75116 ROCK2 301_309
953	AHAHPQEJV	Q13433 S39A6 520_528
954	HHFEGAQIL	Q9UM54 MYO6 678_686
955	SHFPNLLSH	O00505 IMA4 329_337
956	PFYSSPQLI	Q5HYW3 RGAG4 524_532
957	SFVDTRTLL	P08123 CO1A2 3_11
958	VVSEKQFSK	Q6P5R6 RL22L 66_74
959	QGLKRLHTV	Q7Z5L7 PODN 356_364

960	RHLPLVAVF	P12111 CO6A3 5_13
961	KIIGKVHEK	Q9H4H8 FA83D 236_244
962	TFSDVEAHF	Q8ND82 Z280C 424_432
963	NHVQPPETM	Q9UIL8 PHF11 187_195
964	LHYAGEVTY	O00159 MYO1C 545_553; Q8N1T3 MYO1H 515_523
965	ALYPHFPAH	Q9H1A4 APC1 1587_1595
966	AVAEKMLQY	Q9NSY2 STAR5 12_20
967	HHHPPMIAL	P25490 TYY1 78_86
968	PYVNNVPHL	P56192 SYMC 273_281
969	IYTSSVNRL	P35606 COPB2 535_543
970	VVDAHVREK	P36406 TRI23 309_317
971	GHEDKIRVV	Q9NZN4 EHD2 209_217
972	KLPGKIHLF	Q52LW3 RHG29 661_669
973	KLPVKIVQK	O14497 ARI1A 1811_1819
974	ILPKNVLKK	Q6P2Q9 PRP8 2105_2113
975	KVKQLPLVK	Q00610 CLH1 1441_1449
976	AQYPESCKK	Q8TBC5 ZSC18 111_119
977	SHMPSRPEL	P61587 RND3 218_226
978	PYISQAYVI	O60568 PLOD3 459_467
979	HRLPPVTSF	Q9Y2X9 ZN281 55_63
980	RHLEPALAF	O00763 ACACB 1490_1498; Q13085 ACACA 1371_1379
981	KVKTPQPKK	P16402 H13 177_185
982	GQYPTQPTY	Q15038 DAZP2 5_13
983	SMDKHPSPR	P51397 DAP1 85_93
984	KFKEVGEAF	Q99615 DNJC7 427_435
985	SLFSRLFGK	P18085 ARF4 7_15
986	VLLPKLPQF	Q53FV1 ORML2 134_142
987	RQVVPISKK	Q96EU6 RRP36 107_115
988	KLSVPVRKK	P46100 ATRX 690_698
989	GFLDIDTKF	Q8ND04 SMG8 487_495
990	GPYKVDITY	Q14315 FLNC 1034_1042
991	PFIDSQHVI	O94777 DPM2 32_40
992	VYIKHPVSL	P48556 PSMD8 224_232
993	RLANKAVQR	Q9H0C8 ILKAP 369_377
994	RQKQGVVLK	P19525 E2AK2 18_26
995	ILNLKVIDK	O95503 CBX6 175_183
996	KIAKQIVQK	P60604 UB2G2 153_161
997	KLLNKAIKK	P19367 HXK1 187_195
998	LHYMGTSTF	P11766 ADHX 138_146
999	NYSDVMSKL	O60673 DPOLZ 1102_1110
1000	QAHLNTIEM	Q9BZF9 UACA 732_740
1001	KINSEPKIK	Q9NXD2 MTMRA 24_32
1002	KNTRIPIISK	O14610 GBGT2 23_31
1003	RIAKLEKAK	P62424 RL7A 249_257
1004	DHVSQTHSF	P12757 SKIL 387_395
1005	LYMKNGQGF	A6NIZ1 RP1BL 70_78; P61224 RAP1B 70_78; P62834 RAP1A 70_78
1006	KYIEGVSDF	Q9Y573 IPP 238_246

1007	SYKDSTLIM	P27348 I433T 210_218; P31946 I433B 212_220; P31947 I433S 212_220; P61981 I433G 215_223; P62258 I433E 213_221; P63104 I433Z 210_218; Q04917 I433F 215_223
1008	VHNPDVITY	Q96PZ2 F111A 524_532
1009	VYVQPPLEL	Q3SYG4 PTHB1 459_467
1010	QLSKPLSER	Q6VY07 PACS1 517_525
1011	RLPSSTLKR	Q86Y91 KI18B 813_821
1012	SLKQKLVNK	Q08AF3 SLFN5 473_481
1013	SLNPKTWGR	Q14669 TRIPC 1044_1052
1014	QIKQKVDSL	O60812 HNRC1 189_197; P07910 HNRPC 202_210
1015	LVIPFTIKK	P21333 FLNA 1793_1801
1016	NHLAPSEY	Q96JI7 SPTCS 2148_2156
1017	RVYSGHQGR	Q9NR30 DDX21 432_440
1018	VVMRDPNTK	P09651 ROA1 44_52; Q32P51 RA1L2 44_52
1019	TVEEGQRLK	O95819 M4K4 1077_1085; Q8N4C8 MINK1 1170_1178; Q9UKE5 TNIK 1198_1206
1020	ERIMKAQAL	P07900 HS90A 611_619; P08238 HS90B 603_611; Q58FG1 HS904 299_307
1021	EIRDKKTGL	Q92878 RAD50 431_439
1022	ELLFRPTAL	Q14149 MORC3 488_496
1023	KVFNQPKAK	Q14008 CKAP5 96_104
1024	KLAPEFAKR	P30041 PRDX6 56_64
1025	KVSKELVKE	Q9P2E9 RRBP1 833_841
1026	AIVKLFLKK	P63010 AP2B1 487_495; Q10567 AP1B1 487_495
1027	VHILDTESTF	Q13823 NOG2 132_140
1028	LYLDEAHSI	O15270 SPTC2 341_349
1029	NHKDIGTLY	P00395 COX1 11_19
1030	DATIRIWSV	Q9UMS4 PRP19 285_293
1031	DHIAHIEL	P78362 SRPK2 597_605
1032	LLNYAPLEK	P62875 RPAB5 59_67
1033	IRPQVVTTF	Q10570 CPSF1 519_527
1034	QHSPDLMF	Q9NW38 FANCL 75_83
1035	TYIFAGDKF	P08253 MMP2 580_588
1036	FRVGNVQEL	P12111 CO6A3 1797_1805
1037	DVQKKLMSL	Q15643 TRIPB 1763_1771
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1039	DIHHKVLSL	Q9UN86 G3BP2 60_68
1040	VYVQNVVKL	O14617 AP3D1 521_529
1041	KLLKTSMLK	O60313 OPA1 527_535
1042	SHQQQQSY	Q12906 ILF3 751_759
1043	HQRDGLSSY	Q9HBZ2 ARNT2 451_459
1044	QHSSLSTRF	Q96J42 TXD15 249_257
1045	KQYPNNTSK	P43490 NAMPT 24_32
1046	SLYKEGHTK	Q12873 CHD3 777_785
1047	KLGPNNDQYK	O00483 NDUA4 55_63
1048	ALFSKVLER	Q03001 DYST 1694_1702
1049	KVYLGVKKK	Q96P48 ARAP1 1343_1351
1050	GTQPWFISK	Q15746 MYLK 718_726
1051	NRGINITIY	Q5JVL4 EFHC1 169_177

1052	QVSVRPLQH	P39656 OST48 407_415
1053	KVYNGILEK	Q9P246 STIM2 669_677
1054	KYITQGQLL	Q9NYP7 ELOV5 200_208
1055	NKADVLKY	O14602 IF1AY 87_95; P47813 IF1AX 87_95
1056	IMFKNLIGK	Q14185 DOCK1 970_978
1057	AAFPYPMMH	Q7Z6I8 CE024 161_169
1058	ILMDPSPEY	P26358 DNMT1 487_495
1059	VFADVETHF	P59817 Z280A 405_413; Q86YH2 Z280B 414_422
1060	PYITEHTGF	Q9NV88 INT9 111_119
1061	TQMPDPKTF	Q9Y5V0 ZN706 46_54
1062	RYGLVTNEI	Q9BYX4 IFIH1 806_814
1063	KLYDIDVAK	P62750 RL23A 115_123
1064	KLAEYVITK	Q8IVL0 NAV3 2068_2076
1065	SLYAKVKKK	Q9HBL0 TENS1 364_372
1066	FNDPNAKEM	Q96KR1 ZFR 591_599
1067	DHAVFVQSY	Q13485 SMAD4 404_412
1068	TYQLGFHSI	P28072 PSB6 94_102
1069	THYQLGLAY	P49321 NASP 586_594
1070	RYGTVEDLL	P41279 M3K8 77_85
1071	AQAESLRYK	P23396 RS3 100_108
1072	TQSNAILRY	P21266 GSTM3 75_83; P28161 GSTM2 71_79; P46439 GSTM5 71_79
1073	RYISQTQGL	Q86Z02 HIPK1 402_410; Q9H2X6 HIPK2 411_419; Q9H422 HIPK3 409_417
1074	HLAWVNTPK	Q06830 PRDX1 84_92
1075	KLYEQLSGK	P30086 PEBP1 179_187
1076	TAQKRVYSL	P41220 RGS2 172_180
1077	SLYAHPIEH	Q96IV6 FXDC2 217_225
1078	HLNPDTTELK	Q9BQ70 TCF25 184_192
1079	DAKERTVTF	Q14995 NR1D2 455_463
1080	NQVIFPVSY	Q9GZZ1 NAA50 23_31
1081	VYAQVARLF	Q96ST3 SIN3A 358_366
1082	NHIPLRIGF	Q9NYU2 UGGG1 523_531
1083	ELHKKLLSV	Q96F86 EDC3 285_293
1084	KLYEEGSNK	P25788 PSA3 57_65
1085	RMGTPHLQK	P50570 DYN2 271_279; Q9UQ16 DYN3 271_279
1086	RIIHSSVQK	Q8N766 EMC1 768_776
1087	NPNLRKNVL	P23193 TCEA1 203_211
1088	SFSDVETHF	Q6N043 Z280D 429_437
1089	NHSNSYLAY	Q5MNZ9 WIPI1 151_159
1090	AYLDKSPQF	Q7Z478 DHX29 855_863
1091	SSYSQVRNK	Q14997 PSME4 977_985
1092	THSLPISQW	Q9BVK2 ALG8 47_55
1093	AHMDGTYKF	Q15363 TMED2 84_92
1094	NYVDVDPTF	Q96RV3 PCX1 1734_1742
1095	NHHMPSISF	P98077 SHC2 244_252
1096	SHHENLVSF	Q9GZX9 TWSG1 128_136
1097	SFINSNLKF	Q9NQC7 CYLD 737_745
1098	VYPDGIRHI	Q15393 SF3B3 519_527

1099	KINPVQQSR	Q8IUR6 CRERF 241_249
1100	KTIQVPQQK	Q9BY77 PDIP3 147_155
1101	KLPEEVVKK	O75643 U520 1134_1142
1102	KIIQKALQK	P17655 CAN2 226_234
1103	QVYMKPPAH	Q00341 VIGLN 1208_1216
1104	RSYVTTSTR	P08670 VIME 28_36
1105	RGNIFLTSY	O15031 PLXB2 600_608
1106	KAQKRVDLL	Q6ZMZ3 SYNE3 207_215
1107	THHVQAESY	Q96EK7 F120B 582_590
1108	SLYDRPASY	P16234 PGFRA 760_768
1109	WHAPPVTY	Q03989 ARI5A 574_582
1110	KYGNLSNYL	P17948 VGFR1 913_921
1111	KYIATDFTL	O43847 NRDC 660_668
1112	TYEGIFKTL	Q8WWM7 ATX2L 144_152
1113	NIKKKQEAL	Q13813 SPTN1 754_762
1114	KLNEVIVTR	Q9UP95 S12A4 1024_1032
1115	AHILTKILY	Q9Y678 COPG1 45_53
1116	SYHSYVIGF	O95573 ACSL3 616_624
1117	YHSFVSSVF	Q9H1A3 MELT9 100_108
1118	AVYTKMMTK	P11413 G6PD 399_407
1119	KLEEQARAK	Q14247 SRC8 390_398
1120	TLKQKVENL	O75116 ROCK2 745_753
1121	RLKQKAESL	Q9H819 DJC18 332_340
1122	QLFQLPAKK	Q15014 MO4L2 145_153
1123	RHWGGQADF	Q6PJG6 BRAT1 529_537
1124	THVDILNDF	P11172 UMPS 282_290
1125	HEIEALKSF	O43847 NRDC 1054_1062
1126	VVMRDPQTK	P51991 ROA3 65_73
1127	SVHEKIFTL	O95571 ETHE1 177_185
1128	ILRPEELGF	Q9NVP1 DDX18 529_537
1129	KYLGKTHNL	Q9Y4A5 TRRAP 2694_2702
1130	KLQQVMQAK	Q86U86 PB1 475_483
1131	KLEEVLTNK	P78417 GSTO1 152_160
1132	VYILQPEVI	Q9H799 CE042 702_710
1133	ILDADKTREK	Q9NZ01 TECR 8_16
1134	VYLPNINKI	O94844 RHB1 526_534
1135	KLSKDNLKK	Q9Y5J1 UTP18 172_180
1136	QIFKPIISK	Q92769 HDAC2 240_248
1137	KLYGKPIRV	Q15427 SF3B4 78_86
1138	FHYPGVQNL	O94967 WDR47 348_356
1139	VHILDTETF	Q9Y2U9 KLDC2 195_203
1140	FGHPEVYIL	P00395 COX1 238_246
1141	KLWDGVSNR	Q05048 CSTF1 287_295
1142	TQRPVDIVF	P12110 CO6A2 828_836
1143	STNNWVLIK	O14617 AP3D1 232_240
1144	ALFTPLKER	Q15436 SC23A 40_48
1145	RLPVEVAYK	Q15149 PLEC 4197_4205

1146	KVLPQTILY	Q9NWF9 RNP216 575_583
1147	KLAKVYQPK	Q8NCA5 FA98A 246_254
1148	QHSGWVSQF	Q9NYJ8 TAB2 231_239
1149	KYFGGVLEY	O94955 RHBTD3 185_193
1150	EFMQPIPTI	P36406 TRI23 428_436
1151	HTMEFALVK	Q99608 NECD 161_169
1152	KYPNVDARL	Q16739 CEGT 104_112
1153	SLMHSFILK	Q9NP97 DLRB1 44_52
1154	HTLEPLIPR	Q13418 ILK 309_317
1155	IFSNVRINL	Q03135 CAV1 166_174
1156	QVSPRITFK	Q96QE2 MYCT 417_425
1157	RLIAAFEQK	O95503 CBX6 52_60
1158	RLFGNILDK	P26358 DNMT1 1564_1572
1159	RFLEKAKAL	P07942 LAMB1 1199_1207
1160	KLAERFLAK	O75044 SRGP2 69_77
1161	KLLAHPLQR	Q9NWV8 BABA1 297_305
1162	VLYKGVLKR	Q6NW34 CC017 185_193
1163	QHDDGRVSY	P60983 GMFB 76_84
1164	MHSEELLAF	Q14995 NR1D2 567_575
1165	PFHLVSTEF	Q9HCU0 CD248 182_190
1166	AHFLEKQGF	P35606 COPB2 622_630
1167	ELEKRSDL	Q53GA4 PHLA2 12_20
1168	YHIGIPLTY	Q9H269 VPS16 434_442
1169	KVFAGYYTK	O00469 PLOD2 636_644
1170	VFIDHPVHL	Q6N022 TEN4 456_464
1171	HTKIRHVDA	Q13283 G3BP1 74_82; Q9UN86 G3BP2 74_82
1172	IRHPNIITL	O43293 DAPK3 71_79
1173	AHYNLQNAF	O15020 SPTN2 233_241; Q01082 SPTB2 230_238
1174	KYIGENQLL	Q9Y221 NIP7 18_26
1175	VFIDKQTNL	O95319 CELF2 454_462; Q92879 CELF1 432_440
1176	KFLPVMTIEI	Q5VUJ9 EFCB2 211_219
1177	RLHVLKALK	Q9UP65 PA24C 24_32
1178	NHLSFLNSF	Q13488 VPP3 525_533
1179	GHYQNALYL	P53621 COPA 731_739
1180	IYVPSSYHL	Q8IX21 F178A 149_157
1181	RYGLLTNEI	Q96C10 DHX58 455_463
1182	RYIANTVEL	P04844 RPN2 357_365
1183	KSFEKTNPK	Q9UHK0 NUFP1 425_433
1184	AYVEKVEKL	Q8IY63 AMOL1 604_612
1185	KYITDVVKL	O75691 UTP20 1425_1433
1186	KLISTLIYK	O14980 XPO1 245_253
1187	KAYKTVIKK	P43686 PRS6B 401_409
1188	QVSNWFGNK	P40424 PBX1 279_287; P40425 PBX2 290_298; P40426 PBX3 281_289; Q9BYU1 PBX4 256_264
1189	AVYENAREK	Q75QN2 INT8 269_277
1190	THVIFKDGY	Q8NEM0 MCPH1 48_56
1191	EYVEDLAKI	Q7RTV5 AAED1 73_81

1192	VYVKHSISF	Q9Y2T2 AP3M1 274_282
1193	SHLADYVLY	Q16706 MA2A1 728_736
1194	SHAITLEFY	P69849 NOMO3 597_605; Q15155 NOMO1 597_605; Q5JPE7 NOMO2 597_605
1195	FHALGPIYY	Q9UL25 RAB21 81_89
1196	ALKQGWLHK	Q9HD67 MYO10 1213_1221
1197	RHGPPMHSY	O14770 MEIS2 420_428
1198	SHFQSSNKF	Q9H4H8 FA83D 303_311
1199	DHHQEVIDF	Q9NZB2 F120A 165_173
1200	SFSTVHEKF	Q8NI36 WDR36 406_414
1201	VHVHDLQSF	Q9Y282 ERGI3 227_235
1202	ETNKRFSSL	Q9NWQ8 PHAG1 289_297
1203	RVVGKYCEK	Q00610 CLH1 903_911
1204	HHYTGLLKL	P42858 HD 895_903
1205	VYTKKTTKL	O15027 SC16A 1574_1582
1206	IYNGDMEKI	Q12983 BNIP3 38_46
1207	YKAPITNEF	Q9Y4X0 AMMR1 280_288
1208	NYLKDGPYI	Q6P2Q9 PRP8 793_801
1209	VQGIFVEKY	A6NIZ1 RP1BL 24_32; P61224 RAP1B 24_32; P62834 RAP1A 24_32
1210	KYLDALNVF	O15063 K0355 82_90
1211	TYLKAVKLF	P48200 IREB2 410_418
1212	RYSGNQVLF	Q8TEU7 RPGF6 57_65
1213	FRKNFATSL	P08758 ANXA5 288_296
1214	YILSPLSYK	Q8WUT9 S2543 300_308
1215	KIYPGHGRR	P83731 RL24 12_20
1216	FMTADETRN	P16070 CD44 724_732
1217	SHYSEMLAF	Q96JJ3 ELMO2 141_149
1218	IVDEGHRMK	P51531 SMCA2 849_857; P51532 SMCA4 879_887
1219	NYLPQISHL	Q86TW2 ADCK1 419_427
1220	QQNPQPLIF	O00170 AIP 142_150
1221	IHEPEPHIL	P33552 CKS2 59_67; P61024 CKS1 59_67
1222	KYLQVVGMF	P30559 OXYR 116_124
1223	KLYSEFLGK	P09488 GSTM1 136_144; P46439 GSTM5 136_144
1224	ILNKKLLSR	Q9Y426 CU025 672_680
1225	KLIEVVKKK	Q02880 TOP2B 357_365
1226	IFTDLSSRF	P13010 XRCC5 134_142
1227	KVKMTTHLK	P63165 SUMO1 37_45
1228	MPKIKMPKI	Q09666 AHNK 2766_2774
1229	SHSHQSQIY	O15027 SC16A 1194_1202
1230	YYSPHGHIL	Q9BY44 EIF2A 321_329
1231	KTFPNTIEH	Q9NUA8 ZBT40 1053_1061
1232	HHSSVIFIF	Q6YHK3 CD109 1425_1433
1233	KFIDTTSKF	P39023 RL3 366_374; Q92901 RL3L 366_374
1234	HYIDDLVVI	Q9Y2K6 UBP20 747_755
1235	EEKQSPLQK	Q9H0A8 COMD4 111_119
1236	QLFQRPNAL	Q14671 PUM1 386_394
1237	ELDKRIEAL	Q9Y3X0 CCDC9 16_24
1238	KYPDRVPI	O95166 GBRAP 24_32; P60520 GBRL2 24_32; Q9H0R8 GBRL1 24_32

1239	KMPKVKMPK	Q09666 AHNK 1381_1389
1240	RVMKALVNR	Q08945 SSRP1 316_324
1241	DVKKRIKEA	Q9Y6X9 MORC2 347_355
1242	IHSKVKVIY	P26358 DNMT1 828_836
1243	RVLDVTKKK	Q9BUT1 BDH2 55_63
1244	VYSNSIYEL	Q86WV6 STING 239_247
1245	THQPIVETY	Q9H9E3 COG4 285_293
1246	YHVDSLQL	Q9BQ70 TCF25 284_292
1247	EHDLGKY	P62913 RL11 111_119
1248	KTPEMIIQK	Q09666 AHNK 489_497
1249	RVAELILHH	Q7Z695 ADCK2 522_530
1250	RTQLPQSMK	Q8TEL6 TP4AP 372_380
1251	DLERKVESL	P08670 VIME 219_227
1252	VFNDVRLLL	P47755 CAZA2 32_40; P52907 CAZA1 32_40
1253	RVLDPFTIK	P29401 TKT 530_538
1254	GHFENQKVM	Q16643 DREB 56_64
1255	IYGYVAEQF	Q9Y6A9 SPCS1 37_45
1256	SHEEGRLVY	P35573 GDE 586_594
1257	KYTTPPHHI	O43920 NDUS5 91_99
1258	IVYGQPRTR	O15270 SPTC2 296_304
1259	VYLDEPIKI	Q14BN4 SLMAP 22_30
1260	KVYPKAVER	O15021 MAST4 1578_1586
1261	RIADIFVKK	Q6ZV73 FGD6 951_959
1262	MHLVDISEF	Q52LW3 RHG29 726_734
1263	TLYSQYTSK	Q86WG5 MTMRD 1731_1739
1264	YTMKKVHAL	P10646 TFPI1 3_11
1265	DAKIRIFDL	P27635 RL10 28_36; Q96L21 RL10L 28_36
1266	KYNDFGNSF	P17036 ZNF3 173_181
1267	IHSQTSQQY	P15924 DESP 838_846
1268	RVGDHMMFV	Q504T8 MIDN 144_152
1269	HYPLNTVTF	Q9HBL0 TENS1 1660_1668
1270	NHFVEGLLY	Q15392 DHC24 264_272
1271	MHSEKLLSF	P20393 NR1D1 601_609
1272	RFIGIPNQF	Q8NCM8 DYHC2 805_813
1273	KYISKPENL	Q9H9S4 CB39L 247_255; Q9Y376 CAB39 248_256
1274	ELFKDKKAL	O43795 MYO1B 946_954
1275	KLLQKLLVH	Q9UJX4 APC5 562_570
1276	FQMPTPIQM	Q9Y2R4 DDX52 185_193
1277	MHYPTALLF	P49184 DNSL1 1_9
1278	KHFGTILNY	Q13829 BACD2 78_86; Q9H3F6 BACD3 82_90
1279	VLYPETSRK	Q9NXH8 TOR4A 100_108
1280	VRNDIYVTL	Q14185 DOCK1 424_432; Q9H7D0 DOCK5 442_450
1281	RSDTPLIYK	P41252 SYIC 402_410
1282	QLYSKAVQR	Q8N5D0 WDTC1 383_391
1283	SLYAKVRKK	Q68CZ2 TENS3 352_360
1284	DHHLPTVQF	P27694 RFA1 292_300
1285	KTLPQMFTK	O95486 SC24A 600_608

1286	RLDAVRHAR	Q7L5Y9 MAEA 214_222
1287	RLKEAYSVK	Q6P2Q9 PRP8 845_853
1288	FLKPKINSF	Q8TED1 GPX8 39_47
1289	VVKKHIKEL	O43663 PRC1 42_50
1290	IHDDFVTTF	Q8IUX7 AEBP1 466_474
1291	SHHPVQQVY	O14607 UTY 408_416
1292	AYIDYLSHL	Q12996 CSTF3 449_457
1293	HHIPDVITY	P37268 FDFT 268_276
1294	ALYQPLFDK	Q99733 NP1L4 97_105
1295	ILKEHITQL	Q8IWJ2 GCC2 719_727
1296	KLFNKFIGK	P48200 IREB2 803_811
1297	RVNIPKVLR	P53675 CLH2 1342_1350; Q00610 CLH1 1342_1350
1298	YHGDLNETF	P53582 MAP11 228_236
1299	YHKVSQNGY	Q14693 LPIN1 709_717
1300	TYQDIQNTI	P24928 RPB1 698_706
1301	IHKHEIVGY	P46100 ATRX 2243_2251
1302	ILYDHAHVK	P11926 DCOR 329_337
1303	ALWPQIIQK	Q96PB1 CASD1 533_541
1304	ATEDSQRYK	P62699 YPEL5 87_95
1305	AHLPHTFQF	P54253 ATX1 121_129
1306	NYAQVLDKF	Q9ULH1 ASAP1 94_102
1307	NYLSHHLTI	Q9H074 PAIP1 223_231
1308	YYSEVPVKL	Q9NR99 MXRA5 383_391
1309	AQIKFLNTY	Q8ND90 PNMA1 246_254
1310	ALAEYVIYR	Q9H2K2 TNKS2 1135_1143
1311	VYKVPPFTF	Q6NZI2 PTRF 315_323
1312	DTMKFKSL	Q9BTT4 MED10 100_108
1313	RVKYGTVFK	Q96ST3 SIN3A 1263_1271
1314	RIIDLVLQK	O15397 IPO8 638_646
1315	RYVQPMASF	Q7KZ85 SPT6H 1414_1422
1316	SHHRNIATY	O95819 M4K4 77_85; Q8N4C8 MINK1 77_85; Q9UKE5 TNIK 77_85
1317	TYIQDAFQL	Q8IWE2 NXP20 536_544
1318	HRINPGLEY	Q8NEZ4 KMT2C 4130_4138
1319	FRPGKFAEF	Q9UM54 MYO6 758_766
1320	QLYDKGLVY	P41252 SYIC 165_173
1321	RILPESQQK	Q9Y227 ENTP4 183_191
1322	KTQPPLMKR	Q9NZ32 ARP10 403_411
1323	KYAPRFNGF	Q8NFA0 UBP32 813_821
1324	KYINTDAKF	Q8TEL6 TP4AP 602_610
1325	HLSELMLEK	O75159 SOCS5 209_217
1326	QYLGQIQHI	P04818 TYSY 32_40
1327	QHILSVQQF	P27708 PYR1 1924_1932
1328	HYPPVQVLF	P52701 MSH6 588_596
1329	NLKLKLHSF	Q09028 RBBP4 305_313
1330	KIQEKKVVKK	Q9NSV4 DIAP3 233_241
1331	NHHMQSISF	P29353 SHC1 254_262; Q6S5L8 SHC4 284_292
1332	THHTTQQTF	Q14157 UBP2L 889_897

1333	DHYPVEVEL	P49184 DNSL1 264_272
1334	HVNQYDIVL	P53618 COPB 733_741
1335	KLKEEVINK	Q96G28 CC104 334_342
1336	KMPKIKMPK	Q09666 AHNK 997_1005
1337	TLRLKVEEL	Q9Y6D9 MD1L1 500_508
1338	GQPEIFYTF	Q9UP83 COG5 375_383
1339	NHRQTPVSY	P61587 RND3 151_159
1340	AHNAIEKRY	P36956 SRBP1 327_335
1341	EYAKIHDLL	Q5VUA4 ZN318 588_596
1342	RHS DIVVLY	Q6PCD5 RFWD3 335_343
1343	KYLHPPPHL	Q9NR56 MBNL1 67_75; Q9NUK0 MBNL3 68_76
1344	KWIDTQVVL	P06737 PYGL 215_223
1345	RYIPLIVDI	Q5T5U3 RHG21 1158_1166
1346	KLALPYLRK	Q9BPX1 DHB14 123_131
1347	QHQEVISVY	Q9P0K7 RAI14 938_946
1348	THLENPTKY	O75030 MITF 121_129
1349	KVSDYILQH	O75129 ASTN2 1097_1105
1350	KLN PQQFEV	P46977 STT3A 289_297
1351	YLKAFKVAY	Q08431 MFGM 154_162
1352	KLYLPVQNK	Q9Y6A4 CP080 182_190
1353	VVYPKVIER	P30566 PUR8 363_371
1354	KLIVPIYEK	Q5JSL3 DOC11 1720_1728
1355	THQEDPITY	Q9HCE1 MOV10 405_413
1356	KYNANFVTF	Q9Y2K7 KDM2A 48_56
1357	ALDKNFHMK	Q15942 ZYX 525_533
1358	GTLEQWIEK	P19525 E2AK2 372_380
1359	VYVQHPITF	Q99732 LITAF 79_87
1360	VTYEHLITK	P07814 SYEP 624_632
1361	RIFTSVPKR	Q53S33 BOLA3 99_107
1362	GHLDHTMFF	Q9Y4L5 RN115 76_84
1363	AYVHMVTHF	P55061 BI1 45_53
1364	HLYQESISK	Q9C0D5 TANC1 1825_1833
1365	YYTPITPHL	O95758 PTBP3 113_121
1366	TVWNRTAEK	Q49A26 GLYR1 294_302
1367	IYHQVAVQF	O00763 ACACB 2289_2297; Q13085 ACACA 2178_2186
1368	KYPDIIHSRI	P18858 DNLI1 597_605
1369	LGKERFLEL	P15036 ETS2 142_150
1370	VIYFPPLQK	P98194 AT2C1 858_866
1371	RLFKDGGKLK	P23219 PGH1 244_252
1372	SQMKS YQSF	Q12789 TF3C1 1442_1450
1373	SIQKPYNQK	P23634 AT2B4 1153_1161
1374	KYLHPPTHL	Q5VZF2 MBNL2 67_75
1375	KLYAQVKQK	Q9Y4X5 ARI1 433_441
1376	KLFSEKLLK	Q15067 ACOX1 537_545
1377	DHYHSDVAY	Q07343 PDE4B 397_405
1378	HHVSPHETY	A5PLL7 TM189 217_225
1379	AYVEKVERL	Q9Y2J4 AMOL2 481_489

1380	QLYSKAIQR	Q9UKT4 FBX5 293_301
1381	ALYEAKRQK	P26006 ITA3 1026_1034
1382	KVYDKAINR	Q6KC79 NIPBL 2574_2582
1383	RVYDLGKKK	Q15393 SF3B3 968_976
1384	VHNFFPEAF	P53814 SMTN 838_846
1385	RLYGNTPMR	Q14667 K0100 952_960
1386	GYLPNQLFR	Q92499 DDX1 730_738
1387	KTFSEILNR	Q14204 DYHC1 872_880
1388	VFLRAINQF	Q9H7D0 DOCK5 1016_1024
1389	RTFTWLVGK	O00159 MYO1C 388_396
1390	RLKAKEYSL	P54821 PRRX1 228_236
1391	QLFYLPACK	Q9UBU8 MO4L1 219_227
1392	ILNKKLLEH	Q9Y4B5 MTCL1 1852_1860
1393	KLNTLILRH	Q86SJ2 AMGO2 94_102
1394	HGYENPTYK	Q06481 APLP2 748_756
1395	EHYDTAILF	Q9UHI8 ATS1 348_356
1396	HTVDFTFNK	P18084 ITB5 781_789
1397	PFVDHVFTF	Q8TDN6 BRX1 200_208
1398	GTMEWIMIK	Q8WVI0 SMIM4 34_42
1399	KYQEVTNNL	Q14444 CAPR1 98_106
1400	FRQPVVDTF	Q86X55 CARM1 335_343
1401	PYADQVFRI	P42694 HELZ 955_963
1402	RYLQTLTTI	P27105 STOM 251_259
1403	YLYGQTTTY	P11388 TOP2A 684_692
1404	SHYFQSLEV	Q9BR11 ZSWM1 252_260
1405	SYSPYAFKF	Q9NRM7 LAT52 596_604
1406	KYFHPPAHL	Q5VZF2 MBNL2 232_240; Q9NR56 MBNL1 235_243; Q9NUK0 MBNL3 230_238
1407	KYSDIQRSI	P16234 PGFRA 753_761
1408	THSKVLYVY	Q9Y5J1 UTP18 315_323
1409	HQITVLHVY	Q9NYP7 ELOV5 137_145
1410	NHEDKIRVV	Q9H4M9 EHD1 209_217
1411	QLYKESLT	P35580 MYH10 655_663
1412	VIFKDFVNK	Q63HN8 RN213 1305_1313
1413	RYVIIPTTF	O15484 CAN5 467_475
1414	KLLEKHITK	Q14573 ITPR3 604_612
1415	RHFSKSDSF	Q4FZB7 SV421 111_119
1416	AHFFQQLGY	Q9BRK3 MXRA8 336_344
1417	AYTTVLQEW	Q63ZY3 KANK2 619_627
1418	HHNWIAVAY	Q8TBC3 SHKB1 202_210
1419	YRTDMIQAL	Q6P2Q9 PRP8 1470_1478
1420	VTLPYFHSF	Q9HD67 MYO10 1173_1181
1421	VYMEISQKL	Q96NE9 FRMD6 68_76
1422	VYVDKVEKM	Q4VCS5 AMOT 598_606
1423	RITTPYMTK	P61218 RPAB2 51_59
1424	MYSQLIKKI	Q86Y37 CACL1 179_187
1425	KVWAGKFFF	Q15746 MYLK 1488_1496
1426	RLLPYALHK	Q9UL63 MKNL1 14_22

1427	IRLVQILQK	Q96KD3 F71F1 191_199
1428	YGQNDIHHK	Q9UN86 G3BP2 56_64
1429	YHTDTTVKF	P11388 TOP2A 960_968; Q02880 TOP2B 981_989
1430	QRQDIAFAY	P07355 ANXA2 67_75
1431	ARVIFITEY	Q9NSY0 NRBP2 117_125; Q9UHY1 NRBP 144_152
1432	AVYFKGLWK	P07093 GDN 186_194
1433	KFVNKSYLL	Q6PI26 SHQ1 255_263
1434	KLLDPIREK	P54577 SYYC 319_327
1435	SHFDSPFEF	O75190 DNJB6 81_89
1436	NHHLQETSF	P13693 TCTP 75_83; Q56UQ5 TPT1L 80_88
1437	SHQHVKITY	P38435 VKGC 407_415
1438	KYEAIQLTF	Q9UQE7 SMC3 1025_1033
1439	QVYIPTYTK	O94776 MTA2 333_341
1440	LLKSFFTEK	Q9Y3Q3 TMED3 200_208
1441	RYGDLVDYL	P09619 PGFRB 685_693
1442	TRYQGVNLY	P11940 PABP1 289_297
1443	IYVIPQPHF	Q8NG31 CASC5 1463_1471
1444	KYVYVVTEL	P51812 KS6A3 487_495
1445	NLKLKLHTF	Q16576 RBBP7 304_312
1446	ELKLKEIQL	P51955 NEK2 305_313
1447	KTYGEIFEK	O95298 NDUC2 106_114
1448	NQKLKQENL	P36956 SRBP1 377_385
1449	KQKWLDII	Q8TCU6 PREX1 380_388
1450	NLKEKIKEL	O60341 KDM1A 450_458
1451	VLYLKPLRI	Q9UFH2 DYH17 286_294
1452	NHIDQTTTW	P46937 YAP1 191_199
1453	KVYNENLVH	O75934 SPF27 136_144
1454	RISGYNIRH	Q8IWV7 UBR1 1242_1250
1455	ELKEKLRSI	P30533 AMRP 223_231
1456	AAYAWPFYK	O60885 BRD4 370_378; P25440 BRD2 366_374; Q15059 BRD3 328_336
1457	KYFALPHKI	Q5VYS8 TUT7 627_635
1458	VIYQKPQLK	Q14159 SPIDR 653_661
1459	AYSSYVHQY	Q92624 APBP2 337_345
1460	QHSDIAQRY	Q9BS26 ERP44 94_102
1461	KYSDITIMF	Q14353 GAMT 181_189
1462	FYVDTVRAF	Q07864 DPOE1 753_761
1463	SHWLANVKY	Q63HK5 TSH3 947_955; Q6ZSZ6 TSH1 941_949; Q9NRE2 TSH2 897_905
1464	KHRIDGKTY	P19525 E2AK2 285_293
1465	KIMKDILEK	P07900 HS90A 573_581
1466	KLKIPLIHR	P04062 GLCM 194_202
1467	YQHGHINSY	Q9UKB1 FBW1B 102_110; Q9Y297 FBW1A 163_171
1468	RAYPHVFTK	O14949 QCR8 25_33
1469	KLVEQAFRK	P85037 FOXK1 388_396
1470	KYVPYSESF	O94830 DDHD2 124_132
1471	EHKVMEVTF	Q7Z417 NUFP2 528_536
1472	NSKLRQENM	P40222 TXLNA 295_303
1473	KFVDSTFYL	Q8N1F7 NUP93 683_691

1474	VYTTTVHWL	Q6P2Q9 PRP8 809_817
1475	IPTHHPRVY	O95415 BRI3 49_57
1476	RLLHSPLFH	Q9Y644 RFNG 251_259
1477	VYVQELQKL	Q15075 EEA1 285_293
1478	MPKIKMPKF	Q09666 AHNK 998_1006
1479	TLFWKPLSK	Q99650 OSMR 450_458
1480	KYIKEAVRL	Q96NE9 FRMD6 218_226
1481	AYGHFSYEF	Q96QP1 ALPK1 1160_1168
1482	MRSLLRTPF	Q8NI22 MCFD2 3_11
1483	QLYKEQLAK	P35579 MYH9 648_656
1484	KYLDIPKML	O43707 ACTN4 233_241; P12814 ACTN1 214_222; Q08043 ACTN3 228_236
1485	RYLVISEKL	Q9Y546 LRC42 158_166
1486	IYLEKLKTI	Q15149 PLEC 1220_1228
1487	RYIDHYAAI	Q9UK99 FBX3 88_96
1488	KVESDPRYK	O14776 TCRG1 820_828
1489	AYVQIKTIW	Q16850 CP51A 455_463
1490	SYLDVKQRL	P61221 ABCE1 245_253
1491	RLSFPNLFK	O43299 AP5Z1 429_437
1492	KYQPRIA VF	Q13569 TDG 221_229
1493	LYTPVLIRF	Q9H1C4 UN93B 124_132
1494	TEREPDQTF	Q9GZP4 PITH1 119_127
1495	QHDFTSQIF	Q04724 TLE1 653_661; Q04726 TLE3 655_663; Q04727 TLE4 656_664
1496	QHITPSYN Y	Q8IWU5 SULF2 244_252; Q8IWU6 SULF1 243_251
1497	KVMQQNLVY	O75718 CRTAP 329_337
1498	AQESKIRYK	A0FGR8 ESYT2 570_578
1499	RLFKDGMK	P35354 PGH2 231_239
1500	KLYNKITSR	Q92989 CLP1 198_206
1501	RIKPPWVVK	Q8IXJ9 ASXL1 578_586
1502	KLNIRPLL R	Q15029 U5S1 409_417
1503	SHDNVIYIY	Q32P44 EMAL3 699_707
1504	AHTPQFFIY	O94966 UBP19 984_992
1505	SLYPKLFQK	Q9H6T3 RPAP3 576_584
1506	IRPDNMSEY	Q13547 HDAC1 79_87; Q92769 HDAC2 80_88
1507	YHYLPALTF	Q9Y6A1 POMT1 664_672
1508	KTFDSSRQR	Q96GY0 ZC21A 47_55
1509	TRKWTGTQF	Q1ED39 KNOP1 351_359
1510	SHREQIIEL	Q03001 DYST 6647_6655
1511	LYVVDLKKF	Q9NYU1 UGGG2 1392_1400; Q9NYU2 UGGG1 1417_1425
1512	KVFKQIFSK	O15228 GNPAT 128_136
1513	RYGSDFYSM	Q86W34 AMZ2 204_212
1514	HHHAGYEQF	P13473 LAMP2 402_410
1515	KFNPV SFTW	Q9BQ90 KLDC3 270_278
1516	RYQGVNL YI	Q13310 PABP4 290_298
1517	RLYQAQAL Y	Q86WT1 TT30A 82_90; Q8N4P2 TT30B 82_90
1518	AQWQKVLP R	Q9Y2R0 COA3 44_52
1519	KLA VLKY YK	P62979 RS27A 99_107
1520	LPSRILLWK	Q9BRK3 MXRA8 3_11

1521	MYPDVFAHF	P11498 PYC 1012_1020
1522	TQNPNEYNL	O75643 U520 1765_1773
1523	TLKSEQEEY	O00159 MYO1C 453_461
1524	KQLAVYEEF	A5YKK6 CNOT1 1567_1575
1525	KLWDEVLSH	Q96PU4 UHRF2 708_716
1526	SYQKVIELF	Q96KB5 TOPK 289_297
1527	TPYMVQPEY	O43679 LDB2 22_30
1528	SVHWFPVQK	Q9UH36 SRR1L 294_302
1529	QLYHSPARR	Q15717 ELAV1 198_206
1530	RLSDTLLFY	Q6ZPD9 D19L3 411_419
1531	ALYSVYRQK	Q969V5 MUL1 24_32
1532	ILENIQRNK	P18074 ERCC2 557_565
1533	VWPAKPFHF	P19174 PLCG1 1139_1147
1534	RLREGQTLR	O00165 HAX1 118_126
1535	RISKEVIRK	O75521 ECI2 346_354
1536	RLYGGMNYR	Q9Y2M5 KLH20 582_590
1537	RVLPPYPFTH	Q9BVJ6 UT14A 683_691
1538	IFHEVPLKF	Q659A1 NARG2 341_349
1539	SVYQIKVHR	Q14204 DYHC1 2957_2965
1540	KLWGKQKNK	Q99607 ELF4 249_257
1541	KIFKKPLKK	Q13586 STIM1 677_685
1542	DHIQSRIVY	Q16875 F263 229_237; Q16877 F264 232_240
1543	TYAEKLHRL	Q03001 DYST 672_680
1544	WLKEKVQSL	Q5KU26 COL12 257_265
1545	NRGQFFTGY	Q9Y2G9 SBNO2 1086_1094
1546	SYLSQHQRI	Q8NA42 ZN383 239_247
1547	AHKIYIHGSY	Q9UHD2 TBK1 321_329
1548	RVVNSHSLR	Q9NZM1 MYOF 264_272
1549	NIKQKMQEL	Q9NQW6 ANLN 715_723
1550	RLYDLPAKR	Q8NF91 SYNE1 3202_3210
1551	VHSENVVVY	Q8N766 EMC1 785_793
1552	FRKEAGDFY	Q9UGU0 TCF20 82_90
1553	RTYEEGLKH	P31948 STIP1 93_101
1554	KYVSGEFRF	Q9BRS2 RIOK1 222_230
1555	KMFSHQVQK	Q9Y4C2 F115A 871_879
1556	SYLKQLPHF	O75643 U520 1958_1966
1557	KLDQTIMRK	Q6STE5 SMRD3 131_139; Q96GM5 SMRD1 156_164
1558	MHKLSPEEY	Q9HC24 LFG4 202_210
1559	TYGEIFEKF	O95298 NDUC2 107_115
1560	KLYPDSRVR	Q96N67 DOCK7 532_540
1561	KFIDKQLEL	O95140 MFN2 402_410
1562	FIKKKIEEV	Q8IWBB9 TEX2 1008_1016
1563	LSYDQPRKK	Q14241 ELOA1 437_445
1564	RIYPSKTNR	Q8TF74 WIPF2 419_427
1565	RVSYQKLLK	Q6P2Q9 PRP8 444_452
1566	YRYPTGESY	Q16875 F263 355_363
1567	FRVPFIYGH	Q9NZ01 TECR 107_115

1568	VSLKIYHEF	Q9BQJ4 TMM47 141_149
1569	TQHIQQPRK	P51397 DAP1 94_102
1570	KYIDKTIRV	Q9UK45 LSM7 17_25
1571	KLVKYMLK	Q9Y5V3 MAGD1 477_485
1572	QYNPLPIEY	Q08AE8 SPIR1 293_301
1573	VFQEKKHVI	Q6UVY6 MOXD1 212_220
1574	KYPNVFKKI	O43865 SAHH2 240_248
1575	TYTSYLDKF	Q16659 MK06 624_632
1576	AVYVPFWQK	Q15361 TTF1 809_817
1577	HLEDIVRQK	Q14669 TRIPC 1751_1759
1578	QLFEVKVFK	Q5TBB1 RNH2B 59_67
1579	KLFYKAIVR	O15417 TNC18 2806_2814; Q9P281 BAHC1 2471_2479
1580	QHLSSLQYY	Q8NEU8 DP13B 174_182
1581	IQEESLRTY	B5ME19 EIFCL 784_792; Q99613 EIF3C 783_791
1582	LYDIILKNF	Q06323 PSME1 226_234
1583	EHNPVFFSY	Q9NQW7 XPP1 217_225
1584	GHYYDPLQF	O15234 CASC3 545_553
1585	QYNTYPIKL	P61619 S61A1 275_283
1586	KVFERAVQY	Q14690 RRP5 1679_1687
1587	RLFNAIIHR	Q15149 PLEC 328_336
1588	KVLQKFLTY	Q96G75 RMD5B 13_21
1589	RLPTKKLFH	Q96N67 DOCK7 978_986
1590	LILPHYHTF	Q9Y247 FA50B 242_250
1591	YLYITKVLK	P24390 ERD21 196_204; P33947 ERD22 196_204
1592	PYYQPPYTL	Q3ZCQ8 TIM50 142_150
1593	HYTIVFNTF	P20020 AT2B1 971_979; P23634 AT2B4 959_967
1594	QLQEERPEL	P17480 UBF1 424_432
1595	KSNYQVFQK	Q6P2C8 MED27 233_241
1596	RMTHKLLSR	Q7L576 CYFP1 806_814
1597	RYISDQLFT	Q6XZF7 DNMBP 1085_1093
1598	KYLTVKDYL	Q6PL18 ATAD2 1042_1050
1599	TMLGKFYHF	Q9HBG6 IF122 937_945
1600	VYEEILHQI	Q9BZQ8 NIBAN 540_548
1601	QYTPHSHQF	Q8N122 RPTOR 915_923
1602	HYLPDLHHL	O15230 LAMA5 866_874
1603	RYQDIHSI	Q9UIG0 BAZ1B 1024_1032
1604	LFLPESPRW	Q96QE2 MYCT 257_265
1605	ELKEKKKEL	Q14683 SMC1A 262_270
1606	RLPKPLHR	Q7Z591 AKNA 898_906
1607	THYIQHLSF	Q9Y282 ERGI3 243_251
1608	SHYLYVRAH	Q9Y3A4 RRP7A 37_45
1609	KMPNKMIRK	Q13523 PRP4B 907_915
1610	YENQKQSSY	Q92804 RBP56 70_78
1611	YRNDYATML	P12110 CO6A2 212_220
1612	KFYGNRHLI	Q9NWT1 PK1IP 89_97
1613	DHMQTNQNF	P10243 MYBA 216_224
1614	HYINMPVQF	Q8TEP8 CE192 1899_1907

1615	FSSSHRYHK	O94979 SC31A 63_71
1616	YYVNGTYRL	Q96MT1 RН145 452_460
1617	IYQKAFEHL	Q96RK4 BBS4 217_225
1618	RWPKKSAEF	P18621 RL17 82_90
1619	AHQFLQNEY	Q16531 DDB1 804_812
1620	SLKEKIYRL	Q14678 KANK1 464_472
1621	SYIEHIFEI	Q15121 PEA15 61_69
1622	KLHQRVEQL	P49716 CEBDP 232_240
1623	AHYDEQQNF	Q9NWT6 HIF1N 198_206
1624	RFKDRIVSM	Q8N3U4 STAG2 370_378; Q8WVM7 STAG1 373_381
1625	KTFTKWVNK	Q15149 PLEC 183_191; Q9UPN3 MACF1 82_90
1626	HHQNEVINY	Q9NQ48 LZTL1 9_17
1627	RTYQSITER	Q96A65 EXOC4 74_82
1628	QRDFGVRIY	Q8IX12 CCAR1 779_787
1629	SYLKDTKLW	Q9Y6E0 STK24 100_108
1630	HHKILETLY	Q5W0V3 F16B1 84_92
1631	KYIDQKFVL	Q13362 2A5G 157_165; Q14738 2A5D 233_241; Q16537 2A5E 174_182
1632	IYIKQIKTF	Q08999 RBL2 1012_1020
1633	FEVFQHNSF	O00159 MYO1C 425_433
1634	SIWDETLYK	Q5VZM2 RRAGB 224_232; Q7L523 RRAGA 163_171
1635	NRYKQEIGF	Q9NPA3 M1IP1 170_178
1636	QTFQRVFTK	Q15436 SC23A 384_392
1637	GHHWTEIEF	Q9BU23 LMF2 475_483
1638	RMFPSYKVK	P57082 TBX4 95_103; Q99593 TBX5 82_90
1639	KISPYYRTK	Q96ES7 SGF29 50_58
1640	TYLDKIKKF	Q8WXH0 SYNE2 2555_2563
1641	YYTDIMHTL	O15031 PLXB2 1364_1372
1642	LYANMFERL	Q02790 FKBP4 410_418
1643	KYQDVYVEL	Q9H2D6 TARA 2320_2328
1644	RYIAEKTEF	Q5JWR5 DOP1 862_870
1645	HLAEKFRQK	O43707 ACTN4 413_421; P12814 ACTN1 394_402; P35609 ACTN2 401_409; Q08043 ACTN3 408_416
1646	TQREFMLSF	Q96GM5 SMRD1 436_444
1647	RTFPFSLQY	O75159 SOCS5 478_486
1648	HVYSWPKNK	O43734 CIKS 537_545
1649	LEGFNNYRF	P35580 MYH10 301_309
1650	HIYKDVEKK	Q9UJF2 NGAP 230_238
1651	KYFAKHPRL	P46939 UTRO 3141_3149
1652	VYISEHEHF	O96005 CLPT1 107_115
1653	RYTDVSTRY	Q9Y320 TMX2 198_206
1654	KYHGYPYSF	Q9H0U3 MAGT1 324_332
1655	HHVIARHEY	Q8WUH1 CHUR 92_100
1656	IVYEKIMEH	O75643 U520 707_715
1657	DHMLIQNEY	P30291 WEE1 370_378
1658	HLKEDQTEY	P07900 HS90A 189_197; P08238 HS90B 184_192; Q14568 HS902 189_197; Q58FF6 H90B4 159_167; Q58FF7 H90B3 163_171
1659	SYYKDALRF	Q9UNM6 PSD13 171_179
1660	HYLREVQAF	Q13017 RHG05 207_215

1661	KLNNRQLNY	Q12792 TWF1 192_200
1662	QIKKKLEEF	Q9Y6V7 DDX49 366_374
1663	QYVDFHNQL	P28715 ERCC5 836_844
1664	GLYYIHRNK	P50750 CDK9 136_144
1665	PFLDIQKRF	O43920 NDUS5 2_10
1666	KIYNSRVQR	Q5VY09 IER5 17_25
1667	RIIEKVIHR	Q14566 MCM6 771_779
1668	LQRLENTQY	Q96D70 R3HD4 70_78
1669	NHVDIKIYY	Q99805 TM9S2 210_218
1670	RLSYNVREK	Q13247 SRSF6 8_16
1671	DHYKLTNQF	Q9HCH5 SYTL2 868_876
1672	AVYQEWELEK	Q49MG5 MAP9 427_435
1673	IIYRMTNQK	O75787 RENR 338_346
1674	VYLDKFIRL	Q9NVN8 GNL3L 293_301
1675	FAHPYQYEL	Q01780 EXOSX 254_262
1676	AYLESFYKF	P61421 VA0D1 188_196
1677	RQIPYTMMK	Q00325 MPCP 226_234
1678	FVYEPKEQK	Q16666 IF16 589_597
1679	KYPVEWAKF	Q96GY0 ZC21A 306_314
1680	YVFPKPFNR	O95453 PARN 91_99
1681	NYIDKVRFL	P08670 VIME 116_124
1682	IYIKPHLF	Q9H147 TDIF1 232_240
1683	TYISWKEEL	Q709C8 VP13C 2607_2615
1684	VLYDRVLKY	Q9UHB9 SRP68 484_492
1685	SYRDSYESY	P38159 RBMX 280_288; Q96E39 RMXL1 280_288
1686	THYDAIMRY	Q9BZQ6 EDEM3 317_325
1687	EEKDWKTAY	O00231 PSD11 221_229
1688	SYLDQFRQL	Q2M389 WASH7 907_915
1689	HHSYDHVIY	Q8IWV7 UBR1 235_243
1690	EHLESHKKY	Q9Y2D5 AKAP2 257_265
1691	RLYDAYELK	P08758 ANXA5 89_97
1692	KSFDFKNLYR	P33991 MCM4 216_224
1693	KLKEKQIQR	Q9Y5A7 NUB1 180_188
1694	TYLEDRPMF	Q9Y4K0 LOXL2 561_569
1695	AYIERMNYI	P06241 FYN 379_387; P07947 YES 385_393
1696	NHYQKQLEI	P30533 AMRP 292_300
1697	RHNLSLNRY	P85037 FOXK1 354_362; Q01167 FOXK2 307_315
1698	IHQHFTEVY	Q8IXQ5 KLHL7 169_177
1699	VYPEYVIQY	Q9H0J9 PAR12 669_677
1700	RYIDTHNRV	Q9NYY3 PLK2 380_388
1701	KYVKIFDNF	O14628 ZN195 220_228
1702	SLYHKLREK	Q15392 DHC24 488_496
1703	AYIQEFQEF	Q6UWY5 OLFL1 55_63
1704	KMYEEFLSK	P10644 KAP0 244_252; P31321 KAP1 244_252
1705	TYMKDLYQL	Q8N392 RHG18 642_650
1706	KYIDYIFNV	Q8IVU3 HERC6 858_866
1707	FYNLLTRTF	Q969N2 PIGT 543_551

1708	WHLDPDTEY	Q15262 PTPRK 351_359; Q92729 PTPRU 345_353
1709	RHWEQAGEY	Q9UG01 IF172 1284_1292
1710	RYYGNISRF	Q96KQ7 EHMT2 1102_1110
1711	KYTKIFNDF	Q15326 ZMY11 470_478
1712	RLVQFHFTK	Q86YD1 PTOV1 323_331
1713	KVYENYPTY	P35659 DEK 349_357
1714	AHFREQELF	P98168 ZXDA 412_420; P98169 ZXDB 416_424; Q2QGD7 ZXDC 320_328
1715	SRFPQLNEW	Q6IBW4 CNDH2 526_534
1716	VYTYIQSRF	Q92630 DYRK2 379_387; Q9NR20 DYRK4 261_269
1717	RIFQEQQVEK	P10589 COT1 300_308; P24468 COT2 293_301
1718	THFDYQFGY	Q6PKG0 LARP1 357_365
1719	RYNPNLNTW	Q9NVR0 KLH11 425_433
1720	RVFPYSVFY	O15118 NPC1 1077_1085
1721	YYIFIPSKF	Q9H0S4 DDX47 241_249
1722	RVFKEENQK	Q9NYF8 BCLF1 673_681
1723	EWLSFGHRF	O95248 MTMR5 1456_1464; Q13614 MTMR2 452_460
1724	QHLQLFTEY	Q8NHH9 ATLA2 215_223; Q8WXF7 ATLA1 188_196
1725	QVSNWFKNR	Q15475 SIX1 167_175; Q8N196 SIX5 244_252; Q9NPC8 SIX2 167_175; Q9UIU6 SIX4 266_274
1726	EFLRDQPQF	P54725 RD23A 233_241
1727	KHKTFVEKY	Q16543 CDC37 147_155
1728	RYLDELMKL	P46940 IQGA1 496_504
1729	KYPHYFPVM	Q9BYT8 NEUL 244_252
1730	RLFQDQLVY	Q9Y3I1 FBX7 306_314
1731	KIFKNFKEK	P35606 COPB2 413_421
1732	SHFKVFRVY	Q96K76 UBP47 1078_1086
1733	RLFPLLRQR	Q8NBM4 UBAC2 277_285
1734	DHFETIMKY	P07814 SYEP 271_279
1735	KYIDFDHVF	Q96RY5 CRML 225_233
1736	KYQIINEEF	Q969F9 HPS3 162_170
1737	RMWEIAIQH	Q15139 KPCD1 530_538
1738	RMISKQFHH	B5ME19 EIFCL 709_717; Q99613 EIF3C 708_716
1739	YHSPYPEEY	O95251 KAT7 351_359
1740	QTHTRHYEL	Q14141 SEPT6 289_297; Q9NVA2 SEP11 288_296; Q9P0V9 SEP10 313_321
1741	YYLNDLDRI	A8MTJ3 GNAT3 154_162; P08754 GNAI3 154_162; P63096 GNAI1 154_162
1742	AYDTVRWEF	Q9UHL4 DPP2 235_243
1743	DHKPEWVLY	O43143 DHX15 728_736
1744	THYQSFLEY	P21964 COMT 242_250
1745	YHSDDYIKF	Q13547 HDAC1 67_75
1746	QHDEQVRLY	Q03252 LMNB2 246_254
1747	NYLSIFRKF	P07384 CAN1 619_627
1748	SYYHQQVTV	Q12946 FOXF1 363_371
1749	YHFYQGLVY	Q7Z6Z7 HUWE1 4151_4159
1750	KYLYVDKNF	P35579 MYH9 8_16
1751	ELKRKFEQL	Q13310 PABP4 275_283
1752	MHQIRKSEY	Q86XP3 DDX42 265_273
1753	KILDQYRQK	O15397 IPO8 307_315

1754	KLRQPFFQK	P0DME0 SETLP 85_93; Q01105 SET 75_83
1755	KIRSEFKRK	A6NMY6 AXA2L 302_310; P07355 ANXA2 302_310
1756	TRNDYVMMY	Q96QU8 XPO6 55_63
1757	KYMDVQFDF	O00159 MYO1C 200_208
1758	YHVRNIEVY	Q9UK59 DBR1 151_159
1759	RYSEYAEFF	Q9Y217 MTMR6 594_602
1760	RYNPENNTW	Q9Y6Y0 NS1BP 531_539
1761	MRRDVQEIF	O00148 DX39A 206_214; Q13838 DX39B 207_215
1762	KLYEMILKR	P56559 ARL4C 174_182
1763	NHFEGHYQY	P28562 DUS1 212_220; Q13115 DUS4 234_242
1764	HFIAEHYMF	O15121 DEGS1 228_236
1765	YQREGIEWN	P35579 MYH9 492_500; P35580 MYH10 499_507; P35749 MYH11 499_507
1766	KYNNFQMHL	O94855 SC24D 660_668
1767	QHHQIIQQY	Q09161 NCBP1 753_761
1768	NERHSYQVY	Q7Z628 ARHG8 419_427
1769	TYKDTHRKF	Q13099 IFT88 685_693
1770	LYQKDFLRI	Q96NE9 FRMD6 550_558
1771	PYLDSFYEY	O00237 RN103 381_389
1772	NHERFETTY	Q9NR19 ACSA 532_540
1773	RIYDIFRSK	Q01432 AMPD3 475_483
1774	QHMDFDSRY	Q8IWT3 CUL9 216_224
1775	NYLHLDYNF	Q6P2Q9 PRP8 514_522
1776	YYLNDLERI	P04899 GNAI2 155_163; P19086 GNAZ 155_163
1777	KVYYPPVRHH	Q9Y4A5 TRRAP 1972_1980
1778	RYLEQLHQL	P40763 STAT3 13_21
1779	TYIQKIFRM	O15254 ACOX3 142_150
1780	LPYNHQHEY	O95864 FADS2 257_265
1781	EEYQSLIRY	Q9Y3C8 UFC1 34_42
1782	VVYQQYWNTK	Q8N766 EMC1 791_799
1783	YHSDEYIKF	Q92769 HDAC2 68_76
1784	RFIPYTEEF	Q9Y6Y8 S23IP 354_362
1785	NHHEFEVKY	O75165 DJC13 810_818
1786	RTYPVQEYF	Q08211 DHX9 566_574
1787	QYTHKIYHL	P48739 PIPNB 56_64; Q00169 PIPNA 56_64
1788	RYFLPPYTF	Q16533 SNPC1 64_72
1789	THQNWEVQY	O95070 YIF1A 114_122
1790	KYDEIFYNL	Q9NZN4 EHD2 452_460
1791	KYLDIHERM	P62072 TIM10 57_65
1792	YKVEYPIMY	O14880 MGST3 36_44
1793	RLYFSQQTY	P33897 ABCD1 172_180
1794	QHVELYQKY	P01137 TGFB1 166_174
1795	RQYDKFLTH	Q7Z6M2 FBX33 416_424
1796	KHQEHILRF	Q13263 TIF1B 340_348
1797	RLMEIYQEK	Q92616 GCN1L 1200_1208
1798	EYIIEYPHF	Q13423 NNTM 721_729
1799	RYLNEFEEL	Q9BQI3 E2AK1 162_170
1800	YYEHVVKARF	Q9BV36 MELPH 121_129

1801	KIFNFYPRK	O14531 DPYL4 390_398
1802	SYTDVWEKW	Q68CQ7 GL8D1 341_349
1803	EHYKFIVDY	Q96EK5 KBP 574_582
1804	QLYWSHPRK	P62273 RS29 5_13
1805	EYSKQMQRF	Q13547 HDAC1 86_94; Q92769 HDAC2 87_95
1806	RLLKKQFFH	Q99442 SEC62 84_92
1807	NHNDWIKQY	P21283 VATC1 193_201
1808	THTRHYELY	Q14141 SEPT6 290_298; Q9NVA2 SEP11 289_297; Q9P0V9 SEP10 314_322
1809	YEHFYEVAY	O43847 NRDC 514_522
1810	KYLENYYDL	P08254 MMP3 36_44
1811	KFIWTNHKF	Q9UI09 NDUAC 107_115
1812	VYNSEYYHF	Q13308 PTK7 955_963
1813	EYMKHTRLF	Q13045 FLII 1159_1167
1814	QIYTYFVYK	Q9UGP8 SEC63 229_237
1815	LYQEIIHYF	Q14185 DOCK1 1276_1284
1816	KLHFIFRHK	O14967 CLGN 190_198; P27824 CALX 199_207
1817	PQYQTWEEF	P49458 SRP09 2_10
1818	YHHSFPYDY	O00767 ACOD 300_308
1819	HHPEWFNVY	P61457 PHS 62_70; Q9H0N5 PHS2 89_97
1820	VVYWLYMKK	Q13740 CD166 545_553
1821	RLFEHPLYR	Q8IXL6 DMP4 163_171
1822	NHKKWKVKY	P11388 TOP2A 604_612
1823	KYFEKQFEL	Q6P1N9 TATD1 130_138
1824	KIMEYYEKK	P36543 VATE1 52_60; Q96A05 VATE2 52_60
1825	KYIKDDFRF	O14730 RIOK3 304_312
1826	KLYPWIHQF	Q8N4J0 CI041 252_260
1827	VYQDTWMKY	Q96RQ1 ERGI2 54_62
1828	KMYEEHLKR	P84090 ERH 34_42
1829	PYNHQHEYF	O95864 FADS2 258_266
1830	RIFQKFLQR	Q12965 MYO1E 627_635
1831	HRYPNQVYY	P04156 PRIO 155_163
1832	THEKDKRYY	Q9H582 ZN644 517_525
1833	RILHTYYKF	B5ME19 EIFCL 507_515; Q99613 EIF3C 506_514
1834	TYQRWQFTL	Q6P2Q9 PRP8 224_232
1835	NYLNHWNHF	Q9H479 FN3K 284_292
1836	NHFFFKKDY	Q6PD62 CTR9 277_285
1837	EYVEKFYRI	Q92878 RAD50 1281_1289
1838	YHRKENLEY	Q9BT17 MTG1 136_144
1839	FRYPQDYQF	P43307 SSRA 124_132
1840	KYWDTFYKI	Q9H825 MELT8 87_95
1841	YYQNYFEKL	Q86TB9 PATL1 432_440
1842	YHWQDLEQY	Q9BV10 ALG12 47_55
1843	KYFDEHYEY	P33552 CKS2 11_19
1844	EMEEKYYRF	Q12873 CHD3 616_624
1845	HHWNEIYYF	Q9H6X2 ANTR1 57_65
1846	GAVITGAVVA	P01891 1A68 319_328; P01892 1A02 319_328; P04439 1A03 319_328; P05534 1A24 319_328; P10316 1A69 319_328; P13746 1A11 319_328; P16188 1A30

1847	ALVGGGSSPK	319_328; P30443 1A01 319_328; P30447 1A23 319_328; P30455 1A36 319_328  Q9Y484 WIPI4 64_73
1848	VVLGSGGVGK	P10114 RAP2A 7_16; P61224 RAP1B 7_16; P61225 RAP2B 7_16; P62834 RAP1A 7_16; Q9Y3L5 RAP2C 7_16
1849	AMSGSTAVALAK	O14983 AT2A1 719_728; P16615 AT2A2 718_727; Q93084 AT2A3 719_728
1850	VLSGPSGTGK	Q8NEY1 NAV1 1555_1564
1851	ISAGAVLGKV	P18577 RHECE 125_134
1852	ALHGPGVGK	Q9NXH8 TOR4A 191_200
1853	GMAGSAMSSK	P41221 WNT5A 15_24
1854	ATAAKPVAAK	P12111 CO6A3 2939_2948
1855	AAAACKPVATK	P12111 CO6A3 2957_2966
1856	ASALPTGSPK	Q8TES7 FBF1 504_513
1857	GSRAGPLSGK	P17844 DDX5 23_32
1858	SGPYGGGGQY	P09651 ROA1 338_347; Q32P51 RA1L2 286_295
1859	ATALPTGTSK	Q8IUQ4 SIAH1 6_15
1860	ATATSSPPPK	Q96QD9 UIF 11_20
1861	ADGAEAKPAE	P35579 MYH9 1951_1960
1862	KVSPASGVSK	Q9UNY4 TTF2 394_403
1863	AVAPGHPLAK	Q9Y5Y0 FLVC1 11_20
1864	GVLGTVVHGK	Q9Y6C9 MTCH2 81_90
1865	AVAVDVAVPK	Q6PII5 HAGHL 25_34
1866	AIAQPATTAK	Q96Q83 ALKB3 22_31
1867	SIGSPVKVKG	Q96JJ7 TMX3 72_81
1868	GIYPPGSPGK	O95295 SNAPN 127_136
1869	SISGPISTSK	Q69YQ0 CYTSA 887_896
1870	GTIGHVAHGK	P41091 IF2G 45_54; Q2VIR3 IF2GL 45_54
1871	KVAPAPAVVK	P62424 RL7A 11_20
1872	AVGLVLPAKL	O75911 DHRS3 24_33
1873	RGGSPLNTGK	P12111 CO6A3 1509_1518
1874	KVPSQSGVGK	Q9NPB9 ACKR4 143_152
1875	SIRQAGGIGK	A8K0Z3 WASH1 368_377; A8MWX3 WASH4 381_390; C4AMC7 WASH3 366_375; Q6VEQ5 WASH2 368_377; Q9NQA3 WASH6 350_359
1876	ATGDMSGLLK	Q13685 AAMP 150_159
1877	GHNPTGLLAL	Q9UEY8 ADDG 82_91
1878	GHFAGSSVSF	Q7Z408 CSMD2 1227_1236
1879	GLNSPVLIGK	Q4L235 ACSF4 721_730
1880	MQGPPLTAA	Q6YHK3 CD109 1_10
1881	VLIGEQGVGK	P55040 GEM 79_88
1882	KGNDIIAAAK	P18206 VINC 983_992
1883	GMANLLTGPK	Q99536 VAT1 286_295
1884	SLVGGLLQSK	P52948 NUP98 1043_1052
1885	LLYGPPGTGK	O43933 PEX1 878_887; P40937 RFC5 57_66; P55072 TERA 242_251; P62195 PRS8 187_196; P62333 PRS10 171_180; Q5T2N8 ATD3C 174_183; Q5T9A4 ATD3B 349_358; Q8IYT4 KATL2 291_300; Q8NB90 SPAT5 391_400
1886	GTASRPSSSR	P08670 VIME 19_28
1887	STVGSAILRK	O43399 TPD54 145_154
1888	AVSPSLDLSK	P21333 FLNA 964_973
1889	ALQSITAGQK	O75164 KDM4A 895_904

1890	AVASSVVKQK	Q8WUI4 HDAC7 79_88
1891	ATNTSAPDLK	P27816 MAP4 924_933
1892	GISNPITTSK	Q9NUC0 SRTD4 64_73
1893	LMYGPPGTGK	P17980 PRS6A 224_233; Q9NVI7 ATD3A 397_406
1894	AMKTDGATVK	P36956 SRBP1 254_263
1895	KIIEGGAAHK	P78352 DLG4 193_202; Q12959 DLG1 352_361
1896	KLQANGPVAK	Q14978 NOLC1 67_76
1897	KLGSPVPVTVK	Q9Y4C2 F115A 623_632
1898	SFKDGAGNSF	P11717 MPRI 1370_1379
1899	GHSPAVTITF	P11717 MPRI 277_286
1900	SMNIPALVGK	O15270 SPTC2 243_252; Q9NUV7 SPTC3 235_244
1901	HSYLGGGGRK	O60356 NUPR1 34_43
1902	RLAGSALTDK	Q9NZN5 ARHGC 1530_1539
1903	ALLSDISKGK	O43516 WIPF1 35_44
1904	ATTSVITIVK	O60675 MAFK 132_141
1905	GTSSVIVSRK	Q9UKB1 FBW1B 53_62
1906	RVIFTGGVGK	Q9Y6K0 CEPT1 267_276
1907	GTKGPSNVFK	P42285 SK2L2 367_376
1908	LIYVAGGLTK	Q6TFL4 KLH24 503_512
1909	KVGEFSGANK	P10599 THIO 85_94
1910	GTQPGPLLKK	Q86UX2 ITIH5 656_665
1911	GTHIPGSPFK	P21333 FLNA 2408_2417
1912	EFLPSSGGTF	O94979 SC31A 552_561
1913	L LAEKVLAGK	P63092 GNAS2 296_305; Q5JWF2 GNAS1 939_948
1914	GMYDSSLAAK	O15254 ACOX3 111_120
1915	SVSPVKATQK	Q86XJ1 GA2L3 568_577
1916	SVNPSVTTIK	Q8TBA6 GOGA5 160_169
1917	APREPGAVSY	Q92542 NICA 700_709
1918	AVFPFIGL GK	Q9H3U5 MFSD1 279_288
1919	GSYSSHISSK	O60315 ZEB2 323_332; P37275 ZEB1 281_290
1920	KLALLKAPAK	Q9UNZ5 L10K 76_85
1921	QHLQATGVSL	Q13618 CUL3 489_498
1922	VVNKVPLTGK	Q8WUH6 TM263 101_110
1923	VTNPDIAAKK	O75691 UTP20 2736_2745
1924	AVNPKEIASK	Q9NTJ3 SMC4 1276_1285
1925	GLSLLPLSEK	Q15149 PLEC 3343_3352
1926	KVSKAAILAR	O00767 ACOD 338_347
1927	RLIPDGCGVK	P27635 RL10 189_198
1928	GIFPGTPLKK	Q86XN7 PRSR1 157_166
1929	ALNENLGTVK	Q15075 EEA1 1245_1254
1930	HTASPTGMMK	O94855 SC24D 34_43
1931	VIGLQMGTNK	Q15417 CNN3 163_172; Q99439 CNN2 165_174
1932	SLASKAQQTQK	P55060 XPO2 436_445
1933	GTLSGWILSK	P27824 CALX 78_87
1934	SMPDNTAAQK	P35579 MYH9 364_373; P35749 MYH11 371_380
1935	MSEAPGPINF	P24844 MYL9 74_83
1936	KTTGQVVAMK	P06493 CDK1 24_33

1937	ATLPKNPPPK	Q9UGU0 TCF20 1731_1740
1938	EYIDIGALNG	P53396 ACLY 1050_1059
1939	LLYGEKGKGTGK	P51398 RT29 125_134
1940	RLLPPVGTGR	Q9NWZ5 UCKL1 46_55
1941	VVKPKKAAPK	P16403 H12 202_211
1942	SHYGQSGISM	P42226 STAT6 827_836
1943	QLAEAHQAQAK	Q15149 PLEC 1511_1520
1944	KSLGHGLINK	Q8NI36 WDR36 416_425
1945	YHATSGLVGY	O14569 C56D2 158_167
1946	FHPLGADSQV	P11166 GTR1 483_492
1947	KLANPSIVTK	O60673 DPOLZ 1180_1189
1948	IGNLNLTVVK	O60812 HNRLCL 20_29; P07910 HNRPC 20_29
1949	YEAPSLATGY	P28070 PSB4 177_186
1950	QVNSKAPLSK	P49750 YLPM1 502_511
1951	KQSPISTSK	P33981 TTK 434_443
1952	KLGLKSLVSK	P10412 H14 81_90; P16401 H15 84_93; P16402 H13 82_91; P16403 H12 81_90
1953	RTKAVGTITK	O00178 GTPB1 563_572
1954	KMAEVIGSKL	Q9NU22 MDN1 592_601
1955	RLGETSASKK	P30559 OXYR 356_365
1956	KTIDASVSKK	Q6VMQ6 MCAF1 938_947
1957	TTKPVTTTTK	P12111 CO6A3 2879_2888
1958	RHYVGSAAAF	Q13227 GPS2 162_171
1959	VTFNSALAQQK	Q9Y287 ITM2B 4_13
1960	KMDAKTTVGK	Q5T0N5 FBP1L 308_317
1961	KVNTGLMTSK	Q8N3C7 CLIP4 385_394
1962	KMGGIKGLFK	P61011 SRP54 433_442
1963	VLLKARLVPA	Q6P995 F171B 19_28
1964	TMGHHTVGLK	Q09666 AHNK 76_85
1965	KVNIVPVIAK	Q15019 SEPT2 174_183
1966	HRYGDGGSSF	P55795 HNRH2 274_283
1967	KSQDPPALAR	O15231 ZN185 230_239
1968	KLGPALTRKV	O94885 SASH1 1076_1085
1969	HHHPLPAAGF	Q7L2J0 MEPCE 397_406
1970	AISPKPQSQK	A8MW92 P20L1 311_320
1971	GTDSHLVVKK	Q96P48 ARAP1 1249_1258
1972	KQRPAVGAEK	A9YTQ3 AHRR 24_33
1973	VLFAGQHIAK	P21333 FLNA 358_367
1974	KQLGQPVVSK	Q15746 MYLK 129_138
1975	ALADIILINK	A6NM15 CBWD7 47_56; Q4V339 CBWD6 195_204; Q5JTY5 CBWD3 195_204; Q5RIA9 CBWD5 195_204
1976	RVLNKLGGVK	O00244 ATOX1 21_30
1977	ATTHEIMGPK	Q13492 PICAL 29_38
1978	KLGGVIKEKL	Q9Y2X3 NOP58 93_102
1979	THVIPVAEGY	P61158 ARP3 175_184; Q9C0K3 ARP3C 46_55; Q9P1U1 ARP3B 175_184
1980	RTKKVGIVVK	P61513 RL37A 4_13
1981	ILDSKPTANK	Q9ULV4 COR1C 409_418
1982	SLIGKKGQQK	P0C0S5 H2AZ 117_126; Q71UI9 H2AV 117_126

1983	KAASKTLLEK	Q9BWS9 CHID1 28_37
1984	MNEAPGPINF	O14950 ML12B 74_83; P19105 ML12A 73_82
1985	GLETEKADVQ	P51636 CAV2 2_11
1986	SLASLDSLRK	O60716 CTND1 346_355
1987	VYIGDAHTNT	P19021 AMD 793_802
1988	AVAFKPTSNR	Q12929 EPS8 510_519
1989	GTLTKNLSEK	Q8TEU7 RPGF6 1139_1148
1990	KVFDAKPSAK	Q8WVV9 HNRLL 486_495
1991	ALYGVVNWK	O94952 FBX21 374_383
1992	SIFDGRVVAK	Q9UM00 TMCO1 107_116
1993	DEEATGTIQE	O14950 ML12B 111_120; P19105 ML12A 110_119
1994	SHRSPSSTSF	Q5VU43 MYOME 1603_1612
1995	VLSSFVLAEK	P49327 FAS 2105_2114
1996	HTISPLDLAK	Q15365 PCBP1 228_237
1997	KVNIIPVIAK	Q9P0V9 SEP10 200_209
1998	HYSYPDASTAF	P00156 CYB 54_63
1999	SHFGTGVVEY	Q9NXR7 BRE 280_289
2000	RVAPAEPLSR	Q9Y4B5 MTCL1 134_143
2001	ALKNPPINTK	O15511 ARPC5 58_67
2002	QESGFSHSAF	O60907 TBL1X 68_77; Q9BQ87 TBL1Y 17_26; Q9BZK7 TBL1R 17_26
2003	HRYGDGGSTF	P31943 HNRH1 274_283
2004	VHAPPQLGF	O95235 KI20A 508_517
2005	GLPSSQSHRK	Q7Z3E5 ARMC9 808_817
2006	SLPLVDTHSK	P08670 VIME 430_439
2007	LYADVGKGQF	P51571 SSRD 66_75
2008	KVPDQKGTPK	Q8N8I0 SAM12 45_54
2009	ATYHGSFSTK	P12111 CO6A3 3068_3077
2010	AHHGDTKVAY	P53602 MVD1 293_302
2011	AMHDIIAAEK	P78527 PRKDC 1302_1311
2012	FIEGADAETF	P07814 SYEP 551_560
2013	VVKPGNTKEK	Q9NWN3 FBX34 110_119
2014	KGQDNLIKAI	Q11203 SIAT6 130_139
2015	LINLLSVART	Q8NGX6 O10R2 102_111
2016	RVKLPSGSKK	P62917 RL8 147_156
2017	KMPTTPVKAK	Q8WUA7 TB22A 47_56
2018	KVFGGTVHKK	P49915 GUAA 112_121
2019	ALLPAGFRQK	Q9NYL9 TMOD3 44_53
2020	KLKEGGLIDK	Q92830 KAT2A 828_837
2021	HVSSKPSTMK	O95573 ACSL3 4_13
2022	MTSALPIIQK	Q99541 PLIN2 62_71
2023	AMPSSTPLYH	O00512 BCL9 1017_1026; Q86UU0 BCL9L 1095_1104
2024	SIYPHGSTDK	Q99436 PSB7 155_164
2025	SRPEAAQQAF	Q15011 HERP1 143_152
2026	IVNPNAAYDK	Q13561 DCTN2 47_56
2027	ATAQVNPLYK	O75159 SOCS5 289_298
2028	AVASFVKKQE	P14406 CX7A2 74_83
2029	GLPPYSPVFK	Q9NZJ7 MTCH1 345_354

2030	ALADFLPVMK	Q9ULK4 MED23 388_397
2031	RTGPPMGSRF	Q15056 IF4H 175_184
2032	YFIAPTGHSL	Q14141 SEPT6 153_162; Q9NVA2 SEP11 152_161
2033	GVVPFIFQAK	P12111 CO6A3 967_976
2034	ISLKQAPLVH	P09496 CLCA 239_248
2035	GTIGKKFARK	Q99547 MPH6 123_132
2036	VVAGFQWATK	P13639 EF2 679_688
2037	GTYVKPLSNK	Q15067 ACOX1 263_272
2038	MTNSKQSIAK	P18206 VINC 377_386
2039	KVNIPIIAK	Q14141 SEPT6 176_185; Q92599 SEPT8 178_187; Q9NVA2 SEP11 175_184
2040	SHYSSPGYVL	Q92636 FAN 390_399
2041	RLLLPGELAK	O60814 H2B1K 100_109; P06899 H2B1J 100_109; P23527 H2B1O 100_109; P33778 H2B1B 100_109; P57053 H2BFS 100_109; P58876 H2B1D 100_109; P62807 H2B1C 100_109; Q16778 H2B2E 100_109; Q5QNW6 H2B2F 100_109; Q8N257 H2B3B 100_109; Q93079 H2B1H 100_109; Q96A08 H2B1A 101_110; Q99877 H2B1N 100_109; Q99879 H2B1M 100_109; Q99880 H2B1L 100_109
2042	LSDDDTESKT	P35580 MYH10 1955_1964
2043	QVYGNMGITK	Q96AY4 TTC28 835_844
2044	KVASLTLHNK	Q9P0K7 RAI14 355_364
2045	RVINSIPLAK	Q86XR8 CEP57 325_334
2046	ATGSWDSFLK	P16520 GBB3 328_337; P62873 GBB1 328_337; P62879 GBB2 328_337
2047	TTKKPPLAQK	O75146 HIP1R 1034_1043
2048	RLYGPSSVSF	P50454 SERPH 133_142
2049	GTVAHKIMQK	Q96I25 SPF45 236_245
2050	FRTGNPTGTY	P17844 DDX5 558_567
2051	KLPssePLSR	Q14714 SSPN 165_174
2052	VVIQDPMGQK	P21333 FLNA 418_427
2053	THAPGNVEKY	Q05707 COEA1 374_383
2054	VVLGQFLVLK	O75531 BAF 44_53
2055	LQNVDMKIGV	P16070 CD44 733_742
2056	KIIENNTASK	Q8IY21 DDX60 943_952
2057	GVVDIPFRSK	Q9NVH0 EXD2 286_295
2058	KIIAFVLEGK	O43493 TGON2 408_417
2059	ITFDVAPSRL	P69849 NOMO3 300_309; Q15155 NOMO1 300_309; Q5JPE7 NOMO2 300_309
2060	GHFQPTQTGF	Q13227 GPS2 234_243
2061	GSWSQVLSQK	Q9UET6 TRM7 53_62
2062	SLFAKNPKSK	Q12874 SF3A3 299_308
2063	AILGYKVVEK	Q5KU26 COL12 55_64
2064	KLPPLPVVEK	Q9NUL3 STAU2 274_283
2065	GVYGDVQRVK	P26599 PTBP1 359_368; Q9UKA9 PTBP2 360_369
2066	ILYVGSMPLK	Q9Y3B2 EXOS1 87_96
2067	YFISPTGHSL	Q6ZU15 SEP14 163_172; Q9P0V9 SEP10 177_186; Q9UH03 SEPT3 176_185
2068	TYMGHTGAVW	Q13347 EIF3I 47_56
2069	RLDTGNNSMTK	Q9BYV8 CEP41 29_38
2070	TVQQHPSTPK	O94916 NFAT5 128_137
2071	VTYNGVDNNK	Q16181 SEPT7 317_326
2072	KLKEPLPNGK	Q9UGL1 KDM5B 1107_1116

2073	AFIRVVGSEF	P43686 PRS6B 226_235
2074	SVLPYFVATK	Q53GQ0 DHB12 229_238
2075	GHFASQFLGY	P51784 UBP11 387_396
2076	MHIPGSPLQF	P21333 FLNA 1849_1858
2077	GSYNKVFLAK	P48556 PSMD8 239_248
2078	KVDGRVVEPK	P09651 ROA1 78_87; P51991 ROA3 99_108; Q32P51 RA1L2 78_87
2079	HHHPGHVGSY	Q15915 ZIC1 80_89
2080	NHQDPLAVAY	Q13131 AAPK1 326_335
2081	ITPCKPIDIK	O15228 GNPAT 63_72
2082	VNETQPPQSE	P35580 MYH10 1967_1976
2083	GHFPGINSHY	Q9NP80 PLPL8 584_593
2084	RLSPSPTSQR	P02545 LMNA 388_397
2085	EAFVRHILSG	P60660 MYL6 142_151
2086	GHAEVVRVVY	Q9UJ68 MSRA 114_123
2087	KVCNPIITKL	P11142 HSP7C 601_610
2088	AIQNPTMINK	Q02086 SP2 113_122
2089	VVQEPMQVFK	Q96QU8 XPO6 899_908
2090	KTPTSPLKMK	O60264 SMCA5 112_121
2091	KLIDIVSSQK	O14757 CHK1 461_470
2092	ATVKVPFLKK	Q9UIL8 PHF11 214_223
2093	VLIAYLVGRK	P11279 LAMP1 399_408
2094	HTYLANGQTK	Q9H3M7 TXNIP 219_228
2095	THTETGKVLF	P51531 SMCA2 598_607
2096	KVFDGIPPPY	P40429 RL13A 103_112; Q6NVV1 R13P3 17_26
2097	RIYNGIGVSR	Q96PD2 DCBD2 132_141
2098	KTKELIGSMK	Q9Y5J1 UTP18 371_380
2099	QIFVKTLTGK	P0CG47 UBB 2_11; P0CG48 UBC 2_11; P62979 RS27A 2_11; P62987 RL40 2_11
2100	SHITPSTQQH	P55061 BI1 17_26
2101	YFITPTGHSL	Q92599 SEPT8 155_164
2102	TGYGMPRQIL	P37802 TAGL2 190_199
2103	KLHTVQPKGK	A2A3N6 PIPSL 559_568; P55036 PSMD4 74_83
2104	KLRDVGAYSK	Q15149 PLEC 4561_4570
2105	KIIPPTPRSK	Q14703 MBTP1 612_621
2106	GHFNVTNTTF	Q03111 ENL 526_535
2107	FTFDNVLPKG	P69849 NOMO3 545_554; Q15155 NOMO1 545_554; Q5JPE7 NOMO2 545_554
2108	QYATGPLLK	P62341 SELT 34_43
2109	ELSDDDTESK	P35580 MYH10 1954_1963
2110	KYQDAPAAQF	Q14145 KEAP1 84_93
2111	KTFEGNLTTK	Q6P2Q9 PRP8 1792_1801
2112	KFLDPITGTF	P40818 UBP8 657_666
2113	KLFNGTFLKA	P86790 CCZ1B 146_155; P86791 CCZ1 146_155
2114	KIWADIPAPK	P49419 AL7A1 100_109
2115	RIGFGSFVEK	P05556 ITB1 181_190
2116	GHIELPLTVY	O95602 RPA1 79_88
2117	SILRNPVTNK	P09661 RU2A 119_128
2118	ALVFPPPLTQR	O43292 GPAA1 38_47
2119	RVAPSLKSQR	P49257 LMAN1 81_90

2120	RLVQGSILKK	P12004 PCNA 5_14
2121	THIAIPQEAY	Q2TAL8 QRIC1 328_337
2122	SHRVPVDVAY	P58107 EPIPL 735_744; Q15149 PLEC 2958_2967
2123	GQFSGFPFEK	P35659 DEK 128_137
2124	HVYVGNISSKK	Q9Y2F5 K0947 1936_1945
2125	ILFDGIPLEK	P22033 MUTA 172_181
2126	RLPKGAVLYK	Q9P0M9 RM27 119_128
2127	SHNPNTTNNF	Q9H9A7 RMI1 353_362
2128	RLAELSKSNK	Q3ZCQ8 TIM50 325_334
2129	SAYYPSSFPK	Q4V9L6 TM119 125_134
2130	KYLTAEAFGF	Q16658 FSCN1 22_31
2131	GMNDKIVIEK	Q96CW1 AP2M1 215_224
2132	THMPDANSEF	Q7L804 RFIP2 191_200
2133	KSYDQVHSGK	Q15067 ACOX1 437_446
2134	ATNKITIIFK	Q6NW40 RGMB 212_221
2135	KYIDQGIAEL	Q9Y265 RUVB1 285_294
2136	KLPKQPVIVK	P46776 RL27A 116_125
2137	PYNPILGETF	Q9BZF1 OSBL8 483_492; Q9H0X9 OSBL5 447_456
2138	KINPTSSLYK	O75665 OFD1 116_125
2139	VFIKAPESLF	Q12965 MYO1E 676_685
2140	KLKEPQPVSK	Q9HCE3 ZN532 1227_1236
2141	HYIDAGYLGF	Q8WUA4 TF3C2 687_696
2142	TYHGSFSTKK	P12111 CO6A3 3069_3078
2143	KVVEGSFVYK	P31150 GDIA 103_112
2144	RGDLPFVVPR	P35579 MYH9 1923_1932
2145	RLEAGLNRVK	P63218 GBG5 18_27
2146	KVLDAAIQEK	Q9NTJ3 SMC4 598_607
2147	KVTEGSFVYK	P50395 GDIB 103_112
2148	ATWMGKIHSK	P12955 PEPD 105_114
2149	SLPTVIMRNK	Q12802 AKP13 1857_1866
2150	AIYDHINEGK	Q9UDW1 QCR9 42_51
2151	KTYVGHPVKM	Q14517 FAT1 50_59
2152	TIKDRNGKEV	O75534 CSDE1 232_241
2153	ILKDGKMQVK	O15439 MRP4 605_614
2154	AMKTKEPVKK	Q14103 HNRPD 174_183
2155	KVLNTSLKEK	Q16666 IF16 243_252
2156	NHVGDWGTQF	P54136 SYRC 236_245
2157	NHIGSLNWGY	Q16881 TRXR1 257_266
2158	PWTNVGKLVF	Q96NE9 FRMD6 273_282
2159	ALAEKMLKEK	Q15149 PLEC 2443_2452
2160	ATYYGAFIKK	O95819 M4K4 83_92; Q8N4C8 MINK1 83_92; Q9UKE5 TNK 83_92
2161	AVFPKPFVEK	Q6PFW1 VIP1 189_198
2162	RSMPEQTGEK	P62888 RL30 106_115
2163	AHLVAVFNEY	P50995 ANX11 389_398
2164	KLFPDKGTEK	Q5VZ89 DEN4C 415_424
2165	ALDTKIGRYK	O60264 SMCA5 920_929
2166	KVPSHLLRSK	P78563 RED1 682_691

2167	KLLGHLVKEK	P14868 SYDC 374_383
2168	QHYGQQGQGY	Q7Z5J4 RAI1 312_321
2169	TYNSSGAYRF	Q9HD67 MYO10 1127_1136
2170	ATNKFITKDK	P31271 HXA13 342_351
2171	KVKPPHGFQK	Q96JM7 LMBL3 468_477
2172	SVFQQGMKNK	P05023 AT1A1 943_952; P13637 AT1A3 933_942; P50993 AT1A2 940_949
2173	STYISILNQK	Q8TDJ6 DMXL2 1766_1775
2174	KLFEDGEMAK	P23743 DGKA 32_41
2175	NHRLPPVTSF	Q9Y2X9 ZN281 54_63
2176	RIHPVSTMVK	P07195 LDHB 270_279
2177	EHFDASLSTY	Q9NYP7 ELOV5 2_11
2178	KMPKFSMPGF	Q09666 AHNK 881_890
2179	SHRLPVVEVAY	Q15149 PLEC 4195_4204
2180	SHRLPVDIAY	P15924 DESP 2383_2392
2181	RLLAMAVIRK	Q96EK4 THA11 301_310
2182	TYSPALNKMF	P04637 P53 125_134
2183	KLLDDPSKQK	Q6STE5 SMRD3 189_198; Q92925 SMRD2 237_246
2184	TTMGDRFTDE	O14950 ML12B 128_137; P19105 ML12A 127_136; P24844 MYL9 128_137
2185	SLGHFENLQK	Q9ULV3 CIZ1 821_830
2186	IQFNPPLEK	Q8NB78 KDM1B 637_646
2187	RLAEPSQMLK	P35222 CTNB1 124_133
2188	KMALPMPTKR	Q9P265 DIP2B 118_127
2189	ALNKEIMILK	Q5VT25 MRCKA 731_740
2190	ALYDATYETK	P23528 COF1 83_92; Q9Y281 COF2 83_92
2191	KTQDQISNIK	Q14847 LASP1 112_121
2192	KIDEKTAELK	Q9BZD4 NUF2 447_456
2193	KLEDGPFLK	P68104 EF1A1 386_395; Q5VTE0 EF1A3 386_395
2194	HYMPPPYASL	Q6ZNA4 RN111 644_653
2195	RMVDMMPANNK	Q96S19 CP013 188_197
2196	GHSTYPSHQY	P30043 BLVRB 196_205
2197	KINPNTAYQK	Q5MIZ7 P4R3B 55_64; Q6IN85 P4R3A 55_64
2198	KQSKPLFSNK	O75159 SOCS5 196_205
2199	KLAYTLLNKL	Q14689 DIP2A 376_385; Q9P265 DIP2B 380_389
2200	HLINAFHTPK	Q96TA2 YMEL1 18_27
2201	RYILLTSAQL	O15056 SYNJ2 620_629
2202	GVLKKVIRHK	P24821 TENA 23_32
2203	TFTPAIKESW	O15013 ARHGA 834_843
2204	YHIDVGTQTF	Q8TB52 FBX30 452_461
2205	VFEDPVISKF	Q9Y2R9 RT07 85_94
2206	KAFNQGKIFK	P26641 EF1G 428_437
2207	KIPKFTFSGR	Q09666 AHNK 5662_5671
2208	YFITVVPTKL	Q96RQ1 ERGI2 249_258
2209	GSYDPQQIFK	Q6Q0C0 TRAF7 378_387
2210	VIYNEQMASK	Q9H8H3 METH7A 45_54
2211	KYLSVQGQLF	Q9NZJ7 MTCH1 361_370
2212	HHYSGNNIEL	P62888 RL30 72_81
2213	NYKDLNGNVF	P43307 SSRA 176_185

2214	AELRHVMTNL	P62158 CALM 104_113
2215	AQYQFTGIKK	Q96IX5 USMG5 8_17
2216	RYLPTGSFPF	Q13454 TUSC3 18_27
2217	KYLNKPSGNMNF	Q86X55 CARM1 277_286
2218	ATLSQFYINK	Q96EK5 KBP 254_263
2219	KVAENVIRQK	Q6ZSC3 RBM43 71_80
2220	KISNLKKILK	Q86VS8 HOOK3 72_81
2221	RIMDPEIALK	Q9H0L4 CSTFT 180_189
2222	KVYHLASVRL	P28749 RBL1 794_803
2223	RIIEETLALK	O15144 ARPC2 9_18
2224	FHYNGTDVSF	Q5U5Q3 MEX3C 407_416
2225	YIYDGELVSK	Q9Y2D2 S35A3 224_233
2226	PYYNGPHLNL	Q8WWI1 LMO7 184_193
2227	KTRTGELINR	Q9NRK6 ABCBA 265_274
2228	KIRQDSVTKL	Q00613 HSF1 131_140
2229	ALFKNLLLKK	P42226 STAT6 358_367
2230	RVYDPASPQR	Q6RFH5 WDR74 208_217
2231	KSLEETIIQK	Q92538 GBF1 944_953
2232	KLLNYAPLEK	P62875 RPAB5 58_67
2233	RLVESTSLRK	P40692 MLH1 265_274
2234	KLYTKHGTLK	P69849 NOMO3 57_66; Q15155 NOMO1 57_66; Q5JPE7 NOMO2 57_66
2235	EHKSPDGRTY	O75400 PR40A 148_157
2236	IYVPEAQTRL	Q9Y2H0 DLGP4 983_992
2237	VLNKVPVKHR	Q9P2N5 RBM27 742_751
2238	RYILDGSGYF	Q9BV57 MTND 96_105
2239	RTYSSGHNRL	Q15022 SUZ12 555_564
2240	KVYTKSSHLK	O75840 KLF7 228_237; O95600 KLF8 283_292; P57682 KLF3 269_278; Q13887 KLF5 382_391; Q99612 KLF6 209_218; Q9Y4X4 KLF12 326_335
2241	THVEKQLSSY	Q96A37 RN166 85_94
2242	KLFDAHAVSKF	O60488 ACSL4 81_90
2243	RLLGEGYKKK	P09619 PGFRB 960_969
2244	YMYMGKNTGK	Q8N4Q0 ZADH2 355_364
2245	HIDGHPRPTY	Q13308 PTK7 151_160
2246	RLPQHTPTSR	Q96S06 LMF1 195_204
2247	RMKDPTFLGK	Q5VWN6 F208B 229_238
2248	THYPAQQGEY	O95817 BAG3 231_240
2249	RLPLISGFYK	P78527 PRKDC 659_668
2250	HSLDDFYIGK	O94955 RHBTD3 176_185
2251	KSNKYLTVNK	Q14571 ITPR2 127_136; Q14573 ITPR3 128_137; Q14643 ITPR1 127_136
2252	KSFDTSLIRK	O75787 REN1 267_276
2253	GYVPTENLRF	P61221 ABCE1 315_324
2254	ALPSRILLWK	Q9BRK3 MXRA8 2_11
2255	FVLKHKAQK	Q9UNL2 SSRG 82_91
2256	SHYDSEKGEF	Q09028 RBBP4 96_105
2257	YHNNSPAYLAY	Q969G3 SMCE1 133_142
2258	NHLPDNINVY	Q99538 LGMD 196_205
2259	FSDYPPPLGRF	P68104 EF1A1 415_424; Q5VTE0 EF1A3 415_424

2260	RILGKPVMER	Q14353 GAMT 35_44
2261	KVPPFTHVVK	Q6NZI2 PTRF 317_326
2262	KAKEPPFVRK	Q9UPT8 ZC3H4 1184_1193
2263	IFIDPGYQTF	Q9UBW7 ZMYM2 1162_1171
2264	KIFSDKDGYK	Q12884 SEPR 366_375
2265	AVYTKMMTKK	P11413 G6PD 399_408
2266	RHSEPSKLTF	Q9UKM7 MA1B1 500_509
2267	NHKDPESTQF	Q5HYW2 NHSL2 259_268
2268	RTYDGDGYKK	O95989 NUDT3 10_19
2269	HIDPATHRQK	P49327 FAS 1056_1065
2270	RVLDPDKFLK	O43432 IF4G3 1045_1054
2271	VINDVRDIFL	P52655 TF2AA 21_30
2272	KIFNVAIPRF	Q9UK99 FBX3 390_399
2273	GIYPHEPKHK	O00541 PESC 42_51
2274	RTKYTITPVK	Q5T653 RM02 69_78
2275	LHHIPDVITY	P37268 FDFT 267_276
2276	ILFPHQPLSR	Q8TBZ3 WDR20 387_396
2277	IALWPPVREK	Q9Y4C2 F115A 800_809
2278	KLFDFVNACK	Q08945 SSRP1 413_422
2279	HYIFVTGVKF	O15438 MRP3 372_381
2280	PYIPMVHLQL	Q92973 TNPO1 753_762
2281	RLAQVKLLNR	Q8N766 EMC1 981_990
2282	SYVQRVALEF	Q969R8 ITFG2 5_14
2283	KYLTEGLLQF	Q14494 NF2L1 6_15
2284	KQQTIPLKKK	Q96CS2 HAUS1 228_237
2285	SVRPKPFLNR	Q5TCZ1 SPD2A 755_764
2286	KVKMTTHLKK	P63165 SUMO1 37_46
2287	RYFDPANGKF	P13639 EF2 264_273
2288	KMAEEKLTHK	P16949 STMN1 95_104
2289	IYISTLKTEF	O95433 AHSA1 150_159
2290	LHHDDDVITY	Q12797 ASPH 248_257
2291	KMYDAAKLLY	Q00610 CLH1 1209_1218
2292	ATLKWIENK	P78347 GTF2I 168_177; Q6EKJ0 GTD2B 163_172; Q86UP8 GTD2A 163_172
2293	RLAEWKATKL	Q9H2J4 PDCL3 78_87
2294	RIYPYAAISY	Q93063 EXT2 417_426
2295	KTLDIELQEK	P21127 CD11B 11_20; Q9UQ88 CD11A 11_20
2296	KFMGVQMETF	P46940 IQGA1 1606_1615
2297	VFPKPLITRF	O14786 NRP1 394_403
2298	NHWNHFGSGY	Q9HA64 KT3K 287_296
2299	TYFNGDLKNF	Q8IWC1 MA7D3 804_813
2300	VWSDVTPLRF	P08253 MMP2 150_159
2301	KVWSDPFGRK	Q8N5G0 SMI20 159_168
2302	TYVSSFYHAF	O43707 ACTN4 259_268; P12814 ACTN1 240_249
2303	KLNPYAKTMR	P36578 RL4 327_336
2304	EHVDLGARYY	O60292 SI1L3 495_504
2305	SQYPNQPSRF	P10589 COT1 358_367
2306	AVYNSWKNNK	Q14562 DHX8 1047_1056

2307	VIVLVENFYK	Q96FQ6 S10AG 12_21
2308	RLKQQTIPLK	Q96CS2 HAUS1 226_235
2309	GTFQQMWISK	O94805 ACL6B 401_410; O96019 ACL6A 404_413
2310	KSNPTFYLQK	Q709F0 ACD11 53_62
2311	HTRTPPIIHR	Q9BYP7 WNK3 265_274; Q9H4A3 WNK1 339_348; Q9Y3S1 WNK2 313_322
2312	KTKDPIIREK	Q9P291 ARMX1 257_266
2313	KLKQDIARQK	Q9UPN3 MACF1 4157_4166
2314	RYPPKSGNYF	O60291 MGRN1 24_33
2315	KIKDKNEILK	Q9BZF9 UACA 899_908
2316	YHFTNSGQLY	Q9NXR7 BRE 331_340
2317	ATQQWILKNK	A6NGU7 CX028 45_54
2318	RVWDISGLRK	P53621 COPA 160_169
2319	KLPKMKLPQF	Q09666 AHNK 5402_5411
2320	RIKEVNETNK	Q9UPN9 TRI33 347_356
2321	VYNENLVHMI	O75934 SPF27 137_146
2322	GSHSMRYFFT	P01892 1A02 25_34; P04439 1A03 25_34; P10314 1A32 25_34; P30443 1A01 25_34; P30455 1A36 25_34; P30459 1A74 25_34; Q09160 1A80 25_34
2323	KMPKVVKMPKF	Q09666 AHNK 1381_1390
2324	RYMPQNPCII	Q09028 RBBP4 131_140
2325	FLDHVRTSFL	O00159 MYO1C 808_817
2326	HHLQQANIQF	Q14204 DYHC1 3534_3543
2327	IYYTGKYQSL	O75592 MYCB2 512_521
2328	RYPPDIRATF	O95248 MTMR5 1015_1024
2329	IYVPDIRNVF	Q8IZM9 S38A6 386_395
2330	KSFDDQKVKEK	O60902 SHOX2 10_19
2331	IYADNQVMHF	Q07864 DPOE1 1812_1821
2332	SQYPNQPTRF	P24468 COT2 351_360
2333	QHFPHPIQSF	O15067 PUR4 152_161
2334	QSFDEKEWVAK	P13073 COX41 131_140
2335	KMPKMKMPTF	Q09666 AHNK 627_636
2336	KQIEHTLNEK	P17612 KAPCA 84_93; P22694 KAPCB 84_93
2337	KYLQAKLTQF	Q9Y5A7 NUB1 5_14
2338	TVYRNPNESFK	Q9BW72 HIG2A 27_36
2339	RTYDPEGFKK	Q8NFP7 NUD10 9_18; Q96G61 NUD11 9_18
2340	HERLPQGLQY	Q9UQR1 ZN148 97_106
2341	KMYKPEVSMK	O60879 DIAP2 630_639
2342	RAYNGQFKEK	O60423 AT8B3 114_123
2343	SYLDQVKLQF	Q96ST3 SIN3A 128_137
2344	SHYSHYISTF	Q9H7D0 DOCK5 967_976
2345	KFLGVDMERF	Q86VI3 IQGA3 1580_1589
2346	RVQEENARLK	Q5JRA6 MIA3 1348_1357
2347	KLPDGYEFKF	P09382 LEG1 100_109
2348	KLKAWNDIHK	P36578 RL4 173_182
2349	RLNESTSYKF	Q9Y2H6 FND3A 1012_1021
2350	RYPQSIFSTF	Q86WG5 MTMRD 1004_1013
2351	HLYNSLTRNK	P49589 SYCC 30_39
2352	IQ RTPKIQVY	P61769 B2MG 21_30

2353	RMHTGEKPYK	A6NNF4 ZN726 473_482; O75437 ZN254 342_351; P17030 ZNF25 278_287; Q05481 ZNF91 930_939; Q2M3X9 ZN674 461_470; Q3KP31 ZN791 516_525; Q3MIS6 ZN528 233_242; Q6ZN19 ZN841 473_482; Q86XU0 ZN677 339_348; Q8N972 ZN709 216_225; Q9HCG1 ZN160 809_818; Q9P2J8 ZN624 548_557
2354	QHFNPVLETY	Q14185 DOCK1 692_701; Q9H7D0 DOCK5 710_719
2355	HVYSFPNKQK	P49023 PAXI 116_125
2356	RHYPLNTVTF	Q9HBL0 TENS1 1659_1668
2357	KMPKIKMPKF	Q09666 AHNK 997_1006
2358	SHMDWEKVAF	P17480 UBF1 51_60
2359	TFSSSHRYHK	O94979 SC31A 62_71
2360	IQWENNGQVY	Q08397 LOXL1 43_52
2361	NHYKSNVEIF	Q9NVU7 SDA1 36_45
2362	HILEKLLKEK	Q86U86 PB1 612_621
2363	YQQYSDQGIDY	Q15417 CNN3 320_329
2364	GHFENQKVMY	Q16643 DREB 56_65
2365	THWMPYGSLY	Q13418 ILK 269_278
2366	RYFDGNLEKL	Q9Y4X5 ARI1 148_157
2367	HHPVFQQESF	P16455 MGMT 85_94
2368	RYFPTQALNF	P05141 ADT2 80_89; P12235 ADT1 80_89; P12236 ADT3 80_89; Q9H0C2 ADT4 92_101
2369	RFVHGEGLRW	P30536 TSPOA 24_33
2370	RMISHSELRK	O15172 PSPHL 24_33
2371	QYADMLNKKF	Q14185 DOCK1 1002_1011
2372	HRFYGKNSSY	Q13283 G3BP1 31_40
2373	VYLQNWSHVL	Q13098 CSN1 210_219
2374	KLLDPIREKF	P54577 SYYC 319_328
2375	KTYGEIFEKF	O95298 NDUC2 106_115
2376	LYIDRPLPYL	Q5SNT6 FA21B 90_99; Q641Q2 FA21A 178_187; Q9Y4E1 FA21C 178_187
2377	RLYGNTPMRR	Q14667 K0100 952_961
2378	QFIPPYVPRF	Q12929 EPS8 424_433
2379	YYMKDLPTSF	P42356 PI4KA 328_337
2380	RHYEKKGAY	Q7Z4I7 LIMS2 235_244
2381	KMLDHEYTTK	P11387 TOP1 262_271
2382	YIRPEDIVNF	Q1AE95 T183B 144_153; Q8IXX5 T183A 144_153
2383	KLFLEGMHYK	Q9UJ41 RABX5 339_348
2384	KHQPHKVTQY	P83881 RL36A 17_26; Q969Q0 RL36L 17_26
2385	KMPKMKMPKF	Q09666 AHNK 748_757
2386	KYYDDTFPSM	Q9P299 COPZ2 62_71
2387	RYEPANSHFF	Q8IZQ1 WDFY3 697_706
2388	RFPEELTQTF	P26641 EF1G 327_336
2389	KLFEKKYSVK	Q53T94 TAF1B 567_576
2390	HFLPVLKDRF	O95373 IPO7 176_185
2391	KTIDKKTFYK	Q15545 TAF7 78_87
2392	KSKEYFSKQK	Q06830 PRDX1 190_199
2393	KMYEEFLSKV	P10644 KAP0 244_253; P31321 KAP1 244_253
2394	EHLRETQAQY	Q96SB3 NEB2 737_746
2395	RVLDFDVKRK	Q7Z6Z7 HUWE1 3990_3999

2396	KLYEKLLKL	P42166 LAP2A 140_149; P42167 LAP2B 140_149
2397	RVFQETQKLK	P82914 RT15 212_221
2398	RILKHILTQR	Q14181 DPOA2 497_506
2399	VYFPDQHINF	Q8TEW8 PAR3L 682_691
2400	VYITNFHVRM	P30876 RPB2 735_744
2401	KTTDRYIQQQ	O94776 MTA2 311_320
2402	KYMDVVKERI	Q9GZR7 DDX24 720_729
2403	KMIEMFVRTK	Q9NWV8 BABA1 126_135
2404	KLWLDAYLHK	O95864 FADS2 435_444
2405	KLWDMNPQKQK	P53804 TTC3 1097_1106
2406	HHYFSKADHF	Q9UKZ1 CNO11 93_102
2407	KVYYPKYLSK	Q8NHP6 MSPD2 172_181
2408	TRPEFYLN SY	P12111 CO6A3 1076_1085
2409	YVDDTQFVRF	P01889 B07 51_60; P01891 1A68 51_60; P01892 1A02 51_60; P01893 HLAH 51_60; P04222 1C03 51_60; P04439 1A03 51_60; P05534 1A24 51_60; P10314 1A32 51_60; P10316 1A69 51_60; P10319 1B58 51_60; P10321 1C07 51_60; P13746 1A11 51_60; P13747 HLAE 48_57; P16188 1A30 51_60; P16189 1A31 51_60; P16190 1A33 51_60; P17693 HLAG 51_60; P18462 1A25 51_60; P18463 1B37 51_60; P18464 1B51 51_60; P18465 1B57 51_60; P30443 1A01 51_60; P30447 1A23 51_60; P30450 1A26 51_60; P30453 1A34 51_60; P30455 1A36 51_60; P30456 1A43 51_60; P30457 1A66 51_60; P30459 1A74 51_60; P30460 1B08 51_60; P30461 1B13 51_60; P30462 1B14 51_60; P30464 1B15 51_60; P30475 1B39 51_60; P30480 1B42 51_60; P30484 1B46 51_60; P30486 1B48 51_60; P30490 1B52 51_60; P30491 1B53 51_60; P30492 1B54 51_60; P30493 1B55 51_60; P30495 1B56 51_60; P30498 1B78 51_60; P30499 1C01 51_60; P30501 1C02 51_60; P30504 1C04 51_60; P30508 1C12 51_60; P30510 1C14 51_60; P30512 1A29 51_60; P30685 1B35 51_60; Q07000 1C15 51_60; Q29718 1B82 51_60; Q29836 1B67 51_60; Q29865 1C18 51_60; Q29940 1B59 51_60; Q29960 1C16 51_60; Q29963 1C06 51_60; Q31610 1B81 51_60; Q31612 1B73 51_60; Q95365 1B38 51_60; Q95604 1C17 51_60
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2412	EYLSQS YQKF	P46940 IQGA1 1253_1262
2413	RMFAPTKTWR	P36578 RL4 100_109
2414	FYIDKDMIHI	Q9Y262 EIF3L 521_530
2415	YYFEGIKQTF	O95433 AHSA1 322_331
2416	LYQDQILEKF	Q9UJT0 TBE 119_128
2417	TYNPNMPFKW	Q8IX12 CCAR1 191_200
2418	MLYPAYYSYK	Q6NUK4 REEP3 16_25
2419	RYYSGLIYTY	P35579 MYH9 104_113; P35580 MYH10 108_117; Q7Z406 MYH14 128_137
2420	SLIGWKFHWK	Q9NZM1 MYOF 1055_1064
2421	IHQDNTQRQY	Q8WVM7 STAG1 242_251
2422	QYIQDRIPSW	P07942 LAMB1 574_583
2423	IYPELQIERF	Q7Z5R6 AB1IP 224_233
2424	KFIDPIYQVW	Q9NYV6 RRN3 572_581
2425	HHWMYNATSY	Q10713 MPPA 371_380
2426	YHTDILKEKY	Q8N5C7 DTWD1 261_270
2427	RLYQECEKLK	O95757 HS74L 265_274; Q92598 HS105 265_274
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2429	RIYNMEMARK	P82921 RT21 62_71
2430	EYQPEMLEKF	P12111 CO6A3 1905_1914

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2438	RIYDYDPLYK	P31941 ABC3A 128_137; Q9UH17 ABC3B 311_320
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2440	RQYDKFLTHF	Q7Z6M2 FBX33 416_425
2441	MHRYPNQVYY	P04156 PRIO 154_163
2442	KYNDTFWKEF	P14625 ENPL 479_488; Q58FF3 ENPLL 136_145
2443	EYYDKHFTEF	P38606 VATA 463_472
2444	HHLRDYFEEY	P22626 ROA2 126_135
2445	RHYLFYKETY	Q6P1A2 MBOA5 59_68
2446	SVASAAAVLSH	P04844 RPN2 254_264
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2448	IASSSGSTAIK	O75368 SH3L1 7_17
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2452	STLGSQGQTGK	Q9H944 MED20 51_61
2453	ASSPGGVYATR	P08670 VIME 54_64
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2459	AHSTAIAGLT	Q8NI36 WDR36 331_341
2460	IEKPAGPPGIL	P35579 MYH9 515_525
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2463	QVLSAATIVAK	Q9Y490 TLN1 1490_1500; Q9Y4G6 TLN2 1492_1502
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2469	ATYEAGALSLK	Q96Q42 ALS2 409_419
2470	LVASNLLKPG	P09382 LEG1 5_15
2471	AVVNKVPLTGK	Q8WUH6 TM263 100_110
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2473	ALISKASNTPK	Q7Z3E5 ARMC9 184_194
2474	YDGHAGSQVAK	P35813 PPM1A 59_69
2475	AAESGAKEELQ	P29966 MARCS 49_59
2476	TLVDTGIGMTK	P08238 HS90B 85_95; Q58FF8 H90B2 85_95
2477	LVIDNGSGMCK	A5A3E0 POTEF 708_718; P0CG38 POTEI 708_718; P0CG39 POTEJ

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2481	GHFGPINSAVF	Q13347 EIF3I 283_293
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2483	RFIAPAASLGF	P53370 NUDT6 103_113
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2485	KVNPIQGLASK	P13073 COX41 149_159
2486	TLNVNKIIALG	P21589 NTD 209_219
2487	KTPVVEAVTSK	Q14247 SRC8 336_346
2488	SDETKAEEPS	P29966 MARCS 252_262
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2492	RLLPGNATISK	Q460N5 PAR14 858_868
2493	KVMAGSLLDK	Q7L576 CYFP1 715_725
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2509	VHYNGPSKAGY	P55265 DSRAD 436_446
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2511	TQKPTGIADVY	Q9Y6H5 SNCAP 60_70
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2513	RVFTTVGSAEK	P49327 FAS 1694_1704
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2545	VRFDSDAASPR	P01889 1B07 58_68; P03989 1B27 58_68; P04222 1C03 58_68; P10319 1B58 58_68; P10321 1C07 58_68; P18463 1B37 58_68; P18464 1B51 58_68; P18465 1B57 58_68; P30460 1B08 58_68; P30462 1B14 58_68; P30464 1B15 58_68; P30466 1B18 58_68; P30475 1B39 58_68; P30480 1B42 58_68; P30484 1B46 58_68; P30486 1B48 58_68; P30490 1B52 58_68; P30491 1B53 58_68; P30492 1B54 58_68; P30493 1B55 58_68; P30495 1B56 58_68; P30498 1B78 58_68; P30499 1C01 58_68; P30501 1C02 58_68; P30504 1C04 58_68; P30508 1C12 58_68; P30510 1C14 58_68; P30685 1B35 58_68; Q07000 1C15 58_68; Q29718 1B82 58_68; Q29836 1B67 58_68; Q29865 1C18 58_68; Q29940 1B59 58_68; Q29960 1C16 58_68; Q29963 1C06 58_68; Q31610 1B81 58_68; Q31612 1B73 58_68; Q95365 1B38 58_68; Q95604 1C17 58_68
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2605	KTYIPPKGETK	B2RPK0 HGB1A 76_86; P09429 HMGB1 76_86
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2645	RYISPDQLADL	P06733 ENOA 269_279
2646	HYISPNGVNEY	O75131 CPNE3 312_322
2647	KTFGETHPFTK	P09960 LKHA4 355_365
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2697	RIYSQKIGIKK	Q7Z2Z2 ETUD1 250_260
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2700	TVMELVKIIYK	Q53H82 LACB2 237_247
2701	HYINPMGTNEY	Q96FN4 CPNE2 328_338

2702	RELLTTMGDRF	O14950 ML12B 124_134; P19105 ML12A 123_133; P24844 MYL9 124_134
2703	KYITQGQLLQF	Q9NYP7 ELOV5 200_210
2704	RQYAKDIGFIK	P62273 RS29 44_54
2705	QYLDDVSLHHL	Q7Z3U7 MON2 758_768
2706	KLAEQYESFVK	Q9H9L7 AKIR1 163_173
2707	SLYDSKIWTTK	Q9NUX5 POTE1 417_427
2708	RIFANTESYLK	Q09161 NCBP1 194_204
2709	TYMADAQLFKKV	Q9NZL6 RGL1 241_251
2710	VLDPKSKWRSK	Q9BWS9 CHID1 284_294
2711	KLISEEDLLRK	P01106 MYC 412_422
2712	RVYDPASPQRR	Q6RFH5 WDR74 208_218
2713	KTLDIELQEKK	P21127 CD11B 11_21; Q9UQ88 CD11A 11_21
2714	QHYYEGGNSQY	O75177 CREST 300_310; Q15532 SSXT 319_329
2715	SYLPFTEAFDR	Q9NZV5 SELN 429_439
2716	RVYAENAIRKK	Q9HD42 CHM1A 46_56
2717	SYLERHGLINF	O60341 KDM1A 254_264
2718	RSFPWQSLEAK	A6NEL3 F86C2 27_37; P0C5J1 F86B2 27_37; Q8N7N1 F86B1 27_37; Q96G04 FA86A 27_37
2719	HYNSDLNNLLF	O94955 RHB73 239_249
2720	KQMEQVAQFLK	Q01995 TAGL 89_99
2721	KTYQDIQNTIK	P24928 RPB1 697_707
2722	KLYTKHGTLY	P69849 NOMO3 57_67; Q15155 NOMO1 57_67; Q5JPE7 NOMO2 57_67
2723	SYIRPEDIVNF	Q1AE95 T183B 143_153; Q8IXX5 T183A 143_153
2724	HMQNTPGFMYK	Q9NVP1 DDX18 315_325
2725	MPKMKMPKFSM	Q09666 AHNK 877_887
2726	GYLPNQLFRFT	Q92499 DDX1 730_740
2727	IYEGDESFREL	Q6NW29 RWDD4 17_27
2728	TLYNPYEFALK	Q9UJG1 MSPD1 39_49
2729	RWLPQKNAAQF	P63151 ABA 100_110
2730	QYQDTKGFSTW	P26038 MOES 48_58
2731	SHFHNKRDSAY	Q8TF72 SHRM3 250_260
2732	RSYPVTEQRVK	Q8IYA6 CKP2L 319_329
2733	KFIDPKKIKVF	Q9NUU7 DD19A 228_238; Q9UMR2 DD19B 229_239
2734	EYINQGDLHEF	Q01973 ROR1 553_563
2735	VFVQKEILDKF	P49189 AL9A1 294_304
2736	RFLNDPGHLLW	Q9H633 RPP21 100_110
2737	YIDSNNNPERF	Q00610 CLH1 883_893
2738	KYIENLDNITF	Q7Z3T8 ZFY16 1129_1139
2739	KMPEMHFKTPK	Q09666 AHNK 1184_1194
2740	TVYPKPEEWPK	P19387 RPB3 195_205
2741	RFLQDPYSTTF	Q9HA65 TBC17 214_224
2742	TYTDVTPRQFF	Q9NQZ5 STAR7 170_180
2743	RLLDDAQRLLY	Q6PK81 ZN773 30_40; Q96HQ0 ZN419 42_52
2744	KLLDIRSYLEK	P51665 PSMD7 204_214
2745	ALEENPYFRLK	Q9BZF1 OSBL8 453_463
2746	RYLPKGFLNQF	Q05397 FAK1 127_137
2747	KYQEVTNLNEF	Q14444 CAPR1 98_108

2748	VYEDQVGKFDW	Q8N766 EMC1 22_32
2749	ILEDEQTQRQK	Q9P2E9 RRBP1 1300_1310
2750	RVYSPPEWISR	Q9P1W9 PIM2 201_211
2751	KQRDSEIMQQK	P84101 SERF2 37_47
2752	RVITEEEKNFK	P26373 RL13 167_177
2753	AFYPPHPDYTW	Q8NBJ5 GT251 251_261
2754	ILEQEYQREG	P35579 MYH9 486_496; P35580 MYH10 493_503; P35749 MYH11 493_503
2755	RMYSQLKTLQK	Q6XZF7 DNMBP 463_473
2756	KYLAEKYLQKL	Q9ULC3 RAB23 163_173
2757	LYIGWDKHYGF	P25789 PSA4 135_145
2758	RFLEQQNKill	P08670 VIME 122_132
2759	RLYMLNLPVLR	Q96NE9 FRMD6 322_332
2760	RTYETFKSIMK	Q04206 TF65 304_314
2761	KYLDEDTIYHL	P31153 METK2 234_244
2762	KYIDKTIRVKF	Q9UK45 LSM7 17_27
2763	KYLEESTIRHF	Q8IY63 AMOL1 690_700
2764	TMYTRYKIVQK	Q8N682 DRAM1 70_80
2765	EYVDDTQFLRF	P30511 HLAF 47_57
2766	KYIEEQLLQRI	Q9Y2Y0 AR2BP 75_85
2767	HYINPYQPNEY	Q9UBL6 CPNE7 403_413
2768	KWLEPLKNLRF	Q69YN4 VIR 893_903
2769	RYLSPKYIKMF	P60842 IF4A1 169_179
2770	KFIDEQQILHW	Q9Y3C7 MED31 95_105
2771	IYIKPHLFKY	Q9H147 TDIF1 232_242
2772	RVINEEYKIWK	Q09028 RBBP4 15_25; Q16576 RBBP7 14_24
2773	KYLPYNHQHEY	O95864 FADS2 255_265
2774	GTAKEGQGPGPK	Q15113 PCOC1 276_287
2775	GKADGAEAKPAE	P35579 MYH9 1949_1960
2776	VDGKADGAEAKP	P35579 MYH9 1947_1958
2777	GSAVISLEGKPL	P23528 COF1 155_166
2778	GLVASNLNLKPG	P09382 LEG1 4_15
2779	RTLPSTSSSGSK	P08651 NFIC 269_280
2780	AEGPDVAVDLPK	Q09666 AHNK 3489_3500
2781	SVYPVAGGPTFK	O95025 SEM3D 430_441
2782	GLFEVGAGWIGK	P51659 DHB4 235_246
2783	NTAAQKVSHLLG	P35579 MYH9 368_379
2784	LSGAGEHLKTDL	P35579 MYH9 281_292
2785	KLKGVAELGVTK	Q9Y421 FA32A 13_24
2786	RTLGPVGGLLY	Q96BI1 S22AI 377_388
2787	GEGPEVDVNLPK	Q09666 AHNK 1141_1152
2788	RSAEAQPEAQPA	Q969G5 PRDBP 216_227
2789	VHYQPGGTAQGF	Q9H792 PEAK1 1525_1536
2790	RLYGLGTGVAQK	Q9UFF9 CNOT8 258_269
2791	RVFSLGLVSTGLK	P13639 EF2 415_426
2792	QLLAQATGKPPQ	P14174 MIF 25_36
2793	AEGPEVDVNLPK	Q09666 AHNK 764_775
2794	KVVLTQANKLGV	O94979 SC31A 1209_1220

2795	GTKAVTKYTSSK	P23527 H2B1O 115_126; P33778 H2B1B 115_126; P58876 H2B1D 115_126; P62807 H2B1C 115_126; Q16778 H2B2E 115_126; Q5QNW6 H2B2F 115_126; Q8N257 H2B3B 115_126; Q93079 H2B1H 115_126; Q96A08 H2B1A 116_127; Q99877 H2B1N 115_126; Q99879 H2B1M 115_126; Q99880 H2B1L 115_126
2796	KVKGVTNQTGLK	Q9Y3A2 UTP11 178_189
2797	AHYHTGPGSPSY	Q8NFH3 NUP43 118_129
2798	SAKNATNVEQAF	Q92928 RAB1C 151_162; Q9H0U4 RAB1B 151_162
2799	GEGPEVDMNLPK	Q09666 AHNK 1525_1536
2800	RVKVSQAAADLK	P63218 GBG5 25_36
2801	PSKGPLQSVQVF	P62249 RS16 2_13
2802	ALFGDEVSPLLK	Q8WX92 NELFB 155_166
2803	SLLTSSKGQLQK	Q99541 PLIN2 369_380
2804	ADGYEPPVQESV	P61247 RS3A 253_264
2805	VSEKGTVQQADE	P32969 RL9 181_192
2806	EAVNMVSSQTKT	Q8TAD7 OCC1 48_59
2807	SAKNATNVEQSF	P62820 RAB1A 154_165
2808	SHANSVVNPIVY	P29275 AA2BR 279_290
2809	VDLPSVNLSMPK	Q09666 AHNK 5285_5296
2810	ISTPEELGLDKV	P20674 COX5A 139_150
2811	ALYPEGQAPVKK	P37802 TAGL2 68_79
2812	FRVPTANVSVVD	P04406 G3P 233_244
2813	AIYELAVASFPK	P14406 CX7A2 69_80
2814	LSDDDTESKTSD	P35580 MYH10 1955_1966
2815	RYLPTASSNSAF	Q9Y2X9 ZN281 542_553
2816	AINYMAADGDFK	P09382 LEG1 117_128
2817	MNEAPGPINFTM	O14950 ML12B 74_85; P19105 ML12A 73_84
2818	GQFSQAEALLMK	A6NJ78 MET15 144_155; P0C7V9 ME15P 144_155
2819	GMTGYGMPRQIL	P37802 TAGL2 188_199
2820	VYLDRGTGNVSF	Q9C037 TRIM4 448_459
2821	SIRDTPAKNAQK	P06748 NPM 195_206
2822	KTIEEAKAIISK	P57076 CU059 114_125
2823	SVFSGNPSIWLK	Q6NUQ4 TM214 132_143
2824	RIYGESADAVKK	P51114 FXR1 263_274
2825	RVLELVSITANK	P34897 GLYM 398_409
2826	LVNKESSETPDQ	P16070 CD44 712_723
2827	AIAQLNYADMLK	Q14204 DYHC1 3396_3407
2828	LELSDDDTESKT	P35580 MYH10 1953_1964
2829	YNÉATGGKYVPR	P07437 TBB5 51_62; P68371 TBB4B 51_62
2830	MIYASSKDAIKK	P23528 COF1 115_126; P60981 DEST 115_126; Q9Y281 COF2 115_126
2831	VYIPMSPGAHHF	Q9UQC2 GAB2 475_486
2832	DVELDDLGKDEL	Q15084 PDIA6 429_440
2833	GLFSGDPNWFPK	P37802 TAGL2 142_153
2834	KLVDSKHGQLIK	Q5KU26 COL12 425_436
2835	ALFPLLPKVVLQK	O96006 ZBED1 596_607
2836	FVRFDSDAASPR	P01889 B07 57_68; P03989 B27 57_68; P04222 C03 57_68; P10319 B57 57_68; P10321 C07 57_68; P18463 B37 57_68; P18464 B51 57_68; P18465 B57 57_68; P30460 B08 57_68; P30462 B14 57_68; P30464 B15 57_68; P30466 B18 57_68; P30475 B39 57_68; P30480 B42 57_68; P30484 B46 57_68; P30486 B48

		57_68; P30490 1B52 57_68; P30491 1B53 57_68; P30492 1B54 57_68; P30493 1B55 57_68; P30495 1B56 57_68; P30498 1B78 57_68; P30499 1C01 57_68; P30501 1C02 57_68; P30504 1C04 57_68; P30508 1C12 57_68; P30510 1C14 57_68; P30685 1B35 57_68; Q07000 1C15 57_68; Q29718 1B82 57_68; Q29836 1B67 57_68; Q29865 1C18 57_68; Q29940 1B59 57_68; Q29960 1C16 57_68; Q29963 1C06 57_68; Q31610 1B81 57_68; Q31612 1B73 57_68; Q95365 1B38 57_68; Q95604 1C17 57_68
2837	AYISQVPTQMSF	Q8TEL6 TP4AP 657_668
2838	VYIGDAHTNTVW	P19021 AMD 793_804
2839	MVSSQTKTVRKN	Q8TAD7 OCC1 52_63
2840	SLYDQAEKLVSK	O43242 PSMD3 262_273
2841	KMKEIAEAYLGK	P11142 HSP7C 126_137
2842	LFGGEPLSYTRF	P02786 TFR1 12_23
2843	IFLDHIGGTRLF	P62699 YPEL5 4_15
2844	VIRFQPGETLTE	P46940 IQGA1 1395_1406
2845	KTYIPPKGETKK	B2RPK0 HGB1A 76_87; P09429 HMGB1 76_87
2846	KTWTVVDAKTLK	P13010 XRCC5 274_285
2847	KMKAPEKKPLVK	P26232 CTNA2 907_918; P35221 CTNA1 860_871
2848	KTYNEPGSQVFK	Q86U86 PB1 260_271
2849	LLTMGDRFTDE	O14950 ML12B 126_137; P19105 ML12A 125_136; P24844 MYL9 126_137
2850	DVRIPSQNLNVNF	Q9UKG9 OCTC 92_103
2851	RLLDMDGIIIVEK	Q14152 EIF3A 340_351
2852	SYLPDMSGRYTI	Q14315 FLNC 1601_1612
2853	AQVTTENQLKYL	O00159 MYO1C 327_338
2854	RAFHDPLEFVGK	O95864 FADS2 73_84
2855	VLYHYVAVNPK	P0C6T2 OST4 23_34
2856	RIYKGVIQAIQK	Q9NQC3 RTN4 1055_1066
2857	KTRNHSTAYLTK	O00254 PAR3 363_374
2858	SIYNPERTITVK	Q9Y6M1 IF2B2 317_328
2859	PSQMEHAMETMM	P60903 S10AA 2_13
2860	RLIGELAKEIRK	Q99584 S10AD 78_89
2861	EQQEEGINRLTD	O75915 PRAF3 170_181
2862	YREAPIDKKGNF	O14950 ML12B 143_154; P19105 ML12A 142_153; P24844 MYL9 143_154
2863	VTFNPKYDTLLK	P50579 MAP2 267_278
2864	RYMPFAPAIQTF	P41226 UBA7 895_906
2865	KLVTKLQNNSERK	O60356 NUPR1 65_76
2866	TYINEDRISTTF	Q9NYY3 PLK2 644_655
2867	RVITYLDHSTQK	Q13619 CUL4A 273_284
2868	RLRDPDSHVKK	Q96EK5 KBP 494_505
2869	HHKYNNSDKSSTY	P07339 CATD 120_131
2870	YHFMQAEEGNPF	P50402 EMD 243_254
2871	DQSQIQEKFKEAF	O14950 ML12B 27_38; P19105 ML12A 26_37; P24844 MYL9 27_38
2872	RFIEDGKKTTF	O75881 CP7B1 417_428
2873	KLIQEKKDNLLK	Q9HBM1 SPC25 73_84
2874	KYINTDAKFQVF	Q8TEL6 TP4AP 602_613
2875	FEGFPDKQPRKK	P26447 S10A4 90_101
2876	IYIDSNNNPERF	Q00610 CLH1 882_893
2877	VYEKFHPSIQSF	Q969V5 MUL1 155_166
2878	YFIDSTNLKTHF	O00488 ZN593 69_80

2879	KYIDDKDVFQKF	Q13617 CUL2 423_434
2880	KYIEDKDVFQKF	Q13616 CUL1 454_465
2881	KYLPYNHQHEYF	O95864 FADS2 255_266
2882	RYLPYNQQHLYF	Q9Y5Q0 FADS3 256_267

**D) Identified Sequences from T2 cell line**

## T2 EThcD 1D – spliced peptides

#	sequence	origin
1	PLGRLLVLA	Q8IZJ3 CPMD8 555_561_547_548
2	LINLLTGVQ	Q9UGF7 O12D3 34_37_15_19
3	HSLLSLIVT	Q5T1H1 EYS 1337_1341_1327_1330
4	MTEGTLLIL	Q96MT1 RN145 315_318_320_324
5	PLATQLSRF	Q6MZM9 PRR27 94_99_115_117
6	SDMKYTIVV	P25705 ATPA 280_281_269_275
7	LPWAIQLAR	A6NGU5 GGT3 151_154_161_165; P19440 GGT1 151_154_161_165; P36268 GGT2 151_154_161_165
8	GKWLLISYV	O94782 UBP1 745_749_733_736
9	IPPPPLVRGG	Q86YP4 P66A 200_201_220_227
10	HCHVVTAGVV	P34896 GLYC 247_252_238_241
11	EGVSSFIVSE	O15040 TCP2 960_965_976_979
12	LHSLSLVTL	Q9P2D3 HTR5B 956_958_978_984
13	SMASLGALALL	P51571 SSRD 16_16_4_13
14	PGKAPKSLIVTI	P04430 KV122 40_48_19_21
15	LLL DVYGA AVQA	P08107 HSP71 392_396_371_377; P11142 HSP7C 392_396_371_377; P17066 HSP76 394_398_373_379; P34931 HS71L 394_398_373_379; P54652 HSP72 395_399_374_380

## T2 EThcD 1D – non-spliced peptides

#	sequence	origin
1	GVGPVPARA	Q8TB96 TIP 25_33
2	LAAARLAAA	P30101 PDIA3 16_24
3	LLLPGPSAA	P23284 PPIB 25_33
4	LLAGQATTA	P04233 HG2A 60_68
5	LHAGGLARA	P0C7U0 ELFN1 19_27
6	APP PPPPPP	A6NGB9 WIPF3 222_230; O00401 WASL 372_380; O95271 TNKS1 26_34; P16298 PP2BB 10_18; P19544 WT1 59_67; P35241 RADI 469_477; P46379 BAG6 656_664; Q12830 BPTF 23_31; Q15637 SF01 581_589; Q2VWA4 SKOR2 284_292; Q5T4S7 UBR4 607_615; Q5VSG8 MANEL 67_75; Q6ZW33 MICLK 456_464; Q75N03 HAKAI 342_350; Q8IZD2 KMT2E 1543_1551; Q96EV2 RBM33 319_327; Q96Q04 LMTK3 752_760; Q96QU1 PCD15 1434_1442; Q96S59 RANB9 81_89; Q9BUJ2 HNRL1 773_781; Q9BXQ6 CECR6 540_548; Q9C0D6 FHDC1 33_41; Q9NTN9 SEM4G 764_772; Q9ULL5 PRR12 217_225; Q9Y467 SALL2 159_167; Q9Y4A5 TRRAP 505_513; Q9Y661 HS3S4 6_14; Q9Y6W5 WASF2 363_371
7	LLAAPAQA	P17900 SAP3 15_23
8	SPP PPPPPP	A6NF34 ANTRL 400_408; P10323 ACRO 349_357; Q08999 RBL2 8_16; Q5T5P2 SKT 1044_1052; Q69YN4 VIR 138_146; Q7RTU7 SCX 157_165; Q8IUC6 TCAM1 359_367; Q8IZP0 ABI1 410_418; Q8N3X1 FNBP4 721_729; Q96EV2 RBM33 481_489; Q96T25 ZIC5 162_170; Q9BRK4 LZTS2 311_319; Q9C0D6 FHDC1 57_65; Q9H7N4 SFR19 207_215; Q9Y6U7 RN215 11_19
9	VLLGATTLV	P17181 INAR1 4_12
10	LLALRLAAG	Q01459 DIAC 30_38
11	LLDVPTAAV	P13284 GILT 16_24
12	ALVVQVAEA	P07686 HEXB 34_42
13	LLSAAVCRA	Q9NYL4 FKB11 17_25
14	ALSAIRANC	Q9UHP7 CLC2D 55_63
15	DPPAPLPLV	P50897 PPT1 28_36
16	ALLSSLARC	Q9UNW1 MINP1 22_30
17	LLAQLSDA	Q9NQ34 TMM9B 25_33
18	LLGPRLVLA	P49755 TMEDA 23_31
19	ALLARLQVA	Q9Y6Q6 TNR11 19_27
20	LVMQGVSRA	P15260 INGR1 9_17
21	RLSSKSVNA	P25445 TNR6 17_25
22	FLSSSNLSL	Q9Y244 POMP 94_102
23	VPLIIVNSI	Q9Y5U9 IR3IP 65_73
24	LAAAWTARA	P05067 A4 9_17
25	ALALTQTWA	P01891 1A68 16_24; P01892 1A02 16_24; P01893 HLAH 16_24; P04439 1A03 16_24; P05534 1A24 16_24; P10314 1A32 16_24; P10316 1A69 16_24; P13746 1A11 16_24; P13747 HLAE 13_21; P16189 1A31 16_24; P16190 1A33 16_24; P18462 1A25 16_24; P30443 1A01 16_24; P30447 1A23 16_24; P30450 1A26 16_24; P30453 1A34 16_24; P30455 1A36 16_24; P30456 1A43 16_24; P30457 1A66 16_24; P30512 1A29 16_24; Q09160 1A80 16_24
26	MVDGTLLL	P13747 HLAE 1_9
27	VLAPRVLRA	Q15293 RCN1 21_29
28	SLYALHVKA	Q9BQB6 VKOR1 23_31

29	RVPAAVKEL	Q96D53 ADCK4 308_316
30	LLFSAFSRA	Q5BKT4 AG10A 22_30; Q5I7T1 AG10B 22_30
31	FLNLLPVEA	O43567 RNF13 26_34
32	RIQEGVESL	P05166 PCCB 165_173
33	ILQAHLHSL	Q12864 CAD17 2_10
34	RLIKDTLAL	Q9BSB4 ATGA1 210_218
35	RLPEAIEEV	Q9UBQ7 GRHPR 125_133
36	RLQAEAQEL	Q8TAE8 G45IP 155_163
37	RIIDVVYNA	P62241 RS8 77_85
38	RLSESQLSF	Q96PK6 RBM14 616_624
39	IPYHIVNIV	P49591 SYSC 357_365
40	TLFFQQNAL	P17706 PTN2 407_415
41	FLWEAESHA	P08842 STS 15_23
42	FLFPRSIDV	Q9NUM4 T106B 115_123
43	YPFFRGVTI	O75794 CD123 15_23
44	RLLKSKLYL	P10620 MGST1 147_155
45	FLYQQQGRL	P04233 HG2A 70_78
46	LLAAARLAAA	P30101 PDIA3 15_24
47	ALLSLSGLEA	P61769 B2MG 11_20
48	LLHAGGLARA	P0C7U0 ELFN1 18_27
49	FLLPGPSAA	P23284 PPIB 24_33
50	LLSGDGAVRC	P53634 CATC 15_24
51	LLPPPPRVGG	P08648 ITAS 32_41
52	FLTEAALGDA	P48307 TFPI2 15_24
53	LLLSAEPVPA	P40259 CD79B 19_28
54	LLLDVPTAAV	P13284 GILT 15_24
55	VLWGAAPTRG	Q9H6Y7 RN167 15_24
56	HAAFPPLPVV	Q9H6Y7 RN167 2_11
57	ILWQLTGSAA	Q9NQ25 SLAF7 13_22
58	VSWDIPGARA	P06280 AGAL 22_31
59	FLLGPRLVLA	P49755 TMEDA 22_31
60	YLRELAVGSL	P52948 NUP98 1808_1817
61	LLWLIAPSRA	P01033 TIMP1 14_23
62	RINEILSNAL	P52272 HNRPM 371_380
63	RLPDAHSDYA	Q96PK6 RBM14 637_646
64	FVYPLDFART	P05141 ADT2 130_139; P12235 ADT1 130_139; P12236 ADT3 130_139
65	ALAPGLPTARA	Q9UMX5 NENF 21_31
66	LLAAARLAAA	P30101 PDIA3 14_24
67	VPAQSQAGSLV	Q96AP7 ESAM 380_390
68	LLLGRLTGVAG	O00241 SIRB1 19_29; Q5TFQ8 SIRBL 19_29
69	TLLHAGGLARA	P0C7U0 ELFN1 17_27
70	ILAPAGSLPKI	Q9Y5Z9 UBIA1 328_338
71	LLPEGPPAIAN	Q15011 HERP1 381_391
72	LLDVPTAAVQA	P13284 GILT 16_26
73	LLSGDGAVRC	P53634 CATC 14_24

74	LLALGVERALA	Q6UW56 ARAID 20_30
75	KLSDGVAVLKV	P10809 CH60 396_406
76	ILWQLTGSAAS	Q9NQ25 SLAF7 13_23
77	KMDASLGNLFA	Q92520 FAM3C 30_40
78	TVFSHAQTVVL	P42677 RS27 45_55; Q71UM5 RS27L 45_55
79	FLSELTGFITT	Q969X5 ERGI1 40_50
80	GLWRTTPEAHA	Q15043 S39AE 20_30
81	SLLAQNTSWLL	P04216 THY1 134_144
82	MAPSETQFSHL	Q8N6F7 GCSAM 168_178
83	YVSPEDEAQL	Q9H3Z4 DNJC5 149_159
84	LLYDLADQLHA	P13804 ETFA 233_243
85	RLLQDSVDFSL	P08670 VIME 78_88
86	ALEEPDDQNRI	P31994 FCG2B 300_310
87	VLLEQEKTFFT	Q9NS68 TNR19 5_15
88	KLIEVDDERKL	P62753 RS6 14_24
89	ILWLQPDWVNS	P04437 TVA2 11_21
90	RLAELSDYRRL	Q96PK6 RBM14 607_617
91	SLLPEGPPAIAN	Q15011 HERP1 380_391
92	LLLDPVTAAVQA	P13284 GILT 15_26
93	SAPELESKESVL	P43007 SATT 521_532
94	ILPQDLERAGLV	O75683 SURF6 350_361
95	KLWAEDGEFTSA	Q9Y2D5 AKAP2 429_440
96	RLFQGDQLTLA	O15247 CLIC2 171_182
97	SQIDDLYSTIKV	P33121 ACSL1 687_698
98	FLYQQQGRLDKL	P04233 HG2A 70_81

**E)** Spliced and non-spliced peptides of the GR-LCL 1D EThcD dataset, which could be explained by a sequence with a higher ion score when querying the whole Swissprot database including all organisms

#### Spliced peptide LC-MS/MS spectra

spliced peptide	ion score spliced peptide	alternative sequence	ion score alter. sequence	origin of alternative sequence
LDILNGRQKI	25.55	LDLLNGRLKQ	25.55	CH60_MYCPN
LLTPLAFLILL	25.92	ILIPTAFLLIL	27.53	PSBM_ADICA
RGLAHKVVL	25.98	RLGAKHVLV	28.65	TRPD_BURXL
RKLTESVLY	26.16	KRLETsvLY	37.2	L_MEASC
KLNPSLITMEI	26.75	KPNLSSKRSEL	34.22	HEMA_MEASA
QFLKLPGKK	27.12	FQLKPIGKK	35.73	PHOSP_MEASE
ASELGRLARF	27.42	ESAGRLLARF	28.9	RECO_XANP2
HPPLGPIAL	27.45	HLKGYLAL	31.9	SAT4_ARATH
RRVEGVFRRL	27.6	RRVVGEFRL	29.72	NCAP_MEASA
REPPVILEI	27.66	PPREVLL	29.7	TAF9_ARATH
PNVQARTGFL	28.87	GPRQAQVSFL	50.61	NCAP_MEASA
LLLLEQDAL	29.19	PTATILIDAL	29.3	Y1362_SULAC
GHEPLLRL	29.21	HADIPLRL	31.14	IF2B1_DANRE
YDVKNEIVYALK	31.97	KTVTSMDVVYAL K	65.18	H4_SOLST

#### Non-spliced peptide LC-MS/MS spectra

non-spliced peptide	ion score non-spliced peptide	alternative sequence	ion score alter. sequence	origin of alternative sequence
SPGPEKMAL	25.26	IPSNSPMAI	25.37	HXKA_YEAST
VPRVGLGL	25.26	RPVGVLGI	27.16	C519A_DICDI
AVNISGLVFY	25.3	GLNEKLVFY	29.38	MATRX_MEASA
KPNKPLIL	25.37	VKHSILL	25.78	LEP_BUCAI
GPRKGTHLL	25.54	ARAGLQHLL	25.67	HIS4_XANAC
SPIIRPLL	25.57	PSIIRPII	25.68	GRLR_DICDI
VARILPFL	26.05	RLGLIPFL	29.38	TRPA_DESAD
KIADRFL	26.28	KIADRIF	35.45	MUTS_PROM9
GLNIDRW	26.3	GLNLDWR	26.93	BGAL2_BACSU
RPRKAFLLLL	26.34	ILIPTAFLLIL	28.1	PSBM_ADICA
SPTFLRAL	26.36	PAYTIRAI	27.39	Y1387_METJA
FSEIDLEKY	27.37	YAELDLEYK	27.41	Y1777_PYRFU
RRLSLFL	28.5	RRTVLF	29.53	WRIP1_YEAST
TLYRIFNNK	28.51	IHSVPIFNNK	31.39	SET1_PLAF7
KPAGPPGILAL	29.14	TFRLSLLAL	30.07	ASGR2_MOUSE
RPRKAFLLLL	30.07	ILIPTAFLLIL	33.28	PSBM_ADICA
RPGVVLL	30.7	PRGVVLI	34.87	ERYA3_SACER
DIGFIKLD	31.32	DLGFLSAVV	34.39	VG48_SHV21
RPRKAFLLLL	31.66	ILIPTAFLLIL	35.65	PSBM_ADICA
RPRKAFLLLL	32.26	ILIPTAFLLIL	34.16	PSBM_ADICA

RPRKAFLLLL	32.4	ILIPTAFLLIL	34.57	PSBM_ADICA
RPRKAFLLLL	33.07	ILIPTAFLLIL	37.54	PSBM_ADICA
RRLLLLPLL	34.78	RRILLPLIL	41.41	MNN4_YEAST
HPLEVGLAL	38.3	FSLERLAI	40.95	LIFO_PSEME
RPRKAFLLLL	38.56	ILIPTAFLLIL	41.16	PSBM_ADICA
APRAVFPSIV	39.83	APRAVFPTVV	43.22	ACT_GIAIN
SPLTKSISL	41.3	PSLTKSLSL	41.5	LPXK_METC4
KPLAAALGL	43.03	LPAAKALGL	49.35	MIAA_PARL1
RPIRIVAL	43.85	PRLRIVAI	46.34	YJL8_YEAST

**Table S2.**

Representative antigenic spliced peptides. The information about 99 selected spliced epitopes, whose identification is validated by the comparison with the synthetic peptides (**Fig. S5**), or whose IC<sub>50</sub> is experimentally determined, are here depicted. We here report the IC<sub>50</sub> of each peptide for the HLA class I haplotype that have the smallest predicted IC<sub>50</sub> using the ANN algorithm. The HLA-I – epitope IC<sub>50</sub> is predicted for the GR-LCL-specific HLA-A and -B variants (*i.e.* HLA-A\*01:01, -A\*03:01, -B\*07:02, -B\*27:05) whose prediction matrix is available in the ANN NetMHC algorithm (15). We also reported the HLA-I – epitope IC<sub>50</sub> for the HLA-A\*01:01, -A\*03:01, -B\*07:02, -B\*27:05 variants as measured by *in vitro* assays. An IC<sub>50</sub> > 5000 nM means that the peptides do not bind any of the HLA allotypes tested. The peptides with identifiers (ID) 1-77 (**Fig. S5A**), S1-S12 (**Fig. S5A-B**) and C1-C9 (**Fig. S5A** and **Fig. S7A-I**) are used for comparison with their synthetic counterpart. For the peptide with ID X1 no synthetic peptide MS/MS spectrum is obtained. Entries s labeled ‘—’ indicate measured IC<sub>50</sub> values above 10000 nM, *i.e.* not detectable binding.

ID	peptide sequence	predicted IC <sub>50</sub> in nM (ANN)	corresponding HLA to predicted IC <sub>50</sub>	measured IC <sub>50</sub> in nM	corresponding HLA to measured IC <sub>50</sub>
1	PSTLNVGTL	19259	HLA-B*07:02	--	--
2	APATPAVVL	16	HLA-B*07:02	10	HLA-B*07:02
3	NTCQDAIAIVGYK	3157	HLA-A*03:01	1310	HLA-A*03:01
4	PSVGPVLGR	14740	HLA-A*03:01	2185	HLA-A*03:01
5	LPPPARPPI	34	HLA-B*07:02	111	HLA-B*07:02
6	PHSPALQPI	22115	HLA-A*01:01	1709	HLA-B*07:02
7	GVVCPVSDILYK	116	HLA-A*03:01	202	HLA-A*03:01
8	VPAQSRPCVG	3796	HLA-B*07:02	4586	HLA-B*07:02
9	LVIDNGSGMCKG	21746	HLA-A*01:01	26588	HLA-A*01:01
10	GSTCIYGGAPK	6586	HLA-A*03:01	666	HLA-A*03:01
11	GATCELPLQK	3648	HLA-A*03:01	13066	HLA-A*03:01
12	LGPRAAAAGAL	12604	HLA-B*07:02	33	HLA-B*07:02
13	DKDGCMVEQY	8828	HLA-A*01:01	--	--
14	SPLAASKECAV	54	HLA-B*07:02	367	HLA-B*07:02
15	PKLLGPLSL	15503	HLA-B*27:05	27576	HLA-B*07:02
16	ALSPVLIPIR	369	HLA-A*03:01	4.8	HLA-A*03:01
17	GLELSGCIVY	1656	HLA-A*01:01	5131	HLA-B*27:05
18	PVRPAAAAATAL	61	HLA-B*07:02	3229	HLA-B*07:02
19	PKASSGSFSL	16935	HLA-B*07:02	11332	HLA-B*27:05
20	PVEKNTVEL	7985	HLA-B*07:02	9212	HLA-B*27:05
21	STLTDSLVCVGK	1233	HLA-A*03:01	31	HLA-A*03:01
22	SLFSTSSKL	6765	HLA-A*03:01	8742	HLA-A*03:01
23	GITCPQVLIQK	845	HLA-A*03:01	819	HLA-A*03:01
24	LPRGGSVLVTCG	9901	HLA-B*07:02	554	HLA-B*07:02
25	IISIVTGLK	41	HLA-A*03:01	14	HLA-A*03:01
26	LVVDNGSGMCKG	21836	HLA-A*01:01	16776	HLA-B*27:05
27	APRSEVEAN	12674	HLA-B*07:02	800	HLA-B*07:02
28	RPASGYSTL	8	HLA-B*07:02	1.8	HLA-B*07:02

29	FPRVSTPLA	37	HLA-B*07:02	98	HLA-B*07:02
30	ARCGGALLAL	377	HLA-B*27:05	5.3	HLA-B*27:05
31	ADTDSPRLY	11604	HLA-A*01:01	32	HLA-A*01:01
32	PRGSGGIGL	5648	HLA-B*27:05	336	HLA-A*03:01
33	HNLEKGSL	7400	HLA-B*07:02	1835	HLA-B*07:02
34	LDAGLKKQFYK	12188	HLA-A*03:01	960	HLA-A*01:01
35	VRSPGATASSL	3425	HLA-B*27:05	986	HLA-B*07:02
36	GVWEEVGCAKG	22953	HLA-B*07:02	266	HLA-A*03:01
37	GCLDTAQRNLY	16257	HLA-A*01:01	201	HLA-A*01:01
38	TRLVLDPVR	1012	HLA-B*27:05	241	HLA-B*27:05
39	APRRPTQGTVTF	9	HLA-B*07:02	4.3	HLA-B*07:02
40	TRSTGLLGVK	2191	HLA-B*27:05	1517	HLA-A*03:01
41	RVFPSNVICKG	4678	HLA-A*03:01	1832	HLA-A*03:01
42	QTALVEIIK	641	HLA-A*03:01	2721	HLA-A*03:01
43	KISFPIIAK	27	HLA-A*03:01	0.78	HLA-A*03:01
44	RGLIDGVVKT	23230	HLA-B*27:05	--	--
45	ERAGPLSGKKF	1704	HLA-B*27:05	16	HLA-B*27:05
46	PRLEQGLLR	988	HLA-B*27:05	4249	HLA-B*27:05
47	AVYEGHVSCVKKG	18553	HLA-A*03:01	12327	HLA-A*03:01
48	RAAPPPPP	2871	HLA-A*03:01	56	HLA-A*03:01
49	AHKEIHQQQL	18605	HLA-B*27:05	83	HLA-A*03:01
50	LNDRGGSVIK	12676	HLA-A*03:01	--	--
51	RAAAPPLPR	635	HLA-A*03:01	175	HLA-A*03:01
52	QFLEENTNILK	8393	HLA-A*03:01	18592	HLA-A*03:01
53	SVRELNFTK	166	HLA-A*03:01	119	HLA-A*03:01
54	NPRGARVIAL	12	HLA-B*07:02	0.96	HLA-B*07:02
55	RPADKIQML	27	HLA-B*07:02	21	HLA-B*07:02
56	PLRDARVSDL	12032	HLA-B*07:02	8487	HLA-A*03:01
57	DIVLNAVALL	25439	HLA-A*01:01	1523	HLA-B*27:05
58	RPRWGAAAS	9	HLA-B*07:02	3.6	HLA-B*07:02
59	ARVKEVEEMCKG	10520	HLA-B*27:05	3166	HLA-B*27:05
60	KILPYQLKR	140	HLA-A*03:01	3.8	HLA-A*03:01
61	PRPRGGSDL	13746	HLA-B*27:05	466	HLA-A*03:01
62	GFQNALLVR	17734	HLA-A*03:01	8482	HLA-A*03:01
63	GRFEVGKKICLG	1243	HLA-B*27:05	32	HLA-B*27:05
64	RELAHYNKR	9023	HLA-B*27:05	2940	HLA-B*27:05
65	RGLASPPPV	9999	HLA-B*27:05	833	HLA-A*03:01
66	RRFDDAVVQK	37	HLA-B*27:05	3.1	HLA-B*27:05
67	RRVSQGLLGK	19	HLA-B*27:05	1.6	HLA-B*27:05
68	RRLETLLIK	19	HLA-B*27:05	0.46	HLA-B*27:05
69	PGRGARRLLALV	19969	HLA-B*07:02	713	HLA-B*27:05
70	RRVYLEGRCVG	2340	HLA-B*27:05	24	HLA-B*27:05
71	GKLCQHIIKR	5672	HLA-B*27:05	5764	HLA-A*03:01
72	RRYNGGVGRCQ	483	HLA-B*27:05	16	HLA-B*27:05
73	GRVCSNRHGLIR	493	HLA-B*27:05	657	HLA-B*27:05

74	RIKFSDDRVCKG	21292	HLA-A*03:01	25726	HLA-A*03:01	
75	LKRDKLFEK	14050	HLA-B*27:05	--	--	
76	RAVPGPPAR	9523	HLA-A*03:01	372	HLA-B*27:05	
77	RTGVPPTIR	2617	HLA-A*03:01	2587	HLA-A*03:01	
S1	ETESQQIRY	10	HLA-A*01:01	30	HLA-A*01:01	
S2	RPGGRGALL	10	HLA-B*07:02	7.5	HLA-B*07:02	
S3	RSLTGILGK	37	HLA-A*03:01	238	HLA-A*03:01	
S4	RRGELLVLR	40	HLA-B*27:05	4.1	HLA-B*27:05	
S5	GLSLSLSPGK	70	HLA-A*03:01	212	HLA-A*03:01	
S6	GRNKLLQSW	2331	HLA-B*27:05	--	--	
S7	RQSLIELAK	225	HLA-B*27:05	37	HLA-B*27:05	
S8	RRNDKQLCIG	1617	HLA-B*27:05	108	HLA-B*27:05	
S9	EKPHSEAGTAF	21190	HLA-A*01:01	--	--	
S10	WSVMDQDSL	19373	HLA-B*07:02	--	--	
S11	QDKVKTLTGK	14427	HLA-A*03:01	--	--	
S12	RLADKSVLVCKG	15675	HLA-A*03:01	343	HLA-A*03:01	
X1	PGREAVSKL	17954	HLA-B*07:02	11494	HLA-B*07:02	
C1	KQTALVELIK					
C2	GRVTGWGNR					
C3	LVITRLLNK					
C4	GRLALAAAR					
C5	QTALVELIK					
C6	RKFEAVTAR					
C7	RVSGLSSPR					
C8	LLL DKPTVGR					
C9	APRGSLSEL					

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