

**ESI, Table S2 – List of proteins identified in ANK and RCC microdomain samples using Mascot Server.**

| NAME                                             | Accession ID<br>(UNIPROT) | MW<br>(Da) | Gravy<br>index | Subcellular<br>localization | Type of<br>membrane<br>interaction | Molecular<br>function | ANK              |                           | RCC              |                           |
|--------------------------------------------------|---------------------------|------------|----------------|-----------------------------|------------------------------------|-----------------------|------------------|---------------------------|------------------|---------------------------|
|                                                  |                           |            |                |                             |                                    |                       | Protein<br>score | Significative<br>peptides | Protein<br>score | Significative<br>peptides |
| 14-3-3 protein θ                                 | P27348                    | 28032      | -0,68          | Cyt                         |                                    | Ada                   |                  |                           | 15               | 1                         |
| 3-hydroxyacyl-CoA dehydratase 3                  | Q9P035                    | 43360      | 0,003          | Mem                         | TM                                 | Enz                   | 35               | 1                         | 58               | 1                         |
| 3-hydroxyacyl-CoA dehydrogenase                  | Q08426                    | 80072      | -0,17          | Org                         |                                    | Enz                   | 28               | 2                         |                  |                           |
| 40S ribosomal protein S14                        | P62263                    | 16434      | -0,51          | Nu                          |                                    | RNA                   |                  |                           | 19               | 1                         |
| 40S ribosomal protein S3;RS3                     | P23396                    | 26842      | -0,16          | Nu                          |                                    | RNA                   |                  |                           | 14               | 1                         |
| 60 kDa heat shock protein, mitochondrial         | P10809                    | 61187      | -0,08          | Org                         |                                    | Bin                   | 136              | 5                         | 40               | 2                         |
| 60S acidic ribosomal protein P2                  | P05387                    | 11658      | -0,23          | Nu                          |                                    | RNA                   |                  |                           | 52               | 2                         |
| 60S ribosomal protein L13a                       | P40429                    | 23619      | -0,49          | Nu                          |                                    | RNA                   |                  |                           | 28               | 1                         |
| 60S ribosomal protein L4                         | P36578                    | 47953      | -0,61          | Nu                          |                                    | RNA                   | 38               | 1                         | 51               | 1                         |
| 60S ribosomal protein L7a                        | P62424                    | 30148      | -0,55          | Nu                          |                                    | RNA                   |                  |                           | 17               | 1                         |
| 6-phosphofructokinase type C                     | Q01813                    | 86454      | -0,14          | Cyt                         |                                    | Enz                   |                  |                           | 14               | 1                         |
| 7-dehydrocholesterol reductase                   | Q9UBM7                    | 55195      | 0,23           | Mem                         | TM                                 | Enz                   | 17               | 1                         |                  |                           |
| Actin-related protein 2/3 complex subunit 5      | O15511                    | 16367      | -0,41          | Cyt                         |                                    | Str                   |                  |                           | 14               | 1                         |
| Acyl carrier protein, mitochondrial              | O14561                    | 17577      | -0,21          | Org                         |                                    | Bin                   | 109              | 1                         |                  |                           |
| Adenosylhomocysteinase                           | P23526                    | 48255      | -0,1           | Cyt                         |                                    | Enz                   | 13               | 1                         |                  |                           |
| Alcohol dehydrogenase 1A                         | P07327                    | 40745      | 0,17           | Cyt                         |                                    | Enz                   | 43               | 1                         |                  |                           |
| Ankyrin-1                                        | P16157                    | 207334     | -0,37          | Org                         |                                    | Str                   |                  |                           | 18               | 2                         |
| Antileukoproteinase                              | P03973                    | 15228      | -0,65          | Ex                          |                                    | Bin                   | 34               | 1                         |                  |                           |
| ATP synthase subunit δ, mitochondrial            | P30049                    | 17479      | 0,25           | Mem                         | PER                                | Enz                   | 266              | 1                         | 19               | 1                         |
| Cadherin-16                                      | O75309                    | 90380      | -0,14          | Mem                         | TM                                 | Rec                   | 69               | 1                         |                  |                           |
| Calcium-activated non-selective cation channel 1 | Q8TD43                    | 135698     | -0,03          | Mem                         | TM                                 | Tr                    | 52               | 1                         |                  |                           |
| Carbonic anhydrase 9                             | Q16790                    | 49952      | -0,5           | Mem                         | TM                                 | Enz                   |                  |                           | 18               | 1                         |
| Carnitine/acylcarnitine translocase              | O43772                    | 33264      | 0,12           | Mem                         | TM                                 | Enz                   | 110              | 2                         |                  |                           |
| CD2 antigen cytoplasmic tail-binding protein 2   | O95400                    | 37737      | -0,82          | Cyt                         |                                    | DNA                   | 28               | 1                         |                  |                           |
| Cellular nucleic acid-binding protein            | P62633                    | 20704      | -0,85          | Cyt                         |                                    | DNA                   | 17               | 1                         |                  |                           |
| Charged multivesicular body protein 3            | Q9Y3E7                    | 25114      | -0,56          | Mem                         | LA                                 | Str                   | 19               | 1                         |                  |                           |
| Charged multivesicular body protein 4a           | Q9BY43                    | 25083      | -0,84          | Mem                         | PER                                | Str                   | 24               | 1                         | 41               | 2                         |

|                                                   | Accession ID | MW     | Gravv | Subcellular | Type of | Molecular | ANK |   | RCC |   |
|---------------------------------------------------|--------------|--------|-------|-------------|---------|-----------|-----|---|-----|---|
| Choline dehydrogenase, mitochondrial              | Q8NE62       | 66058  | -0,34 | Org         |         | Enz       | 28  | 1 |     |   |
| Claudin-2                                         | P57739       | 24932  | 0,55  | Mem         | TM      | Str       |     |   | 22  | 1 |
| Cofilin-1                                         | P23528       | 18719  | -0,37 | Cyt         |         | Str       |     |   | 14  | 1 |
| Coiled-coil domain-containing protein 144A        | A2RUR9       | 166448 | -0,98 | Unk         |         | Unk       | 32  | 1 |     |   |
| Coronin-2A; COR2A                                 | Q92828       | 60239  | -0,43 | Nu          |         | Str       | 15  | 1 |     |   |
| Creatine kinase S-type, mitochondrial             | P17540       | 47988  | -0,52 | Mem         | PER     | Enz       |     |   | 14  | 1 |
| Cytoplasmic dynein 1 heavy chain 1                | Q14204       | 534809 | -0,34 | Cyt         |         | Str       |     |   | 17  | 1 |
| DENN domain-containing protein 2A                 | Q9ULE3       | 114694 | -0,63 | Unk         |         | Tr        | 16  | 1 |     |   |
| Dipeptidyl peptidase 2                            | Q9UHL4       | 54763  | -0,21 | Org         |         | Enz       |     |   | 38  | 1 |
| Dynamin-like 120 kDa protein, form S1             | O60313       | 112131 | -0,59 | Org         |         | Rec       | 15  | 1 | 13  | 1 |
| Dynein heavy chain 3, axonemal                    | Q8TD57       | 473776 | -0,23 | Cyt         |         | Str       | 19  | 3 |     |   |
| EH domain-containing protein 4                    | Q9H223       | 61365  | -0,37 | Mem         | PER     | Bin       |     |   | 16  | 1 |
| Elongation factor 1- $\alpha$ 2                   | Q05639       | 50780  | -0,3  | Nu          |         | Bin       | 265 | 4 |     |   |
| Endothelin-converting enzyme 1                    | P42892       | 87906  | -0,37 | Mem         | TM      | Enz       |     |   | 20  | 1 |
| Eukaryotic initiation factor 4A-II                | Q14240       | 46601  | -0,25 | Cyt         |         | RNA       |     |   | 14  | 1 |
| Eukaryotic peptide chain release factor subunit 1 | P62495       | 49228  | -0,31 | Nu          |         | Bin       | 19  | 2 |     |   |
| Exonuclease 3'-5' domain-containing protein 1     | Q8NHP7       | 58925  | -0,36 | Nu          |         | Enz       |     |   | 19  | 1 |
| Fibronectin                                       | P02751       | 266052 | -0,55 | Ex          |         | Bin       |     |   | 26  | 1 |
| FK506-binding protein 15                          | Q5T1M5       | 134060 | -0,65 | Cyt         |         | Bin       |     |   | 20  | 1 |
| Follitropin subunit $\beta$                       | P01225       | 15602  | -0,34 | Ex          |         | Lig       | 16  | 1 |     |   |
| Four and a half LIM domains protein 1             | Q13642       | 38006  | -0,51 | Cyt         |         | Str       | 19  | 1 |     |   |
| Fructose-bisphosphate aldolase B                  | P05062       | 39961  | -0,23 | Cyt         |         | Enz       | 100 | 1 |     |   |
| G protein G(I)/G(S)/G(O) subunit $\gamma$ -5      | P63218       | 7428   | -0,22 | Mem         | PER     | G-p       |     |   | 23  | 1 |
| Galectin-3                                        | P17931       | 26193  | -0,4  | Nu          |         | Lig       |     |   | 18  | 1 |
| Galectin-9                                        | O00182       | 39835  | -0,16 | Cyt         |         | Lig       |     |   | 29  | 1 |
| Glutamyl aminopeptidase                           | Q07075       | 109689 | -0,39 | Mem         | TM      | Enz       | 13  | 1 |     |   |
| Glycine N-acyltransferase                         | Q6IB77       | 34301  | -0,36 | Org         |         | Enz       | 14  | 1 |     |   |
| Glycoprotein gC1qBP                               | Q07021       | 31742  | -0,69 | Nu          |         | Bin       | 18  | 1 |     |   |
| Golgi pH regulator A                              | B7ZAQ6       | 53167  | 0,55  | Mem         | TM      | Rec       | 17  | 1 |     |   |
| Golgin subfamily A member 7                       | Q7Z5G4       | 16042  | -0,52 | Org         |         | Tr        |     |   | 21  | 1 |

|                                                  | Accession ID | MW     | Gravv   | Subcellular | Type of | Molecular | ANK  |   | RCC |   |
|--------------------------------------------------|--------------|--------|---------|-------------|---------|-----------|------|---|-----|---|
| Heat shock 70 kDa protein 12A                    | O43301       | 75217  | -0,25   | Unk         |         | Bin       | 18   | 1 |     |   |
| Heat shock protein HSP 90-β                      | P08238       | 83554  | -0,68   | Cyt         |         | Bin       |      |   | 34  | 5 |
| Heparan-sulfate 6-O-sulfotransferase 3           | Q8IZP7       | 55550  | -0,62   | Mem         | TM      | Enz       |      |   | 14  | 1 |
| Homeobox protein EMX1                            | Q04741       | 28021  | -0,57   | Nu          |         | DNA       | 14   | 1 |     |   |
| Hydrocephalus-inducing protein homolog           | Q4G0P3       | 580945 | -0,27   | Unk         |         | Unk       | 306  | 3 |     |   |
| Ig lambda-3 chain C regions                      | P0CG06       | 11402  | unknown | Ex          |         | Ag        |      |   | 38  | 1 |
| Ig lambda-6 chain C region                       | P0CF74       | 11441  | unknown | Ex          |         | Ag        | 17   | 1 |     |   |
| Interferon-induced transmembrane protein 1; IFM1 | Q01628       | 14632  | 0,52    | Mem         | TM      | Rec       | 194  | 1 |     |   |
| Interferon-induced transmembrane protein 2       | Q01629       | 14794  | 0,52    | Mem         | TM      | Rec       |      |   | 377 | 1 |
| K+ voltage-gated channel subfamily KQT member 4  | P56696       | 77679  | -0,14   | Mem         | TM      | Tr        | 14   | 1 |     |   |
| LA mannosyltransferase 4                         | Q86VD9       | 64001  | 0,4     | Mem         | LA      | Enz       | 14   | 1 |     |   |
| Laminin subunit α-5                              | O15230       | 412023 | -0,28   | Ex          |         | Str       |      |   | 19  | 1 |
| LIMS1                                            | P48059       | 39108  | -0,35   | Cyt         |         | Str       | 16   | 1 | 13  | 1 |
| Liprin-α-1                                       | Q13136       | 136265 | -0,77   | Mem         | PER     | Unk       |      |   | 14  | 1 |
| Lysozyme C                                       | P61626       | 16982  | -0,48   | Ex          |         | Enz       | 38   | 1 |     |   |
| MHC class I antigen B*53                         | P30491       | 40755  | -0,62   | Mem         | TM      | Ag        |      |   | 36  | 1 |
| MHC class I antigen B*58                         | P10319       | 40597  | -0,62   | Mem         | TM      | Ag        | 18   | 1 |     |   |
| Mitochondrial ABC transporter 3                  | Q9NP58       | 94396  | 0,13    | Mem         | TM      | Tr        |      |   | 20  | 1 |
| Mitochondrial ATP-Mg/Pi carrier protein 1        | Q6NUK1       | 53548  | -0,2    | Mem         | TM      | Tr        | 23   | 1 | 17  | 1 |
| Monocarboxylate transporter 1                    | P53985       | 54593  | 0,34    | Mem         | TM      | Tr        |      |   | 31  | 1 |
| Mucin-1                                          | P15941       | 122200 | -0,5    | Mem         | TM      | Bin       |      |   | 21  | 1 |
| Multidrug and toxin extrusion protein 1          | Q96FL8       | 62680  | 0,64    | Mem         | TM      | Tr        | 23   | 1 |     |   |
| Multidrug and toxin extrusion protein 2          | Q86VL8       | 65955  | 0,6     | Mem         | TM      | Tr        | 83   | 1 |     |   |
| Myomesin-2                                       | P54296       | 166332 | -0,45   | Cyt         |         | Str       | 16   | 1 |     |   |
| Myosin regulatory light chain 12A                | P19105       | 19839  | -0,82   | Cyt         |         | Str       | 189  | 3 | 179 | 3 |
| Na+/glucose cotransporter 4; SC5A9               | Q2M3M2       | 74073  | 0,56    | Mem         | TM      | Tr        | 24   | 1 |     |   |
| Na+/H+ exchange regulatory cofactor NHE-RF3      | Q5T2W1       | 57379  | -0,54   | Mem         | PER     | Str       | 56   | 1 |     |   |
| NADH-cytochrome b5 reductase 3                   | P00387       | 34441  | -0,18   | Mem         | LA      | Enz       | 28   | 1 | 115 | 1 |
| NADH-ubiquinone oxidoreductase SGD1 subunit      | O43674       | 21737  | -0,385  | Mem         | TM      | Enz       | 41   | 2 |     |   |
| NADH-ubiquinone oxidoreductase subunit B14.7     | Q86Y39       | 15071  | 0,18    | Org         |         | Enz       | 1212 | 3 | 28  | 2 |

|                                             | Accession ID | MW     | Gravv | Subcellular | Type of | Molecular | ANK |   | RCC  |   |
|---------------------------------------------|--------------|--------|-------|-------------|---------|-----------|-----|---|------|---|
| Nuclear mitotic apparatus protein 1         | Q14980       | 239199 | -0,91 | Nu          |         | Str       | 27  | 3 |      |   |
| P2X purinoceptor 4                          | Q99571       | 44139  | 0,03  | Mem         | TM      | Rec       | 33  | 1 | 27   | 1 |
| Palmitoyltransferase ZDHHC5                 | Q9C0B5       | 78237  | -0,44 | Mem         | TM      | Enz       |     |   | 13   | 1 |
| Pantothenate kinase 2, mitochondrial        | Q9BZ23       | 63268  | -0,29 | Org         |         | Enz       | 16  | 1 |      |   |
| PAPS transporter 1                          | Q8TB61       | 48054  | 0,43  | Mem         | TM      | Tr        | 70  | 1 |      |   |
| Paralemmin-1                                | O75781       | 42221  | -0,8  | Mem         | LA      | Str       | 19  | 1 |      |   |
| PDE8A                                       | O60658       | 94385  | -0,38 | Cyt         |         | Enz       |     |   | 32   | 1 |
| Peroxisomal acyl-coenzyme A oxidase 1       | Q15067       | 74889  | -0,25 | Org         |         | Enz       | 25  | 1 |      |   |
| Peroxisomal targeting signal 1 receptor     | P50542       | 71163  | -0,53 | Cyt         |         | Rec       | 31  | 2 |      |   |
| PH domain-containing family M member 1      | Q9Y4G2       | 119365 | -0,37 | Cyt         |         | Bin       | 16  | 1 | 15   | 1 |
| Phosphoglucomutase-1                        | P36871       | 61696  | -0,13 | Cyt         |         | Enz       | 24  | 1 |      |   |
| Plasmolipin                                 | Q9Y342       | 20087  | 0,78  | Mem         | TM      | Str       |     |   | 17   | 1 |
| Podocin                                     | Q9NP85       | 42516  | -0,17 | Mem         | TM      | Str       | 54  | 1 |      |   |
| Poly(rC)-binding protein 2                  | Q15366       | 38955  | -0,13 | Nu          |         | RNA       | 17  | 1 |      |   |
| Polymeric immunoglobulin receptor           | P01833       | 84429  | -0,4  | Mem         | TM      | Rec       | 36  | 1 |      |   |
| Polyubiquitin-B                             | P0CG47       | 25803  | -0,48 | Cyt         |         | Bin       | 725 | 2 | 3658 | 3 |
| Probable G-protein coupled receptor 101     | Q96P66       | 57478  | -0,02 | Mem         | TM      | Rec       | 15  | 1 |      |   |
| Progesterone membrane-binding protein       | O15173       | 23861  | -0,49 | Mem         | TM      | Rec       |     |   | 19   | 1 |
| Protein amnionless                          | Q9BXJ7       | 48466  | 0,07  | Mem         | TM      | Unk       | 33  | 1 |      |   |
| Protein disulfide-isomerase                 | P07237       | 57480  | -0,5  | Ex          |         | Enz       |     |   | 15   | 1 |
| Protein lifeguard 3                         | Q969X1       | 34927  | 0,38  | Mem         | TM      | Bin       | 90  | 1 | 71   | 1 |
| Protein lin-7 homolog A                     | O14910       | 26095  | -0,48 | Cyt         |         | Unk       | 14  | 1 |      |   |
| Protein misato homolog 1                    | Q9BUK6       | 62708  | -0,13 | Mem         | PER     | Unk       | 16  | 1 |      |   |
| Protein polybromo-1                         | Q86U86       | 194080 | -0,69 | Nu          |         | DNA       | 19  | 2 |      |   |
| Proteolipid protein 2                       | Q04941       | 17022  | 0,76  | Mem         | TM      | Str       | 28  | 1 | 36   | 1 |
| Proton-coupled amino acid transporter 2     | Q495M3       | 53809  | 0,62  | Mem         | TM      | Tr        | 40  | 1 |      |   |
| PTTG-binding factor                         | P53801       | 21109  | -0,63 | Mem         | TM      | Bin       |     |   | 48   | 1 |
| Putative L-aspartate dehydrogenase          | A6ND91       | 30213  | 0,02  | Cyt         |         | Enz       |     |   | 17   | 1 |
| Putative uncharacterized protein LOC404266  | Q96FJ8       | 5564   | -0,96 | Unk         |         | Unk       | 16  | 1 |      |   |
| Putative $\gamma$ -glutamyltranspeptidase 3 | A6NGU5       | 61919  | 0,05  | Mem         | TM      | Enz       | 232 | 5 |      |   |

|                                                   | Accession ID | MW     | Gravv   | Subcellular | Type of | Molecular | ANK |   | RCC |   |
|---------------------------------------------------|--------------|--------|---------|-------------|---------|-----------|-----|---|-----|---|
| Ragulator complex protein LAMTOR5                 | O43504       | 9779   | -0,02   | Cyt         |         | Unk       |     |   | 20  | 1 |
| Rap1 GTPase-GDP dissociation stimulator 1         | P52306       | 67073  | 0,07    | Mem         | PER     | Bin       |     |   | 13  | 1 |
| Ras-related protein Rab-11A                       | P62491       | 24492  | -0,42   | Mem         | PER     | G-p       | 30  | 1 |     |   |
| Ras-related protein Rab-33B                       | Q9H082       | 26043  | -0,26   | Mem         | LA      | G-p       | 29  | 1 |     |   |
| Reactive oxygen species modulator 1               | P60602       | 8405   | 0,51    | Mem         | TM      | Enz       |     |   | 19  | 1 |
| Regulator of microtubule dynamics protein 3       | Q96TC7       | 52542  | -0,5    | Mem         | TM      | Str       |     |   | 25  | 1 |
| Serine protease HTRA2, mitochondrial              | O43464       | 48868  | -0,001  | Mem         | TM      | Enz       |     |   | 17  | 1 |
| Serine/threonine-protein kinase Nek11             | Q8NG66       | 75000  | -0,6    | Nu          |         | Enz       |     |   | 13  | 1 |
| Serpin H1                                         | P50454       | 46525  | -0,31   | Org         |         | Bin       |     |   | 29  | 1 |
| SIPA1-like protein 2                              | Q9P2F8       | 192371 | -0,55   | Unk         |         | Enz       | 19  | 2 |     |   |
| Sp110 nuclear body protein                        | Q9HB58       | 79600  | -0,78   | Nu          |         | RNA       | 14  | 1 |     |   |
| Spectrin $\beta$ chain, brain 2                   | O15020       | 272526 | -0,65   | Cyt         |         | Str       |     |   | 26  | 2 |
| Sphingosine-1-phosphate phosphatase 1             | Q9BX95       | 49703  | 0,25    | Mem         | TM      | Enz       | 15  | 1 |     |   |
| Splicing factor 3A subunit 1                      | Q15459       | 88888  | -0,73   | Nu          |         | RNA       | 17  | 1 |     |   |
| Sprouty-related, EVH1 domain-containing protein 1 | Q7Z699       | 51756  | -0,69   | Mem         | PER     | Str       | 13  | 1 |     |   |
| Sulfate anion transporter 1; S26A1                | Q9H2B4       | 76051  | 0,39    | Mem         | TM      | Tr        | 21  | 1 |     |   |
| Sulfide:quinone oxidoreductase                    | Q9Y6N5       | 50214  | unknown | Org         |         | Enz       | 35  | 1 |     |   |
| Suppressor of cytokine signaling 5                | O75159       | 62120  | -0,722  | Cyt         |         | Sig       | 36  | 2 |     |   |
| Suprabasin                                        | Q6UWP8       | 60562  | -0,77   | Ex          |         | Str       | 20  | 1 |     |   |
| Syndecan-1                                        | P18827       | 32556  | -0,66   | Mem         | TM      | Str       | 17  | 1 |     |   |
| T-complex protein 1 subunit $\theta$              | P50990       | 60153  | -0,07   | Cyt         |         | Bin       |     |   | 39  | 1 |
| Tenomodulin                                       | Q9H2S6       | 37905  | -0,45   | Mem         | TM      | Lig       | 16  | 1 |     |   |
| Tensin-1                                          | Q9HBL0       | 186499 | -0,55   | Mem         | PER     | Enz       |     |   | 55  | 1 |
| Tensin-3                                          | Q68CZ2       | 156366 | -0,42   | Mem         | PER     | Enz       | 53  | 2 |     |   |
| Tetratricopeptide repeat protein 35               | Q15006       | 34982  | -0,7    | Nu          |         | Unk       | 23  | 1 |     |   |
| Tissue-specific extinguisher 1                    | P10644       | 43183  | -0,43   | Cyt         |         | Bin       |     |   | 15  | 1 |
| TOMM40                                            | O96008       | 38211  | -0,09   | Mem         | TM      | Tr        | 38  | 1 | 14  | 1 |
| Transcription factor HES-1;                       | Q14469       | 29750  | -0,4    | Nu          |         | DNA       | 54  | 2 |     |   |
| Translocon-associated protein subunit $\delta$    | P51571       | 19158  | -0,18   | Mem         | TM      | Tr        | 74  | 1 |     |   |
| Transmembrane protein Tmp21                       | P49755       | 25131  | -0,36   | Mem         | TM      | Tr        |     |   | 19  | 1 |

|                                                  | Accession ID | MW     | Gravv | Subcellular | Type of | Molecular | ANK |   | RCC |   |
|--------------------------------------------------|--------------|--------|-------|-------------|---------|-----------|-----|---|-----|---|
| Tyrosine 3-monooxygenase                         | P07101       | 58963  | -0,36 | Ex          |         | Enz       | 25  | 1 |     |   |
| Tyrosine-protein kinase Lyn                      | P07948       | 58993  | -0,5  | Mem         | LA      | Enz       |     |   | 16  | 1 |
| Tyrosine-protein kinase Yes                      | P07947       | 61276  | -0,41 | Cyt         |         | Enz       | 203 | 5 | 49  | 3 |
| Ubiquitin fusion degradation protein 1 homolog   | Q92890       | 34763  | -0,47 | Nu          |         | Bin       |     |   | 14  | 1 |
| UDP-glucuronosyltransferase 1-9                  | O60656       | 60757  | 0     | Mem         | TM      | Enz       | 134 | 3 |     |   |
| Uncharacterized protein KIAA0947                 | Q9Y2F5       | 250759 | -0,61 | Unk         |         | Unk       |     |   | 13  | 1 |
| UPF0317 protein C14orf159, mitochondrial         | Q7Z3D6       | 67363  | -0,03 | Unk         |         | Unk       |     |   | 16  | 1 |
| UPF0451 protein C17orf61                         | Q8N2U0       | 11848  | 0,41  | Mem         | TM      | Unk       | 540 | 1 |     |   |
| Urocortin-3                                      | Q969E3       | 18007  | 0,44  | Ex          |         | Bin       | 14  | 1 |     |   |
| Vacuolar protein sorting-associated protein 13B  | Q7Z7G8       | 454309 | -0,15 | Mem         | PER     | Tr        | 46  | 2 |     |   |
| Vacuolar protein sorting-associated protein 35   | Q96QK1       | 92447  | -0,3  | Cyt         |         | Tr        |     |   | 13  | 1 |
| VAMP-associated protein A                        | Q9P0L0       | 28103  | -0,46 | Mem         | TM      | Tr        | 15  | 1 |     |   |
| Vesicle transport v-SNARE protein Vti1-like 1    | Q9UEU0       | 26672  | -0,68 | Mem         | TM      | Tr        |     |   | 17  | 2 |
| Vesicle-associated membrane protein 2            | P63027       | 12712  | -0,03 | Mem         | TM      | Tr        | 424 | 1 |     |   |
| Vitamin D-binding protein                        | P02774       | 54526  | -0,41 | Ex          |         | Tr        |     |   | 19  | 1 |
| WD repeat-containing protein 1                   | O75083       | 66836  | -0,24 | Cyt         |         | Str       |     |   | 80  | 1 |
| Zinc finger CCCH-type antiviral protein 1        | Q7Z2W4       | 103135 | -0,59 | Cyt         |         | RNA       |     |   | 37  | 1 |
| Zinc finger SWIM domain-containing protein 1     | Q9BR11       | 55776  | -0,14 | Nu          |         | RNA       | 16  | 1 |     |   |
| β-2-microglobulin                                | P61769       | 13820  | -0,74 | Ex          |         | Ag        | 30  | 1 | 32  | 1 |
| γ-interferon-inducible lysosomal thiol reductase | P13284       | 28572  | -0,04 | Org         |         | Enz       |     |   | 32  | 1 |

Notes: **Subcellular localization** column (by LocDB): Mem, membrane; Cyt, cytoplasm; Ex, extracellular; Org, organelles; Nu, nucleus; Unk, unknown. **Type of membrane interaction** column (by LocDB): TM, transmembrane; LA, lipid-anchored; PER, peripheral. **Molecular function** column (by Panther): Ada, adapter; Ag, antigen binding; Bin, binding; DNA, DNA binding; Enz, enzyme; G-p, G-protein; Lig, ligand; Rec, receptor; RNA, RNA binding; Sig, signaling; Str, structural; Tr, transport; Unk, unknown. **Significant peptides**: peptides with a score higher than 13 (p-value >0.05) were considered significant.