S1 Table. Cotransin-sensitive and non-sensitive secretory and integral membrane proteins detected by SILAC and quantitative mass spectrometry.

The UniProt identification number, ratio of the forward and backward experiment, signal sequence type (Sp or SAS) and signal sequence length are indicated.

### Sensitive integral membrane proteins

| Name of the protein | # UniProt | Ratio H/L for | Ratio H/L rev | Signal sequence | # of AA |
|---------------------|-----------|---------------|---------------|----------------|--------|
| Integral membrane protein 2C | Q8NXX7-1 | 20.746 | 10.168 | SAS | 21 |
| Integral membrane protein 2B | Q9Y287-2 | 12.227 | 5.083 | SAS | 21 |
| HLA class II histocompatibility antigen-gamma chain | P04233-1 | 10.474 | 9.6608 | SAS | 26 |
| Trans-Golgi network integral membrane protein 2 | Q43493-1 | 4.696 | 4.4635 | SP | 21 |
| Transmembrane protein 230 | Q9457-2 | 4.1616 | 4.0131 | SAS | 21 |
| MHC class I antigen | A58L1-1 | 2.9012 | 3.4994 | not specified | 27 |
| Endothelin-converting enzyme 1 | P42892-1 | 3.8418 | 3.2381 | SAS | 21 |
| Acyl-CoA desaturase | O00767 | 3.7245 | 5.0245 | SAS | 22 |
| HLA class I histocompatibility antigen, A-24 alpha chain | P05534 | 3.2443 | 4.2437 | SP | 24 |
| Procollagen-lysine, 2-oxoglutarate 5-dioxygenase 2 | Q00469-2 | 2.3751 | 3.6464 | SAS | 25 |
| Neurotensin receptor 3 | Q95523 | 2.3567 | 1.9949 | SP | 33 |
| Integrin alpha-6 | P23229-1 | 2.1745 | 2.5061 | SAS | 23 |
| Carboxypeptidase D | O75976 | 2.1539 | 2.0951 | SAS | 31 |
| Nodal modulator 2 | Q5JPE7-1 | 1.975 | 2.2119 | SAS | 31 |
| Transmembrane protein 2 | Q9UUH6 | 1.9035 | 2.3061 | SAS | 21 |
| Amyloid-like protein 2 | Q06481-1 | 1.8713 | 1.824 | SAS | 31 |
| Man1A1 protein | Q6P052-1 | 2.7095 | 1.2161 | SAS | 21 |
| Zinc transporter ZIP14 | Q10543-1 | 1.9632 | 1.35 | SP | 30 |
| Synecanch-2 | P34741 | 1.7551 | 1.4943 | SP | 18 |
| Tyrosine-protein kinase-like 7 | Q91192 | 1.4814 | 1.3552 | SAS | 19 |
| Lutheran blood group glycoprotein | P50895 | 1.6274 | 1.9938 | SAS | 31 |
| Melanoma inhibitory activity protein 3 | Q5JRA6-1 | 1.6354 | 1.656 | SAS | 22 |
| Putative uncharacterized protein | Q8N6C5-1 | 1.6106 | 1.9692 | SP | 21 |
| Cysteine-rich fibroblast growth factor receptor | Q95901-1 | 1.8234 | 1.6993 | SAS | 21 |
| Malectin | Q14165 | 1.509 | 1.6275 | SAS | 28 |
| Aminopeptidase N | P15144 | 1.5021 | 1.6839 | SAS | 24 |
| Immunoglobulin superfamily member 1 | Q8N6C5-1 | 1.4825 | 1.8491 | SP | 28 |
| Protein-tyrosine phosphatase-like member B | Q8Y221-1 | 1.4514 | 1.3525 | SAS | 19 |
| Vesicular integral-membrane protein VIP36 | Q12907 | 1.4737 | 1.4328 | SAS | 44 |
| Nicotrin | Q92542-1 | 1.461 | 1.4247 | SAS | 33 |
| Inhibitor of nuclear factor kappa-B kinase-interacting protein | Q70UQ0-4 | 1.4519 | 2.783 | SAS | 17 |
| Protein set-1 homolog 1 | Q8R682-1 | 1.4318 | 2.956 | SAS | 21 |
| Lysosome-associated membrane glycoprotein 1 | Q11279-1 | 1.3968 | 1.386 | SAS | 22 |
| Synaptogyrin-2 | Q92574-1 | 1.3905 | 1.2768 | SAS | 19 |
| Tyrosine-protein kinase receptor ECK | B4DL04 | 1.3612 | 1.7539 | SAS | 22 |
| Integrin alpha-2 | P17301 | 1.3412 | 1.8663 | SAS | 22 |
| Secretory carrier-associated membrane protein 2 | O15127-1 | 1.327 | 1.2852 | SAS | 21 |
| Zinc transporter SLC39A7 | Q92554-1 | 1.3251 | 1.1509 | SAS | 21 |
| Activated leukocyte cell adhesion molecule | Q13740-1 | 1.3225 | 1.1838 | SAS | 27 |
| Transmembrane emp24 domain-containing protein 5 | Q8YSA6 | 1.322 | 1.2993 | SAS | 21 |
| Signal peptidase complex catalytic subunit SEC11A | P67612-1 | 1.3198 | 1.3276 | SAS | 20 |
| Scavenger receptor class B member 1 | Q8WT00-1 | 1.3198 | 1.4335 | SAS | 21 |
| Integrin beta-1 | Q8WUM6 | 1.3187 | 1.3434 | SAS | 20 |
| Transmembrane protein 4 | Q9Y290-1 | 1.2896 | 1.3775 | SAS | 20 |
| Receptor expression-enhancing protein 5 | Q00769 | 1.2528 | 1.0779 | SAS | 21 |
| Synaptobrevin | A8MVP3 | 1.2725 | 1.0188 | SAS | 20 |
| Endoplasmic reticulum stress-response protein 25 | Q7Z7H5-1 | 1.2725 | 1.2331 | SAS | 29 |
| Transmembrane emp24 domain-containing protein 9 | Q8V6R6 | 1.2716 | 1.2101 | SAS | 35 |
| Syntaxin-7 | O15400-1 | 1.2717 | 1.2194 | SAS | 21 |
| Nais(+)K(+)/ATPase alpha-1 subunit | P05023-1 | 1.2554 | 1.4522 | SAS | 21 |
| Transmembrane protein Tmp21 | P49755 | 1.2511 | 1.3358 | SAS | 31 |
| Putative uncharacterized protein KIAA0090 | Q85YS2-1 | 1.2511 | 1.7214 | SAS | 40 |
| Nic-associatied protein 1 | Q91197-1 | 1.2502 | 0.8314 | SAS | 21 |
| Dolichyl-diphosphooligosaccharide-protein glycosyltransferase | P39658 | 1.2485 | 1.2281 | SAS | 22 |
| ER-Golgi intermediate compartment 32 kDa protein | Q969X5-1 | 1.2447 | 1.1686 | SAS | 21 |
| Lectin mannose-binding-2-like | Q9H0V8-2 | 1.2357 | 1.4471 | SAS | 24 |
| Probable ergosterol biosynthetic protein 28 | Q9GUR5 | 1.2325 | 1.1965 | SAS | 21 |
| Signal peptidase complex subunit 1 | Q8YSA9 | 1.2287 | 1.3074 | SAS | 21 |
| Name of the protein                                      | # UniProt | Ratio H/L | Ratio H/L rev | # of AA |
|---------------------------------------------------------|-----------|----------|--------------|--------|
| Carboxypeptidase E                                      | P16870    | 103.21   | 58.579       | 25     |
| Apolipoprotein E                                        | P02649    | 60.761   | 49.176       | 18     |
| Apolipoprotein M                                        | Q95445    | 49.997   | 39.308       | 22     |
| Bactericidal/permeability-increasing protein-like 1     | Q8N4F0    | 75.505   | 58.078       | 20     |
| Alpha-2-antiplasmin                                     | Q8NSU7    | 42.837   | 35.891       | 27     |
| Alpha-fetoprotein                                       | P02771    | 68.33    | 54.42        | 18     |
| Alpha-2-HS-glycoprotein                                 | P02675    | 38.907   | 26.149       | 18     |
| Vitronectin                                             | Q4004     | 4.5056   | 2.594        | 19     |
| Inter-alpha-trypsin inhibitor heavy chain H2            | P16832    | 35.258   | 24.287       | 18     |
| cDNA, FLJ92861                                          | B2R6A4    | 43.042   | 20.586       | 19     |
| Antithrombin-III                                        | P10008    | 29.224   | 19.32        | 32     |
| Carboxypeptidase N subunit 2                            | P22792    | 29.709   | 19.098       | 21     |
| Complement factor B                                     | P00275-1  | 30.38    | 19.069       | 23     |
| Inter-alpha-trypsin inhibitor heavy chain H3            | Q0033-1   | 36.376   | 18.588       | 20     |
| Lysozyme C                                              | P61626    | 24.219   | 18.2         | 18     |
| Complement factor I                                     | P05156    | 29.844   | 18.063       | 18     |
| Alpha-1-antichymotrypsin                                | P01011-2  | 28.2     | 17.207       | 23     |
| Gastricin                                               | P20142    | 32.052   | 16.873       | 16     |
| Apolipoprotein A-1                                      | P02647    | 25.833   | 16.364       | 18     |
| Alpha-2-macroglobulin                                   | P01023    | 21.083   | 16.046       | 23     |
| Complement C3                                           | P01024    | 21.826   | 16.041       | 22     |
| Granulins                                               | P28799-1  | 16.098   | 15.829       | 17     |
| Neuroserpin                                             | Q99574    | 39.699   | 16.569       | 16     |
| Apolipoprotein B-100                                    | P04114    | 28.998   | 15.221       | 27     |
| Growth/differentiation factor 15                        | Q99988    | 18.846   | 13.818       | 25     |
| Thyroxine-binding globulin                              | P05543    | 22.912   | 13.635       | 20     |
| Plasma serine protease inhibitor                        | P00515    | 25.154   | 13.004       | 19     |
| Corticosteroid-binding globulin                         | P08185    | 41.117   | 12.813       | 22     |
| Alpha-1-acid glycoprotein 1                             | P00276    | 22.819   | 12.396       | 18     |
| Alpha-1-acid glycoprotein 2                             | P16832    | 23.063   | 12.345       | 18     |
| Phospholipid transfer protein                           | P50558-1  | 7.8914   | 12.183       | 17     |
| Semaphorin-3B                                           | Q13214-1  | 22.9     | 12.056       | 24     |
| Vitamin K-dependent protein S                           | P07225    | 18.113   | 11.877       | 24     |
| Haptoglobin                                             | P00338    | 18.881   | 10.292       | 18     |
| Ceruloplasmin                                           | P00450    | 7.696    | 7.8334       | 19     |
| Proprotein convertase subtilisin/kexin type 9           | Q8NBP7-1  | 21.324   | 7.7439       | 30     |
| Cystatin-C                                              | P01034    | 13.994   | 7.6667       | 26     |
| Tissue factor pathway inhibitor                         | P10646-1  | 14.077   | 7.2146       | 28     |
| Collagen cross-linking protein                           | P00661    | 12.551   | 7.2521       | 20     |
| Leucine-rich alpha-2-glycoprotein                       | P02750    | 8.4702   | 7.1283       | 35     |
| Plasma alpha-1-antichymotrypsin                         | Q8B3Y2    | 8.5838   | 7.0784       | 28     |
| Protein AMBP                                            | P02750    | 9.5837   | 6.8381       | 19     |
| Ratelucrase T2                                          | A6X9DS    | 12.327   | 6.7654       | 27     |
| Zinc-alpha-2-glycoprotein                               | P25311    | 10.148   | 6.1389       | 20     |
| Fibulin 1                                               | B0QY41    | 10.042   | 6.0488       | 29     |
| Retinol-binding protein 4                               | P02753    | 8.701    | 4.9389       | 18     |
| Serpin peptidase inhibitor, clade D (Heparin cofactor)   | Q8VCO0    | 3.8316   | 3.4365       | 20     |
| Alpha-1B-glycoprotein                                   | A8K052    | 4.4223   | 4.0615       | 21     |
| Insulin-like growth factor II                           | P01344-2  | 4.9995   | 3.0618       | 24     |
| Kallistatin                                             | P29622    | 13.655   | 2.8526       | 20     |
### Insensitive secretory proteins

| Name of the protein | # UniProt | Ratio H/L for | Ratio H/L rev | # of AA |
|---------------------|-----------|---------------|---------------|---------|
| Calumenin           | Q43852-1  | 1.5003        | 1.4336        | 19      |
| Plasminogen activator inhibitor 1 | P05121 | 1.3761 | 1.053 | 23 |

### Upregulated secretory proteins

| Name of the protein | # UniProt | Ratio H/L for | Ratio H/L rev | # of AA |
|---------------------|-----------|---------------|---------------|---------|
| Placental protein 12 | P08833 | 0,10672       | 0,098323      | 25      |