**Supplementary table 1.** Full names, abbreviations, and UniProt numbers are described for 92 analytes included in the Olink® CELL REGULATION panel.

| Analyte                                      | UniProt ID | Description                                                                 |
|----------------------------------------------|------------|------------------------------------------------------------------------------|
| Amphoterin-induced protein 2 (AMIGO2)        | Q86SJ2     | Fibroblast growth factor 21 (FGF21)                                          |
| Amyloid beta A4 precursor protein-binding    | Q7Z5R6     | Friend leukemia integration 1 transcription factor (FLI1)                     |
| family B member 1-interacting protein (APBB1IP) |           |                                                                               |
| Anterior gradient protein 3 (AGR3)           | Q8TD06     | Galectin-7 (LGALS7)                                                          |
| Arylsulfatase B (ARSB)                       | P15848     | Gamma-secretase-activating protein (GSAP)                                     |
| ATP-dependent 6-phosphofructokinase, muscle  | P08237     | Gastrokine (GKN1)                                                            |
| type (PFKM)                                  |            |                                                                               |
| Bcl-2-like protein 11 isoform BimL (BCL2L11)  | O43521     | GDNF family receptor alpha-2 (GFRA2)                                         |
| Beta-1,3-galactosyl-O-glycosylglycoprotein   | Q02742     | Glucagon (GCG)                                                               |
| beta-1,6-N-acetylglucosaminyltransferase (GCNT1) |           |                                                                               |
| Biglycan (BGN)                               | P21810     | Growth hormone variant (GH2)                                                 |
| Bile salt sulfotransferase (SULT2A1)         | Q06520     | Heparan sulfate glucosamine 3-O-sulfotransferase 3B1 (HS3ST3B1)             |
| Breakpoint cluster region protein (BCR)      | P11274     | Heparan-sulfate 6-O-sulfotransferase 1 (HS6ST1)                              |
| Brother of CDO (BOC)                         | Q9BWV1     | Immunoglobulin superfamily member 3 (IGSF3)                                  |
| Calcium/calmodulin-dependent protein kinase  | Q8N5S9     | Interleukin-17 receptor B (IL17RB)                                           |
| kinase 1 (CAMKK1)                            |            |                                                                               |
| Calsyntenin-3 (CLSTN3)                        | Q9BQT9     | Kallikrein-12 (KLK12)                                                        |
| Cell growth-regulating nucleolar protein     | Q9NX58     | Kazal-type serine protease inhibitor domain-containing protein 1 (KAZALD1)   |
| (LYAR)                                       |            |                                                                               |
| Cellular tumor antigen p53 (TP53)            | P04637     | Leucine-rich repeat neuronal protein 1 (LRRN1)                                |
| Cerebral dopamine neurotrophic factor (CDNF) | Q49AH0     | Ly6/PLAUR domain-containing protein 1 (LYPD1)                                |
| Collagen alpha-1(IV) chain (COL4A1)          | P02462     | Lymphoid-restricted membrane protein (LRMP)                                   |
| Cone-rod homeobox protein (CRX)              | O43186     | Methionine aminopeptidase 1D, mitochondrial (METAP1D)                         |
| Cryptic protein (CFC1)                       | P0CG37     | Myelin-oligodendrocyte glycoprotein (MOG)                                    |
| C-type mannose receptor 2 (MRC2)             | Q9UBG0     | N(G),N(G)-dimethylarginine dimethylaminohydrolase 1 (DDAH1)                  |
| Cysteine protease ATG4A (ATG4A)              | Q8WYN0     | NF-kappa-B inhibitor epsilon (NFKBIE)                                         |
| Cysteine-rich secretory protein 2 (CRISP2)   | P16562     | Nicalin (NCLN)                                                               |

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| Protein Name                                      | UniProt ID | Description                                                                 | Entrez ID |
|--------------------------------------------------|------------|------------------------------------------------------------------------------|-----------|
| Dickkopf-like protein 1 (DKKL1)                  | Q9UK85     | N-terminally enriched receptor                                               | Q92982    |
| Discoidin, CUB and LCCL domain-containing protein 2 (DCBLD2) | Q96PD2     | Nuclear factor of activated T-cells, cytoplasmic 1 (NFATC1)                | O95644    |
| DnaJ homolog subfamily B member 1 (DNAJB1)        | P25685     | Oligodendrocyte-myelin glycoprotein (OMG)                                    | P23515    |
| Dual specificity mitogen-activated protein kinase kinase 6 (MAP2K6) | P52564     | Opticin (OPTC)                                                              | Q9UBM4    |
| Dynactin subunit 2 (DCTN2)                       | Q13561     | Peroxisome importin alpha (PRX6)                                            | P30041    |
| E3 ubiquitin-protein ligase CBL (CBL)             | P22681     | Podocalyxin-like protein 2 (PODXL2)                                         | Q9NZ53    |
| Ectonucleoside triphosphate diphosphohydrolase 6 (ENTPD6) | O75354     | Polypeptide N-acetylgalactosaminyltransferase 2 (GALNT2)                    | Q10471    |
| Probable carboxypeptidase X1 (CPXM1)              | Q96SM3     | SLIT and NTRK-like protein 6 (SLITRK6)                                      | Q9H5Y7    |
| Prokineticin-1 (PROK1)                            | Q58294     | Src kinase-associated phosphoprotein 1 (SKAP1)                               | Q86WV1    |
| Prolactin regulatory element-binding protein (PREB) | Q9HC5      | Syntaxin-6 (STX6)                                                           | O43752    |
| Protein FAM19A5 (FAM19A5)                        | Q7Z5A7     | Syntaxin-16 (STX16)                                                         | O14662    |
| Protein Wnt-9a (WNT9A)                           | O14904     | T-cell leukemia/lymphoma protein 1B (TCL1B)                                 | O95988    |
| Protocadherin-17 (PCDH17)                        | O14917     | Transcription factor AP-1 (JUN)                                              | P05412    |
| Ras GTPase-activating-like protein IQGAP2 (IQGAP2) | Q13576     | Transforming acidic coiled-coil-containing protein 3 (TACC3)                | Q9Y6A5    |
| Regulator of G-protein signaling 8 (RGS8)        | P57771     | Tudor and KH domain-containing protein (TDRK1)                              | Q9Y2W6    |
| Rho GTPase-activating protein 1 (ARHGAP1)        | Q07960     | Tumor necrosis factor receptor superfamily member 10A (TNFRSF10A)          | O00220    |
| Rho guanine nucleotide exchange factor 12 (ARHGEF12) | Q9NZN5     | Tumor-associated calcium signal transducer 2 (TACSTD2)                      | P09758    |
| Seizure 6-like protein 2 (SEZ6L2)                | Q6UXD5     | Vascular endothelial growth factor D (VEGF)                                  | O43915    |
| Semaphorin-4C (SEMA4C)                           | Q9C0C4     | Vesicle-associated membrane protein 5 (VAM5)                                 | O95183    |
| Serine/threonine-protein kinase PAK 4 (PAK4)     | O96013     | VPS10 domain-containing receptor SorCS2 (SORCS2)                            | Q96PQ0    |
| Sialic acid-binding Ig-like lectin 10 (SIGLEC10) | Q96LC7     | Wiskott-Aldrich syndrome protein family member 1 (WASF1)                    | Q92558    |
| Sialic acid-binding Ig-like lectin 6 (SIGLEC6)   | O43699     | Wiskott-Aldrich syndrome protein family member 3 (WASF3)                    | Q9UPY6    |
| SLAM family member 8 (SLAMF8)                    | Q9P0V8     | Zinc finger and BTB domain-containing protein 16 (ZBTB16)                    | Q05516    |
| SLIT and NTRK-like protein 2 (SLITRK2)           | Q9H156     | Zinc finger and BTB domain-containing protein 17 (ZBTB17)                    | Q13105    |
