

**Supplementary Table S1.** List of proteins analyzed by LC-MS/MS

| Protein           | Precursor peptide (Seq.) | z | m/z       | R. T. | L. P.     | N. F. | Fragmented Ions (Sequence, z, m/z)                                            |
|-------------------|--------------------------|---|-----------|-------|-----------|-------|-------------------------------------------------------------------------------|
| SOD2              | GDVTTQVALQPALK           | 2 | 721332431 | 9,89  | 75-88     | 3     | QVALQPALK, 1,967593492 – VALQPALK, 1, 839534915 – VALQPALK, 1, 740466501      |
| KI67              | ESGELSEGSEK              | 2 | 576578481 | 9,44  | 869-879   | 3     | GELSEGSEK, 1, 935431632 - LSEGSEK, 1, 749367575 - SEGSEK, 1, 636283511        |
| Hur               | DANLYISGLPR              | 2 | 610190766 | 13,04 | 104-114   | 3     | LYISGLPR, 1, 918540728 - YISGLPR, 1, 805456664 - YISGLPR, 1, 642393336        |
| Syn1              | GSHSQSSSPGALTLGR         | 3 | 514884429 | 4,82  | 430-445   | 3     | PGALTLGR, 1, 784467563 - GALTLGR, 1, 6874148 - LTLGR, 1, 559356222            |
| Glast             | TTTNVLGDSL GAGIVEHLSR    | 3 | 681089923 | 17,4  | 479-498   | 3     | GAGIVEHLSR, 1, 1038569068 - GIVEHLSR, 1, 910510491 - VEHLR, 1, 740404963      |
| MAP2              | LINQPLPDLK               | 2 | 576195121 | 11,21 | 1662-1671 | 3     | NQPLPDLK, 1, 924514908 - QPLPDLK, 1, 81047198 - PLPDLK, 1, 682413403          |
| NeuN              | GFGFVTFENSADADR          | 2 | 817354996 | 16,1  | 155-159   | 2     | TFENSADADR, 1, 1125480707 - FENSADADR, 1, 1024433028 - ENSADADR, 1, 877364615 |
| Nestin            | ADDELAALR                | 2 | 487529636 | 8,25  | 55-63     | 3     | DDELAALR, 1, 902457787 - ELAALR, 1, 672403901 - LAALR, 1, 543361307           |
| DCX               | GNPSAAAGPK               | 2 | 435477076 | 5,6   | 275-284   | 3     | NPSAAAGPK, 1, 812426093 – SAAAGPK, 1, 601330401 – AAGPK, 1, 443261259         |
| BDNF              | DADLYTSR                 | 2 | 470993071 | 12,79 | 87-94     | 3     | DLYTSR, 1, 754372994 - LYTSR, 1, 639346051 - YTSR, 1, 526261987 -             |
| MCM2              | GLALALFGGEPK             | 2 | 587198031 | 14,62 | 493-504   | 3     | LALFGGEPK, 1, 931524744 - LFGGEPK, 1, 747403566 - FGGEK, 1, 634319502         |
| VDAC              | LTFDSSFSPNTGK            | 2 | 701256486 | 10,92 | 109-121   | 3     | DSSFSPNTGK, 1, 103946908 - SSFSPNTGK, 1, 924442137 - FSPNTGK, 1, 75037808 -   |
| $\alpha$ -tubulin | AVFVDLEPTVIDEVR          | 2 | 851970081 | 19,13 | 64-78     | 3     | EPTVIDEVR, 1, 1057552415 – PTVIDEVR, 1, 928509822 – VIDEVR, 1, 73040938       |

Note: R.T. = Retention time (minutes); L. P. = Location on protein; N. F. = Number of fragments.