**Supplemental Table S2.** The aggregome of untreated or I-Hg-induced neural SHSY5Y cells as identified by mass spectrometric analysis.

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| **SH-SY5Y ground state** |  | **SH-SY5Y 4h I-Hg-induced** |
| **entry name** | **protein name** |  | **entry name** | **protein name** |
| CBX1\_HUMAN | Chromobox protein homolog 1 |  | ACTB\_HUMAN | Actin, cytoplasmic 1 |
| DDX5\_HUMAN | Probable ATP-dependent RNA helicase DDX5 |  | CBX3\_HUMAN | Chromobox protein homolog 3 |
| H12\_HUMAN | Histone H1.2 |  | DDX3X\_HUMAN | ATP-dependent RNA helicase DDX3X |
| H15\_HUMAN | Histone H1.5 |  | DHX9\_HUMAN | ATP-dependent RNA helicase A |
| H2A2A\_HUMAN | Histone H2A type 2-A |  | EF1A1\_HUMAN | Elongation factor 1-alpha 1 |
| H2AV\_HUMAN | Histone H2A.V |  | ELAV1\_HUMAN | ELAV-like protein 1 |
| H2B1D\_HUMAN | Histone H2B type 1-D |  | FUBP1\_HUMAN | Far upstream element-binding protein 1 |
| H2B1H\_HUMAN | Histone H2B type 1-H |  | FUBP2\_HUMAN | Far upstream element-binding protein 2 |
| H31\_HUMAN | Histone H3.1 |  | FUS\_HUMAN | RNA-binding protein FUS |
| H33\_HUMAN | Histone H3.3 |  | FUSIP\_HUMAN | FUS-interacting serine-arginine-rich protein 1 |
| H4\_HUMAN | Histone H4 |  | G3P\_HUMAN | Glyceraldehyde-3-phosphate dehydrogenase |
| HNRDL\_HUMAN | Heterogeneous nuclear ribonucleoprotein D-like |  | H13\_HUMAN | Histone H1.3 |
| HNRPC\_HUMAN | Heterogeneous nuclear ribonucleoproteins C1/C2 |  | H2A1A\_HUMAN | Histone H2A type 1-A |
| HNRPD\_HUMAN | Heterogeneous nuclear ribonucleoprotein D0 |  | H2A1C\_HUMAN | Histone H2A type 1-C |
| HNRPG\_HUMAN | Processed heterogeneous nuclear ribonucleoprotein G |  | H2AY\_HUMAN | Core histone macro-H2A.1 |
| HNRPK\_HUMAN | Heterogeneous nuclear ribonucleoprotein K |  | H2B1B\_HUMAN | Histone H2B type 1-B |
| HNRPM\_HUMAN | Heterogeneous nuclear ribonucleoprotein M |  | HNRH1\_HUMAN | Heterogeneous nuclear ribonucleoprotein H |
| HNRPR\_HUMAN | Heterogeneous nuclear ribonucleoprotein R |  | HNRH3\_HUMAN | Heterogeneous nuclear ribonucleoprotein H3 |
| HNRPU\_HUMAN | Heterogeneous nuclear ribonucleoprotein U |  | HNRPL\_HUMAN | Heterogeneous nuclear ribonucleoprotein L |
| HS90A\_HUMAN | Heat shock protein HSP 90-alpha |  | HNRPQ\_HUMAN | Heterogeneous nuclear ribonucleoprotein Q |
| MATR3\_HUMAN | Matrin-3 |  | HP1B3\_HUMAN | Heterochromatin protein 1-binding protein 3 |
| PARP1\_HUMAN | Poly [ADP-ribose] polymerase 1 |  | HSP7C\_HUMAN | Heat shock cognate 71 kDa protein |
| PCBP1\_HUMAN | Poly(rC)-binding protein 1 |  | K2C1\_HUMAN | Keratin, type II cytoskeletal 1 |
| PPIA\_HUMAN | Peptidyl-prolyl cis-trans isomerase A |  | LMNB1\_HUMAN | Lamin-B1 |
| ROA1\_HUMAN | Heterogeneous nuclear ribonucleoprotein A1 |  | MIF\_HUMAN | Macrophage migration inhibitory factor |
| ROA2\_HUMAN | Heterogeneous nuclear ribonucleoproteins A2/B1 |  | NONO\_HUMAN | Non-POU domain-containing octamer-binding protein |
| SFPQ\_HUMAN | Splicing factor, proline- and glutamine-rich |  | NPM\_HUMAN | Nucleophosmin |
| SFRS1\_HUMAN | Splicing factor, arginine/serine-rich 1 |  | NUCL\_HUMAN | Nucleolin |
| SFRS3\_HUMAN | Splicing factor, arginine/serine-rich 3 |  | PGK1\_HUMAN | Phosphoglycerate kinase 1 |
| SFRS7\_HUMAN | Splicing factor, arginine/serine-rich 7 |  | PROF1\_HUMAN | Profilin-1 |
| TBA1A\_HUMAN | Tubulin alpha-1A chain |  | PSIP1\_HUMAN | PC4 and SFRS1-interacting protein |
| TBB5\_HUMAN | Tubulin beta chain |  | PTBP1\_HUMAN | Polypyrimidine tract-binding protein 1 |
| VGF\_HUMAN | Neurosecretory protein VGF |  | RALY\_HUMAN | RNA-binding protein Raly |
|  |  |  | RBM39\_HUMAN | RNA-binding protein 39 |
|  |  |  | RUVB1\_HUMAN | RuvB-like 1 |
|  |  |  | SRP14\_HUMAN | Signal recognition particle 14 kDa protein |
|  |  |  | TBB1\_HUMAN | Tubulin beta-1 chain |
|  |  |  | TBB2C\_HUMAN | Tubulin beta-2C chain |
|  |  |  | THOC4\_HUMAN | THO complex subunit 4 |
|  |  |  | TIF1B\_HUMAN | Transcription intermediary factor 1-beta |
|  |  |  | TPIS\_HUMAN | Triosephosphate isomerase |
|  |  |  | U2AF2\_HUMAN | Splicing factor U2AF 65 kDa subunit |
|  |  |  | UBIQ\_HUMAN | Ubiquitin |