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## 8. Abbreviation

|                  |   |
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| aa               | amino acid                                  |
| Bp               | base pairs                                  |
| BrdUTP (BrdU)    | 5'-bromo-2'-deoxyuridine triphosphate       |
| BSA              | bovine serum albumin                        |
| cDNA             | complementary DNA                           |
| Chr21            | chromosome 21                               |
| Cy3              | Cyanine 3                                   |
| Cy5              | Cyanine 5                                   |
| DAPI             | 4',6-Diamidino-2-phenylindole               |
| DMEM             | Dulbecco's modified eagle medium            |
| DMF              | dimethylformamide                           |
| DNA              | deoxyribonucleic acid                       |
| DSCR             | Down's syndrome critical region             |
| dUTP             | 2'-deoxyuridine 5'-triphosphate             |
| eGFP             | enhanced green fluorescent protein          |
| ER               | endoplasmic reticulum                       |
| F-actin          | filamentous actin                           |
| FITC             | fluoroisothiocyanate                        |
| FLICA            | fluorochrome-labeled inhibitors of caspases |
| GFP              | green fluorescent protein                   |
| Hek293T          | human embryonic kidney cells                |
| HeLa             | human cervical cancer cells                 |
| His <sub>6</sub> | 6×Histidine                                 |
| hnRNP A3         | heterogeneous nuclear ribonucleoprotein A3; |
| kDa              | kiloDalton                                  |
| LAMP2            | lysosome-associated membrane glycoprotein 2 |
| mTP              | mitochondrial targeting peptide             |
| NLS              | nuclear localization signal                 |

|       |                                      |
|-------|--------------------------------------|
| ORF   | open reading frame                   |
| PARP  | poly(ADP-ribose) polymerase          |
| PBS   | phosphate- buffered saline           |
| PCR   | polymerase chain reaction            |
| PDI   | protein disulfide isomerase          |
| RNA   | ribonucleic acid                     |
| RNAi  | RNA interference                     |
| shRNA | short hairpin RNA                    |
| siRNA | small interfering RNA                |
| SP    | signal peptide                       |
| TCA   | transfected cell array               |
| TdT   | terminal deoxynucleotidyltransferase |
| tRNA  | transfer ribonucleic acid            |
| TUNEL | TdT-mediated dUTP nick end labeling  |