Supplementary Table 1. The genes of GOBP\_ERAD\_PATHWAY.

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| TERM | GENE |
| GOBP\_ERAD\_PATHWAY | AMFR |
| GOBP\_ERAD\_PATHWAY | ANKZF1 |
| GOBP\_ERAD\_PATHWAY | AQP11 |
| GOBP\_ERAD\_PATHWAY | ATF6 |
| GOBP\_ERAD\_PATHWAY | ATXN3 |
| GOBP\_ERAD\_PATHWAY | AUP1 |
| GOBP\_ERAD\_PATHWAY | BAG6 |
| GOBP\_ERAD\_PATHWAY | BCAP31 |
| GOBP\_ERAD\_PATHWAY | BRSK2 |
| GOBP\_ERAD\_PATHWAY | CALR |
| GOBP\_ERAD\_PATHWAY | CALR3 |
| GOBP\_ERAD\_PATHWAY | CANX |
| GOBP\_ERAD\_PATHWAY | CAV1 |
| GOBP\_ERAD\_PATHWAY | CCDC47 |
| GOBP\_ERAD\_PATHWAY | CLGN |
| GOBP\_ERAD\_PATHWAY | DERL1 |
| GOBP\_ERAD\_PATHWAY | DERL2 |
| GOBP\_ERAD\_PATHWAY | DERL3 |
| GOBP\_ERAD\_PATHWAY | DNAJB12 |
| GOBP\_ERAD\_PATHWAY | DNAJB2 |
| GOBP\_ERAD\_PATHWAY | DNAJB9 |
| GOBP\_ERAD\_PATHWAY | DNAJC10 |
| GOBP\_ERAD\_PATHWAY | ECPAS |
| GOBP\_ERAD\_PATHWAY | EDEM1 |
| GOBP\_ERAD\_PATHWAY | EDEM2 |
| GOBP\_ERAD\_PATHWAY | EDEM3 |
| GOBP\_ERAD\_PATHWAY | ERLEC1 |
| GOBP\_ERAD\_PATHWAY | ERLIN1 |
| GOBP\_ERAD\_PATHWAY | ERLIN2 |
| GOBP\_ERAD\_PATHWAY | FAF1 |
| GOBP\_ERAD\_PATHWAY | FAF2 |
| GOBP\_ERAD\_PATHWAY | FAM8A1 |
| GOBP\_ERAD\_PATHWAY | FBXO17 |
| GOBP\_ERAD\_PATHWAY | FBXO2 |
| GOBP\_ERAD\_PATHWAY | FBXO27 |
| GOBP\_ERAD\_PATHWAY | FBXO44 |
| GOBP\_ERAD\_PATHWAY | FBXO6 |
| GOBP\_ERAD\_PATHWAY | FOXRED2 |
| GOBP\_ERAD\_PATHWAY | GET4 |
| GOBP\_ERAD\_PATHWAY | HERPUD1 |
| GOBP\_ERAD\_PATHWAY | HM13 |
| GOBP\_ERAD\_PATHWAY | HSP90B1 |
| GOBP\_ERAD\_PATHWAY | HSPA5 |
| GOBP\_ERAD\_PATHWAY | JKAMP |
| GOBP\_ERAD\_PATHWAY | MAN1A1 |
| GOBP\_ERAD\_PATHWAY | MAN1B1 |
| GOBP\_ERAD\_PATHWAY | MARCHF6 |
| GOBP\_ERAD\_PATHWAY | NCCRP1 |
| GOBP\_ERAD\_PATHWAY | NFE2L2 |
| GOBP\_ERAD\_PATHWAY | NGLY1 |
| GOBP\_ERAD\_PATHWAY | NPLOC4 |
| GOBP\_ERAD\_PATHWAY | OS9 |
| GOBP\_ERAD\_PATHWAY | PRKN |
| GOBP\_ERAD\_PATHWAY | PSMC6 |
| GOBP\_ERAD\_PATHWAY | RCN3 |
| GOBP\_ERAD\_PATHWAY | RHBDD1 |
| GOBP\_ERAD\_PATHWAY | RHBDD2 |
| GOBP\_ERAD\_PATHWAY | RNF103 |
| GOBP\_ERAD\_PATHWAY | RNF121 |
| GOBP\_ERAD\_PATHWAY | RNF139 |
| GOBP\_ERAD\_PATHWAY | RNF175 |
| GOBP\_ERAD\_PATHWAY | RNF185 |
| GOBP\_ERAD\_PATHWAY | RNF5 |
| GOBP\_ERAD\_PATHWAY | RNFT1 |
| GOBP\_ERAD\_PATHWAY | RNFT2 |
| GOBP\_ERAD\_PATHWAY | SDF2L1 |
| GOBP\_ERAD\_PATHWAY | SEC61B |
| GOBP\_ERAD\_PATHWAY | SEL1L |
| GOBP\_ERAD\_PATHWAY | SEL1L2 |
| GOBP\_ERAD\_PATHWAY | SELENOS |
| GOBP\_ERAD\_PATHWAY | SGTA |
| GOBP\_ERAD\_PATHWAY | STT3B |
| GOBP\_ERAD\_PATHWAY | STUB1 |
| GOBP\_ERAD\_PATHWAY | SVIP |
| GOBP\_ERAD\_PATHWAY | SYVN1 |
| GOBP\_ERAD\_PATHWAY | TMEM129 |
| GOBP\_ERAD\_PATHWAY | TMEM259 |
| GOBP\_ERAD\_PATHWAY | TMEM67 |
| GOBP\_ERAD\_PATHWAY | TMUB1 |
| GOBP\_ERAD\_PATHWAY | TMUB2 |
| GOBP\_ERAD\_PATHWAY | TOR1A |
| GOBP\_ERAD\_PATHWAY | TRIM13 |
| GOBP\_ERAD\_PATHWAY | TRIM25 |
| GOBP\_ERAD\_PATHWAY | UBAC2 |
| GOBP\_ERAD\_PATHWAY | UBE2G2 |
| GOBP\_ERAD\_PATHWAY | UBE2J1 |
| GOBP\_ERAD\_PATHWAY | UBE2J2 |
| GOBP\_ERAD\_PATHWAY | UBE4A |
| GOBP\_ERAD\_PATHWAY | UBE4B |
| GOBP\_ERAD\_PATHWAY | UBQLN1 |
| GOBP\_ERAD\_PATHWAY | UBQLN2 |
| GOBP\_ERAD\_PATHWAY | UBXN1 |
| GOBP\_ERAD\_PATHWAY | UBXN10 |
| GOBP\_ERAD\_PATHWAY | UBXN4 |
| GOBP\_ERAD\_PATHWAY | UBXN6 |
| GOBP\_ERAD\_PATHWAY | UBXN8 |
| GOBP\_ERAD\_PATHWAY | UFD1 |
| GOBP\_ERAD\_PATHWAY | UGGT1 |
| GOBP\_ERAD\_PATHWAY | UGGT2 |
| GOBP\_ERAD\_PATHWAY | UMOD |
| GOBP\_ERAD\_PATHWAY | USP13 |
| GOBP\_ERAD\_PATHWAY | USP14 |
| GOBP\_ERAD\_PATHWAY | USP19 |
| GOBP\_ERAD\_PATHWAY | USP25 |
| GOBP\_ERAD\_PATHWAY | VCP |
| GOBP\_ERAD\_PATHWAY | WFS1 |
| GOBP\_ERAD\_PATHWAY | XBP1 |
| GOBP\_ERAD\_PATHWAY | YOD1 |