Supplementary Table 2: List of data sets used for ATF4 and clSR gene signatures in the GSEA.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Source** | **doi** | **Description** | **Gene\_count** |
| **Han\_ATF4\_targets** | Han et al., 2013, Nat. Cell. Biol. | 10.1038/ncb2738 | List of ATF4 and CHOP target genes that have binding peaks within 3kb from TSS of annotated gene.”, Select genes with “Overlap=Common OR ATF4\_Only” | 472 |
| **Han\_CHOP\_targets** | Han et al., 2013, Nat. Cell. Biol. | 10.1038/ncb2738 | List of ATF4 and CHOP target genes that have binding peaks within 3kb from TSS of annotated gene.”, Select genes with “Overlap=Common OR CHOP\_Only” | 321 |
| **Han\_ATF4\_CHOP\_Common\_targets** | Han et al., 2013, Nat. Cell. Biol. | 10.1038/ncb2738 | List of ATF4 and CHOP target genes that have binding peaks within 3kb from TSS of annotated gene.”, Select genes with “Overlap=Common” | 218 |
| **Guan\_ER\_Prot\_Proc\_Pathway** | Guan et al., 2017, Mol. Cell. | 10.1016/j.molcel.2017.11.007 |  “ER protein processing pathway (35 genes) identified from Tg:16h vs. Tg:1h genome-wide analysis” | 34 |
| **Guan\_Congruent\_Up\_16h** | Guan et al., 2017, Mol. Cell. | 10.1016/j.molcel.2017.11.007 | Get on request | 546 |
| **Guan\_Translation\_Up\_1h** | Guan et al., 2017, Mol. Cell. | 10.1016/j.molcel.2017.11.007 | Get on request | 1336 |
| **C2\_KEGG** | Broad Institute | <https://www.gsea-msigdb.org/gsea/index.jsp> | KEGG Pathway | 186 Pathways |