

| Unique ID | Plasmid Name                         | Description                                                       | Reference           | First appearance | Label in figure    |
|-----------|--------------------------------------|-------------------------------------------------------------------|---------------------|------------------|--------------------|
| 527       | FLAGM1_roGFP_iE_pCDNA3               | Mammalian expression, ER-localised roGFPiE                        | PMID: 23589496      | 1A               | ERroGFPiE          |
| 355       | roGFP_iE_PQE30                       | Bacterial expression roGFPiE                                      | PMID: 18652491      | 1B               | roGFPiE            |
| 233       | hPDI(18-508)pTrcHis-A                | Bacterial expression of human PDI1A                               | PMID: 21145486      | 1B               | PDI                |
| 221       | mERO1a(43-464).pGS                   | Bacterial expression of mouse ERO1 alpha                          | PMID: 20442408      | 1D               | ERO1               |
| 887       | hPDI_WT_mCherry_KDEL-N3              | Mammalian expression of a human PDI1A-mCherry_KDEL fusion protein | This paper          | 2B               | PDI-mCherry        |
| 888       | pFLAG_mCherry_KDEL_CMV1              | Mammalian expression of FLAG M1-tagged ER-localised mCherry-KDEL  | This paper          | 2E               | ERmCherry          |
| 1032      | rCRT_18_405_HA_EGFP_KDEL_V2_pGEX_TEV | Bacterial expression rat calreticulin fused to EGFP               | This paper          | 3A               | CRT-GFP            |
| 1033      | hPDI_18-505_mCherry_pGV67            | Bacterial expression PDI1A-mCherry fusion protein                 | This paper          | 3A               | PDI-mCherry        |
| 906       | mCherry_TEV_PQE10                    | Bacterial expression of mCherry                                   | This paper          | 3B               | mCherry            |
| 700       | D1ER_Cameleon_pCDNA3                 | Mammalian expression of ER-targeted D1 Cameleon                   | PMID: 15585581      | 4A               | D1ER Cameleon      |
| 880       | pmCherry_N3                          | Mamalian expression of mCherry                                    | Clontech            | 4B               | mCherry            |
| 20        | pEGFP-C1                             | Mamalian expression of EGFP                                       | Clontech            | 4B               | GFP                |
| 1401      | mCherry17aaGFP                       | Mammalian expression of an EGFP-mCherry fusion protein            | PMID: 18770849      | 4C               | GFP-mCherry fusion |
| 699       | CRT_GFP                              | Mammalian expression of GFP tagged rat calreticulin               | PMID: 16617114      | 4D               | CRT-GFP            |
| 1280      | mERdj5_1-789_mCherry_KDEL_N3         | Mammalian expression mouse ERdj5-mCherry fusion protein           | This paper          | 6A               | ERdj5-mCherry      |
| 1208      | hPDIshRNA_pIKO1_296736               | <a href="#">Sigma mission shRNA against human PDI clone1</a>      | Sigma mission shRNA | 7A               | sh1                |
| 1209      | hPDIshRNA_pIKO1_290651               | <a href="#">Sigma mission shRNA against human PDI clone2</a>      | Sigma mission shRNA | 7A               | sh2                |
| 1210      | hPDIshRNA_pIKO1_296675               | <a href="#">Sigma mission shRNA against human PDI clone3</a>      | Sigma mission shRNA | 7A               | sh3                |
| 1211      | hPDIshRNA_pIKO1_49194                | <a href="#">Sigma mission shRNA against human PDI clone4</a>      | Sigma mission shRNA | 7A               | sh4                |
| 1212      | hPDIshRNA_pIKO1_49197                | <a href="#">Sigma mission shRNA against human PDI clone5</a>      | Sigma mission shRNA | 7A               | sh5                |

**Table S1.** Table listing the plasmids used in this study, their unique lab identification number, name, description, published reference and a notation of their first appearance in the figures.