

Table S9 Plasmids used in this study

Name	Description	Source
pMW346	ppCPY <i>LEU2</i> pRS315	[1]
pCPY-A	SDM of pMW346 Alanine inserted at position 2 of signal sequence	This study
pCPY-C	SDM of pMW346 Cysteine inserted at position 2 of signal sequence	This study
pCPY-E	SDM of pMW346 Glutamate inserted at position 2 of signal sequence	This study
pCPY-G	SDM of pMW346 Glycine inserted at position 2 of signal sequence	This study
pCPY-R	SDM of pMW346 Arginine inserted at position 2 of signal sequence	This study
pCPY-S	SDM of pMW346 Serine inserted at position 2 of signal sequence	This study
pCPY-V	SDM of pMW346 Valine inserted at position 2 of signal sequence	This study
pOPY	pMW346 modified so that Ost1 signal sequence replaced that of CPY	This study
pOPY-A	SDM of pOPY Alanine inserted at position 2 of signal sequence	This study
pOPY-C	SDM of pOPY Cysteine inserted at position 2 of signal sequence	This study
pOPY-E	SDM of pOPY Glutamate inserted at position 2 of signal sequence	This study
pOPY-G	SDM of pOPY Glycine inserted at position 2 of signal sequence	This study
pOPY-S	SDM of pOPY Serine inserted at position 2 of signal sequence	This study
pPDI-myc	pMW346 with CPY ORF replaced with C-terminal myc-tagged <i>PDI1</i>	This study
pPDI-myc-S	pMW346 with CPY ORF replaced with C-terminal myc-tagged <i>PDI1</i> -MS mutant	This study
pPDI-myc-E	pMW346 with CPY ORF replaced with C-terminal myc-tagged <i>PDI1</i> -ME mutant	This study
pPP α F-2myc	pMW346 with CPY ORF replaced with C-terminal 2xmyc-tagged pp α F	This study
pPP α F-2myc-S	pMW346 with CPY ORF replaced with C-terminal 2xmyc-tagged pp α F ME mutant	This study
pA11-K5K14	K5 pp α F in pAlter, all lysines codons in <i>wild-type</i> pp α F altered to arginine and lysines introduced at positions 5 and 14 of signal sequence	[2]
pEH3	pGEM3-pp α F	[3]
pGF22	pGEM3-pp α F with all lysines codons in <i>wild-type</i> pp α F altered to arginine	This study
pGF23	pGF22 cut Sall klenow filled and relegated to remove one HincII site	This study
pGF24	O- α Factor pGF22 signal sequence of pp α F replaced with that of OST1	This study
pGF25	As pGF24 except for insertion of serine at position 2 of OST1 signal sequence	This study
pGF28	As for pGF22 but with the signal sequence replaced by that of D _{HC} from pJD96	This study
pJD96	p-D _{HC} α F (codon-bias optimised)	[4]

References

[1] Willer M, Forte GM, Stirling CJ (2008) Sec61p is required for ERAD-L: genetic dissection of the translocation and ERAD-L functions of Sec61p using novel derivatives of CPY. *J Biol Chem.* 283: 33883-33888.

[2] Plath K, Mothes W, Wilkinson BM, Stirling CJ, Rapoport TA (1998) Signal sequence recognition in posttranslational protein transport across the yeast ER membrane. *Cell* 94: 795-807.

[3] Steel GJ, Brownsword J, Stirling CJ (2002) Tail-Anchored Protein Insertion into Yeast ER requires Novel a Posttranslational Mechanism Which is Independent of the SEC Machinery. *Biochemistry* 41: 11914-11920.

[4] Mason N, Ciuffo LF, Brown JD (2000) Elongation arrest is a physiologically important function of the signal recognition particle. *EMBO J.* 19: 4164-4174.