

Table S4. Biophysical attributes of purified proteins from the ProtParam tool (Gasteiger et al, 2005; <https://web.expasy.org/protparam/>).

Protein produced	Molecular weight (Da)	Extinction coefficient ( $M^{-1} \text{ cm}^{-1}$ )
H <sub>6</sub> -Ero1 $\alpha$ -PDI	108502.3	115960
H <sub>6</sub> -Ero1 $\alpha$ C104/131A-PDI	108438.1	115835
H <sub>6</sub> -Ero1 $\alpha$ C166A	53045.0	70205
H <sub>6</sub> -Ero1 $\alpha$ C208/241A	53012.9	70080
H <sub>6</sub> -Ero1 $\beta$ -PDI	106703.7	117450
H <sub>6</sub> -Ero1 $\beta$ C100/130A-PDI	106639.6	117325
H <sub>6</sub> -PDI (D18-L508)	56379.2	45755
H <sub>6</sub> -PDIp (Q22-L525)	56919.4	44140
H <sub>6</sub> -ERp57 (S25-L505)	55350.4	45185
H <sub>6</sub> -ERp46 (R33-L432, natural variant R354K)	45545.1	69620
H <sub>6</sub> -ERp72 (V21-L645)	71756.7	68105
H <sub>6</sub> -P5 (L20-L440)	46170.9	71765
H <sub>6</sub> -Erv1p (M1-H189)	22593.5	42315
PDI (D18-L508) <sup>a</sup>	55649.4	45755
PDI3FLAG <sup>a</sup>	58634.3	50225
PDIp (Q22-L525) <sup>a</sup>	56199.7	44140
ERp57 (S25-L505) <sup>a</sup>	54620.6	45185
ERp46 (R33-L432, natural variant R354K) <sup>a</sup>	44815.4	69620
ERp72 (V21-L645) <sup>a</sup>	71027.0	68105
P5 (L20-L440) <sup>a</sup>	46526.3	71765

<sup>a</sup>These constructs contain additional amino acids SHM in the N-terminus resulting from TEV protease cleavage.