Table S1. Plasmids and DNA constructs employed and generated in this work.

Construct	Vector	Eg gene	Primer pair/s	Comments
	pET28a	-	-	
	pMM221	-	-	Doxycycline controlled tTA
				transactivator, tetO2 promoter
				regions, C-terminal HA3/His6
				and MTS of S. cerevisiae Grx5
pH08	pET28a	Grx5	GGATCCACATTCGCGGCTCTACCG	Residue 43 to 194
			AAGCTTTTAATTTTTCTTCCCCTTCTC	
pH14	pET28a	IsTrx	GGATCCATGCCCGAGATTTTG	wild type
			AAGCTTTTAGAAAGAATTGAAAAAAGCG	
pH16	pET28a	IsTrx	GGATCCATGCCCGAGATTTTG	CxxSC mutant
			AAGCTTTTAGAAAGAATTGAAAAAAGCG	
			GCTTTGCATCCTGTTTTGCC	
			GGCAAAACAGGATGCAAAGC	
pH18	pET28a	IsTrx	GGATCCATGCCCGAGATTTTG	SxxCC mutant
			AAGCTTTTAGAAAGAATTGAAAAAAGCG	
			GACAAACTCCTTTGCATGCTGTTTTG	
			CAAAACAGCATGCAAAGGAGTTTGTC	
pH19	pET28a	IsTrx	GGATCCATGCCCGAGATTTTG	CxxCS mutant
			AAGCTTTTAGAAAGAATTGAAAAAAGCG	
			CTGCTTTGCATGCTCTTTTGCCGAAAG	
			CTTTCGGCAAAAGAGCATGCAAAGCAG	
pH20	pMM221	Grx5	GCGGCCGCCTGGACAAGGCGCTCCGCAAC	Residues 65 to 194
			CTGCAGATTTTTCTTCCCCTTCTCCCT	
pH21	pMM221	IsTrx	GCGGCCGCATGCCCGAGATTTTGAAAATC	Residues 1 to 106
			CTGCAGGAAAGAATTGAAAAAAGCGTC	

Restriction sites sequences are underlined.