**Methods section on zwf titration strain**

*Strain construction*

The *zwf* titration strain was constructed as follows. First, the *zwf* gene was cloned into the IPTG-titratable expression plasmid pTrc99KK (Link *et al*, 2013) (primer 1: GCCTCGAGATGGCGGTAACGCAAACAGCC, primer 2: CGGGATCCTTACTCAAACTCATTCCAGGAACG), yielding plasmid pTrc99KK-*zwf*. This plasmid was then transformed into a *zwf* deletion strain obtained from the Keio collection (Baba *et al*, 2006). To exclude adverse effects on oxidative stress resistance merely due to protein overexpression, the *zwf* deletion strain was also transformed with a N-terminal his-tagged GFP titration plasmid, pTrc99KK-GFP:N-term HT, which was obtained from (Nikolaev *et al*, 2016).