Protocol S16. Bacterial strains, plasmids, and genetic screens

The F- 'recipient' single gene deletion knock-out strain marked with Kan^R were from the Keio mutant library [1]. The Hfr C non-essential donor gene deletion mutant strains or essential gene hypomorphic mutations were constructed using the λ-Red recombination [2-4] or P1 phage transduction [5] system. For assessing the effect of *ravA* and *viaA* on oxidative stress, we used the plasmids pRKISC and pRKNMC donated by Prof. Yasuhiro Takahashi (Saitama University, Japan). pRKISC carries the entire *isc* gene cluster (*iscRSUA-hscBA-fdx-iscX*) and has been shown to enhance the biogenesis of Fe-S clusters [6], whereas pRKNMC served as the empty vector control for pRKISC. Both the wild type (WT) and *ravAviaA* mutants were transformed with the aforementioned two plasmids to obtain WT-pRKISC, WT-pRKNMC, Δ*ravAviaA*-pRKISC, and Δ*ravAviaA*-pRKNMC strains.

References:

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