All Three Endogenous Quinone Species of Escherichia coli Are Involved in Controlling the Activity of the Aerobic/Anaerobic Response Regulator ArcA

van Beilen, J.W.A.; Hellingwerf, K.J.

DOI
10.3389/fmicb.2016.01339

Publication date
2016

Document Version
Other version

Published in
Frontiers in Microbiology

Citation for published version (APA):

General rights
It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations
If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: https://uba.uva.nl/en/contact, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

UvA-DARE is a service provided by the library of the University of Amsterdam (https://dare.uva.nl)

Download date:16 Jul 2023
Supplementary Figure 1. **Plasmid maps of new constructs used in this study.** Plasmids were based on pDOC-K (Lee et al., 2009). A: pDOC-S-ubiCA. The *ubiCA* sites are flanked by I-SceI restriction sites, sizes are approximations. B: pDOC-K-yoeG-ParaMenH. The *yoeG* sites are flanked by I-SceI restriction sites, sizes are approximations.
Supplementary Figure 2A-D. **Quinone pool redox state of *E. coli* MG1655.** Redox state (open figures) and concentration (closed figures) of all quinones in *E. coli* MG1655. A: All quinones together; B: UQ; C: DMK; D: MK. The bar above indicates N2 (gray) or air (white) sparging. Data based on the average of three biologically independent replicates. Error bars indicate standard deviation.
Supplementary Figure 2E-G. Quinone pool redox state of *E. coli* UQ- (i.e. AV34), DMK- and MK-only mutant strains. Redox state (open figures) and concentration (closed figures) of all quinones in *E. coli* MG1655. E: AV34 (UQ-only); F: DMK-only; G: MK-only. The bar above indicates N2 (gray) or air (white) sparging. Data based on the average of three biologically independent replicates. Error bars indicate standard deviation.
Supplementary Figure 3: **Exo-metabolite analysis of various *E. coli* strains.** A: Metabolites of *E. coli* MG1655; B: *E. coli* AV34; C: *E. coli* DMK-only; D: *E. coli* MK-only. The bar above each panel indicates sparging with N\(_2\) (gray) or air (white). Data represent the average of three biologically independent replicates, error bars indicate the standard deviation.