Table S1. Genotypes of DMS3m$_{acr}$ phages, Related to STAR Methods

Phage	*acr* gene source	Acr Accession
DMS3m$_{acrIE3}$ (parent phage, no manipulation)	Phage DMS3m (gp30)	WP_003723290.1
DMS3m$_{acrIF1}$	Phage JBD30 (gp35)	YP_007392342.1
DMS3m$_{acrIF2}$	Phage MP29 (gp29)	YP_002332454.1
DMS3m$_{acrIF3}$	Phage JBD88a (gp33)	YP_007392440.1
DMS3m$_{acrIF4}$	Phage JBD26 (gp37)	WP_016068584.1
DMS3m$_{acrIF5}$	Phage JBD5 (gp36)	YP_007392740.1
DMS3m$_{acrIF6}$	*Pseudomonas aeruginosa* strain PSE05 (prophage)	WP_043884810.1
DMS3m$_{acrIF7}$	LPB1 (gp29)	YP_009146150.1
DMS3m$_{acrIIA4}$	*Listeria monocytogenes* J0161 (prophage)	WP_003723290.1

Table S2. Plasmids used in this study, Related to STAR Methods

Plasmid	Backbone	Purpose
pAB02	pHERD30T	crRNA overexpression: CRISPR2 spacer 17
pAB03	pHERD30T	crRNA overexpression: CRISPR2 spacer 20
pAB58	pHERD30T	Generating DMS3m$_{acrIF2}$
pAB59	pHERD30T	Generating DMS3m$_{acrIF3}$
pAB21	pHERD20T	Generating DMS3m$_{acrIF4}$
pJZ69	pHERD30T	Generating DMS3m$_{acrIF5}$
pJZ70	pHERD30T	Generating DMS3m$_{acrIF6}$
pAB24	pHERD20T	Generating DMS3m$_{acrIF7}$
pJZ69	pHERD30T	Generating DMS3m$_{acrIIA4}$
pAB45	pHERD20T	Generating DMS3m$_{acr\ gp52::gent}$
pAB77,78	pHERD20T and 30T	C repressor (JBD30) overexpression
pAB79,80	pHERD20T and 30T	C repressor (DMS3) overexpression
pBAO72	pMMB67HE	sgRNA targeting DMS3m
pBAO95	pUC18T-mini-Tn7T-Gm	Insertion of SpyCas9 into the PAO1 tn7 site
pCsy_complex	2D	Csy complex expression and purification
pCRISPR_DMS3g24	pMK	crRNA expression and Csy complex purification
pAcrIF4	p15TV-L	AcrIF4 expression and purification