

Supplementary Table 4: Strains and plasmids used in this study.

Bacterial strains	Source
<i>Escherichia coli</i> Rosetta (DE3)	Thermo Fisher Scientific
<i>Escherichia coli</i> B121	A. Davidson Lab
<i>Escherichia coli</i> BB101	A. Davidson Lab
Plasmids for protein purification and binding assays	
pEJS658 pMCSG7-AcrE2	This study
pEJS659 pMCSG7-AcrIIC1Boe	This study
pEJS660 pMCSG7-AcrIIC1Nme	This study
pEJS661 pMCSG7-AcrIIC2Nme	This study
pEJS662 pMCSG7-AcrIIC3Nme	This study
pEJS663 pMCSG7-AcrIIC4Hpa	This study
pEJS664 pMCSG7-AcrIIC5Smu	This study
pEJS1026 pMCSG7-HpaCas9	This study
pEJS1027 pMCSG7-SmuCas9	This study
pEJS973 pMCSG7-NmeCas9	This study
pCDF-ACRE2	A. Davidson Lab
pCDF-ACRIIC1Nme	A. Davidson Lab
pCDF-ACRIIC4Hpa	This study
pCDF-ACRIIC5Smu	This study
Plasmids expressing Cas9/sgRNA for phage Mu targeting assay	
pBG_GeoCas9sgRNAMu	Harrington et al., <i>Cell</i> , 2017
pBG_HpaCas9sgRNAMu	This study
pBG_NmeCas9sgRNAMu	A. Davidson Lab
pBG_CjeCas9sgRNAMu	A. Davidson Lab
Plasmids for mammalian genome editing	
pEJS540 pCSDest2-AcrIIC4-Hpa	This study
pEJS542 pCSDest2-AcrIIC5-Smu	This study
pEJS581 pCSDest2-AcrIIC4Hpa-FLAG-NLS	This study
pEJS583 pCSDest2-AcrIIC5Smu-FLAG-NLS	This study
pEJS24 pCSDest2-SpyCas9-NLS-3XHA-NLS	Addgene # 69220
pEJS424 pCSDest2-NmeCas9-NLS-3XHA-NLS	Addgene #87448
pEJS427 pCSDest2-AcrE2	Addgene # 85677
pEJS430 pCSDest2-AcrIIC1Boe	Addgene #85678
pEJS433 pCSDest2-AcrIIC1Nme	Addgene #85679
pEJS436 pCSDest2-AcrIIC2Nme	Addgene #85712
pEJS443 pCSDest2-AcrIIC3Nme	Addgene #85713
pEJS333 pLKO.1-puro U6 Nme-sgRNA BfuAI stuffer	Addgene # 86195
pEJS334 pLKO.1-puro U6 Spy-sgRNA BfuAI stuffer	Addgene # 52628
pEJS15 pSimpleII-NmeCas9-sgRNA/Empty	E. Sontheimer Lab
Plasmids for fluorescence imaging	

pEJS333	pLKO.1-puro U6 Nme-sgRNA BfuAI stuffer	Addgene # 86195
pEJS334	pLKO.1-puro U6 Spy-sgRNA BfuAI stuffer	Addgene # 52628
pEJS466	pHAGE-TO-Nme dCas9-3xGFP	Addgene #64109
pEJS467	pHAGE-TO-Spy dCas9-3xmCherry	Addgene #64108
pEJS468	pLKO.1-NmeSgRNA/DTS13-Telomere	Addgene #85714
pEJS469	pLKO.1-SpySgRNA/DTS13-Telomere	Addgene #85715
pEJS476	pHAGE-TO-Nme dCas9 3XGFP-SgRNA/Telomere-All-in-one	Addgene #85716
pEJS477	pHAGE-TO-Spy dCas9 3XmCherry-SgRNA/Telomere-All-in-one	Addgene #85717
pEJS507	pCSDest2-noAcr-mTagBFP2-IRES	Addgene #85748
pEJS481	pCSDest2-AcrE2-mTagBFP2-IRES	Addgene #85749
pEJS482	pCSDest2-AcrIIC3Nme-mTagBFP2-IRES	Addgene #85750
pEJS592	pCSDest2-AcrIIC4Hpa-BFPv2-IRES	This study
pEJS593	pCSDest2-AcrIIC5Smu-BFPv2-IRES	This study