**S4 Table.** Bacterial strains, plasmids and phages used in this study

Strain/phage name	Description <sup>a</sup> Description	Source
	Description	Bource
V. cholerae strains	W. J. J. O. P. T. J. C. D. J.	r11
E7946	<i>V. cholerae</i> O1, El Tor biotype; SmR, is used as the PLE <sup>-</sup> control	[1]
KS393	<i>V. cholerae</i> clinical Isolate from the ICDDR, B, harbors PLE 1	[2]
KS393 S8*	V. cholerae clinical Isolate from the ICDDR, B, harbors PLE 1. Target of ICP1_2011 CRISPR spacer 8 target is mutated	[2]
KS229	V. cholerae clinical Isolate from the ICDDR, B, harbors PLE 2	[2]
KS511	<i>V. cholerae</i> clinical Isolate from the ICDDR, B, harbors PLE 3	[3]
MJ-1236	V. cholerae clinical Isolate from Matlab, Bangladesh, harbors PLE 4	[4]
O395	V. cholerae O1, classical biotype, SmR, isolated in India 1965, harbors PLE 5	[5]
KS393 S8*, PLE 1-Kan <sup>R</sup>	KS393 S8*, Kanamycin resistance cassette inserted downstream of ORF 23 in PLE 1	This study
KS393 S8* $\Delta$ int, PLE 1-Kan <sup>R</sup>	KS393 S8* PLE 1- Kan <sup>R</sup> containing an in-frame deletion of PLE 1 integrase (constructed by flp-FRT recombination)	This study
KS229 PLE 2- Kan <sup>r</sup>	KS229, Kanamycin resistance cassette inserted downstream of ORF 27 in PLE 2	This study
KS511 PLE 3- Kan <sup>R</sup>	KS511, Kanamycin resistance cassette inserted downstream of ORF 27 in PLE 3	This study
MJ-1236 PLE 4- Kan <sup>R</sup>	MJ-1236, Kanamycin resistance cassette inserted downstream of ORF 29 in PLE 4	This study
O395 PLE 5-Kan <sup>R</sup>	O395, Kanamycin resistance cassette inserted downstream of ORF 29 in PLE 5	This study
KS683	E7946, PLE 5-Kan, generated via natural transformation of E7946 with gDNA from O395, PLE 5-Kan <sup>R</sup>	This study
KS790	E7946, PLE 5-Kan. Target of ICP1_2011 CRISPR spacer 1 target is mutated	This study
KS843	E7946, PLE 4-Kan, generated via natural transformation of E7946 with gDNA from MJ-1236, PLE 4-Kan <sup>R</sup>	This study
PLE 1	E7946 containing PLE 1 integrated in VCR in between VCA0329 and VCA0330	This study
PLE 2	E7946 containing PLE 2 interrupting VCA0581	This study
PLE 3	E7946 containing PLE 3 integrated in VCR in between VCA0415 and VCA0416	This study
PLE 4	E7946 containing PLE 4 integrated in VCR in	This study

	between VCA0353 and VCA0354	
PLE 5	E7946 containing PLE 5 integrated in VCR in between VCA0407 and VCA0408	This study
PLE 1-Kan <sup>R</sup>	E7946 PLE 1, Kanamycin resistance cassette inserted downstream of ORF 23	This study
PLE 2-Kan <sup>R</sup>	E7946 PLE 2, Kanamycin resistance cassette inserted downstream of ORF 27	This study
PLE 3-Kan <sup>R</sup>	E7946 PLE 3, Kanamycin resistance cassette inserted downstream of ORF 27	This study
PLE 4-Kan <sup>R</sup>	E7946 PLE 4, Kanamycin resistance cassette inserted downstream of ORF 29	This study
PLE 5-Kan <sup>R</sup>	E7946 PLE 5, Kanamycin resistance cassette inserted downstream of ORF 29	This study
E7946 Δ lacZ::Spec <sup>R</sup>	E7946 containing a deletion/insertion mutation where the lacZ gene was replaced with a SpecR cassette	This study
PLE 1 ΔVC1807::Kan <sup>R</sup>	E7946 PLE 1 containing a deletion/insertion mutation where VC1807 was replaced with a KanR cassette	This study
PLE 2 ΔVC1807::Kan <sup>R</sup>	E7946 PLE 2 containing a deletion/insertion mutation where VC1807 was replaced with a KanR cassette	This study
PLE 3 ΔVC1807::Kan <sup>R</sup>	E7946 PLE 3 containing a deletion/insertion mutation where VC1807 was replaced with a KanR cassette	This study
PLE 4 ΔVC1807::Kan <sup>R</sup>	E7946 PLE 4 containing a deletion/insertion mutation where VC1807 was replaced with a KanR cassette	This study
PLE 5 ΔVC1807::Kan <sup>R</sup>	E7946 PLE 5 containing a deletion/insertion mutation where VC1807 was replaced with a KanR cassette	This study
PLE 1 $\Delta$ <i>int</i> , PLE 1-Kan <sup>R</sup>	E7946 PLE 1- Kan <sup>R</sup> containing an in-frame deletion of PLE 1 integrase (constructed by flp-FRT recombination)	This study
E7946 $\triangle$ wbeL $\triangle$ lacZ::Spec <sup>R</sup>	E7946 containing a clean deletion of <i>wbeL</i> and a deletion/insertion mutation where the <i>lacZ</i> gene was replaced with a SpecR marker	This study
KS227	V. cholerae clinical isolate from the ICDDR, B	[3]
A50	V. cholerae O1, classical biotype, SmS, isolated in Bangladesh 1963	[6]
A57	V. cholerae O1, classical biotype, SmS, isolated in India 1980	[6]
A68	V. cholerae O1, classical biotype, SmS, isolated in Egypt 1949	[6]
A111	V. cholerae O1, classical biotype, SmS, isolated in 1990	[6]

B33	V. cholerae clinical Isolate from Beira,	[4]
	Mozambique	
KS510	V. cholerae clinical isolate from the ICDDR, B	[3]
KS409	V. cholerae clinical isolate from the ICDDR, B	[3]
KS396	V. cholerae clinical isolate from the ICDDR, B	[3]
KS398	V. cholerae clinical isolate from the ICDDR, B	[3]
KS400	V. cholerae clinical isolate from the ICDDR, B	[3]
KS401	V. cholerae clinical isolate from the ICDDR, B	[3]
KS344	V. cholerae clinical isolate from the ICDDR, B	[3]
KS255	V. cholerae clinical isolate from the ICDDR, B	[3]
KS348	V. cholerae clinical isolate from the ICDDR, B	[3]
KS517	V. cholerae clinical isolate from the ICDDR, B	[3]
KS516	V. cholerae clinical isolate from the ICDDR, B	[3]
KS515	V. cholerae clinical isolate from the ICDDR, B	[3]
KS39	V. cholerae clinical isolate from the ICDDR, B	[3]
KS518	E7946 PLE 1-KanR. E7946 added to supernatants	This study
	of KS393 S8* PLE 1-Kan <sup>R</sup> infected with	
	ICP1_2011_A ΔS9	
KS519	E7946 PLE 1-KanR. E7946 added to supernatants	This study
	of KS393 S8* PLE 1-Kan <sup>R</sup> infected with	
******	ICP1_2011_A ΔS9	FF. 1
KS520	E7946 PLE 1-KanR. E7946 added to supernatants	This study
	of KS393 S8* PLE 1-Kan <sup>R</sup> infected with	
17.0.4.4.1	ICP1_2011_A ΔS9	TT1 : 1
KS441	KS227 PLE 1-KanR. KS227 added to supernatants	This study
	of KS393 S8* PLE 1-Kan <sup>R</sup> infected with	
120112	ICP1_2011_A ΔS9	Th:
KS443	KS227 PLE 1-KanR. KS227 added to supernatants	This study
	of KS393 S8* PLE 1-Kan <sup>R</sup> infected with	
KS543	ICP1_2011_A \Delta S9	This study
N3343	E7946 PLE 2-KanR. E7946 added to supernatants of KS229 PLE 2-Kan <sup>R</sup> infected with ICP1_2006_E	This study
KS544	E7946 PLE 2-Kan R. E7946 added to supernatants	This study
K5344	of KS229 PLE 2-Kan <sup>R</sup> infected with ICP1 2006 E	Tills study
KS545	E7946 PLE 2-Kan R. E7946 added to supernatants	This study
KSS4S	of KS229 PLE 2-Kan <sup>R</sup> infected with ICP1_2006_E	Tills study
KS546	E7946 PLE 2-Kan R. E7946 added to supernatants	This study
K5540	of KS229 PLE 2-Kan <sup>R</sup> infected with ICP1_2006_E	Tins study
KS551	E7946 PLE 3-KanR. E7946 added to supernatants	This study
110331	of KS511 PLE 3-Kan <sup>R</sup> infected with	Tins study
	ICP1_20011_A	
KS552	E7946 PLE 3-KanR. E7946 added to supernatants	This study
~	of KS511 PLE 3-Kan <sup>R</sup> infected with	
	ICP1_20011_A	
KS553	E7946 PLE 3-KanR. E7946 added to supernatants	This study
	of KS511 PLE 3-Kan <sup>R</sup> infected with	J

	ICP1_20011_A	
KS554	E7946 PLE 3-KanR. E7946 added to supernatants	This study
	of KS511 PLE 3-Kan <sup>R</sup> infected with	J
	ICP1_20011_A	
KS845	E7946 PLE 4-KanR. E7946 added to supernatants	This study
	of KS843 infected with	•
	ICP1_20011_A	
KS846	E7946 PLE 4-KanR. E7946 added to supernatants	This study
	of KS843 infected with	
	ICP1_20011_A	
KS847	E7946 PLE 4-KanR. E7946 added to supernatants	This study
	of KS843 infected with	
	ICP1_20011_A	
KS704	E7946 PLE 5-KanR. E7946 added to supernatants	This study
	of KS683 infected with ICP1_20011_A ΔS9	
KS705	E7946 PLE 5-KanR. E7946 added to supernatants	This study
	of KS683 infected with ICP1_20011_A ΔS9	
KS795	E7946 PLE 5-KanR. E7946 added to supernatants	This study
	of KS790 infected with ICP1_20011_A ΔS9	
KS797	E7946 PLE 5-KanR. E7946 added to supernatants	
	of KS790 infected with ICP1_20011_A $\Delta$ S9	
Phage		
ICP1	O1-specific phage of V. cholerae O1, unclassified	[7]
9	O1-specific phage of <i>V. cholerae</i> O1, unclassified member of the <i>Myoviridae</i> family	[7]
9	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate	[7]
ICP1_2004_A ICP1_2005_A	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate CRISPR-Cas positive ICP1 isolate	
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate CRISPR-Cas positive ICP1 isolate CRISPR-Cas positive ICP1 isolate	[7]
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate CRISPR-Cas positive ICP1 isolate CRISPR-Cas positive ICP1 isolate CRISPR-Cas positive ICP1 isolate	[7] [7] [2] [2]
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage	[7] [7] [2]
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A ΔS9	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array	[7] [7] [2] [2] [2]
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A ΔS9 ICP1_2004_A	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array ΔCRISPR derivative constructed by deleting <i>cas2</i> -	[7] [7] [2] [2]
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A ΔS9 ICP1_2004_A Δcas2-3	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array  \[ \Delta \text{CRISPR} \] \[ \delta	[7] [7] [2] [2] [2] This study
ICP1  ICP1_2004_A  ICP1_2005_A  ICP1_2006_E  ICP1_2011_A  ICP1_2011_A  ΔS9  ICP1_2004_A  Δcas2-3  ICP1_2005_A	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array  \[ \Delta \text{CRISPR derivative constructed by deleting } \ cas 2 - 3 \] \[ \Delta \text{CRISPR derivative constructed by deleting} \]	[7] [7] [2] [2] [2]
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A ΔS9 ICP1_2004_A Δcas2-3	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array  \[ \Delta \text{CRISPR derivative constructed by deleting } \text{cas2-3} \] \[ \Delta \text{CRISPR derivative constructed by deleting } \text{CRISPR arrays} \] \[ \text{CRISPR derivative constructed by deleting } \text{CRISPR arrays} \]	[7] [7] [2] [2] [2] This study
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A ΔS9 ICP1_2004_A Δcas2-3 ICP1_2005_A ΔCRISPR	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array  \[ \Delta \text{CRISPR derivative constructed by deleting } \text{cas2-3} \] \[ \Delta \text{CRISPR derivative constructed by deleting } \text{CRISPR arrays} \] \[ \text{CRISPR arrays} \text{(CR1 and CR2) such that no anti-PLE spacers remain} \]	[7] [7] [2] [2] [2] This study This study
ICP1  ICP1_2004_A  ICP1_2005_A  ICP1_2006_E  ICP1_2011_A  ICP1_2011_A  ΔS9  ICP1_2004_A  Δcas2-3  ICP1_2005_A  ΔCRISPR	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array  \[ \Delta \text{CRISPR derivative constructed by deleting } \text{cas2-3} \] \[ \Delta \text{CRISPR derivative constructed by deleting } \text{CRISPR arrays} (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR derivative constructed by deleting } \text{CRISPR derivative constructed by deleting } \]	[7] [7] [2] [2] [2] This study
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A ΔS9 ICP1_2004_A Δcas2-3 ICP1_2005_A ΔCRISPR	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array  \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ cas2-3} \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR} \text{ arrays} \text{ (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR} \text{ arrays} \text{ (CR1 and CR2) such that no anti-PLE spacers remain } \]	[7] [7] [2] [2] [2] This study This study
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A ΔS9 ICP1_2004_A Δcas2-3 ICP1_2005_A ΔCRISPR ICP1_2006_E	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array  \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ cas2-3} \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR arrays (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR arrays (CR1 and CR2) such that no anti-PLE spacers remain } \]	[7] [7] [2] [2] [2] [2] This study This study This study
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A ΔS9 ICP1_2004_A Δcas2-3 ICP1_2005_A ΔCRISPR ICP1_2006_E ΔCRISPR	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array  \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ cas2-3} \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR arrays (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR arrays (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ cas2-incomplete constructed } \text{ cas2-incomplete constructed } \text{ cas2-incomplete constructed } \text{ cas2-incomplete constructed }  cas2-incomplete	[7] [7] [2] [2] [2] This study This study
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A ΔS9 ICP1_2004_A Δcas2-3 ICP1_2005_A ΔCRISPR ICP1_2006_E ΔCRISPR ICP1_2011_A ΔCas2-3	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array  \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ cas2-3} \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR arrays (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR arrays (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ cas2-3} \]	[7] [7] [2] [2] [2] [2] This study This study This study
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A ΔS9 ICP1_2004_A Δcas2-3 ICP1_2005_A ΔCRISPR ICP1_2006_E ΔCRISPR	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array  \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ cas2-3} \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR arrays (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR arrays (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ cas2-3} \] \[ \text{ V. cholerae} \text{ phage, member of the } \text{ Podoviridae} \]	[7] [7] [2] [2] [2] [2] This study This study This study
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A ΔS9 ICP1_2004_A Δcas2-3 ICP1_2005_A ΔCRISPR ICP1_2006_E ΔCRISPR ICP1_2011_A Δcas2-3 ICP1_2011_A	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array  \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ cas2-3} \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR} \text{ arrays} \text{ (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR} \text{ arrays} \text{ (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ cas2-3} \] \[ \text{ V. cholerae} \text{ phage, member of the } \text{ Podoviridae} \] \[ \text{ family} \]	[7] [7] [2] [2] [2] [2] This study This study  This study  [8]
ICP1 ICP1_2004_A ICP1_2005_A ICP1_2006_E ICP1_2011_A ICP1_2011_A ΔS9 ICP1_2004_A Δcas2-3 ICP1_2005_A ΔCRISPR ICP1_2006_E ΔCRISPR	member of the <i>Myoviridae</i> family CRISPR-Cas positive ICP1 isolate Spontaneous deletion of spacer 9 in phage CRISPR array  \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ cas2-3} \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR arrays (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ CRISPR arrays (CR1 and CR2) such that no anti-PLE spacers remain } \] \[ \Delta \text{CRISPR} \text{ derivative constructed by deleting } \text{ cas2-3} \] \[ \text{ V. cholerae} \text{ phage, member of the } \text{ Podoviridae} \]	[7] [7] [2] [2] [2] [2] This study This study This study

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