



Table S1. Bacterial strains, bacteriophage and plasmids.

Strains, phage or plasmid	Genotype or relevant markers	Reference
<i>Klebsiella pneumoniae</i>		
Kp36	wild-type	[6]
Kp36-117R	phage 117 resistant mutant	[6]
<i>Escherichia coli</i>		
DH5α	Competent cells	
Phage		
phage 117	Genome 41,092 bp, <i>Podoviridae</i>	[6]
Phage 31	Genome 39,600 bp, <i>Podoviridae</i>	[6]
Plasmid		
pBAD33	<i>wcaJ</i> complementation assay	[17]
pSGKP-spe	<i>wcaJ</i> knockout	[16]
pCasKP	<i>wcaJ</i> knockout	[16]

Table S2. Primer list.

Name	Primers (5'-3')
<i>wcaJ</i> check	
<i>wcaJ</i> _check_F	CCCTGCCATGGTTATGGTGAG
<i>wcaJ</i> _check_R	CTCCTGTCAGGTGTGGTCAC
<i>wcaJ</i> deletion	
delta <i>wcaj</i> _1	TTTAAGCTTGATATCTTGACAGCTAGCTCAGTCCTAGGTATAATA -CTAGTAGACAAATACGATATGGTA;GTTTTAGAGCTAGAAATAGC
delta <i>wcaj</i> _2	TTTGAGCTCCACCGCGGTGGCGG
delta <i>wcaj</i> _3	TTTGAGCTCGGGATTATCGAACGGCAAATGGAG
delta <i>wcaj</i> _4	GTATCATAATTCGTACAATAGAAATCTCACCATAACCATGGCAGGG TATTG
delta <i>wcaj</i> _5	GGTTATGGTGAGATTTCTATTGTACGAATTATGATACTTAATCTTTTT TGTTGAGG
delta <i>wcaj</i> _6	TTTGAGCTCCCTTCGGCAGACAGCTCACGG
<i>wcaJ</i> complementation	
<i>wcaJ</i> comple_F	TTTTCTAGATAAGGAGGTATCATATGAAAACCTTTCACGCATCGTGC
<i>wcaJ</i> comple_R	TTTAAGCTTTCAATATGCAGACTTATTAATAAACCC