

Table S3. Domestic and international representative integrons harboring *bla*_{IMP-1} and *bla*_{IMP-6} referenced in our Study.

Carbapenemase	Species	Integron structure including gene cassettes	Integron no.	Country	Genbank accession no.
IMP-1	<i>Escherichia coli</i>	intI1-aacA1- <i>bla</i> _{IMP-1} -Emr-qacE-sul1	In798	Japan	LC720959
	<i>Klebsiella pneumoniae</i>	intI1-aacA4- <i>bla</i> _{IMP-1} -aadA2-Tnp-qacE-sul1	In1311	Japan	LC169566
	<i>Citrobacter freundii</i>	intI1- <i>bla</i> _{IMP-1} -aacA31- <i>bla</i> _{OXA142} -qacE-sul1	In1312	Brazil	LC169567
	<i>Klebsiella pneumoniae</i>	intI1- <i>bla</i> _{IMP-1} -ORF-aacA4-aadA6-Tnp	In1223	China	KT345947
	<i>Enterobacter hormaechei</i>	intI1- <i>bla</i> _{IMP-1} -aacA4-cr-sul1-ORF	In1426	Japan	AP018351
IMP-6	<i>Klebsiella pneumoniae</i>	intI1-aacA4- <i>bla</i> _{IMP-6} -aadA2-Tnp-qacE-sul1	In1321	Japan	LC169589
	<i>Klebsiella pneumoniae</i>	intI1-aacA4- <i>bla</i> _{IMP-6} -aadA2-Tnp-qacE-sul1	In1547	Japan	AP019404
	<i>Escherichia coli</i>	intI1-aacA4- <i>bla</i> _{IMP-6} -aadA2-qacE-sul1	In1690	Japan	LC720960
	<i>Klebsiella pneumoniae</i>	s. a	In1690	Japan	AP019402
	<i>Klebsiella aerogenes</i>	s. a	In1690	Japan	AP019272

EMR stands for a efflux-mediated small multidrug resistance (SMR) transporter. The transposases (Tnp) of In1321 and In1547 differ from each other, and the alleles of adenine and thymine at position 368 of the *aacA4* gene also vary. To maintain consistency with original citations, what were previously named *aac(6')*-Ib are here referred to as *aacA4*. The three integrons in In1690 are identical, thus abbreviated as "Same as above" (s.a.).