

**Table S1.** Primer sequences and their expected amplicon sizes.

Target encoding gene (C*/V†)	Target gene primers (F‡/R§)	Primer Sequence (5'-3')	Amplicon size	Reference
C	KPC-F KPC-R	5'- ATGTCACTGTATCGCCGTCT- 3' 5'- TTA CTGCCCGTTGACGCCCA-3'	880 bp	27
C	NDM-F NDM-R	5'- GGTTTGGCGATCTGGTTTTTC-3' 5'- CGGAATGGCTCATCACGATC-3'	621 bp	28
C	VIM-F VIM-R	5'- GATGGTGTGGTTCGCATA-3' 5'- CGAATGCGCAGCACCAG-3'	390 bp	28
C	IMP-F IMP-R	5'- GGAATAGAGTGGCTTAAYTCTC-3' 5'- GGTTTAA YAAAAACAACCACC-3'	232 bp	28
C	OXA-48-like-F OXA-48-like-R	5'- TTGGTGGCATCGATTATCGG-3' 5'- GAGCACTTCTTTGTGATGGC-3'	743 bp	29
V	<i>K1</i> -F <i>K1</i> -R	5'- GGTGCTCTTACATCATTGC-3' 5'- GCAATGGCCATTTGCGTTAG-3'	1283 bp	15
V	<i>K2</i> -F <i>K2</i> -R	5'- GACCCGATATTCATACTTGACAGAG-3' 5'- CCTGAAGTAAAATCGTAAATAGATGGC-3'	641 bp	30
V	<i>rmpA</i> -F <i>rmpA</i> -R	5'- ACTGGGCTACCTCTGCTTCA-3' 5'- CTTGCATGAGCCATCTTTCA-3'	535 bp	31
V	<i>fimH-1</i> -F <i>fimH-1</i> -R	5'- ATGAACGCCTGGTCCTTTGC-3' 5'- GCTGAACGCCTATCCCCTGC-3'	688 bp	32
V	<i>mrkD</i> -F <i>mrkD</i> -R	5'- CCACCAACTATTCCTCGAA-3' 5'- ATGGAACCCACATCGACATT-3'	240 bp	33
V	<i>ybtS</i> -F <i>YbtS</i> -R	5'- GACGAAACAGCACGGTAAA-3' 5'- GAGCATAATAAGGCGAAAGA-3'	242 bp	34
V	<i>iutA</i> -F <i>iutA</i> -R	5'- GGGAAAGCCTTCTGCCAT-3' 5'- TTATTCGCCACCACGCTCTT-3'	920 bp	34
V	<i>entB</i> -F <i>entB</i> -R	5'- GTCAACTGGGCCTTTGAGCCGTC-3' 5'- TATGGGCGTAAACGCCGGTGAT-3'	400 bp	34

C\*: Carbapenemase-encoding gene.

V†: Virulence –encoding gene.

F‡: Forward primer.

R§: Reverse primer.