

Supplemental Table S3: Primers used for the determination of genetic regions flanking the *bla_{OXA-23}* and *bla_{OXA-58}* genes in *Acinetobacter baumannii*

PCR	Target region	Primer name (Primer ID IHIT)	Primer sequence (5` - 3`)	Amplicon size	Primer reference	OXA region with positive PCR reaction*
OXA-23						
1	ISAb _{a1}	ISAb _{a1} -A_RP	CCACGATAAACGATTGCGAGCA	1.703 bp	PS	a, b, c, d, e
	ATPase	ATPase-univ-R	GCAACCCTCGACATCTGTTA		[1]	
2	ISAb _{a1}	ISAb _{a1} -B_RP	CGGTGAGCAGTGGTTACAT	1.362 bp	PS	b, c, e
	traL	TraL_RP	CTTCAAGACCGCATCCAACA		PS	
3	ISAb _{a1}	ISAb _{a1} _FWD	TTGGTTGGTCGGTGAAACT	3.660 bp	PS	e
	korB	KorB_RP	AAGAAGGCGTGGCAGAGAAT		PS	
4	traD	TraD_Fwd	AGGCCGACTTACCCAATCAC	2.212 bp	PS	e
	Hypothetical protein	HP4_IHIT29996_REV	TTGGCTGCATCATTTTCAGC		PS	
5	Replication protein	ReplP_FWD	TGGCACTATCATTGCCTGGAC	3.023 bp	PS	b
	strB	StrB_RP	CGATCAAGCAGGTGCGACA		[3]	
6	strA	Stra-RP	GCAACCAGTCAGAATGCGAT	1.856 bp	[3]	b
	topB	TopB_RP	GGTCATGTTCTGCATATCCTA		PS	
7	ATPase	ATPase-intern1	TCAGGAAGATCGGACAGATC	1.092 bp (b); 2.504 bp (c);	[1]	b, c, d
	parB	ParB-RP	CATCTAGGAGAGCTTCGCAA	2.383 bp (d)	PS	
8	Hypothetical protein	HP2_IHIT32289_REV	ATCCGGGTGCATGAGTGAC	2.192 bp	PS	e
	higB2	HigB2_FWD	AACTGGGGCCAAATCTAGGC		PS	
9	dnaJ	DnaJ_FWD	ATATCTTCAGTCGAGCCGCC	1.604 bp	PS	e
	Hypothetical protein	HP3_IHIT29996_REV	AACGGTGGAGCAGAAGAAAGT		PS	
10	ISAb _{a1}	ISAb _{a1} _FWD	TTGGTTGGTCGGTGAAACT	3.270 bp	PS	a
	comM	ComM-REV	TTGCCTCTGGTCAACTTCCG		PS	
11	<i>bla_{OXA-23}</i>	OXA-23_FWD	TGTCCTGAACAATCTGACTC	4.087 bp	[1]	a
	comM	ComM-REV	TTGCCTCTGGTCAACTTCCG		PS	
12	sulP	SulP-FWD	TCAACGCCTGCAATAATGG	2.258 bp	PS	a
	ATPase	ATPase-intern1	TCAGGAAGATCGGACAGATC		[1]	

PCR	Target region	Primer name (Primer ID IHIT)	Primer sequence (5` - 3`)	Amplicon size	Primer reference	OXA region with positive PCR reaction*
OXA-58						
13	<i>blaOXA-58</i>	OXA-58_FWD	AAGTATTGGGGCTTGTGCTG	2.110 bp (A-D); 3.395 bp (E)	[2]	A, B, C, D
	<i>araC</i>	AraC_REV	CGTAGGGTTGATTGATAGCA		[3]	
14	<i>adh</i>	Adh_FWD	ACCAAGATCCGTTCCACAAA	1.412 bp	PS	A, B
	<i>blaOXA-58</i>	OXA-58_REV	TCAACTTCCGTGCCTATTG		[2]	
15	<i>repE</i>	RepE_FWD	ATGCTACAAGATCCGCTCA	1.553 bp	PS	A
	<i>adh</i>	Adh_REV	ACGTTGGTGTGCATGGTAAG		PS	
16	<i>adh</i>	Adh_FWD	ACCAAGATCCGTTCCACAAA	1.536 bp	PS	A
	<i>tonB</i>	TonB_REV	ATTCCGTACCCAAGGCATCC		PS	
17	<i>araC</i>	AraC_FP	ACAAACACTCTAACATTGGTG	1.640 bp	[3]	A
	<i>vapC</i>	VapC_REV	CCATAAGCATGGCACATTGT		PS	
18	<i>tonB</i>	TonB_FWD	TTACCTCCTGCTCGTTGGG	958 bp	PS	C
	<i>spl</i>	Spl_REV	ATGCCACTTATTCCCCGCG		PS	
19	<i>Hypothetical protein</i>	HP6_IHIT29997_FWD	ACAAGCCTGGAATTAGAGCCA	2.990 bp	PS	D
	<i>blaOXA-58</i>	OXA-58_REV	TCAACTTCCGTGCCTATTG		[2]	
20	<i>repE</i>	RepE_FWD	ATGCTACAAGATCCGCTCA	2.730 bp	PS	C
	<i>blaOXA-58</i>	OXA-58_REV	TCAACTTCCGTGCCTATTG		[2]	
21	<i>Hypothetical protein</i>	HP3_IHIT29985_FWD	ACCTCATCTTAGAACGCCA	699 bp	PS	C
	<i>open reading frame</i>	ORF_IHIT29985_REV	TTGTCACACACCACGCATCT		PS	

* see Figures 2 and 3 of the main text for genetic structures of OXA regions; PS = present study

Primer references:

1. Klotz P, Goettig S, Leidner U, Semmler T, Scheufen S, Ewers C. 2017. Carbapenem-resistance and pathogenicity of bovine *Acinetobacter indicus*-like isolates. PLOS ONE 12(2):e0171986. doi: 10.1371/journal.pone.0171986
2. Groebner S, Linke D, Schutz W, Fladerer C, Madlung J, Autenrieth IB, Witte W, Pfeifer Y. 2009. Emergence of carbapenem-non-susceptible extended-spectrum β -lactamase-producing *Klebsiella pneumoniae* isolates at the university hospital of Tubingen, Germany. Journal of Medical Microbiology 58:912–922. doi: 10.1099/jmm.0.005850-0.
3. Klotz P, Jacobmeyer L, Leidner U, Stamm I, Semmler T, Ewers C. 2018. *Acinetobacter pittii* from Companion Animals Co harboring *blaOXA-58*, the tet(39) Region, and Other Resistance Genes on a Single Plasmid. Antimicrobial Agents and Chemotherapy 62(1):e01993-17. doi: 10.1128/AAC.01993-17.

Supplemental Table S3 continued:

According to the different genetic environments of *blaOXA-23* and *blaOXA-58* genes (see Figure 2 and Figure 3 of the main text), *blaOXA-23* and *blaOXA-58*-positive *A. baumannii* strains revealed different PCR results: