Progress in Microbes and Molecular Biology

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Supplementary materials

Table S1. Antimicrobial susceptibility testing (AST) results of MPB 1 and MPB 17.

Antibiotic name (concentration)	MPB 1	MPB 17
Ampicillin (10 μg)	Resistant	Resistant
Amoxicillin/Clavulanate (20 μg/10 μg)	Susceptible	Resistant
Ampicillin/Sulbactam (10 μg/10 μg)	Susceptible	Resistant
Cefotaxime (30 μg)	Resistant	Resistant
Cefoxitin (30 μg)	Susceptible	Susceptible
Ceftazidime (30 μg)	Resistant	Resistant
Imipenem (10 μg)	Resistant*	Resistant*
Meropenem (10 μg)	Resistant	Resistant
Gentamicin (10 μg)	Resistant	Resistant
Amikacin (30 μg)	Resistant	Resistant
Tobramycin (10 μg)	Resistant	Resistant
Kanamycin (30 μg)	Resistant	Resistant
Tetracycline (30 μg)	Susceptible	Resistant
Levofloxacin (5 μg)	Resistant	Resistant
Trimethoprim/Sulfamethoxazole (1.25 μg/23.75 μg)	Resistant*	Resistant
Chloramphenicol (30 μg)	Susceptible	Susceptible

* For data analysis, results with intermediate susceptibility were considered resistant to provide a conservative estimate for antibiotic resistance.

Table S2. Antibiotic resistance genes in the whole genome sequences of MPB 1 and MPB 17 detected using ResFinder.

Antibiotic resistance gene	CGE Predicted Phenotype	Length (bp)	MPB 1	MPB 17
oqxA	Chloramphenicol, Nalidixic acid, Ciprofloxacin, Trimethoprim	1176	Present	Present
oqxB	Chloramphenicol, Nalidixic acid, Ciprofloxacin, Trimethoprim	3153	Present	Present
aac(3)-IIa	Gentamicin, Tobramycin	861	Present	Present
aac(6')-Ib-cr	Tobramycin, Dibekacin, Amikacin, Sisomicin, Netilmicin, Fluoroquinolone, Ciprofloxacin	600	Not detected	Present
aph(3'')-Ib	Streptomycin	804	Not detected	Present
aph(6)-Id	Streptomycin	837	Present	Present
$bla_{CTX\text{-}M\text{-}15}$	Amoxicillin, Ampicillin, Aztreonam, Cefepime, Cefotaxime, Ceftazidime, Ceftriaxone, Piperacillin, Ticarcillin	876	Not detected	Present
$bla_{OXA\text{-}1}$	Amoxicillin, Amoxicillin/Clavulanate, Ampicillin, Ampicillin/Clavulanate, Cefepime, Piperacillin, Piperacillin/Tazobactam	831	Not detected	Present
$bla_{SHV\text{-}187}$	Unknown Beta-lactam	867	Present	Present
$bla_{TEM\text{-}1B}$	Amoxicillin, Ampicillin, Cephalothin, Piperacillin, Ticarcillin	861	Not detected	Present
catB3	Chloramphenicol	445	Not detected	Present
dfrA14	Trimethoprim	474	Not detected	Present
fosA6	Fosfomycin	420	Not detected	Present
fosA	Fosfomycin	420	Present	Not detected
qnrB1	Ciprofloxacin	645	Not detected	Present
sul2	Sulfamethoxazole	816	Not detected	Present
tet(A)	Doxycycline, Tetracycline	1200	Not detected	Present

CGE: Center for Genomic Epidemiology

Table S3. Virulence genes (in percentage identity) detected in the whole genome sequences of strains MPB 1 and MPB 17 with reference to Virulence Factor Database (VFDB).

VFDB accession number	GenBank accession number	Length (bp)	Virulence gene	Gene product	MPB 1	MPB 17
VFG000358	WP_002212885	2022	*fyuA/psn**	(fyuA/psn) pesticin/yersiniabactin receptor protein [Yersiniabactin (VF0136) - Nutritional/Metabolic factor (VFC0272)] [Yersinia pestis CO92]	ND	100
VFG000359	WP_001088826	1578	*ybtE**	yersiniabactin siderophore biosynthetic protein [Yersiniabactin (VF0136) - Nutritional/Metabolic factor (VFC0272)] [Yersinia pestis CO92]	ND	100
VFG000360	WP_002212799	804	*ybtT**	type II thioesterase YbtT [Yersiniabactin (VF0136) - Nutritional/Metabolic factor (VFC0272)] [Yersinia pestis CO92]	ND	100
VFG000361	WP_000982866	1101	*ybtU**	yersiniabactin biosynthetic protein YbtU [Yersiniabactin (VF0136) - Nutritional/Metabolic factor (VFC0272)] [Yersinia pestis CO92]	ND	100
VFG000362	WP_002212777	9492	*irp1**	yersiniabactin biosynthetic protein Irp1 [Yersiniabactin (VF0136) - Nutritional/Metabolic factor (VFC0272)] [Yersinia pestis CO92]	ND	100
VFG000363	WP_002212775	6108	*irp2**	yersiniabactin biosynthetic protein Irp2 [Yersiniabactin (VF0136) - Nutritional/Metabolic factor (VFC0272)] [Yersinia pestis CO92]	ND	100
VFG000364	WP_000140406	960	*ybtA**	transcriptional regulator YbtA [Yersiniabactin (VF0136) - Nutritional/Metabolic factor (VFC0272)] [Yersinia pestis CO92]	ND	100
VFG000366	WP_002212761	1803	*ybtQ**	yersiniabactin ABC transporter ATP-binding/permease protein YbtQ [Yersiniabactin (VF0136) - Nutritional/Metabolic factor (VFC0272)] [Yersinia pestis CO92]	ND	100
VFG000367	WP_001286280	1281	*ybtX**	putative signal transducer [Yersiniabactin (VF0136) - Nutritional/Metabolic factor (VFC0272)] [Yersinia pestis CO92]	ND	100
VFG000368	WP_000703040	1305	*ybtS**	salicylate synthase Irp9 [Yersiniabactin (VF0136) - Nutritional/Metabolic factor (VFC0272)] [Yersinia pestis CO92]	ND	100

VFDB accession number	GenBank accession number	Length (bp)	Virulence gene	Gene product	MPB 1	MPB 17
VFG000477	NP_461845	992	*rpoS*	RNA polymerase sigma factor RpoS [RpoS (VF0112) - Regulation (VFC0301)] [Salmonella enterica subsp. enterica serovar Typhimurium str. LT2]	99.8	99.8
VFG000478	NP_459678	437	*fur*	ferric iron uptake transcriptional regulator [Fur (VF0113) - Regulation (VFC0301)] [Salmonella enterica subsp. enterica serovar Typhimurium str. LT2]	96.47	96.47
VFG001443	AAF37887	1071	*ompA*	outer membrane protein A [OmpA (VF0236) - Invasion (VFC0083)] [Escherichia coli O18:K1:H7 str. RS218]	100	100
VFG002412	WP_000716386	669	*yagY/ecpB*	E. coli common pilus chaperone EcpB [ECP (VF0404) - Adherence (VFC0001)] [Escherichia coli O157:H7 str. EDL933]	100	100
VFG002413	WP_000389022	543	*ykgK/ecpR*	regulator protein EcpR [ECP (VF0404) - Adherence (VFC0001)] [Escherichia coli O157:H7 str. EDL933]	100	100
VFG002414	WP_000730972	584	*yagZ/ecpA*	E. coli common pilus structural subunit EcpA [ECP (VF0404) - Adherence (VFC0001)] [Escherichia coli O157:H7 str. EDL933]	99.32	99.32
VFG002415	WP_001131063	2526	*yagX/ecpC*	E. coli common pilus usher EcpC [ECP (VF0404) - Adherence (VFC0001)] [Escherichia coli O157:H7 str. EDL933]	99.96	99.96
VFG002416	WP_001265657	1644	*yagW/ecpD*	polymerized tip adhesin of ECP fibers [ECP (VF0404) - Adherence (VFC0001)] [Escherichia coli O157:H7 str. EDL933]	100	100
VFG002417	WP_001301550	711	*yagV/ecpE*	E. coli common pilus chaperone EcpE [ECP (VF0404) - Adherence (VFC0001)] [Escherichia coli O157:H7 str. EDL933]	100	100
VFG043623	WP_002916122	636	*mrkF*	type 3 fimbrial minor pilin subunit MrkF [Type 3 fimbriae (VF0567) - Biofilm (VFC0271)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG043624	WP_004149659	996	*mrkD*	fimbrial adhesin protein precursor MrkD [Type 3 fimbriae (VF0567) - Biofilm (VFC0271)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100

VFDB accession number	GenBank accession number	Length (bp)	Virulence gene	Gene product	MPB 1	MPB 17
VFG043625	WP_000813718	2487	*mrkC*	fimbrial biogenesis outer membrane usher protein mrkC precursor [Type 3 fimbriae (VF0567) - Biofilm (VFC0271)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG043626	WP_000820818	702	*mrkB*	fimbrial chaperone protein mrkB precursor [Type 3 fimbriae (VF0567) - Biofilm (VFC0271)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG043627	WP_000756959	609	*mrkA*	type 3 fimbrial major pilin subunit MrkA [Type 3 fimbriae (VF0567) - Biofilm (VFC0271)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG044322	WP_004190148	936	*iroE*	siderophore esterase IroE [Sal (VF0563) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG044326	WP_001327262	1713	*ybtP**	yersiniabactin ABC transporter ATP-binding/permease protein YbtP [Ybt (VF0564) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	ND	100
VFG048229	WP_015875142	606	*fimB*	tyrosine recombinase [Type I fimbriae (VF0566) - Adherence (VFC0001)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048237	WP_002916189	609	*fimE*	tyrosine recombinase [Type I fimbriae (VF0566) - Adherence (VFC0001)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048247	WP_002916190	549	*fimA*	type 1 major fimbrial subunit precursor [Type I fimbriae (VF0566) - Adherence (VFC0001)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048257	WP_004174507	537	*fimI*	type 1 pilus biosynthesis fimbrial protein [Type I fimbriae (VF0566) - Adherence (VFC0001)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048267	WP_015875145	726	*fimC*	periplasmic chaperone [Type I fimbriae (VF0566) - Adherence (VFC0001)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100

VFDB accession number	GenBank accession number	Length (bp)	Virulence gene	Gene product	MPB 1	MPB 17
VFG048277	WP_009308599	2613	*fimD*	outer membrane usher protein [Type I fimbriae (VF0566) - Adherence (VFC0001)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048287	WP_014906962	528	*fimF*	type 1 fimbrial minor component [Type I fimbriae (VF0566) - Adherence (VFC0001)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048297	WP_014906961	486	*fimG*	type 1 fimbrial minor component [Type I fimbriae (VF0566) - Adherence (VFC0001)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048307	WP_041937815	906	*fimH*	type 1 fimbrial adhesin precursor [Type I fimbriae (VF0566) - Adherence (VFC0001)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	99.67
VFG048317	WP_014906959	1413	*fimK*	transcriptional regulator [Type I fimbriae (VF0566) - Adherence (VFC0001)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048327	WP_004152886	705	*mrkH*	transcriptional activator [Type 3 fimbriae (VF0567) - Biofilm (VFC0271)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048338	WP_002916079	573	*mrkI*	LuxR family regulatory protein [Type 3 fimbriae (VF0567) - Biofilm (VFC0271)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048348	WP_004149658	717	*mrkJ*	phosphodiesterase [Type 3 fimbriae (VF0567) - Biofilm (VFC0271)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048409	WP_086074289	747	*entA*	23-dihydroxybenzoate-23-dehydrogenase [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048419	WP_004210873	852	*entB*	23-dihydro-23-dihydroxybenzoate synthetase isochroismatase [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048429	WP_004183353	1608	*entE*	enterobactin synthase subunit E [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048439	WP_014907941	1176	*entC*	isochorismate synthase [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100

VFDB accession number	GenBank accession number	Length (bp)	Virulence gene	Gene product	MPB 1	MPB 17
VFG048449	WP_012737621	960	*fepB*	iron-enterobactin transporter periplasmic binding protein [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048459	WP_004147525	1242	*entS*	enterobactin exporter EntS [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048468	WP_004176917	1008	*fepD*	iron-enterobactin transporter membrane protein [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048478	WP_004147521	993	*fepG*	iron-enterobactin transporter permease [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048488	WP_002893737	795	*fepC*	iron-enterobactin transporter ATP-binding protein [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048498	WP_012737619	3882	*entF*	enterobactin synthase subunit F [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048508	WP_012737618	1209	*fes*	enterobactin/ferric enterobactin esterase [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048518	WP_012737617	2229	*fepA*	outer membrane receptor FepA [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048528	WP_004183335	630	*entD**	enterochelin synthetase component D [Ent (VF0562) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	ND

VFDB accession number	GenBank accession number	Length (bp)	Virulence gene	Gene product	MPB 1	MPB 17
VFG048620	WP_014907843	2190	*iutA*	ferric aerobactin receptor IutA [Aerobactin (VF0565) - Nutritional/Metabolic factor (VFC0272)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048632	WP_004176434	492	*vipA/tssB*	type VI secretion system contractile sheath small subunit VipA [T6SS (VF0569) - Effector delivery system (VFC0086)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048643	WP_014907727	1545	*vipB/tssC*	type VI secretion system contractile sheath large subunit VipB [T6SS (VF0569) - Effector delivery system (VFC0086)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048654	WP_004224345	1344	*vasE/tssK*	type VI secretion system baseplate subunit TssK [T6SS (VF0569) - Effector delivery system (VFC0086)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048665	WP_004176431	690	*dotU/tssL*	type VI secretion system protein DotU/TssL family [T6SS (VF0569) - Effector delivery system (VFC0086)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048676	WP_014907726	1707	*ompA*	OmpA family protein [T6SS (VF0569) - Effector delivery system (VFC0086)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048687	WP_002902160	492	*hcp/tssD*	type VI secretion system protein Hcp family [T6SS (VF0569) - Effector delivery system (VFC0086)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048697	WP_015874721	2655	*clpV/tssH*	type VI secretion system ATPase TssH [T6SS (VF0569) - Effector delivery system (VFC0086)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048755	WP_049127998	3080	*icmF/tssM**	type VI secretion protein TssM [T6SS (VF0569) - Effector delivery system (VFC0086)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	ND	89.12

VFDB accession number	GenBank accession number	Length (bp)	Virulence gene	Gene product	MPB 1	MPB 17
VFG048771	WP_004190505	1755	*tssF**	type VI secretion system baseplate subunit TssF [T6SS (VF0569) - Effector delivery system (VFC0086)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	ND	100
VFG048779	WP_004190503	1086	*tssG**	type VI secretion system baseplate subunit TssG [T6SS (VF0569) - Effector delivery system (VFC0086)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	ND	100
VFG048787	WP_004176417	543	*sciN/tssJ**	type VI secretion system lipoprotein TssJ [T6SS (VF0569) - Effector delivery system (VFC0086)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	ND	100
VFG048797	WP_004175261	1167	*ugd*	UDP-glucose 6-dehydrogenase [Capsule (VF0560) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048808	WP_004899416	1371	*rfbK1*	O9 family phosphomannomutase RfbK1 [Capsule (VF0560) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048819	WP_014907234	1416	KP1_RS17280	mannose-1-phosphate guanylyltransferase/mannose-6-phosphate isomerase [Capsule (VF0560) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048830	WP_014907233	1407	*gndA*	NADP-dependent phosphogluconate dehydrogenase [Capsule (VF0560) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048972	WP_014907221	1127	KP1_RS17340*	polysaccharide export protein [Capsule (VF0560) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	ND	99.29
VFG048980	WP_041937790	1440	KP1_RS17345	capsule assembly Wzi family protein [Capsule (VF0560) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG048985	WP_014907219	629	KP1_RS17355	phosphatase PAP2 family protein [Capsule (VF0560) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	99.84	99.68

VFDB accession number	GenBank accession number	Length (bp)	Virulence gene	Gene product	MPB 1	MPB 17
VFG048990	WP_001741945	891	*galF*	GalU regulator GalF [Capsule (VF0560) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG049007	WP_002911561	624	*rcsA*	transcriptional activator for ctr capsule biosynthesis [RcsAB (VF0571) - Regulation (VFC0301)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG049018	WP_002913007	651	*rcsB*	transcriptional regulator RcsB [RcsAB (VF0571) - Regulation (VFC0301)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG049029	WP_014907241	1209	KP1_RS17220*	glycosyltransferase [LPS (VF0561) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	ND	100
VFG049040	WP_074160401	1137	KP1_RS17225	glycosyltransferase family 4 protein [LPS (VF0561) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	99.48	100
VFG049051	WP_014907239	894	KP1_RS17230	glycosyltransferase [LPS (VF0561) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG049062	WP_015875020	1155	*rfbD*	UDP-galactopyranose mutase [LPS (VF0561) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG049073	WP_015875021	1896	KP1_RS17240	DUF4422 domain-containing protein [LPS (VF0561) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG049084	WP_004175264	741	*rfbB*	O-antigen export ABC transporter ATP-binding protein RfbB [LPS (VF0561) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG049095	WP_002912373	768	*rfbA*	O-antigen export ABC transporter permease RfbA [LPS (VF0561) - Immune modulation (VFC0258)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
VFG049133	WP_004177236	1194	*acrA*	acriflavine resistance protein A [AcrAB (VF0568) - Antimicrobial activity/Competitive advantage (VFC0325)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100

VFDB accession number	GenBank accession number	Length (bp)	Virulence gene	Gene product	MPB 1	MPB 17
VFG049144	WP_002892069	3147	*acrB*	acriflavine resistance protein B [AcrAB (VF0568) - Antimicrobial activity/Competitive advantage (VFC0325)] [Klebsiella pneumoniae subsp. pneumoniae NTUH-K2044]	100	100
				Total number of virulence genes detected	66	82

VFDB: Virulence Factor Database; ND: not detected

* Genes marked with an asterisk indicate differences in detection between MPB 1 and MPB 17.