

**Table S4.** Genbank accession numbers corresponding to *wzm* and *wzt* gene sequences used in the K-PAM database construction.

O-antigen	Genbank ID	Organism	Strain	Country of source of the strain samples	Pubmed reference ID
01	AB819964	<i>Klebsiella pneumoniae</i>	Friedlander 204		26719438
	L31775	<i>Klebsiella pneumoniae</i>	01:K20 "889/50"		7533882 9004408
	LC114147	<i>Klebsiella pneumoniae</i>	B5055	Denmark	26719438
	LC114148	<i>Klebsiella pneumoniae</i>	A5054	Denmark	26719438
	LC119072	<i>Klebsiella pneumoniae</i>	Aerogenes 4140	Denmark	26719438
	LC119073	<i>Klebsiella pneumoniae</i>	Klebs. 1015	Denmark	26719438
	LC119074	<i>Klebsiella pneumoniae</i>	Klebs. 919	Denmark	26719438
02	LC114979	<i>Klebsiella pneumoniae</i>	C5046	Denmark	26719438
	LC119075	<i>Klebsiella pneumoniae</i>	6613	Denmark	26719438
	LC119076	<i>Klebsiella pneumoniae</i>	5758	Denmark	26719438
02ac	LC114980	<i>Klebsiella pneumoniae subsp. ozaenae</i>	D5050	Denmark	26719438
	LC114981	<i>Klebsiella pneumoniae subsp. ozaenae</i>	E5051	Denmark	26719438
02aeh	MG280710	<i>Klebsiella pneumoniae</i>	CWK53		
03	AB010295	<i>Klebsiella pneumoniae</i>	K53 serotype 03		9573168
	AB010296	<i>Klebsiella pneumoniae</i>	K49S serotype 03		9573168
	AB795941	<i>Klebsiella pneumoniae</i>	636/52	Denmark	26719438
	KY652949	<i>Klebsiella pneumoniae</i>	PMC-11		

	KY652950	<i>Klebsiella pneumoniae</i>	Kp81		
	LC120321	<i>Klebsiella pneumoniae</i>	6258	Denmark	26719438
	LC120322	<i>Klebsiella pneumoniae</i>	6168	Denmark	26719438
	LC122556	<i>Klebsiella variicola</i>	1196	Denmark	26719438
	LC122557	<i>Klebsiella variicola</i>	6115	Denmark	26719438
	LC122558	<i>Klebsiella pneumoniae</i>	4715/50	Denmark	26719438
	LC122559	<i>Klebsiella variicola</i>	1756/51	Denmark	26719438
	LC123626	<i>Klebsiella variicola</i>	Stanley	Denmark	26719438
	LC123627	<i>Klebsiella pneumoniae</i>	3985/51	Denmark	26719438
	LC123628	<i>Klebsiella oxytoca</i>	371	Denmark	26719438
	LT174603	<i>Klebsiella pneumoniae</i>	AKPRH0770 88		
	LT174604	<i>Klebsiella pneumoniae</i>	539		
04	KU310493	<i>Klebsiella pneumoniae</i>	Mich. 61		26719438
	LC101971	<i>Klebsiella pneumoniae</i>	Mich.61	Denmark	26719438
	LT174605	<i>Klebsiella pneumoniae</i>	AJ214		
05	AB819962	<i>Klebsiella pneumoniae</i>	5710/52	Denmark	26719438
	AF189151	<i>Klebsiella pneumoniae</i>			10768928
	LC126330	<i>Klebsiella variicola</i>	4425/51	Denmark	26719438
	LC127214	<i>Klebsiella quasipneumoniae</i>	4463/52	Denmark	26719438
	LC127216	<i>Klebsiella variicola</i>	4349	Denmark	26719438
	LT174606	<i>Klebsiella pneumoniae</i>	AKPRH1202 322		
08	AB819963	<i>Klebsiella pneumoniae</i>	889		26719438

	LC127215	<i>Raoultella terrigena</i>	265(1)	Denmark	26719438
O9	LC107950	<i>Raoultella ornithinolytica</i>	1205	Denmark	26719438
O12	AB795942	<i>Klebsiella quasipneumoniae</i>	708	Denmark	26719438
	AF097519	<i>Klebsiella pneumoniae</i>			12591881
	LT174600	<i>Klebsiella pneumoniae</i>	AKPRH0941 88		
OL101	LT174596	<i>Klebsiella pneumoniae</i>	262		
OL102	LT174597	<i>Klebsiella pneumoniae</i>	K261An		
OL103	LT174598	<i>Klebsiella pneumoniae</i>	QMP		
OL104	LT174599	<i>Klebsiella pneumoniae</i>	D-026-I-b-1		