

Table S3. Genbank accession numbers corresponding to the CPS locus used in the K-PAM database construction.

K-antigen	Genbank ID	Organism	Strain	Country of source of the strain samples	Pubmed reference ID
K1	AB198423	<i>Klebsiella pneumoniae</i>	NTUH-K2044	Taiwan	16453259
K1	AB355924	<i>Klebsiella pneumoniae</i>	NTUH-K2044	Taiwan	17599305
K1	AB924547	<i>Klebsiella pneumoniae</i>	NTUH-K2044	Taiwan	26493302
K1	AP006725	<i>Klebsiella pneumoniae</i>	NTUH-K2044	Taiwan	19447910
K1	AY762939	<i>Klebsiella pneumoniae</i>	DTS	Taiwan	16687604
K1	CP016813	<i>Klebsiella pneumoniae</i>	ED2	Taiwan	
K1	LT174541	<i>Klebsiella pneumoniae</i>	NCTC20110		
K2	AB371296	<i>Klebsiella pneumoniae</i>	VGH525	Taiwan	
K2	CP006722	<i>Klebsiella pneumoniae</i>	1158	Taiwan	
K2	CP006738	<i>Klebsiella pneumoniae</i> HK787	HK787		
K2	KJ541664	<i>Klebsiella pneumoniae</i>	ATCC 43816		25203254
K2	LT174548	<i>Klebsiella pneumoniae</i>	AKPRH0737 49		
K3	FQ311478	<i>Klebsiella pneumoniae</i> subsp. <i>rhinoscleromatis</i>	SB3432		21629720
K3	LC176888	<i>Klebsiella pneumoniae</i>	C5046	Denmark	
K3	LT174553	<i>Klebsiella pneumoniae</i>	AKPRH1010 82		
K4	AB924548	<i>Klebsiella pneumoniae</i>	D5050		26493302
K5	AB289645	<i>Klebsiella pneumoniae</i> subsp. <i>ozaenae</i>	Kauffmann E5051	Denmark	17599305

K5	AB289646	<i>Klebsiella pneumoniae</i>	NTUH-K9534	Taiwan	17599305
K5	AB371292	<i>Klebsiella pneumoniae</i>	VGH404		19744990
K5	LT174568	<i>Klebsiella pneumoniae</i>	DM17337/04		
K6	AB924549	<i>Klebsiella pneumoniae</i>	F052		26493302
K6	LT174571	<i>Klebsiella pneumoniae</i>	AKPRH1200 41		
K7	AB924550	<i>Klebsiella aerogenes</i>	4140		26493302
K8	AB924551	<i>Klebsiella pneumoniae</i>	1015		26493302
K9	AB371293	<i>Klebsiella pneumoniae</i>	VGH484		19744990
K9	AB719996	<i>Klebsiella pneumoniae</i>	ATCC 29013		24349011
K9	LC186018	<i>Klebsiella pneumoniae</i>	Klebs.56	Denmark	
K9	LT174573	<i>Klebsiella pneumoniae</i>	1884		
K10	AB371291	<i>Klebsiella pneumoniae</i>	NK245		19744990
K10	AB924552	<i>Klebsiella pneumoniae</i>	919		26493302
K10	LT174532	<i>Klebsiella pneumoniae</i>	AKPRH1008 98		28348868
K11	AB924553	<i>Klebsiella pneumoniae</i>	390		26493302
K11	LT174533	<i>Klebsiella pneumoniae</i>	QMP		
K12	AB924554	<i>Klebsiella pneumoniae</i>	313		26493302
K12	LT174534	<i>Klebsiella pneumoniae</i>	16		
K13	AB720001	<i>Klebsiella pneumoniae</i>	Klebsiella 1470		24349011
K13	AB924555	<i>Klebsiella pneumoniae</i>	BIDMC 47		26493302
K13	LT174535	<i>Klebsiella pneumoniae</i>	AKPRH1280 60		
K14	AB371294	<i>Klebsiella pneumoniae</i>	VGH916		19744990

K14	AB720003	<i>Raoultella planticola</i>	Klebsiella 1193		24349011
K14	LC177421	<i>Klebsiella pneumoniae</i>	Klebs.1193	Denmark	
K15	AB819895	<i>Klebsiella sp. Mich. 61</i>	Mich. 61	Denmark	24349011
K15	AB924556	<i>Klebsiella sp. Mich. 61</i>	Mich. 61		26493302
K15	LT174536	<i>Klebsiella pneumoniae</i>	AKPRH0781 73		
K16	AB720005	<i>Klebsiella pneumoniae</i>	can0416		24349011
K16	AB742228	<i>Klebsiella pneumoniae</i>	2069/49		24349011
K16	LC190722	<i>Klebsiella pneumoniae</i>	NTUH-K5200	Taiwan	
K16	LT174537	<i>Klebsiella pneumoniae</i>	329		
K17	AB924557	<i>Klebsiella sp. 2005/49</i>	2005/49		26493302
K17	LT174538	<i>Klebsiella pneumoniae</i>	AKPRH0881 18		
K18	AB924558	<i>Klebsiella sp. 1754/49</i>	1754/49		26493302
K18	LT174539	<i>Klebsiella pneumoniae</i>	QMP		
K19	AB924559	<i>Klebsiella sp. 1754/49</i>	1754/49		26493302
K19	LT174540	<i>Klebsiella pneumoniae</i>	441		
K20	AB289647	<i>Klebsiella pneumoniae</i>	889/50	Denmark	17599305
K20	AB289648	<i>Klebsiella pneumoniae</i>	NTUH-KP13	Taiwan	17599305
K20	AF118250	<i>Klebsiella pneumoniae</i>	889/50		10094716
K20	LT174542	<i>Klebsiella pneumoniae</i>	AKPRH1294 431		
K21	AB924560	<i>Klebsiella sp. 1702/49</i>	1702/49		26493302
K22	AB819893	<i>Klebsiella sp. 1996/49</i>	1996/49	Denmark	24349011

K22	LT174543	<i>Klebsiella pneumoniae</i>	AF		
K23	AB742229	<i>Klebsiella pneumoniae</i>	2812/50		24349011
K23	AB924561	<i>Klebsiella sp.</i> 2812/50	2812/50		26493302
K24	AB924562	<i>Klebsiella sp.</i> 1680/49	1680/49		26493302
K24	LT174544	<i>Klebsiella pneumoniae</i>	352		
K25	AB924563	<i>Klebsiella sp.</i> 2002/49	2002/49		26493302
K25	LT174545	<i>Klebsiella pneumoniae</i>	AKPRH1339 62		
K26	AB720017	<i>Klebsiella oxytoca</i>	5884		24349011
K26	AB924564	<i>Klebsiella sp.</i> 5884	5884		26493302
K27	AB720018	<i>Klebsiella pneumoniae</i>	6613		24349011
K27	AB924565	<i>Klebsiella sp.</i> 6613	6613		26493302
K27	LT174546	<i>Klebsiella pneumoniae</i>	AKPRH0904 49		
K28	AB720019	<i>Klebsiella pneumoniae</i>	5758		24349011
K28	AB924566	<i>Klebsiella sp.</i> 5758	5758		26493302
K28	LT174547	<i>Klebsiella pneumoniae</i>	281		
K29	AB924567	<i>Klebsiella sp.</i> 5725y	5725y		26493302
K30	AB720021	<i>Klebsiella pneumoniae</i>	7824		24349011
K30	AB924568	<i>Klebsiella sp.</i> 7824	7824		26493302
K30	LT174549	<i>Klebsiella pneumoniae</i>	QMP		
K31	AB720022	<i>Klebsiella pneumoniae</i>	6258		24349011
K31	AB924569	<i>Klebsiella sp.</i> 6258	6258		26493302
K31	LT174550	<i>Klebsiella pneumoniae</i>	AKPRH1044 73		
K32	AB720023	<i>Raoultella planticola</i>	6837		24349011
K32	AB924570	<i>Klebsiella sp.</i>	6837		26493302

		6837			
K33	AB720024	<i>Klebsiella pneumoniae</i>	6168		24349011
K33	AB924571	<i>Klebsiella sp.</i> 6168	6168		26493302
K34	AB720025	<i>Klebsiella pneumoniae</i>	7522		24349011
K34	AB924572	<i>Klebsiella sp.</i> 7522	7522		26493302
K35	AB720026	<i>Raoultella planticola</i>	7444		24349011
K35	AB924573	<i>Klebsiella sp.</i> 7444	7444		26493302
K36	AB720650	<i>Klebsiella pneumoniae</i>	8306		24349011
K36	AB924574	<i>Klebsiella sp.</i> 8306	8306		26493302
K37	AB720651	<i>Klebsiella pneumoniae</i>	8238		24349011
K37	AB819894	<i>Klebsiella sp.</i> 8238	8238	Denmark	24349011
K37	AB924575	<i>Klebsiella sp.</i> 8238	8238		26493302
K38	AB720652	<i>Klebsiella pneumoniae</i>	8414		24349011
K38	AB924576	<i>Klebsiella sp.</i> 8414	8414		26493302
K38	LT174551	<i>Klebsiella pneumoniae</i>	QMP		
K39	AB742230	<i>Klebsiella pneumoniae</i>	7749		24349011
K39	LT174552	<i>Klebsiella pneumoniae</i>	EW-33-R- MAC-2		
K40	AB720654	<i>Klebsiella pneumoniae</i>	8588		24349011
K40	AB924577	<i>Klebsiella sp.</i> 8588	8588		26493302
K41	AB720655	<i>Klebsiella pneumoniae</i>	6177		24349011
K41	AB924578	<i>Klebsiella sp.</i> 6177	6177		26493302
K42	AB924579	<i>Klebsiella sp.</i> 1702	1702		26493302
K42	LT174554	<i>Klebsiella pneumoniae</i>	K231An		
K43	AB720657	<i>Klebsiella pneumoniae</i>	2482		24349011

K43	AB924580	<i>Klebsiella sp.</i> 2482	2482		26493302
K43	LT174555	<i>Klebsiella pneumoniae</i>	QMP		
K44	AB720658	<i>Raoultella planticola</i>	7730		24349011
K44	AB924581	<i>Klebsiella sp.</i> 7730	7730		26493302
K45	AB819892	<i>Klebsiella sp.</i> 8464	8464	Denmark	24349011
K45	AB924582	<i>Klebsiella sp.</i> 8464	8464		26493302
K45	LT174556	<i>Klebsiella pneumoniae</i>	AKPRH0704 8		
K46	AB720660	<i>Klebsiella pneumoniae</i>	5281		24349011
K46	AB924583	<i>Klebsiella sp.</i> 5281	5281		26493302
K46	LT174557	<i>Klebsiella pneumoniae</i>	AKPRH1288 62		
K47	AB924584	<i>Klebsiella sp.</i> 9682	9682		26493302
K47	LT174558	<i>Klebsiella pneumoniae</i>	DU46543/08		
K48	AB720662	<i>Raoultella planticola</i>	1196		24349011
K48	AB924585	<i>Klebsiella sp.</i> 1196	1196		26493302
K48	LT174559	<i>Klebsiella pneumoniae</i>	159		
K49	AB720663	<i>Raoultella planticola</i>	6115		24349011
K49	AB924586	<i>Klebsiella sp.</i> 6115	6115		26493302
K49	LT174560	<i>Klebsiella pneumoniae</i>	QMP		
K50	AB822494	<i>Klebsiella sp.</i> 1303/50	1303/50	Denmark	24349011
K50	AB924587	<i>Klebsiella sp.</i> 1303/50	1303/50		26493302
K51	AB924588	<i>Klebsiella sp.</i> 4715/50	4715/50		26493302
K51	LT174561	<i>Klebsiella pneumoniae</i>	AKPRH1283 19		

K52	AB819898	<i>Klebsiella sp.</i> 5759/50	5759/50	Denmark	24349011
K52	AB924589	<i>Klebsiella pneumoniae</i>	MGH 78578		26493302
K52	LT174562	<i>Klebsiella pneumoniae</i>	AKPRH0747 2		
K53	AB924590	<i>Klebsiella sp.</i> 1756/51	1756/51		26493302
K54	AB289649	<i>Raoultella planticola</i>	Stanley	Denmark	17599305
K54	AB289650	<i>Klebsiella pneumoniae</i>	NTUH-KP35	Taiwan	17599305
K54	AB720668	<i>Klebsiella pneumoniae</i>	can0405		24349011
K54	AB720670	<i>Klebsiella pneumoniae</i>	B33		24349011
K54	AB720671	<i>Klebsiella pneumoniae</i>	E8		24349011
K54	AB924591	<i>Klebsiella pneumoniae</i>	NTUH-KP35		26493302
K54	LT174563	<i>Klebsiella pneumoniae</i>	U		
K55	AB924592	<i>Klebsiella sp.</i> 3985/51	3985/51		26493302
K55	LT174564	<i>Klebsiella pneumoniae</i>	QMP		
K56	AB924593	<i>Klebsiella sp.</i> 3534/51	3534/51		26493302
K56	LT174565	<i>Klebsiella pneumoniae</i>	C-017-I-a-1		
K57	AB289651	<i>Raoultella planticola</i>	4425/51	Denmark	17599305
K57	AB289652	<i>Raoultella planticola</i>	4425/51	Denmark	17599305
K57	AB334776	<i>Klebsiella pneumoniae</i>	A1142		18508935
K57	AB720675	<i>Raoultella planticola</i>	4425/51		24349011
K57	AB720676	<i>Klebsiella pneumoniae</i>	H14		24349011
K57	AB720677	<i>Klebsiella pneumoniae</i>	Finland		24349011

K57	AB924594	<i>Klebsiella pneumoniae</i>	A1142		26493302
K57	LT174566	<i>Klebsiella pneumoniae</i>	AKPRH1214 64		
K58	AB924595	<i>Klebsiella sp.</i> 636/52	636/52		26493302
K58	LT174567	<i>Klebsiella pneumoniae</i>	AKPRH1145 63		
K59	AB924596	<i>Klebsiella sp.</i> 2212/52	2212/52		26493302
K60	AB924597	<i>Klebsiella sp.</i> 4463/52	4463/52		26493302
K61	AB924598	<i>Klebsiella sp.</i> 5710/52	5710/52		26493302
K62	AB290716	<i>Klebsiella pneumoniae</i>	NTUH-KP53	Taiwan	
K62	AB371295	<i>Klebsiella pneumoniae</i>	VGH698		19744990
K62	LC191858	<i>Klebsiella pneumoniae</i>	5711/52	Denmark	
K62	LT174569	<i>Klebsiella pneumoniae</i>	K77An		
K63	AB924599	<i>Klebsiella sp.</i> 5845/52	5845/52		26493302
K64	AB897511	<i>Klebsiella pneumoniae</i>	NCTC 8172		25451047
K64	AB924600	<i>Klebsiella sp.</i> NCTC 8172	NCTC 8172		26493302
K64	LT174570	<i>Klebsiella pneumoniae</i>	AKPRH1251 71		
K65	AB924601	<i>Klebsiella sp.</i> SW4	SW4		26493302
K66	AB924602	<i>Klebsiella sp.</i> 438(3a)	438(3a)		26493302
K67	AB720687	<i>Klebsiella pneumoniae</i>	264(1)		24349011
K67	AB924603	<i>Klebsiella sp.</i> 264(1)	264(1)		26493302
K68	AB924604	<i>Klebsiella sp.</i> 265(1)	265(1)		26493302
K69	AB924605	<i>Klebsiella sp.</i> 889	889		26493302
K70	AB924606	<i>Klebsiella sp.</i> 167	167		26493302
K71	AB924607	<i>Klebsiella sp.</i> 4349	4349		26493302
K72	AB924608	<i>Klebsiella sp.</i>	1205		26493302

		1205			
K74	AB924609	<i>Klebsiella sp.</i> 371	371		26493302
K79	AB819896	<i>Klebsiella sp.</i> 325	325	Denmark	24349011
K79	AB924610	<i>Klebsiella sp.</i> 325	325		26493302
K80	AB924611	<i>Klebsiella sp.</i> 708	708		26493302
K81	AB924612	<i>Klebsiella sp.</i> 370	370		26493302
K81	LT174572	<i>Klebsiella pneumoniae</i>	AKPRH1298 22		
K82	AB924613	<i>Klebsiella sp.</i> 3454-70	3454-70		26493302
KL103	LT174574	<i>Klebsiella pneumoniae</i>	AKPRH1292 74		
KL105	LT174575	<i>Klebsiella pneumoniae</i>	DU10252/04		
KL106	LT174576	<i>Klebsiella pneumoniae</i>	524		
KL108	LT174577	<i>Klebsiella pneumoniae</i>	K242An		
KL109	LT174578	<i>Klebsiella pneumoniae</i>	175		
KL110	LT174579	<i>Klebsiella pneumoniae</i>	214		
KL111	LT174580	<i>Klebsiella pneumoniae</i>	426		
KL112	LT174581	<i>Klebsiella pneumoniae</i>	484		
KL113	LT174582	<i>Klebsiella pneumoniae</i>	DX259/08		
KL114	LT174583	<i>Klebsiella pneumoniae</i>	QMP		
KL115	LT174584	<i>Klebsiella pneumoniae</i>	EW-67-R- MAC		
KL116	LT174585	<i>Klebsiella pneumoniae</i>	K263An		
KL117	LT174586	<i>Klebsiella pneumoniae</i>	ST		
KL118	LT174587	<i>Klebsiella pneumoniae</i>	QMP		
KL119	LT174588	<i>Klebsiella pneumoniae</i>	1824		

KL120	LT174589	<i>Klebsiella pneumoniae</i>	QMP		
KL121	LT174590	<i>Klebsiella pneumoniae</i>	AKPRH0747 63		
KL122	LT174591	<i>Klebsiella pneumoniae</i>	AKPRH1039 96		
KL123	LT174592	<i>Klebsiella pneumoniae</i>	AKPRH1202 322		
KL124	LT174593	<i>Klebsiella pneumoniae</i>	AKPRH1220 47		
KL125	LT174594	<i>Klebsiella pneumoniae</i>	AKPRH0837 21		
KL126	LT603702	<i>Klebsiella pneumoniae</i>	A-003-I-a-1		
KL127	LT603704	<i>Klebsiella pneumoniae</i>	INF097		
KL130	LT603706	<i>Klebsiella pneumoniae</i>	INF090		
KL131	LT603707	<i>Klebsiella pneumoniae</i>	INF092		
KL132	LT603708	<i>Klebsiella pneumoniae</i>	KL132		
KL133	LT603709	<i>Klebsiella pneumoniae</i>	INF132		
KL134	LT603710	<i>Klebsiella pneumoniae</i>	INF149		
KL135	LT603711	<i>Klebsiella pneumoniae</i>	KSB1_88		
KL136	LT603712	<i>Klebsiella pneumoniae</i>	KSB1_1C		
KL137	LT603713	<i>Klebsiella pneumoniae</i>	KSB1_10F		
KL138	LT603714	<i>Klebsiella pneumoniae</i>	KSB2_3A		
KL139	LT603715	<i>Klebsiella pneumoniae</i>	INF054		
KL140	LT603716	<i>Klebsiella pneumoniae</i>	INF156		
KL141	LT603717	<i>Klebsiella pneumoniae</i>	INF188		
KL142	LT603718	<i>Klebsiella pneumoniae</i>	INF198		
KL143	LT603719	<i>Klebsiella pneumoniae</i>	INF200		

KL144	LT603720	<i>Klebsiella pneumoniae</i>	INF207		
KL146	LT603721	<i>Klebsiella pneumoniae</i>	DR85/08		
KL148	LT603722	<i>Klebsiella pneumoniae</i>	137		
KL149	LT603723	<i>Klebsiella pneumoniae</i>	570		
KL150	KR007675	<i>Klebsiella pneumoniae</i>	09/370B		25861820
KL153	LT603725	<i>Klebsiella pneumoniae</i>	K280N		
KL159	LT603726	<i>Klebsiella pneumoniae</i>	262		
KN1	AB924614	<i>Klebsiella sp. A1517</i>	A1517		26493302
KN2	LT174595	<i>Klebsiella pneumoniae</i>	105		
KN3	AB897512	<i>Klebsiella pneumoniae</i>	N386		25451047
KN3	LC189075	<i>Klebsiella pneumoniae</i>	NTUH-K9444	Taiwan	