Table S2. Results of  $Klebsiella\ pneumoniae\ NTUH-K2044\ transposon\ mutants.$ 

Mutant	Probable interrupted	Function/probable function	Gene size	Tn
	gene (NTUH-K2044		(bp)	insertion
	ORF)			point
Mutants	with decreased biofilm	formation		
Cellular p	rocesses and signaling			
Tn4-87	KP1_0404	Putative secretion ATPase. Belongs to HlyD protein family	1220	566
		involved in multidrug resistance.		
Tn4-97	KP1_3573	Polymyxin B resistance protein, <i>pmrD</i> . Prolongs the half-life	245	32
		of phosphorylated-pmrA, which is a two-component system		
		regulator involved in modification of lipopolysaccharide and		
		polymyxin B resistance.		
Tn9-39	KP1_3178	Formate dehydrogenase H selenopolypeptide subunit, $fdhF$ .	2150	572
		Metabolism of formate under anaerobic conditions.		
Tn10-33	KP1_1271	Caseinolytic peptidase X homolog, clpx. A ATPase belonged	1274	763
		to the AAA+ (ATPases associated with various cellular		
		activities) family ATPases. Involves in the protein		
		degradation.		
Tn11-19	KP1_4552	Putative LuxR family bacterial regulatory protein.	584	469
		Transcriptional regulator that involves in the regulation of		
		quorum sensing.		
Tn12-06	KP1_0578	Putative exonuclease.	989	639
Tn20-28	KP1_3171	CRISPR-associated helicase Cas3 domain-containing	2615	2035
		(HD-nuclease and DEXD helicase domain) protein.		
		Unwinds DNA/DNA and DNA/RNA duplexes. Interferences		
		with virus proliferation.		
Surface m	olecules (capsule, adhes	sion polysaccharide, and pilin) biosynthesis		
Tn3-2	KP1_3720	Putative capsular polysaccharide export protein precursor,	1133	973
		wza. Capsular polysaccharide transport.		
Tn16-47	KP1_0383	Outer membrane protein, pgaA. Exopolysacharride	2489	511
		biosyntheis		
Tn19-26	KP1_3718	Inner membrane tyrosin kinase, wzc. Capsular biosynthesis	2153	1347
Tn24-36	KP1_4245	Probable pilin chaperone, fim. Pilin biosynthesis.	668	165
Carbohyd	rate transport and metab	polism		
Tn10-43	KP1_3030	6-phospho-beta-glucosidase A. Catalyzes the hydrolysis of	1421	475
		6-phospho-beta-D-glucosyl-(1,4)-D-glucose to produce		
		D-glucose and D-glucose and 6-phosphate. Participates in		
		glycolysis/gluconeogenesis.		

Tn12-16	KP1_2884	PTS system, cellobiose-specific IIC component, celB. One	1280	615					
		of subunit of the membrane permease, which is responsible							
		for the recognition and transport of the sugar across the							
		cytoplasmic membrane.							
Tn16-6,	KP1_0530	Trehalose-6-phosphate hydrolase, treC. Catalyzes the	1655	1505					
Tn18-57,		hydrolysis of trehalose-6-phosphate to produce glucose and							
Tn19-70		glucose-6-phosphate.							
Tn23-31	KP1_5472	Probable D-galactonate transport protein, dgoT. Belongs to	1337	180					
		Major Facilitator Superfamily.							
Unknown function									
Tn4-96	KP1_1830	Hypothetical protein. Unknown	122	-1352					
Tn8-61	KP1_2181	Hypothetical protein. Unknown	539	377					
Tn9-30	KP1_3087	Hypothetical protein. Unknown	326	3					
Tn14-86	KP1_3087	Hypothetical protein. Unknown	326	116					
Tn10-49	KP_p012	Hypothetical protein. Unknown	995	180					
Tn21-15	KP1_0662	Hypothetical protein. Unknown	2222	213					
Mutants with increased biofilm formation									
Inorganic ion transport and metabolism									
Tn10-23	KP1_0420	Small multidrug resistance protein, sugE. Confers resistance	317	-7					
		to quaternary cation compounds.							
Transcription									
Tn24-71	KP1_3465	Cold-shock protein, cspC. Regulates rpoS-dependent stress	209	-706					
		response, through stabilization of rpoS transcript.							
Unknown	Unknown function								
Tn10-19	KP1_2828	Conserved hypothetical protein. Unknown.	899	695					
Tn10-30	KP1_2389	Conserved hypothetical protein. Unknown.	1532	1358					