

Supplementary Table 1. Genetic differences between published *cps* loci of serotypes 35C and 42 (coding sequence only)

Nucleotide ^a	35C ^b	42 ^c	Gene	Function	Amino Acid ^d
3471	A	G	<i>cpsB/wzh</i>	Phosphotyrosine phosphatase	E152E
3477	T	C			I154I
3482	G	T			R156M^e
3536	C	A			G174G
3541	G	C			R176P
3543	T	G			Y177D
3566	T	G			A184A
3574	T	C			F187F
3577	A	G			L188L
3582	A	G			Q190R
3583	G	T			Q190R
3597	A	G			I195I
3599	C	G			I195I
6039	C	T	<i>cpsE/wchA</i>	Initiating glycosyltransferase	G293G
8484	A	G	<i>wzy</i>	Polymerase	K385K
9132	A	G	<i>wcrI</i>	Glycosyltransferase	Q152R

^a Nucleotide number is with respect to serotype 35C reference sequence (GenBank Accession No. CR931706)

^b Accession No. CR931706

^c Accession No. CR931715

^d Amino acid sequence differences are with respect to serotype 35C

^e Boldface indicates a missense substitution

Supplementary Table 2. Primers used for genetic manipulations in this study

Primer ^a	Sequence (5'-3') ^b	Description
5163	TTAGCGACAGGTGATCATAAGG	Upstream flanking region of <i>wciG</i> in 5705-06
3184	TTCTCCTTTTTATAATTTTTTTAAT CTGTTATTTAAATAG	Upstream flanking region of <i>wciG</i> in 5705-06
5230	TAAAAAAATTATAAAAAGGAGAA CAAGATGTACGATTATC	Downstream flanking region of <i>wciG</i> in 5705-06
3160	GTCTTGAGCTTTGACTGCC	Downstream flanking region of <i>wciG</i> in 5705-06
5229	CAAATTATTAGGAAAACTAGAG TGAGGAGGATATATTTG	<i>aad9</i> from pCLT1242
3184	TTCTCCTTTTTATAATTTTTTTAAT CTGTTATTTAAATAG	<i>aad9</i> from pCLT1242
5240	TAGCTAACTAGTTAGGAGGAAGG AAATAATAAATGAGAAAAAATCG AAATATCAACCTAG	<i>wciG</i> from 5705-06 with SpeI site
3196	TTTTTCGCATGCTTATAATTTGAC GATTCGATTGAAGTAAG	<i>wciG</i> from 5705-06 with SphI site

^aPrimers beginning in 5 or 3 indicate forward or reverse primers with respect to the reference sequence, respectively.

^bUnderlined residues indicate a restriction site.