

Table S1. SBA titers of different sources of bactericidal antibodies against strains in the presence of human complement

Antibody source	SBA titer against	
	S3	R3
Pooled vaccinees' sera	512	<8
Sera raised against S3	1,024	<8
Sera raised against R3	1,024	<8
α -PorA mAb	128	<8

Table S2. Oligonucleotide primers used in this study

Name	Sequence (5' to 3')	Used to amplify
NG541	ATGTCAATCAATACGTTTG	<i>oatC</i>
NG542	GCATGATTTAGAATTGCAGAG	<i>oatC</i>
NG634	AAACTTGCCCTGCCGTCCTT	<i>Cps</i>
NG635	TCTGCAACCCTTAGCAAAATAG	<i>Cps</i>
NG636	TCCAAATTTTCGCCATGCTTC	<i>Cps</i>
NG637	TCATCCACTAAAAACCCTGCTTC	<i>Cps</i>
NG638	CGTTGTTGTTTGCATTAGC	<i>Cps</i>
NG639	ACATCGCTGCCAAATATCC	<i>Cps</i>
NG640	TTGCGATTGGCTGGATTGA	<i>Cps</i>
NG641	TTATTCGGGATGCCGTTTG	<i>Cps</i>
NG642	CGTAAAAATATAGGGAACTGGAT	<i>Cps</i>
NG643	GCCAGTTGGGTGAGATAGCTT	<i>Cps</i>
NG644	TTGCTTTGGAAGACGGCTTT	<i>Cps</i>
NG645	CTTTCGCCAAGTTAGGTTGTTG	<i>Cps</i>
NG670	TCGTCAAACCGTGCAAAA	<i>Cps</i>
NG671	TCGCCAAGTAGGTTGTTGGT	<i>Cps</i>
NG678	GATTCAAATCGATAAAACG	Product internal to NG638-639
NG679	ACCAAGTGGATATGAGAA	Product internal to NG638-639
NG680	TCTGAAGTTCAAATTCCT	Product internal to NG638-639
NG681	GAGGCTTATCGCTTTCTG	Product internal to NG638-639
NG682	CCGGTGCCTGAGTTTTAT	Product internal to NG638-639
NG683	CTGCCGGATTTGGCACAT	Product internal to NG638-639
NG684	ATGCTCACGAATGCTGGC	Product internal to NG638-639
NG685	AAATTGATCATCACCTGA	Product internal to NG638-639
NG686	GCCGGCAATCCACCAAT	Product internal to NG638-639
NG687	GCCGAAGCATAACCATCG	Product internal to NG638-639
NG688	GCACTGTAGGTGCATTA	Product internal to NG638-639
NG689	CCTTAATGGCGGAGATA	Product internal to NG638-639
NG732	GCTCTGGTACCTGTAATGCAA	<i>siaA-ctrA</i> IGR
NG733	ATTTTTTTGCGCTGGGG	<i>siaA-ctrA</i> IGR
NG742	GGCGTGTCCCTAATTTGAAT	IS 1301
NG743	GGGCGTGTCTCAATTTAACT	IS 1301
NG770	CGACTTCGGCAAGCTAAAA	<i>siaA</i> for RT-PCR
NG771	GACGAGAGATAAACGTAATGG	<i>siaA</i> for RT-PCR
NG772	TGTGTGGAAGTTAATTGTAGG	<i>ctrA</i> for RT-PCR
NG773	ATAACCATCGCCAACTGAG	<i>ctrA</i> for RT-PCR
NG886	AGTTTTACGACATTACCGCG	<i>gdh</i> for RT-PCR
NG887	TCAAGATAGCCGTTATGCCT	<i>gdh</i> for RT-PCR