TABLE S2 Plasmids used in this study

Plasmid	Description	Source
pGEM-T Easy	Cloning vector for PCR products; Ap^r	Promega
pGEM695	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *arcA*	This study
pGEM696	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *arcA* interrupted by *ermB* resistance gene cassettes for mutagenesis	This study
pGEM611	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *arcC*	This study
pGEM612	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *arcC* interrupted by *ermB* resistance gene cassettes for mutagenesis	This study
pGEM905	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *arcA-C* interrupted by *ermB* resistance gene cassettes for mutagenesis	This study
pGEM615	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *arcT*	This study
pGEM707	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *arcT* interrupted by *ermB* resistance gene cassettes for mutagenesis	This study
pGEM719	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *arcA-T* interrupted by *ermB* resistance gene cassettes for mutagenesis	This study
pGEM699	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *argR2*	This study
pGEM700	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *argR2* interrupted by *ermB* resistance gene cassettes for mutagenesis	This study
pGEM703	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *ahrC*	This study
pGEM704	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of ah*rC* interrupted by *ermB* resistance gene cassettes for mutagenesis	This study
pGEM708	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *argR1*	This study
pGEM709	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *argR1* interrupted by *ermB* resistance gene cassettes for mutagenesis	This study
pGEM868	pGEM-T easy derivative vector with the subcloned 5' and 3'-end homolog fragments of *ply* interrupted by *cat* resistance gene cassettes for mutagenesis	This study
pET28	a T7-based protein expression vector carrying an N-terminal His tag, Km^r	Novagen
pTP1	pET28 expression vector with a TEV protease	Saleh *et al*., 2013 (1)
pET698	*arcA* for protein expression and mouse immunization	This study
pET883	*arcB* for protein expression and mouse immunization	This study
pET885	*arcC* for protein expression and mouse immunization	This study
pET702	*argR2* for protein expression and mouse immunization	This study
pET706	*ahrC* for protein expression and mouse immunization	This study
pET711	*argR1* for protein expression and mouse immunization	This study
Cm, chloramphenicol; Km, kanamycin; Erm, erythromycin; Spe, spectinomycin; r, resistant		

Supplemental REFERENCE

1. **Saleh M, Bartual SG, Abdullah MR, Jensch I, Asmat TM, Petruschka L, Pribyl T, Gellert M, Lillig CH, Antelmann H, Hermoso JA, Hammerschmidt S.** 2013. Molecular architecture of Streptococcus pneumoniae surface thioredoxin-fold lipoproteins crucial for extracellular oxidative stress resistance and maintenance of virulence. EMBO Mol Med **5:**1852-1870.