Supplemental table S1. Bacterial strains and plasmids used in this study.

	Description	Antibiotics*	Reference
GAS strains			
JRS4	M6 strain.	Sm	26
JRS4Δ*slo*	SLO-defective mutant of JRS4.	Sm, Km	This study
JRS4Δ*slo*-comp	JRS4Δ*slo* with an IPTG-inducible SLO-expressing-plasmid.	Sm, Km, Tet	This study
E. coli			
DH10B	Plasmid construction and propagation.	-	Invitrogen
Plasmids			
pSF151	Shuttle vector for the construction of GAS mutant strains.	Km	27
pSF151-fSLO	pSF151 harboring an internal fragment of *slo* gene.	Km	This study
pENTR-SD-TOPO	Cloning vector adapted for Gateway system.	Km	Invitrogen
pOGW	IPTG inducible vector for protein expression.	Tet	29
pOGW-SLO	pOGW harboring intact *slo* gene.	Tet	This study
pEGFP-LC3	Expression plasmid for EGFP-fused LC3.	Km	30
pmCherry-1	Vector for the expression of mCherry-fused protein.	Km	Clontech
pmCherry-LC3	Expression plasmid for mCherry-fused LC3.	Km	This study
pENTR11	Cloning vector adapted for Gateway system.	Km	Invitrogen
pENTR-EGFP-LC3	pENTR11 harboring EGFP-fused LC3 expressing gene.	Km	This study
pKF19K	Vector used for the induction of mutation.	Km	Takara
pcDNA3.1 Zeo(+)	Vector for protein expression.	Amp	Invitrogen
pcDNA3.1 Zeo(+)-EGFP-Rab5	Expression plasmids for EGFP-fused Rab5.	Amp	This study
pcDNA3.1 Zeo(+)-EGFP-Rab5Q79H, Rab5S34N	Expression plasmids for EGFP-fused mutant Rab5.	Amp	This study
pcDNA3.1 Zeo(+)-EGFP-Rab7	Expression plasmids for EGFP-fused Rab7.	Amp	This study
pcDNA3.1 Zeo(+)-EGFP-Rab7Q67L, Rab7T22N	Expression plasmids for EGFP-fused mutant Rab7.	Amp	This study
pAd/CMV/V5-DEST	Plasmid for protein-expressing adenovirus.	Amp	Invitrogen

Supplemental table S1, continued.

	Description	Antibiotics*	Reference
pAd-EGFP-Rab5	Plasmid for the production of Rab5 protein-expressing-adenovirus.	Amp	This study
pAd-EGFP-Rab5Q79H, Rab5S34N	Plasmids for the production of mutant Rab5 protein-expressing-adenovirus.	Amp	This study
pAd-EGFP-Rab7	Plasmid for the production of Rab7 protein-expressing-adenovirus.	Amp	This study
pAd-EGFP-Rab7Q67L, Rab7T22N	Plasmids for the production of mutant Rab7 protein-expressing-adenovirus.	Amp	This study

*Antibiotics; Resistance to antibiotics.

Abbreviations: Sm, Streptomycin; Amp, ampicillin; Km, Kanamycin; Tet, Tetracycline.

Supplemental table S2. Sequences of synthetic oligonucleotides used for PCR and mutagenesis.

Target gene or purpose	Primer sequence
slo, internal fragment	5'-GAGAATTCGAGCGAAGAAGATCACACTGAAGA
	5'-GAGGATCCGCTTGTATGCTGCAATCATCACCT
Rab5	5'-CACCATGGCTAGTCGAGGCGCAACAAGA
	5'-TTAGTTACTACAACACTGATTCCTGGTT
Rab7	5'-CACCATGACCTCTAGGAAGAAAGTGTTG
	5'-TCAGCAACTGCAGCTTTCTGCCGAGGCC
Intact *slo*	5'-CACCCACCATGAAGGACATGTCTAATAAAAAAACATTT
	5'-CTACTTATAAGTAATCGAACCATATGGGCT
Rab5Q67L	5'- GCTGGTCTAGAACGATACCATAGCCTA
	5'- TCGTTCTAGACCAGCTGTATCCCATAT '
Rab5S34N	5'- GGCAAAAATAGCCTAGTGCTTCGTTTT
	5'- TAGGCTATTTTTGCCAACAGCGGACTC
Rab7Q67L	5'- GCAGGACTCGAACGGTTCCAGTCTCTC
	5'- CCGTTCGAGTCCTGCTGTGTCCCATAT
Rab7T22N	5'- GGGAAGAATTCACTCATGAACCAGTAT
	5'- AGTGAATTCTTCCCGACTCCAGAATC

Underlines show restriction enzyme sites or mutagenesis sites.