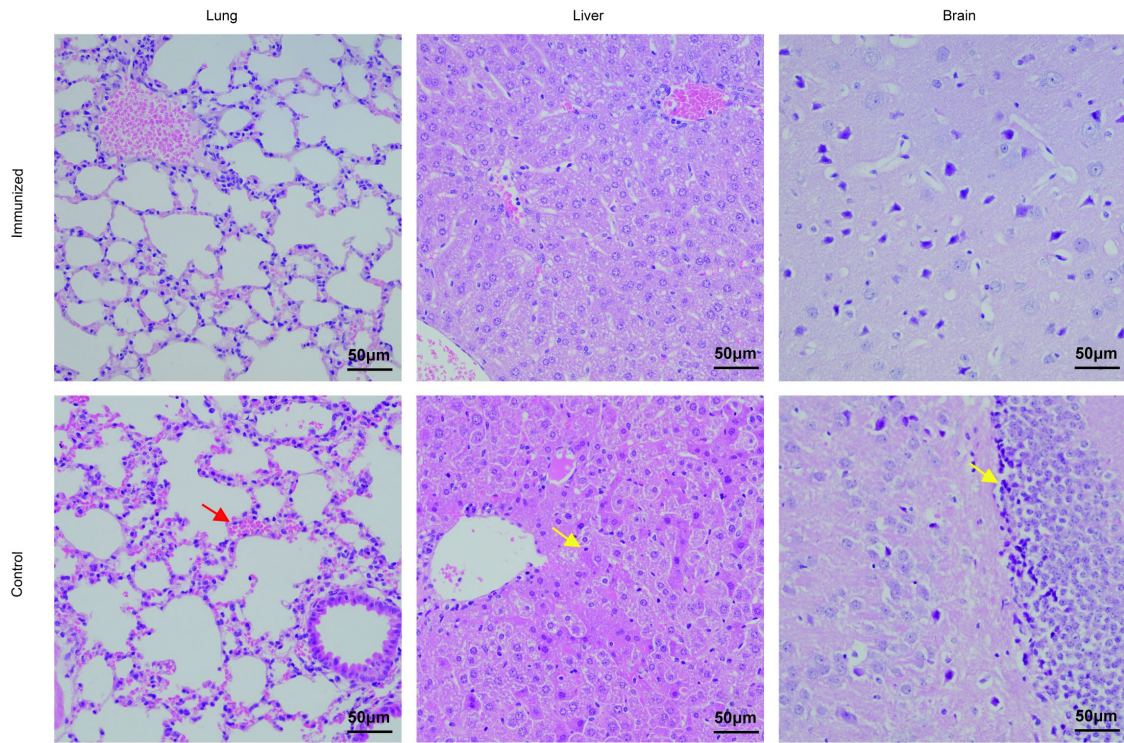


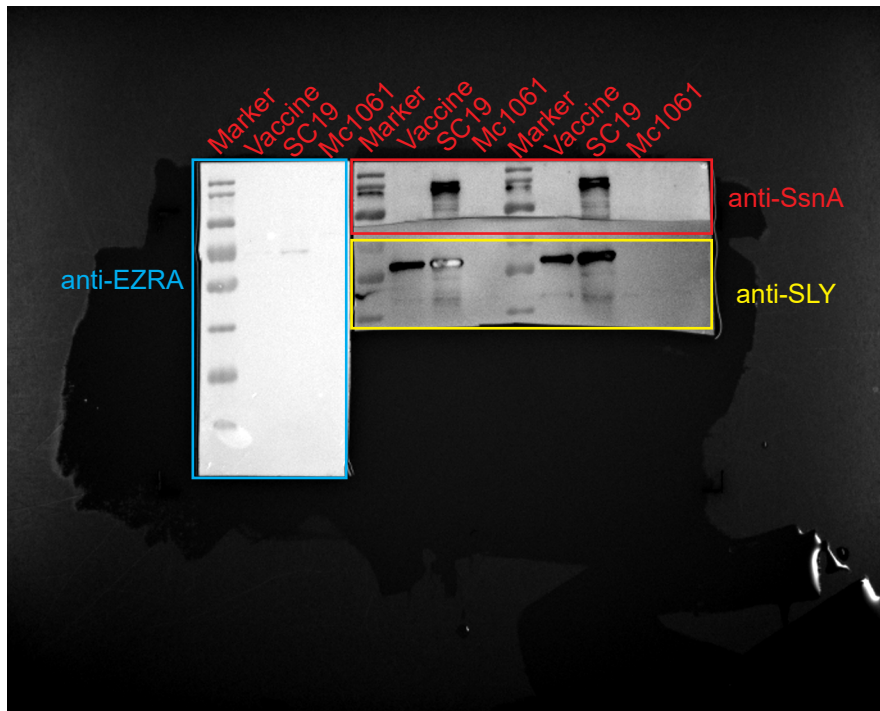
**Table S1.** Primers used for the construction of  $\Delta cps/ssna-msly$  (P353L)-SC19.

Primer	Sequence	Function	Target sequence
ECORI-E-1	AAAGAATTCGGCTCGTGCTATATTCTCTTG G	Amplification of left arm sequence of <i>cpsEF</i> gene for construction of the isogenic mutant with thermosensitive suicide vector pSET4S	481 bp
RONGHE- EF-2	GAATCTTTTTCATAACAGCTCCTCCACTATT TC		
RONGHE- EF-1	GAAATAGTGGAGGAGCTGTTATGAAAAAG ATTC	Amplification of right arm sequence of <i>cpsEF</i> gene for construction of the isogenic mutant with thermosensitive suicide vector pSET4S	495 bp
BAMHI-F-2	AAAGAATCCGTTTGCCACAGCCTGTG		
DSsnA-LF1	GGCGAATTCTGTTTCGCATCAGTCGTAG	Amplification of left arm sequence of <i>ssna</i> gene for construction of the isogenic mutant with thermosensitive suicide vector pSET4S	650 bp
DSsnA-LR1	GAACCAGGGCGTATCTCTTCATATAAAACT CCTTTTGTAT		
Dssna-RL1	GAAAGATCGCCGTGTAATCATTCTTTTGAGC TTGAAAGCATGAC	Amplification of right arm sequence of <i>ssna</i> gene for construction of the isogenic mutant with thermosensitive suicide vector pSET4S	658 bp
Dssna-RR1	CGAGGATCCCAATTTCAACCTCGGTCGCTC		
SSNA-jd-1	GTTTTAAGTTGTTGAGCTGAAACAGTC	Primers for PCR identification of <i>ssna</i> mutant and sequencing	3303 bp (mutant) 4587 bp (WT)
SSNA-jd-2	GTCGCCATAAATGGCGGATAG		
CPSEF-F	GTTTATCCTGAAATACGATTGTGC	Primers for PCR identification of <i>cpsEF</i> mutant and sequencing	1891 bp (mutant) 3689 bp (WT)
CPSEF-R	TAATACACTTTATTATCTACCCCATG		
SLY-ATG-F	ATGAGAAAAAGTTCGCACTTGATTT	Primers for <i>sly</i> amplification and sequencing	1491 bp
SLY- wuTAA-R	CTCTATCACCTCATCCGCATACTGT		



**Supplementary Figure 1.** H&E staining performed on tissue samples from mice infected with SS9 strain at 24 h post-infection. Congestion in the lung and liver was indicated by a “red arrow”, while cell degeneration and necrosis were indicated by a “yellow arrow”.

A



B



**Fig1C. original blot figure**

(A):The expression of SsnA and SLY was detected by western blot, while EZRA served as a loading control, Mc1061 served as a negative control. The exposure time is 10 seconds.(B):The expression of EZRA.The exposure time is 20 seconds.