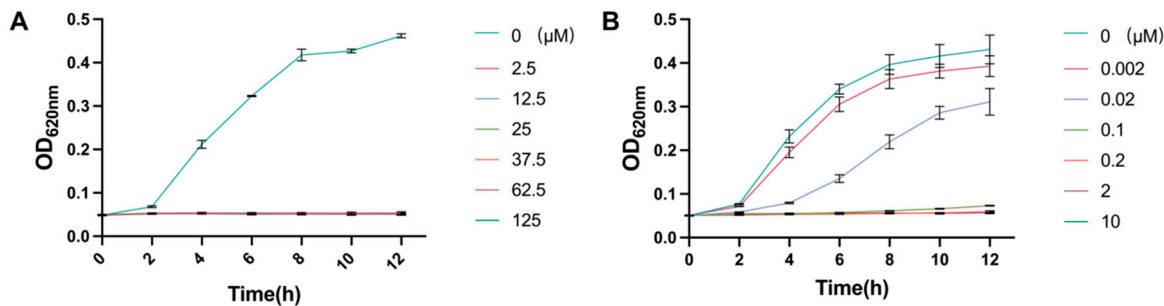


**Table S1.** List of primers used for qPCR analysis.

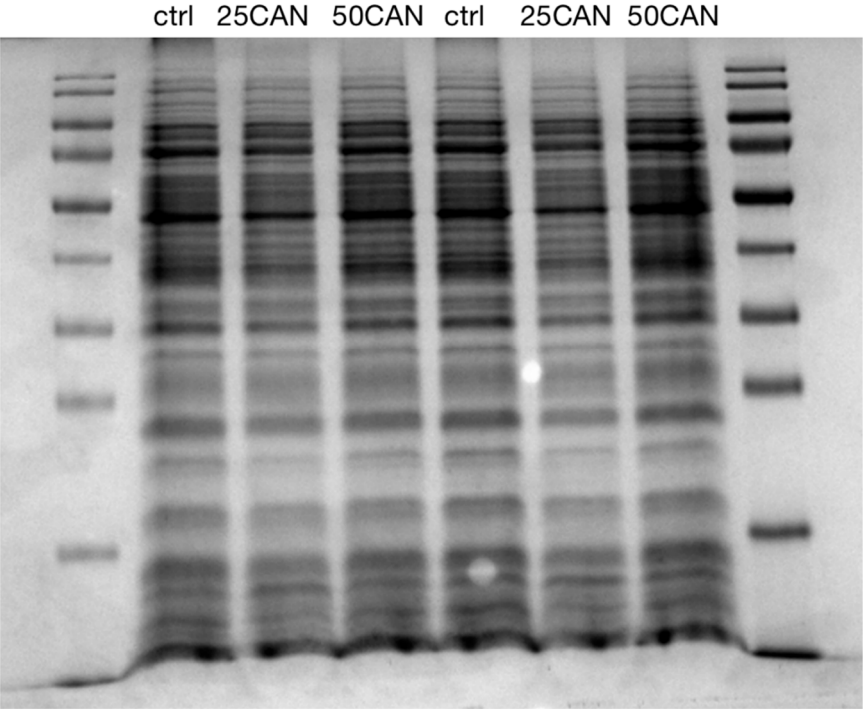
Primer	(5'to3')	Base number
16S rRNA-F	CATGCTGATCTACGATTACT	20
16S rRNA-R	CCATAAAGTTGTTCTCAGTT	20
mecA-F	GTTAGATTGGGATCATAGCGTCATT	25
mecA-R	TGCCTAATCTCATATGTGTTCTGTAT	27
mgrA-F	GGGATGAATCTCCTGTAAACG	21
mgrA-R	TTGATCGACTTCGGAACG	18
fnbA-F	ATCAGCAGATGTAGCGGAAG	20
fnbA-R	TTAGTACCGCTCGTTGTCC	20
cna-F	AAAGCGTTGCCTAGTGGAGA	20
cna-R	AGTGCCTTCCCAAACCTTT	19
crtM-F	ATCCAGAACCACCCGTTTTT	20
crtM-R	GCGATGAAGGTATTGGCATT	20
clfA-F	ATTGGCGTGGCTTCAGTGCT	20
clfA-R	CGTTTCTCCGTAGTTGCATTG	23
hld-F	TAATTAAGGAAGGAGTGATTCAATG	26
hld-R	TTTTTAGTGAATTTGTTCACTGTGTC	26
agrC-F	CATTCGCGTTGCATTTATTG	20
agrC-R	CCTAAACCACGACCTTCACC	20
sarA-F	CAAACAACCACAAGTTGTAAAGC	24
sarA-R	TGTTTGCTTCAGTGATTCGTTT	22

**Table S2.** Thermal cyclic conditions used for qPCR analysis

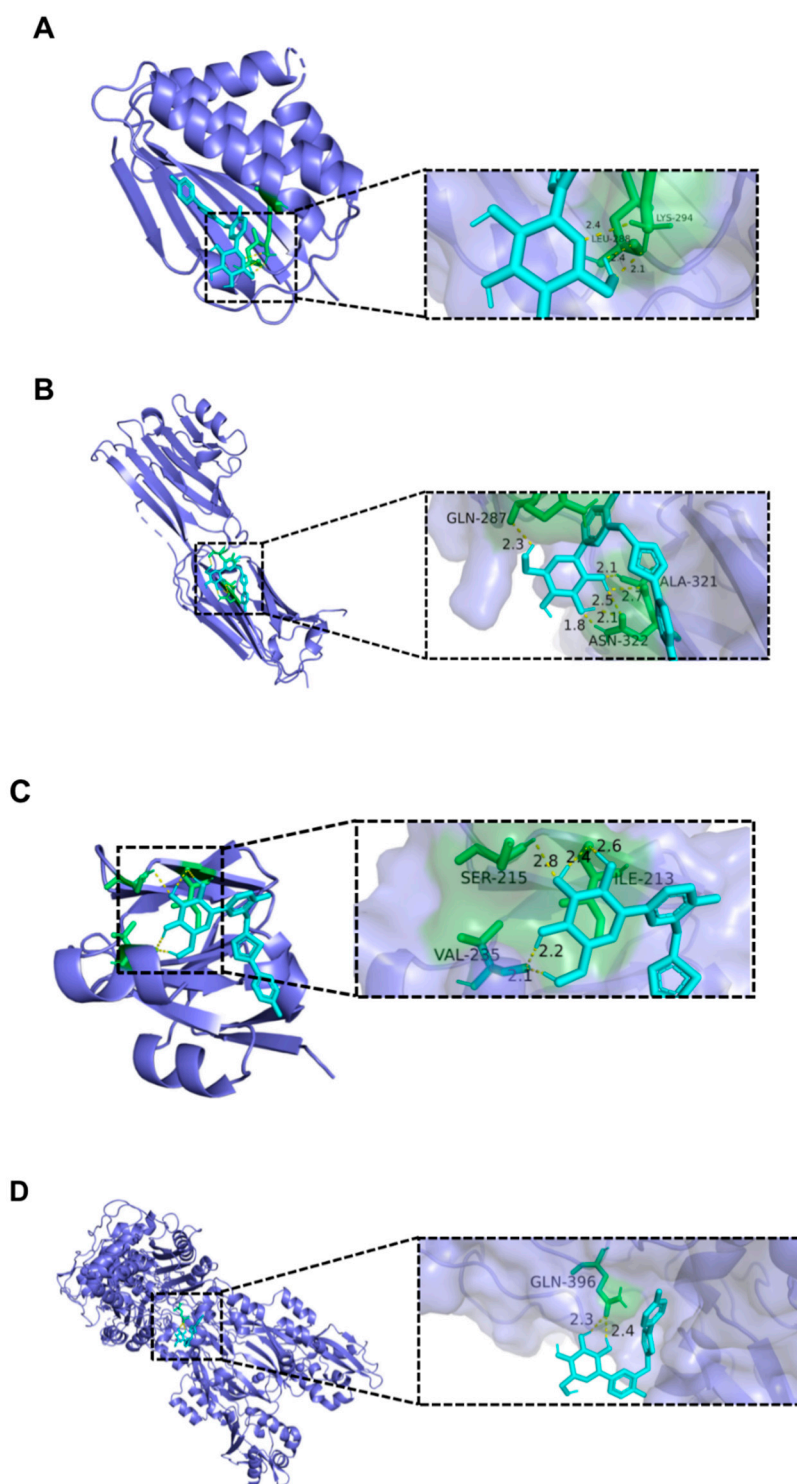
<b>Initial denaturation</b>	<b>95°C for 1 min</b>	<b>40 cycles</b>
<b>Denaturation</b>	<b>95°C for 15 sec</b>	
<b>Annealing</b>	<b>60°C for 45 sec</b>	
<b>Extension</b>	<b>72°C for 6 sec</b>	



**Figure S1.** (A)MSSA growth curves at different concentrations of PNC. (B)MSSA growth curves at different concentrations of DOX.



**Figure S2.** SDS-PAGE analysis of intracellular soluble proteins of MRSA treated with CAN of 25 $\mu$ M and 50 $\mu$ M for 12 hours.



**Figure S3.** Molecular docking between CAN and bacterial protein active sites. (A) The binding poses and interactions of CAN with agrC, binding energy: -5.55 kcal/mol. (B) The binding poses and interactions of CAN with cna, binding energy: -5.04 kcal/mol. (C) The binding poses and interactions of CAN with agrA, binding energy: -4.85 kcal/mol. (C) The binding poses and interactions of CAN with PBP2a, binding energy: -3.8 kcal/mol.