

Novel Anti-MRSA Peptide from Mangrove-Derived *Virgibacillus chiguensis* FN33 Supported by Genomics and Molecular Dynamics

Namfa Sermkaew ^{1,2}, Apichart Atipairin ^{1,2}, Phetcharat Boonruamkaew ¹, Sucheewin Krobthong ³, Chanat Aonbangkhen ^{3,4}, Jumpei Uchiyama ⁵, Yodying Yingchutrakul ⁶ and Nuttapon Songnaka ^{1,2,*}

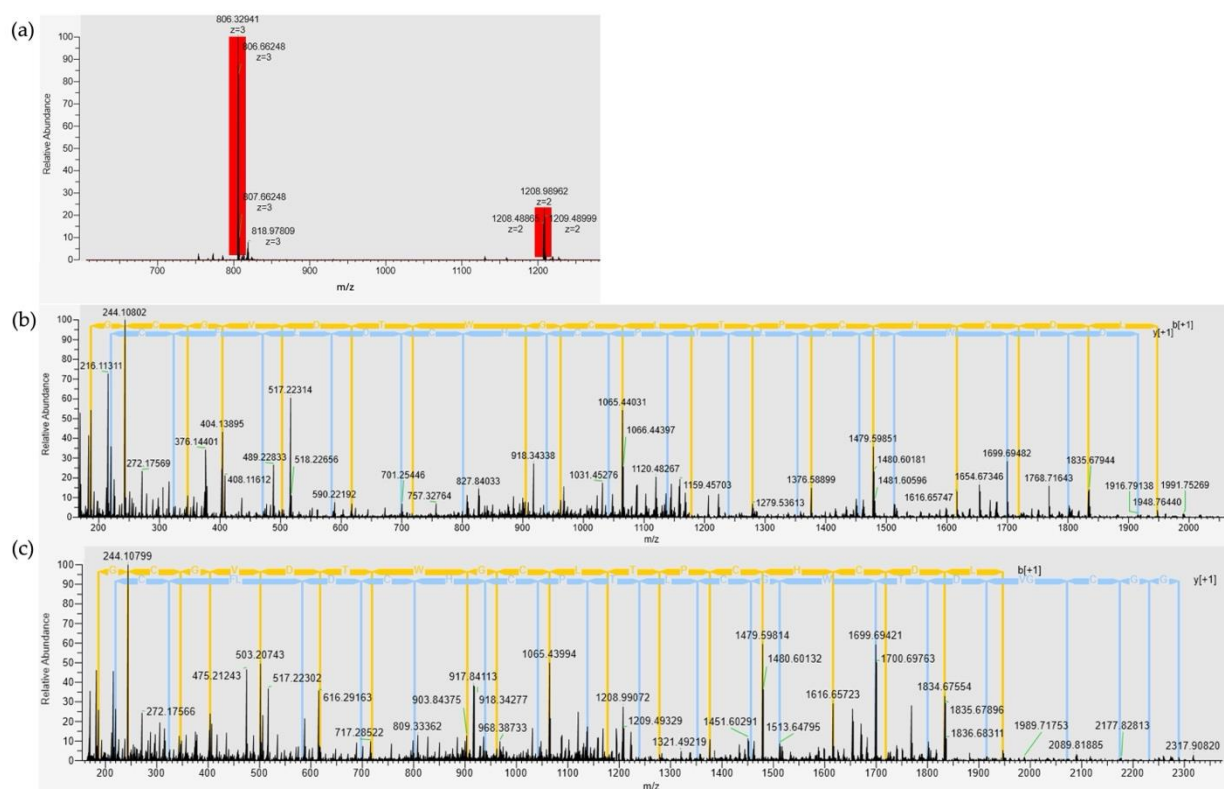


Figure S1. The full-scan mass spectrum of the purified AMP shows two major peaks at m/z 806.32941 Da ($[M+H]^+$) and 1208.98962 Da ($[M+H]^+$), confirming the molecular mass of FN33 AMP as 2416.98 Da. The amino acid sequencing by De novo analysis of secondary fragmentation of m/z 806.32941 Da ($[M+H]^+$) (b) and 1208.98962 Da ($[M+H]^+$) (c).