

* indicates positions which have a single, fully conserved residue
: indicates that one of the following 'strong' groups is fully conserved (>0.5 Gonnet Pam250 matrix)
. indicates that one of the following 'weaker' groups is fully conserved (= <0.5 Gonnet Pam250 matrix)

Supplemental Fig. 7. The alignment of primary sequences of the class B metallo- β -lactamase VIM family

Primary sequence variations as evidenced by the alignment of VIM-type MBLs. The binding site for Zn²⁺ at the enzymatic active site involves three histidines at the amino-terminal side. Based on the primary sequences, the alignment was generated using Clustal Omega [32, 33, 34] of GenomeNet at Kyoto University Bioinformatics Center (<https://www.genome.jp/tools-bin/clustalw>).