

Figure S6 Alignment of beta2 toxin amino acid sequences representing cluster 1 (strain CP301) and cluster 2 (strains JGS1902, JGS1984), and prototype (CWC412) and prototype-related isolate CP412. Asterisk indicates identical amino acid.

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CP412      MKKIISKVTVIFMFSCFLIVGAISPMKASAKEIDAYRKVMENYLNALKNYDINTVVNISE 60
CWC245     MKKIISKFTVIFMFSCFLIVGAISPMKASAKEIDAYRKVMENYLNALKNYDINTVVNISE 60
CP301      MKKIISKFTVIFMFSCFLIVGAISPMKASAKEIDTYREVMENYLNALKNYDINTIVNVSE 60
JGS1902    MKKLIVKSTMMLLFSCLLCLGIQLPNTVKANEVNKYQSVMVQYLEAFKNYDIDTIVDISK 60
JGS1984    MKKLIVKSTMMLLFSCLLCLGIQLPNTVKANEVNKYQSVMVQYLEAFKNYDIDTIVDISK 60
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CP412      DERVNNVEQYREMLEDFKYDPNQQLKSFEILNSQKRDNKEIFNVKTEFLNGAIYDMEFTV 120
CWC245     DERVNNVEQYREMLEDFKYDPNQQLKSFEILNSQKSDNKEIFNVKTEFLNGAIYDMEFTV 120
CP301      DERVNSDEKYKEMLEEFKYDPNQQLKSFEILNSQKSDNKEIFNVKTEFMNGAIYDMKFTV 120
JGS1902    DSRAVTKEEYKNMLMEFKYDPNQQLKSYEITSSRKIDNSEIFSVKTEFLNGAIYNMEFTV 120
JGS1984    DSRAVTKEEYKNMLMEFKYDPNQQLKSYEITGSRKIDNGEIFSVMQYLEAFKNYDIDTIVDISK 120
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CP412      SSKDGKLIVSNMERTKIENEGKYILTPSFRTQVCTWDELGQAIGGVYPQTYSDRFTYYA 180
CWC245     SSKDGKLIVSDMERTKVENEGKYILTPSFRTQVCTWDELAQAIGGVYPQTYSDRFTYYA 180
CP301      SSKDGKLIVSDMERTKIENEGKYILTPSFRTQVCTWDELQSIGGVDPKTYSTRFTYYA 180
JGS1902    SYIDNKLMSDMNRIAIINEGKRIPTPSFRTQVCTWDELQYIGDAVSFTRSSKFQYSS 180
JGS1984    SYIDNKLMSNMNRISIVNEGKCIPTPSFRTQVCTWDELQYIGDAVSFTRSSKFQYSS 180
          * .*:***:* * : **** * *****:***:* * . * . * * : * * :

CP412      DNILLNFRQYATSGSRDLRVEYSVVDHWMWKDDVKASQMVGQNPDSARQIRLYIEKGQS 240
CWC245     DNILLNFRQYATSGSRDLKVEYSVVDHWMWKDDVKASQMVGQNPDSARQIRLYIEKGQS 240
CP301      DNILLNFRQYATSGSRDLKVEYSVVDHWMWGDDVKASQMVGQNPDSARQIRLYIEKGQS 240
JGS1902    NTITLNFQYATSGSRSLKVKYSVVDHWWGDDIRASQWVYGENPDYARQIKLHLGSGET 240
JGS1984    NTITLNFQYATSGSRSLKVKYSVVDHWMWGDDIRASQWVYGENPDYARQIKLYLGSGET 240
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CP412      FYKYRIRIKNFTPASLKVFGEGYCA 265
CWC245     FYKYRIRIKNFTPASIRVFGEGYCA 265
CP301      FYKYRIRIQNFTPASIKVFGEGYCA 265
JGS1902    FQNYRIKVENYTPASIRVFGEGYCY 265
JGS1984    FKNYRIKVENYTPASIKVFGEGYCY 265
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