A

```
Abaecin(Am)          ATGAAGGTAGTGATA---TTTATCTTCGCACTACTCGCCACGATATGCGCAGCATTCGCG     TATGTACCATTACCA
Nabaecin-3(Nv)       ATGAAGTTCCTAGCCAGTTTGTTACTGCTCATTGTTGCCGTCATGGTAGCTGTTGATGCC     TACGTACCAAAGATT
Navitripenicin(Nv)   ATGAAGGCATTCGCT---CTGATTTTGACCCTCGCTTTGGTGGCATTTTCATCGGCAGCAAGTATCGATCATTCTGTA
Abaecin(Am)          M  K  V  V  I  -  F  I  F  A  L  L  A  T  I  C  A  A  F  A     Y  V  P  L  P
Nabaecin-3(Nv)       M  K  F  L  A  S  L  L  L  L  I  V  A  V  M  V  A  V  D  A     Y  V  P  K  I
Navitripenicin(Nv)   M  K  A  F  A  -  L  I  L  T  L  A  L  V  A  F  S  S  A  A  S  I  D  H  S  V

Abaecin(Am)          AATGTACCACAACCAGGACGTCGTCCGTTTCCAACGTTTCCTGGTCAGGGACCATTCAATCCGAAAATTAAATGGCCT
Nabaecin-3(Nv)       CCGAAACCACAACCAAACAAACCGAACTTTCCGTCGTTCCCAGGCCACGGTCCTTTCAACCCCCAT------GCTAGT
Navitripenicin(Nv)   GAACAGCAGAGTATAGCTGACCATTCCGAAGAACAGATTATCTACGTCGATGGTGTCCCAGTAAACGAGATCGTTCGC
Abaecin(Am)          N  V  P  Q  P  G  R  R  P  F  P  T  F  P  G  Q  G  P  F  N  P  K  I  K  W  P
Nabaecin-3(Nv)       P  K  P  Q  P  N  K  P  N  F  P  S  F  P  G  H  G  P  F  N  P  H  -  -  A  S
Navitripenicin(Nv)   E  Q  Q  S  I  A  D  H  S  E  E  Q  I  I  Y  V  D  G  V  P  V  N  E  I  V  R

Abaecin(Am)          gtacgtatataaaaatgagatcttgagtt......cagattttatattccattacgaatattatttgttttgttgcag
Nabaecin-3(Nv)       gtaagtaacactatcgttatatttagttt......aagaaatatgtcattaatgtgacaaaattgatattttcatcag
Navitripenicin(Nv)   gtgagtaacatacaccatcagtatatcat......cagatctgcggttcaatctacatatttcgatcaattattttag

Abaecin(Am)          CAAGGCTATTAATCGTCCAATGGACAAATCAATGGAATATACTTATACGGTTCACGTGATAAATCTACTGTGGTGAAA
Nabaecin-3(Nv)       CGTTTCCCACGATCTCCCAAAGACAATGGAAAAATTGTTTTCGATGCAAAGAAAGAAGGTGGAAAGACTCAGTGGAAC
Navitripenicin(Nv)   CGAACACTGAGATCT------GGAAACGGAAAGATCACTTTTGAAGTTAAAAATGAAGGTGGACAGACTTCGTTTACC
Abaecin(Am)          Q  G  Y  END
Nabaecin-3(Nv)       R  F  P  R  S  P  K  D  N  G  K  I  V  F  D  A  K  K  E  G  G  K  T  Q  W  N
Navitripenicin(Nv)   R  T  L  R  S  -  -  G  N  G  K  I  T  F  E  V  K  N  E  G  G  Q  T  S  F  T

Abaecin(Am)          CAATCGATAATTGATGGGGTATTATAATATAATTATGAATTGAAATAAATCGTATAAGTATTTATCGA
Nabaecin-3(Nv)       GTAGAAACTCAGCAGAAAGTTTGGGGCAACAAACACGGCAGCATTCACGTCAGTGCTGGAGCTGGCAAACAACCA---
Navitripenicin(Nv)   GTGAACGGAGAGGCTAAGGTTTGGAGCAGCAAAAATGGTTACGTCAGCGTGACAGGCGGT---GTACATCAGCCAATA
Abaecin(Am)
Nabaecin-3(Nv)       V  E  T  Q  Q  K  V  W  G  N  K  H  G  S  I  H  V  S  A  G  A  G  K  Q  P  -
Navitripenicin(Nv)   V  N  G  E  A  K  V  W  S  S  K  N  G  Y  V  S  V  T  G  G  -  V  H  Q  P  I

Abaecin(Am)
Nabaecin-3(Nv)       GGTGGCAAACCTCAAGGACAAGTTGGAATCGGCGGATCCTTTAGCTGGGGAAAATAA-GTTAT--TTATATGAATATT
Navitripenicin(Nv)   GGTGGTGACGCTAAAGGACACGCTGGAGTTAAGGGCGAATTCGAATGGAGAAAGTGAAGTTAGAATTATTT-AATTTT
Abaecin(Am)
Nabaecin-3(Nv)       G  G  K  P  Q  G  Q  V  G  I  G  G  S  F  S  W  G  K  END
Navitripenicin(Nv)   G  G  D  A  K  G  H  A  G  V  K  G  E  F  E  W  R  K  END

Abaecin(Am)
Nabaecin-3(Nv)       TTT--AATTTTATACAGTGATAATAAAGTTTTATTTAGT-----TTCTTAAACG
Navitripenicin(Nv)   TTTGTACTTACGAATATT-----TAAAATTTGATATATTAAAAAATCTTAATCG
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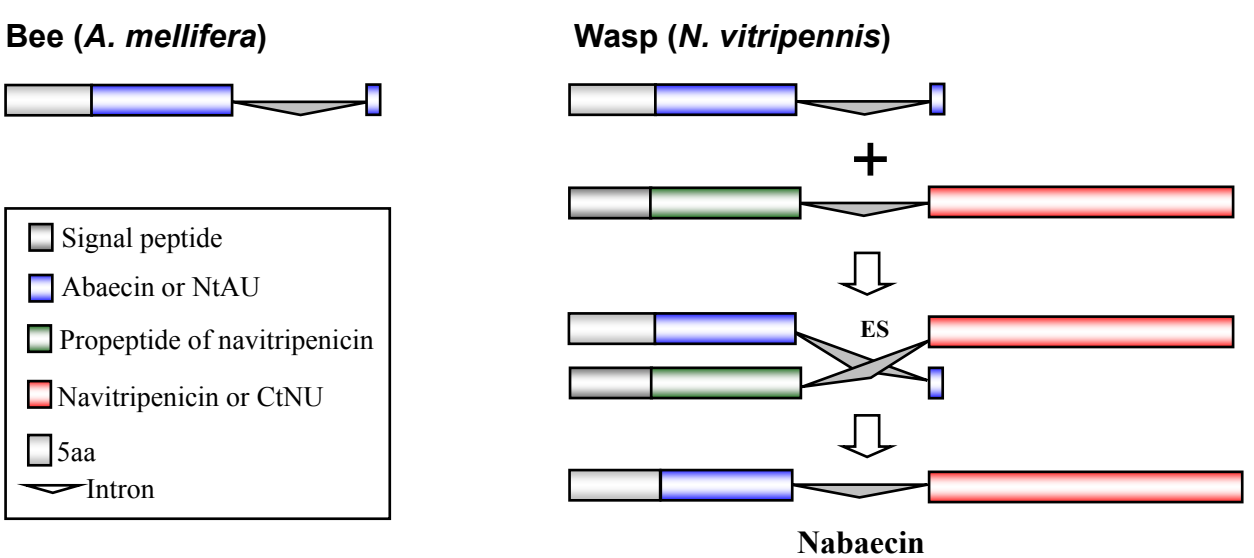
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