logo

```
T10182 WP 005547296.1 NC 013416:1647993-1648244      MNVISYSAFRAELATTLDQVVADHSPVMITRQNGKHAVVMSLEDFAAYEETAYLLRS.....PKNRERLLASIDQ    70
T10072 WP 080514633.1 NC 013508:1725332-1725607      ..............................MSQWTINFTLN...GAADFAYWKGI.DQNKVERIRTLLHSIEA    39
T2427 88196331 NC 007795:c2477447-2477181            ..............................MARLNITFSPQ...AFEDYKYFQQN.DKKMVKKINELLKSIDR    39
T613 21284058 NC 003923:c2479673-2479407             ..............................MARLNITFSPQ...AFEDYKYFQQN.DKKMVKKINELLKSIDR    39
T1074 WP 000113265.1 NC 002745:c2466267-2466001      ..............................MARLNITFSPQ...AFEDYKYFQQN.NKKMVKKINELLKSIDR    39
T6115 WP 000588503.1 NC 014959:c5220-4963            ..................................MIKAWSDD...AWDDYLYWHEQGNKSNIKKINKLIKDIDR    37
T6022 WP 000588503.1 NC 005000:c5220-4963            ..................................MIKAWSDD...AWDDYLYWHEQGNKSNIKKINKLIKDIDR    37
T10021 WP 005687756.1 NZ JMSI01000003:c191141-190881 ..................................MIKTWTDD...AWADYMYWHDQNDKRTIKRINQLIQAIDR    37
T10020 WP 005687756.1 NZ JPZB01000034:15416-15676    ..................................MIKTWTDD...AWADYMYWHDQNDKRTIKRINQLIQAIDR    37
T6237 WP 005687756.1 NC 013199:2764069-2764329       ..................................MIKTWTDD...AWADYMYWHDQNDKRTIKRINQLIQAIDR    37
T6143 WP 005687756.1 NC 017491:2755973-2756233       ..................................MIKTWTDD...AWADYMYWHDQNDKRTIKRINQLIQAIDR    37
T6138 WP 005687756.1 NC 013199:2764069-2764329       ..................................MIKTWTDD...AWADYMYWHDQNDKRTIKRINQLIQAIDR    37
T310 26989658 NC 002947:c3342756-3342448             ............MSK..NQKQRNK.....NEARDKVSVKFTKE...GWEDYCHWQNA.DLTILGNINRLIDVCLR    52
T130 NP 217875.1 NC 000962:3771045-3771302           ..................................VRSVNFDPD...AWEDFLFWLAA.DRKTARRITRLIGEIQR    37
T6122 NP 626486.1 NC 003888:2406202-2406456          ..................................VRITFTSH...GWEDYVHWAES.DRKVTKRINRLIADIAR    36
T10077 WP 010972002.1 NC 003062:c1979602-1979333     ..................................MKLVWTLS...SWDDYEFWQRT.DARMVEKINDLIRNAKR    36
T728 15903627 NC 003098:c1566704-1566450             ..................................MLLKFTED...AWADYCYWQNQ.DKKTLKRINKLIKDIQR    36
T6281 WP 012775363.1 NC 012924:c1915020-1914763      ..................................MGIHFTDD...AWEDYLYWQGQ.DKKTLKRINKIIQDMQR    36
T4918 WP 005605064.1 NC 010278:1417850-1418110       ..................................MKLTFSSN...AWEDYLYWQKT.DKIILKRINSLIKDIQR    36
T1043 YP 588458.1 NC 000913:c2089465-2089211         ..................................VKLIWSEE...SWDDYLYWQET.DKRIVKKINELIKDTRR    36
consensus                                                                              * ******    ********** * *** ***** ** ***
```

logo

```
T10182 WP 005547296.1 NC 013416:1647993-1648244      L................NSGKIIERELQE.........................    83
T10072 WP 080514633.1 NC 013508:1725332-1725607      D.PFSGIGKPERLRHHKNPALYSRRIDQQHRLVYSVSGN....TVTVVACRFHYGDK    91
T2427 88196331 NC 007795:c2477447-2477181            NGALEGIGKPEKLKSNL.TGYYSRRINHEHRLVYTVDDN....HIKIASCKYHY...    88
T613 21284058 NC 003923:c2479673-2479407             NGALEGIGKPEKLKSNL.TGYYSRRINHEHRLVYTVDDN....HIKIASCKYHY...    88
T1074 WP 000113265.1 NC 002745:c2466267-2466001      NGALEGIGKPEKLKSNL.TGYYSRRINHEHRLVYTVDDN....HIKIASCKYHY...    88
T6115 WP 000588503.1 NC 014959:c5220-4963            S.PFAGLGKPEPLKHDL.SGKWSRRITDEHRLIYRVENE....TIFIYSAKDHY...    85
T6022 WP 000588503.1 NC 005000:c5220-4963            S.PFAGLGKPEPLKHDL.SGKWSRRITDEHRLIYRVENE....TIFIYSAKDHY...    85
T10021 WP 005687756.1 NZ JMSI01000003:c191141-190881 D.PYKGIGKPEPLRYAL.TGKWSRRIDQENRIIYSIEKN....HINIFACRTHYS..    86
T10020 WP 005687756.1 NZ JPZB01000034:15416-15676    D.PYKGIGKPEPLRYAL.TGKWSRRIDQENRIIYSIEKN....HINIFACRTHYS..    86
T6237 WP 005687756.1 NC 013199:2764069-2764329       D.PYKGIGKPEPLRYAL.TGKWSRRIDQENRIIYSIEKN....HINIFACRTHYS..    86
T6143 WP 005687756.1 NC 017491:2755973-2756233       D.PYKGIGKPEPLRYAL.TGKWSRRIDQENRIIYSIEKN....HINIFACRTHYS..    86
T6138 WP 005687756.1 NC 013199:2764069-2764329       D.PYKGIGKPEPLRYAL.TGKWSRRIDQENRIIYSIEKN....HINIFACRTHYS..    86
T310 26989658 NC 002947:c3342756-3342448             T.PFTGIGKPEPLKGDL.SGLWSRRITREHRLVYFFEAG....MLTVLQCRYHYDD.   102
T130 NP 217875.1 NC 000962:3771045-3771302           D.PFSGIGKPEPLQGEL.SGYWSRRIDDEHRLVYRAGDD....EVTMLKARYHY...    85
T6122 NP 626486.1 NC 003888:2406202-2406456          D.PFKGVGKPEPLKGDL.SGYWSRRIDDTHRLVYKPTDD....QLVIVQARYHY...    84
T10077 WP 010972002.1 NC 003062:c1979602-1979333     T.PFAGLGKPEPLKGDM.AGYWSRRITAEHRFVYRVSGSGSEQRLEVIQCRFHYQ..    89
T728 15903627 NC 003098:c1566704-1566450             D.PFTGIGKPEPLKYDY.QGAWSRRIDAENRLIYMMDGD....SVAFLSFKDHY...    84
T6281 WP 012775363.1 NC 012924:c1915020-1914763      H.PFEGIAKPEPLKYDY.QGAWSRRIDAENRLIYMVEAD....RLCILSLKDHYR..    85
T4918 WP 005605064.1 NC 010278:1417850-1418110       Q.PFEGIGKLEPLKFNL.SGFWSRRINEEHRLIYSVEDE....AILIVACRYHYDQ.    86
T1043 YP 588458.1 NC 000913:c2089465-2089211         T.PFEGKGKPEPLKHNL.SGFWSRRITEEHRLVYAVTDD....SLLIAACRYHY...    84
consensus                                              ** **********  *  **  ***!** *********          *  *   *****
```

X non conserved

X similar

X ≥ 50% conserved