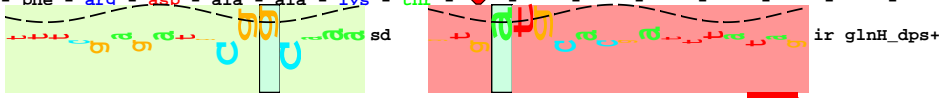piece 1, NC_000913, glnH_dps+, config: linear, direction: +, begin: 847198, end: 847650

```
        *847200   *      *847210   *      *847220   *      *847230   *      *847240   *      *847250   *      *847260   *      *847270   *
5' agccagtgaaacttttaatacagacttcatagcatttccttttttctatccacggacgatcccctgcgtgacattcacat 3'
   - ala - ser - glu - thr - phe - asn - thr - asp - phe - ile - ala - phe - pro - phe - phe - tyr - pro - arg - asp - asp - pro - leu - arg - asp - ile - his - ile -
   - pro - val - lys - leu - leu - ile - gln - thr - ser -                                                  -fMet - thr - phe - thr - tyr -
...--------------------------------------------------------] NC_000913.glnH
```
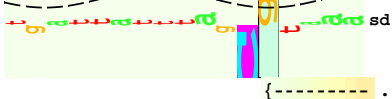
```
        *847280   *      *847290   *      *847300   *      *847310   *      *847320   *      *847330   *      *847340   *      *847350   *
5' atatgaaaaatcgtgccagtttttcaactccttgattttttcgagatgcggcaaaaacgtgatgcacgatttataggcaa 3'
   - tyr - glu - lys - ile - val - pro - val - leu - gln - leu - leu - asp - phe - ser - arg - arg - asp - ala - arg - phe - ile - gly - gln -
   - met - lys - lys - ser - cys - gln - phe - cys - asn - ser - leu - ile - phe - arg - asp - ala - ala - lys - thr -       -fMet - arg - gln - lys - arg - asp - ala - arg - phe - ile - gly - gln -
                                                                                                         sd                                    ir glnH_dps+
                                                                                                                                               [###> orf 5 codons
                                                         sd-(11)-ir 847340 Gap 3.0 bits
                                                         sd-ir 847340 glnH_dps+ total 5.5 bits
```
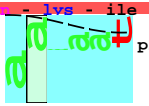
```
        *847360   *      *847370   *      *847380   *      *847390   *      *847400   *      *847410   *      *847420   *      *847430   *      *847440
5' taccctgaagatgcaccattctggggcaccaatctggtgcgctaaaattgtgcactcaacacagtgattatttagcgtaaa 3'
   - tyr - pro - glu - asp - ala - pro - phe - trp - gly - thr - asn - ile - leu - val - arg - ala - lys - ile - val - his - ser - thr - gln -       -fMet - ile - ile -
                           -fMet - his - his - ser - gly - ala - pro - ile - trp - cys - ala - lys - ile - val - his - ser - thr - gln -
                                                                                                            -fMet - cys - thr - gln - his - ser - asp - tyr - leu - ala -
                                                                                                                                               sd
                                                                                                                                     sd-(10)-ir 847446 Gap
                                                                                                                                     sd-ir 847446 glnH_dps+ to
                                                                                                                         p35   2.3 bits
                                                                                                                             p35-(23)-p10 847454 Gap
                                                                                                                             p35-p10 847454 total 4.0
```
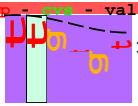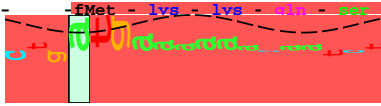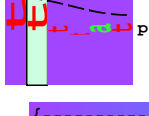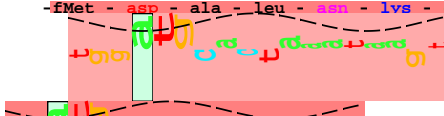
```
        *         *847450   *      *847460   *      *847470   *      *847480   *      *847490   *      *847500   *      *847510   *      *847520
5' acctgatgaaaaacaatctttatgtaacgattgttgtgatgatgtggatacaaaaaatttacttaatcagctggagatagc 3'
                                         -fMet -                    -fMet - cys - asp - asp - val - asp - thr - lys - asn - leu - leu - asn - gln - leu - glu - ile - ala -
   -fMet - lys - lys - gln - asp - leu - cys - asn - asp - val - met - met - trp - ile - gln - lys - ile - cys - leu - ile - ser - trp - arg -
                       ir glnH_dps+                      p35   3.8 bits              p10   3.8 bits                                              [###> orf 25 codons
   sd-(10)-ir 847446 Gap 2.7 bits
   sd-ir 847446 glnH_dps+ total 7.6 bits        p35-(21)-p10 847494 Gap 3.3 bits              sd-(10)-ir 847524 Gap
                      p10   3.2 bits            p35-p10 847494 total 4.4 bits                 sd-ir 847524 glnH_dps+ to
   p35-(23)-p10 847454 Gap 1.4 bits                                                          sd-(14)-ir 847528 Gap
   p35-p10 847454 total 4.0 bits                                                             sd-ir 847528 glnH_dps+ to
```

```
        *         *847530   *      *847540   *      *847550   *      *847560   *      *847570   *      *847580   *      *847590   *      *847600
5' agatggtgcactaaataagtgcgttggtgcaaaacaaaacggcctcgtgcaaaaacaggctgcaggaagccgctttttatcgggta 3'
                       -fMet - his -                    -fMet - arg - trp - ala - ala - lys - gln - asn - gly - leu - leu - ser - gly - ser - arg - phe - tyr - arg - val -
   - asp - gly - cys - thr - lys -       -fMet - arg -     - arg - trp - ala - ala - lys - gln - asn - gly - leu - leu - ser - gly - ser - arg - phe - tyr - arg - val -
   -fMet - asp - ala - leu - asn - lys - cys - val - glu - val - gly - cys - lys - thr - lys - arg - pro - pro - val - arg - lys - pro - leu - leu - ser - gly - thr -
                       ir glnH_dps+                                                                                                    p35   4.8 bits
              ir glnH_dps+                                                                                                  p35-(23)-p10 847615 Gap
```

```
...  ----} sd-(10)-ir 847524 Gap 2.7 bits                                              |-------------------- ... p35-p10 847615 total 5.4
...  ----| sd-ir 847524 glnH_dps+ total 11.5 bits
...  -----------} sd-(14)-ir 847528 Gap 4.9 bits
...  -----------| sd-ir 847528 glnH_dps+ total 6.9 bits
                              [###> orf 3 codons

         *      *847610    *     *847620    *     *847630    *     *847640    *     *847650
    5' c t a a a g t t c t g c a c c a t c a g c g a t g g a t t t a t t c g a t g t t a g a c t c g a 3'
       - leu - lys - phe - cys - thr - ile - ser - asp - gly - phe - ile - arg - cys -   -     -     -
                                                   -fMet - asp - leu - phe - asp - val - arg - leu -
        - lys - val - leu - his - his - gln - arg - trp - ile - tyr - ser - met - leu - asp - ser -

                                        p10   2.0 bits           <-------------------------------------- ... NC_000913.dps


...  --------------------} p35-(23)-p10 847615 Gap 1.4 bits
...  --------------------| p35-p10 847615 total 5.4 bits
```