- 1 -

piece 1, NC_000913, pepD_gpt+, config: linear, direction: +, begin: 255687, end: 255996

```
         *255690    *      *255700    *      *255710    *      *255720    *      *255730    *      *255740    *      *255750    *      *255760    *
5' ctgtggagataattgagacagttcagacacgttaagtctccttgtcgatcacccgcaaaacagtattgcaggtcacaggt 3'
 - leu - trp - arg -    -fMet - arg - gln - phe - arg - his - val - lys - ser - pro - cys - arg - ser - pro - ala - lys - gln - tyr - cys - arg - ser - gln - gly -
     - cys - gly - asp - asn -       -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -
     - val - glu - ile - ile - glu - thr - val - gln - thr - arg -    -         -    -fMet - ser - ile - thr - arg - lys - thr - val - leu - gln - val - thr - gly - leu -
... ----------------------------------------------------------------] NC_000913.pepD                                              p35  5.2 bits
                                                                                                     ... p35-(21)-p10 255774 Gap
                                                                                                     ... p35-p10 255774 total 5.4
```
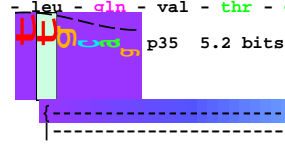
```
         *255770    *      *255780    *      *255790    *      *255800    *      *255810    *      *255820    *      *255830    *      *255840    *
5' tagcagaaaatgttgtcaacacaagacaggcttgcgagatatgtttgagaataccactttatcccgcgtcaggagaggca 3'
     -    -    -    -fMet - leu - ser - thr - gln - asp - arg - leu - ala - arg - tyr - val -    -
                                   -fMet - arg - asp - met - phe - glu - asn - thr - thr - leu - ser - arg - val - arg - glu - arg - gln -
     - ala - glu - asn - val - val - asn - thr - arg - gln - ala - cys - glu - ile - cys - leu - arg - ile - pro - leu - tyr - pro - ala - ser - gly - arg - gly - ser -
                                                            sd                                   ir pepD_gpt+                                                        ... ir
... ------------} p35-(21)-p10 255774 Gap 3.3 bits        {------------------} sd-(11)-ir 255808 Gap 3.0 bits                                                        sd
... ------------| p35-p10 255774 total 5.4 bits            |------------------| sd-ir 255808 pepD_gpt+ total 7.5 bits                          {--------- ... sd-(8)-ir 255849 Gap
                p10  3.6 bits                                                                                                                  |--------- ... sd-ir 255849 pepD_gpt+ to
```
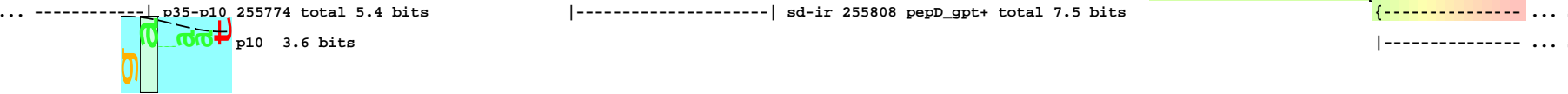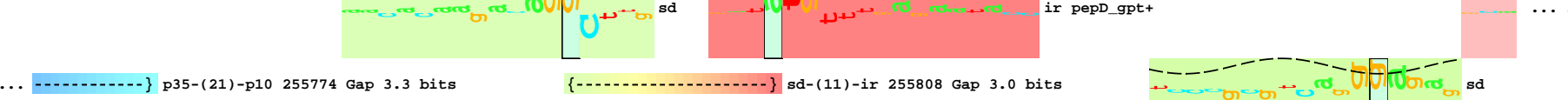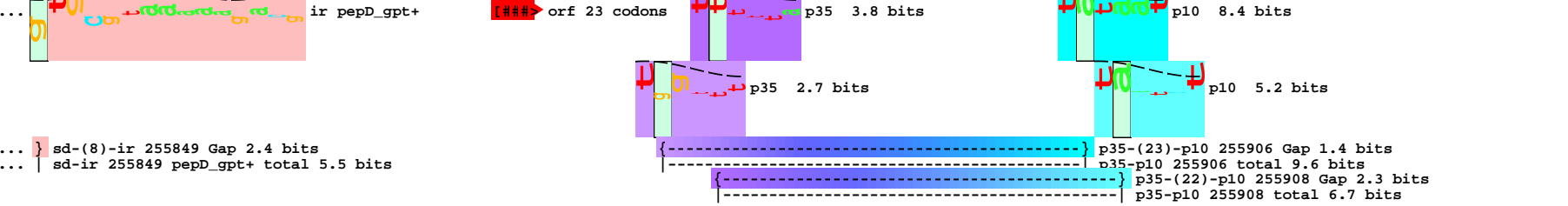
```
         *255850    *      *255860    *      *255870    *      *255880    *      *255890    *      *255900    *      *255910    *      *255920    *
5' gtgcgtaaaaagacgcggactcatgtgaaatactggtttttagtcgccagatctctataatctcgcgcaacctatttcc 3'
 -fMet - arg - lys - lys - thr - arg - his - val - lys - tyr - trp - phe - leu - val - arg - gln - ile - ser - ile - ile - ser - arg - asn - leu - phe - ser -
     - ala -                                                -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -
     - cys - val - lys - arg - arg - gly - leu - met -
...                         ir pepD_gpt+              [###> orf 23 codons              p35  3.8 bits              p10  8.4 bits
                                                                                      p35  2.7 bits              p10  5.2 bits
... } sd-(8)-ir 255849 Gap 2.4 bits                                        {------------------------} p35-(23)-p10 255906 Gap 1.4 bits
... | sd-ir 255849 pepD_gpt+ total 5.5 bits                                |------------------------| p35-p10 255906 total 9.6 bits
                                                                          {----------------------} p35-(22)-p10 255908 Gap 2.3 bits
                                                                          |----------------------| p35-p10 255908 total 6.7 bits
```

```
         *255930    *      *255940    *      *255950    *      *255960    *      *255970    *      *255980    *      *255990    *
5' cctcgaacactttttaagccgtagataacaggctgggacacttcacatgagcgaaaatacatcgt 3'
 - pro - arg - thr - leu - phe - lys - pro -
                                                                                        -fMet - ser - glu - lys - tyr - ile -
                                     [###> orf 35 codons                                [------------------------------------- ... NC_000913.gpt
                                                                 sd                               ir pepD_gpt+
                                              {------------------} sd-(10)-ir 255977 Gap 2.7 bits
                                              |------------------| sd-ir 255977 pepD_gpt+ total 5.3 bits
```