piece 1, NC_000913, IS1H_uspC+, config: linear, direction: +, begin: 1977265, end: 1977796

```
     *      *1977270   *      *1977280   *      *1977290   *      *1977300   *      *1977310   *      *1977320   *      *1977330   *      *1977340   *
5' a c a c t a a a t c a g t a a g t t g g c a g c a t c a c c c a t a a a t g t a t a a g t c a t a c t t t t g t t t t g g g t g t a t t t c a a t c t g t t a a a 3'
   -  thr - leu - asn - gln -  -   -   -   -  -fMet - ala - ala - ser - pro - ile - asn - val -  -   -   -   -  -fMet - phe - trp - val - tyr - phe - asn - leu - leu - lys -
   -  his -  -   -   -   -   -   -   -   -   -fMet - tyr - lys - ser - tyr - phe - cys - phe - gly - cys - ile - ser - ile - cys -  -   -   -
                                                                                                                                        p35   5.2 bits

                                                                                                                        ... p35-(26)-p10 1977358 Gap
                                                                                                                        ... p35-p10 1977358 total 5.4
```
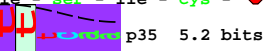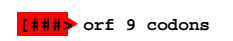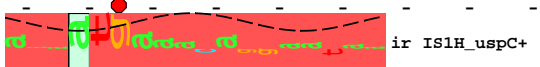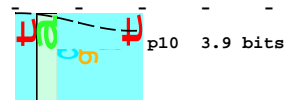
```
     *      *1977350   *      *1977360   *      *1977370   *      *1977380   *      *1977390   *      *1977400   *      *1977410   *      *1977420   *
5' a a g t t t t t c g c t a c g c t a g c a a g c a a a a a t g a a a c a g g a a t a a t c g a a a t g g g a t g t t g c g c a c g t c a a a a t a a c t c a c c 3'
   -  lys - phe - phe - ala - thr - leu - ala - ser - lys - asn - glu - thr - gly - ile - ile - glu - met - gly - cys - cys - ala - gln - ser - lys -  -   -   -
   -  ser - phe - ser - leu - arg -  -   -   -  -fMet - lys - gln - glu -  -   -   -   -   -   -  -fMet - leu - arg - thr - val - lys - ile - thr - his - arg -
                                           p10   3.9 bits            ir IS1H_uspC+                                              [###> orf 9 codons

... ===================} p35-(26)-p10 1977358 Gap 3.7 bits                    [###> orf 5 codons                ir IS1H_uspC+
... ------------------| p35-p10 1977358 total 5.4 bits

                                              sd        {---------------} sd-(11)-ir 1977394 Gap 3.0 bits

                                                        {-----------} sd-(6)-ir 1977374 Gap 4.3 bits
                                                        |-----------| sd-ir 1977374 IS1H_uspC+ total 5.5 bits

                                                        sd

                     p35   2.0 bits              |------------------| sd-ir 1977394 IS1H_uspC+ total 9.1 bits

                                                        p10   4.6 bits

                                    {----------------------------} p35-(22)-p10 1977385 Gap 2.3 bits
                                    |----------------------------| p35-p10 1977385 total 4.2 bits
```
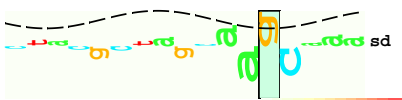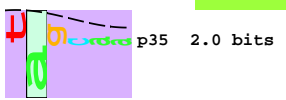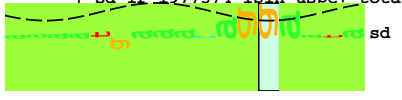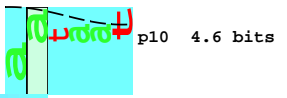
```
     *      *1977430   *      *1977440   *      *1977450   *      *1977460   *      *1977470   *      *1977480   *      *1977490   *      *1977500   *
5' g t a a a t a a t c a t c t g c t a t a a a t a a t c a c t t t c a t g c a a t a c c a g a t a a g c t a t t t t t a a a c a g a c a c t t a c c g c a c a a c a 3'
   -   -   -   -   -   -   -   -   -   -   -   -  -fMet - gln - tyr - gln - ile - ser - tyr - phe -  -   -   -   -   -   -   -   -
   -  lys -  -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -   -
                                    p35   5.3 bits                        p10   5.2 bits                                   ... p10

                                    {----------------------------} p35-(22)-p10 1977479 Gap 2.3 bits
                                    |----------------------------| p35-p10 1977479 total 8.2 bits

                                                                  p35   5.6 bits

                                                                  {----------------------------------} p35-(24)-p10 1977507 Gap 2.4 b
                                                                  |----------------------------------| p35-p10 1977507 total 6.7 bits
```
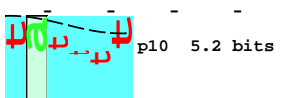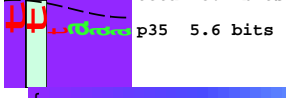
```
     *      *1977510   *      *1977520   *      *1977530   *      *1977540   *      *1977550   *      *1977560   *      *1977570   *      *1977580   *
5' a a c t a a t t a c a a a g a a a g g c a a c a a t c a a c t t a a t g t t a a t g a a a t g t t t t a c a t a t a t t a a c c a c t t g t t t a a t g c 3'
   -   -   -   -   -   -   -   -   -   -   -   -   -   -  -fMet - phe - tyr - ile - tyr -  -   -   -
   -   -   -   -   -   -   -   -   -   -   -  -fMet - leu - met - lys - cys - phe - thr - tyr - ile - asn - his - leu - phe - asn - ala -
                                                                                                            -fMet - arg -
```

... p10 3.6 bits

ir IS1H_uspC+   [###> orf 6 codons   p10 4.5 bits

sd   ir IS1H_uspC+   p35 4.8 bits

{-------------------} sd-(15)-ir 1977545 Gap 6.0 bits   p10 6.5 bits   {------------- ... p35-(21)-p10 1977600 Gap

|-------------------| sd-ir 1977545 IS1H_uspC+ total 6.0 bits |----------------- ... p35-p10 1977600 total 7.3

sd   p35 5.5 bits |----------------- ... p35-(23)-p10 1977602 Gap

{-----------} sd-(9)-ir 1977556 Gap 2.3 bits |---------- ... p35-p10 1977602 total 6.1

|-----------------| sd-ir 1977556 IS1H_uspC+ total 6.7 bits   p35 5.7 bits

p35 0.9 bits   {-------------------------------------} p35-(21)-p10 1977582 Gap 3.3 bits

{-----------------------------------} p35-(24)-p10 1977567 Gap 2.4 bits
|-----------------------------------| p35-p10 1977567 total 5.0 bits
                                        |------------------------------------ ... p35-p10 1977582 total 6.7 bits
                                        |----------- ... p35-(23)-p10 1977605 Gap
                                        |----------- ... p35-p10 1977605 total 9.4

*1977590 *   *1977600 *   *1977610 *   *1977620 *   *1977630 *   *1977640 *   *1977650 *   *1977660 *
5' ggagaatcagtacactatttcttataattacatttgaaattatatgatcaccggagtgattgattaattatctttacta 3'
glu - asn - gln - tyr - thr - ile - phe - leu - ● -   -   - -fMet - lys - leu - tyr - asp - his - arg - glu - ● - -fMet - ile - asp - ●
- arg - ile - ser - thr - leu - phe - ser - tyr - asn - tyr - ile - ● -   -   - -fMet - ile - thr - gly - ser - asp - ● -   -   -   -   -

p10 5.8 bits   [###> orf 24 codons   p10 3.3 bits   p35 5.7 bits   p35 5.7 bits

p10 2.8 bits   p10 2.4 bits   {------------- ... p35-(25)-p10 1977676 Gap

... {-------------} p35-(21)-p10 1977600 Gap 3.3 bits   p10 1.4 bits |------------------------------------ ... p35-p10 1977676 total 4.3

... ----------------| p35-p10 1977600 total 7.3 bits   p10 6.4 bits   p35 1.9 bits

... {-------------} p35-(23)-p10 1977602 Gap 1.4 bits   {------------- ... p35-(22)-p10 1977681 Gap
... ----------------| p35-p10 1977602 total 6.1 bits |------------ ... p35-p10 1977681 total 5.8

p10 5.2 bits   {-------------- ... p35-(23)-p10 1977687 Gap

p35 4.8 bits |----------- ... p35-p10 1977687 total 4.8

{-----------------------} p35-(21)-p10 1977628 Gap 3.3 bits
|-----------------------| p35-p10 1977628 total 4.7 bits
{-------------------------------} p35-(23)-p10 1977630 Gap 1.4 bits

... {---------------------} p35-(23)-p10 1977605 Gap 1.4 bits
... ---------------------| p35-p10 1977605 total 9.4 bits
|--------------------------------| p35-p10 1977630 total 5.7 bits

p35   4.5 bits

{- - - - - - - - -} p35-(23)-p10 1977631 Gap 1.4 bits
|- - - - - - - - -| p35-p10 1977631 total 4.5 bits
{- - - - - - - - -} p35-(26)-p10 1977633 Gap 3.7 bits
|- - - - - - - - -| p35-p10 1977633 total 7.5 bits

```
     *1977670  *      *1977680  *      *1977690  *      *1977700  *      *1977710  *      *1977720  *      *1977730  *      *1977740  *      *1977750
5' ataatcagactaatatttacctgtttgaccgagttgggattgcgtcgtttctccattaggagtaaagctttaatgtcacct 3'
                              -fMet - thr - glu - leu - gly - leu - arg - arg - phe - ser - ile - arg - ser - lys - ala - leu - met - ser - pro -
```

p10   2.6 bits
sd
... ir

... {- - - - - - - - -} p35-(25)-p10 1977676 Gap 4.0 bits
... |- - - - - - - - -| p35-p10 1977676 total 4.3 bits
{- - - - - - - - -} sd-(13)-ir 1977742 Gap 4.6 bits
|- - - - - - - - -| sd-ir 1977742 IS1H_uspC+ total 9.0 bits

p10   6.3 bits
p35   2.9 bits
p10   4.5 bits

... {- - - - - - - - -} p35-(22)-p10 1977681 Gap 2.3 bits
... |- - - - - - - - -| p35-p10 1977681 total 5.8 bits
{- - - - - - - - -} p35-(21)-p10 1977739 Gap 3.3 bits
|- - - - - - - - -| p35-p10 1977739 total 4.1 bits

... {- - - - - - - - -} p35-(23)-p10 1977687 Gap 1.4 bits
p10   3.8 bits

... |- - - - - - - - -| p35-p10 1977687 total 4.8 bits
{- - - - - - - - -} p35-(23)-p10 1977741 Gap 1.4 bits
|- - - - - - - - -| p35-p10 1977741 total 5.3 bits

p10   0.6 bits

p35   5.7 bits

... p35-(21)-p10 1977760 Gap
... p35-p10 1977760 total 6.1

```
           *      *1977760  *      *1977770  *      *1977780  *      *1977790  *
5' gaagttcacagaataaggaacaggttatgagctatagcaatattct 3'
   - glu - val - his - arg - ile - arg - asn - arg - leu -
                              -fMet - ser - tyr - ser - asn - ile -
```

... ir IS1H_uspC+
[###> orf 13 codons

p10   3.7 bits
ir IS1H_uspC+
sd

{- - - - - - - - -} sd-(9)-ir 1977777 Gap 2.3 bits
|- - - - - - - - -| sd-ir 1977777 IS1H_uspC+ total 13.1 bits

... {- - - - - - - - -} p35-(21)-p10 1977760 Gap 3.3 bits
... |- - - - - - - - -| p35-p10 1977760 total 6.1 bits