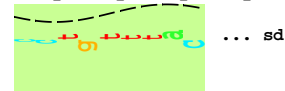
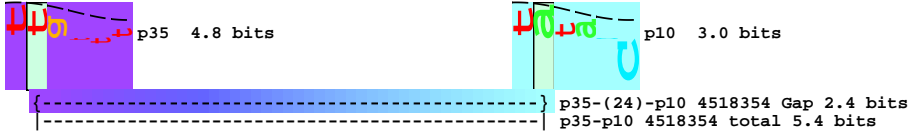


piece 1, NC\_000913, yjhU\_yjhF+, config: linear, direction: +, begin: 4518318, end: 4518713

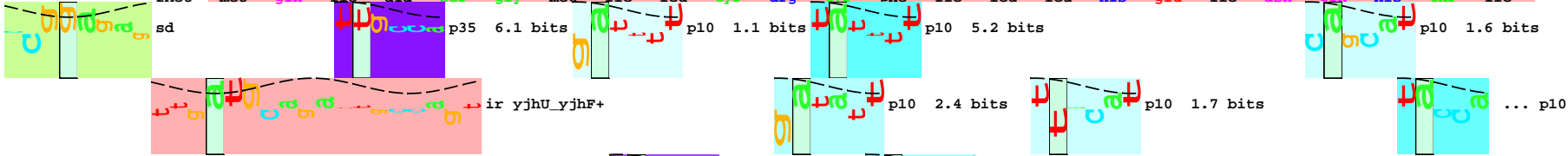
5' <sup>\*4518320 \*</sup> <sup>\*4518330 \*</sup> <sup>\*4518340 \*</sup> <sup>\*4518350 \*</sup> <sup>\*4518360 \*</sup> <sup>\*4518370 \*</sup> <sup>\*4518380 \*</sup> <sup>\*4518390 \*</sup>  
 - c a g g c t g c t g t t t g t t g a t c t c t a t c c a c t t t t g t a t a c c t g t a t t a a c c g g g a a a t g c t c a t c t t a a c c c t g t t t a c 3'  
 - gln - ala - ala - val - cys - leu - ile - ser - ile - his - phe - cys - ile - pro - val - leu - asn - arg - gly - asn - ala - his - leu - asn - pro - val - tyr -  
 - arg - leu - leu - phe - val - ● - - - - - ● - - - - - ● - fMet - leu - ile - leu - thr - leu - phe - thr -  
 - gly - cys - cys - leu - phe - asp - leu - tyr - pro - leu - leu - tyr - thr - cys - ile - lys - pro - gly - lys - cys - ser - ser - ● - - - - -



... -----] NC\_000913.yjhU

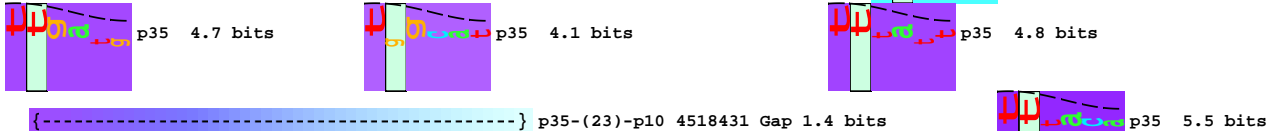


5' <sup>\*4518400 \*</sup> <sup>\*4518410 \*</sup> <sup>\*4518420 \*</sup> <sup>\*4518430 \*</sup> <sup>\*4518440 \*</sup> <sup>\*4518450 \*</sup> <sup>\*4518460 \*</sup> <sup>\*4518470 \*</sup>  
 - c c g g a g a g t t g a t g c a g a t t g c c a g t g g c a t g a t t t t a t a c a g a t a t t t t a c a t g a a a t a a a c c a g c a t a c c a 3'  
 - pro - glu - ser - ● - - - - - fMet - pro - val - ala - ● - - - - - fMet - lys - ● - - - - -  
 - arg - arg - val - asp - ala - asp - cys - gln - trp - his - asp - phe - ile - gln - ile - phe - tyr - ser - phe - thr - ● - - - - -  
 - fMet - met - gln - ile - ala - ser - gly - met - ile - leu - tyr - arg - tyr - phe - ile - leu - leu - his - glu - ile - asn - gln - his - thr - ile -



{-----} sd-(8)-ir 4518410 Gap 2.4 bits

|-----| sd-ir 4518410 yjhU\_yjhF+ total 7.2 bits



|-----| p35-p10 4518431 total 4.4 bits {-----} p35-(24)-p10 4518471 Gap 2.4 bits  
 {-----} p35-(24)-p10 4518442 Gap 2.4 bits  
 {-----} p35-p10 4518442 total 6.1 bits  
 {-----} p35-(26)-p10 4518444 Gap 3.7 bits  
 {-----} p35-p10 4518444 total 7.5 bits  
 {-----} p35-(22)-p10 4518447 Gap 2.3 bits  
 {-----} p35-p10 4518447 total 4.3 bits  
 {-----} p35-(24)-p10 4518449 Gap 2.4 bits  
 {-----} p35-p10 4518449 total 7.6 bits  
 {-----} p35-(23)-p10 4518456 Gap 1.4 bits  
 {-----} p35-p10 4518456 total 5.0 bits  
 {-----} p35-p10 4518471 total 4.0 bits  
 {-----} p35-(21)-p10 4518476 Gap 3.3 bits  
 {-----} p35-p10 4518476 total 7.1 bits

5' <sup>\*4518480 \*</sup> <sup>\*4518490 \*</sup> <sup>\*4518500 \*</sup> <sup>\*4518510 \*</sup> <sup>\*4518520 \*</sup> <sup>\*4518530 \*</sup> <sup>\*4518540 \*</sup> <sup>\*4518550 \*</sup> <sup>\*4518560 \*</sup>  
 - t t t g a g c g a t c g c c c g c t g t t c c c c c a t a c t g t a a a g c c g g a g a c a t g c t c c g g c t t t a c a g t a t t a c t g a g a a t a c a c c c 3'  
 - fMet - ser - asp - arg - pro - leu - phe - pro - his - thr - val - lys - pro - glu - thr - cys - ser - gly - phe - thr - val - leu - leu - arg - ile - his - pro -

[###> orf 25 codons



... p10 4.9 bits

{-----} ... p35-(24)-p10 4518568 Gap

p35 3.2 bits

----- ... p35-p10 4518568 total 5.6

} p35-(24)-p10 4518506 Gap 2.4 bits  
|-----  
p35-p10 4518506 total 5.1 bits

```

5' * *4518570 * *4518580 * *4518590 * *4518600 * *4518610 * *4518620 * *4518630 * *4518640
  a t c a a g c a t a a t c g a a g g t t c a a t a t c g c c c c t t t t g a t c g c c a g c g a t t c g t c a c c g t g c a g a c g g t t g c c g t c a c t c a 3'
  - ile - lys - his - asn - arg - arg - phe - asn - ile - ala - pro - phe - - - - -
  - ser - ser - ile - ile - glu - gly - ser - ile - ser - pro - leu - phe - asp - arg - gln - arg - phe - val - thr - val - gln - thr - val - ala - val - thr - his -
  - - - - - -fMet - ile - ala - ser - asp - ser - ser - pro - cys - arg - arg - leu - pro - ser - leu - thr -

```

p10 5.5 bits

} p35-(24)-p10 4518568 Gap 2.4 bits  
|-----  
p35-p10 4518568 total 5.6 bits

```

5' * *4518650 * *4518660 * *4518670 * *4518680 * *4518690 * *4518700 * *4518710
  c t a a a t t a t g g g g g a c a g t g a a c a a c a g g t t g g c t c a c t g g c a a g a a c c c g a t t a t a a a a c t a a g c t g g c g a 3'
  - - - - -fMet - gly - asp - ser - glu - gln - gln - val - gly - ser - leu - ala - arg - thr - arg - leu - - - - -
  - lys - leu - trp - gly - thr - val - asn - asn - arg - leu - ala - his - trp - gln - glu - pro - asp - tyr - lys - thr - lys - leu - ala -

```

p35 4.0 bits

----- ... NC\_000913.yjhF

p10 4.6 bits

} p35-(23)-p10 4518704 Gap 1.4 bits  
|-----  
p35-p10 4518704 total 7.1 bits