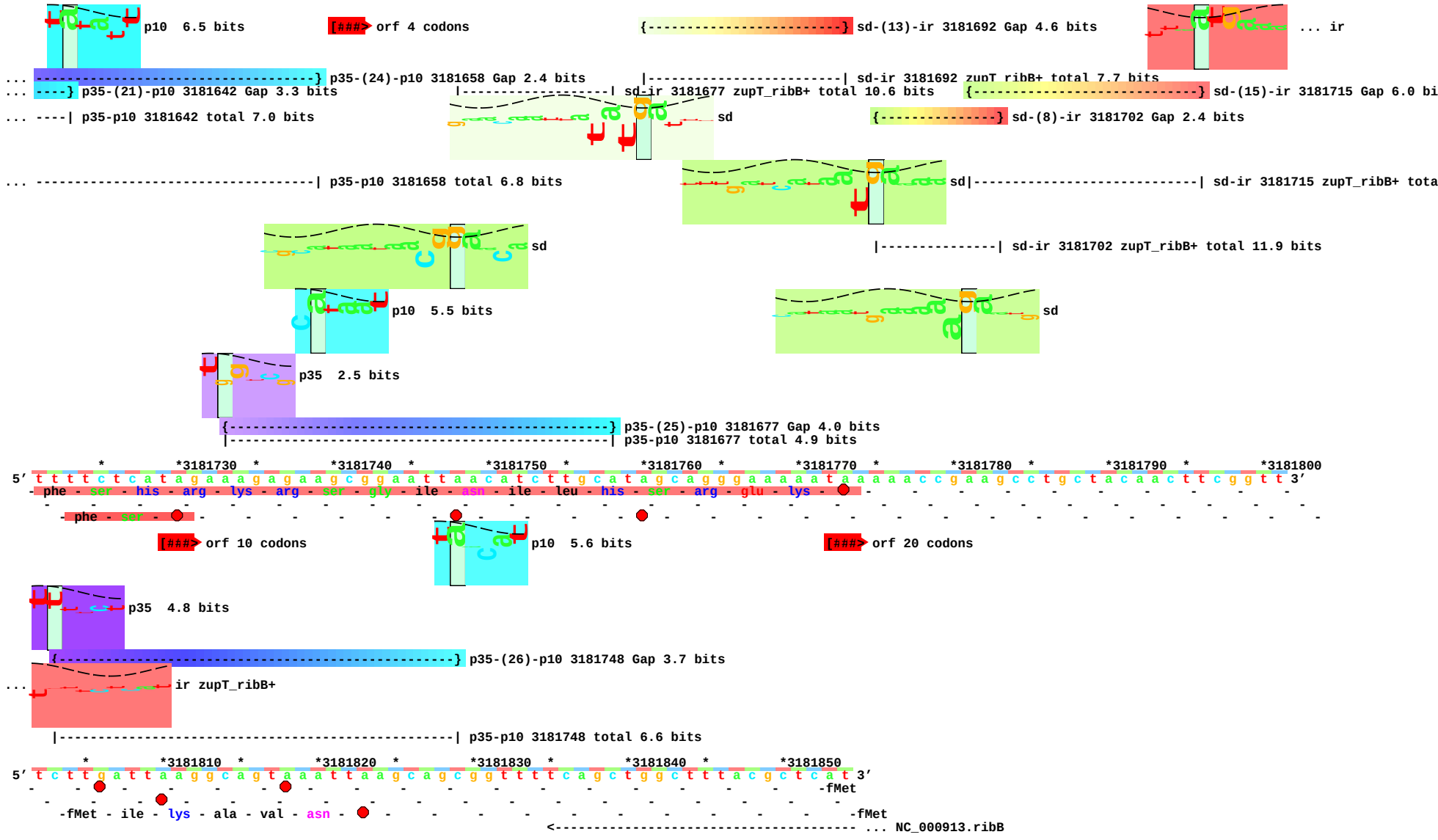
piece 1, NC_000913, zupT_ribB+, config: linear, direction: +, begin: 3181316, end: 3181854

*3181320 *3181330 *3181340 *3181350 *3181360 *3181370 *3181380 *3181390 *
5′ g t g c t g c t a c a a a c g g c g g g a a t t g g t t a a a a c a a c a t c a g a a g t t g t c c a g c g c a t g g a c a a c t t c t g c c a g c t t c a c g 3′
-fMet - leu - leu - gln - thr - ala - gly - ile - gly - -fMet - ser - ser - ala - trp - thr - thr - ser - ala - ser - phe - thr -
- cys - cys - tyr - lys - arg - arg - glu - leu - val - lys - asn - asn - ile - arg - ser - cys - pro - ala - his - gly - gln - leu - leu - pro - ala - ser - arg -
- ala - ala - thr - asn - gly - gly - asn - trp - leu - lys - thr - thr - ser - glu - val - val - gln - arg - met - asp - asn - phe - cys - gln - leu - his - glu -
*3181400 *3181410 *3181420 *3181430 *3181440 *3181450 *3181460 *3181470 *
5′ a a a g c c t t a t t c t a c c t t t t c g g c t g t c t c t t c t c t c g t a c t g t t t a a g t a t t t g t t c c g c g c t t c a a g c a g t g c g t c t c t 3′
- lys - ala - leu - phe - tyr - leu - phe - gly - cys - leu - phe - ser - arg - thr - val - -
- lys - pro - tyr - ser - thr - phe - ser - ala - val - ser - ser - leu - val - leu - phe - lys - tyr - leu - phe - arg - ala - ser - ser - ser - ala - ser - leu -
- ser - leu - ile - leu - pro - phe - arg - leu - ser - leu - leu - ser - tyr - cys - leu - ser - ile - cys - ser - ala - leu - gln - ala - val - arg - leu - cys -
p35 3.7 bits
p10 3.1 bits
... p35
{----------} p35-(22)-p10 3181436 Gap 2.3 bits
|----------| p35-p10 3181436 total 4.5 bits
*3181480 *3181490 *3181500 *3181510 *3181520 *3181530 *3181540 *3181550 *
5′ g t c c t g g c g a a a c g c c c g a c a a t a a c g t t t c a a a t g c a g g a a a t a a c c c a c c a c a a c c a g a g c a a t c a a t a c a a t c c a g t a 3′
- -fMet - gln - glu - ile - thr - his - his - asn - gln - ser - asn - gln - tyr - asn - pro - val -
- ser - trp - arg - asn - ala - arg - gln - -
- pro - gly - glu - thr - pro - asp - asn - asn - val - ser - asn - ala - gly - asn - asn - pro - pro - gln - pro - glu - gln - ser - ile - gln - ser - ser - thr -
... p35 3.2 bits
p10 3.1 bits
{----------} p35-(23)-p10 3181501 Gap 1.4 bits
|----------| p35-p10 3181501 total 4.8 bits
*3181560 *3181570 *3181580 *3181590 *3181600 *3181610 *3181620 *3181630 *
5′ c c a g g c g a t a a a c a t c c t t t t a c c c t t a a t a t t t a a c a a t a a c t a a a c a t t t a g c g t a t a a a t t t c a c a t a t c c t t t t t c g g 3′
- pro - gly - asp - lys - his - pro - phe - thr - leu - asn - ile - - -


p10 6.5 bits
[###> orf 4 codons
{----------} sd-(13)-ir 3181692 Gap 4.6 bits
... ir
... ----------} p35-(24)-p10 3181658 Gap 2.4 bits
|----------| sd-ir 3181692 zupT_ribB+ total 7.7 bits
... ----} p35-(21)-p10 3181642 Gap 3.3 bits
|----------| sd-ir 3181677 zupT_ribB+ total 10.6 bits
{----------} sd-(15)-ir 3181715 Gap 6.0 bi
... ----| p35-p10 3181642 total 7.0 bits
sd
{----------} sd-(8)-ir 3181702 Gap 2.4 bits
... ----------| p35-p10 3181658 total 6.8 bits
sd|----------| sd-ir 3181715 zupT_ribB+ tota
sd
|----------| sd-ir 3181702 zupT_ribB+ total 11.9 bits
p10 5.5 bits
sd
p35 2.5 bits
{----------} p35-(25)-p10 3181677 Gap 4.0 bits
|----------| p35-p10 3181677 total 4.9 bits
*3181730 *3181740 *3181750 *3181760 *3181770 *3181780 *3181790 *3181800
5' t t t t c t c a t a g a a a g a g a a g c g g a a t t a a c a t c t t g c a t a g c a g g g a a a a a t a a a a a c c g a a g c c t g c t a c a a c t t c g g t t 3'
- phe - ser - his - arg - lys - arg - ser - gly - ile - asn - ile - leu - his - ser - arg - glu - lys -
- phe - ser -
[###> orf 10 codons
p10 5.6 bits
[###> orf 20 codons
p35 4.8 bits
{----------} p35-(26)-p10 3181748 Gap 3.7 bits
... ir zupT_ribB+
|----------| p35-p10 3181748 total 6.6 bits
*3181810 *3181820 *3181830 *3181840 *3181850
5' t c t t g a t t a a g g c a g t a a a t t a a g c a g c g g t t t t c a g c t g g c t t t a c g c t c a t 3'
-fMet
-fMet - ile - lys - ala - val - asn -
-fMet
<---------- ... NC_000913.ribB