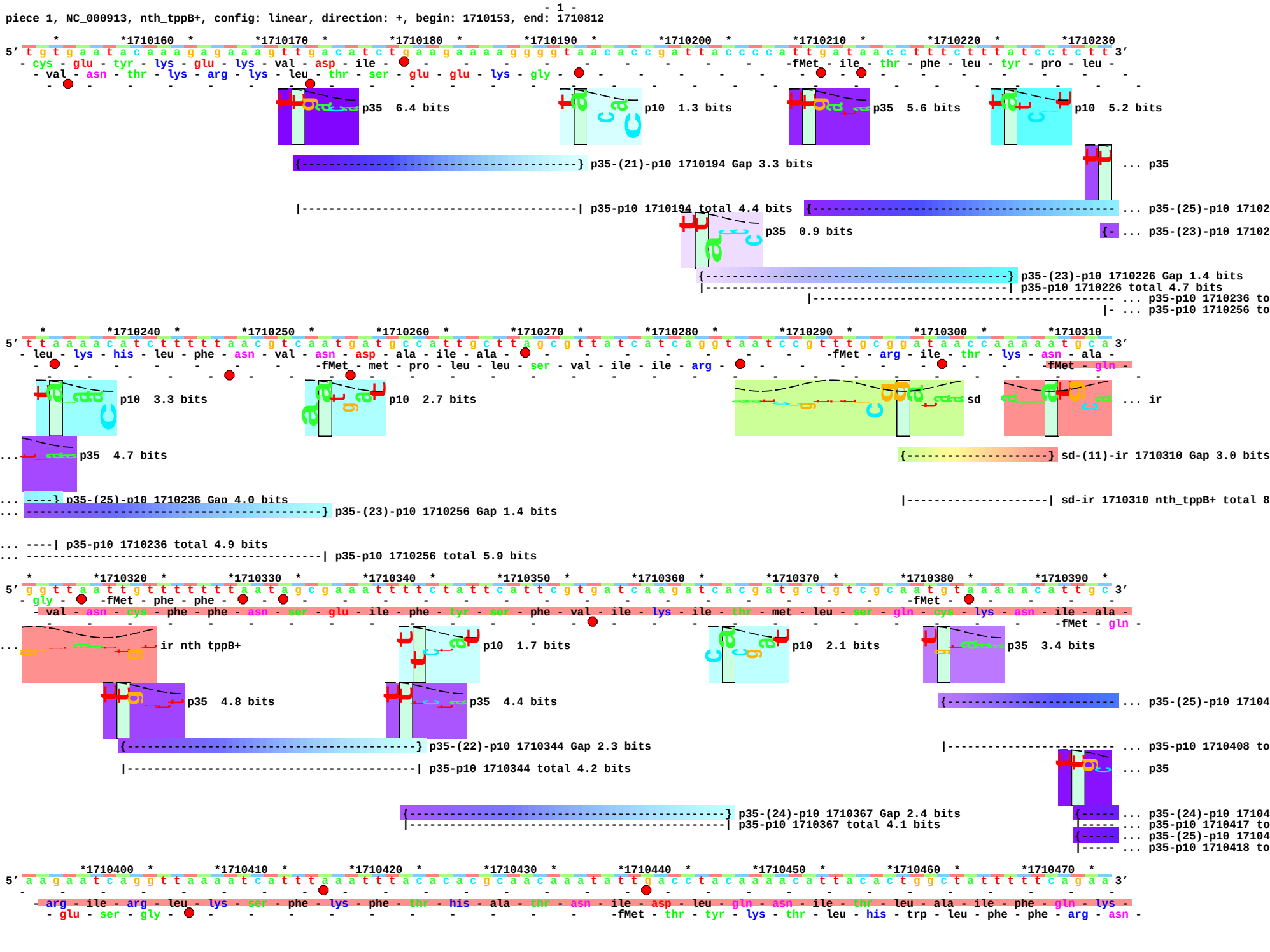
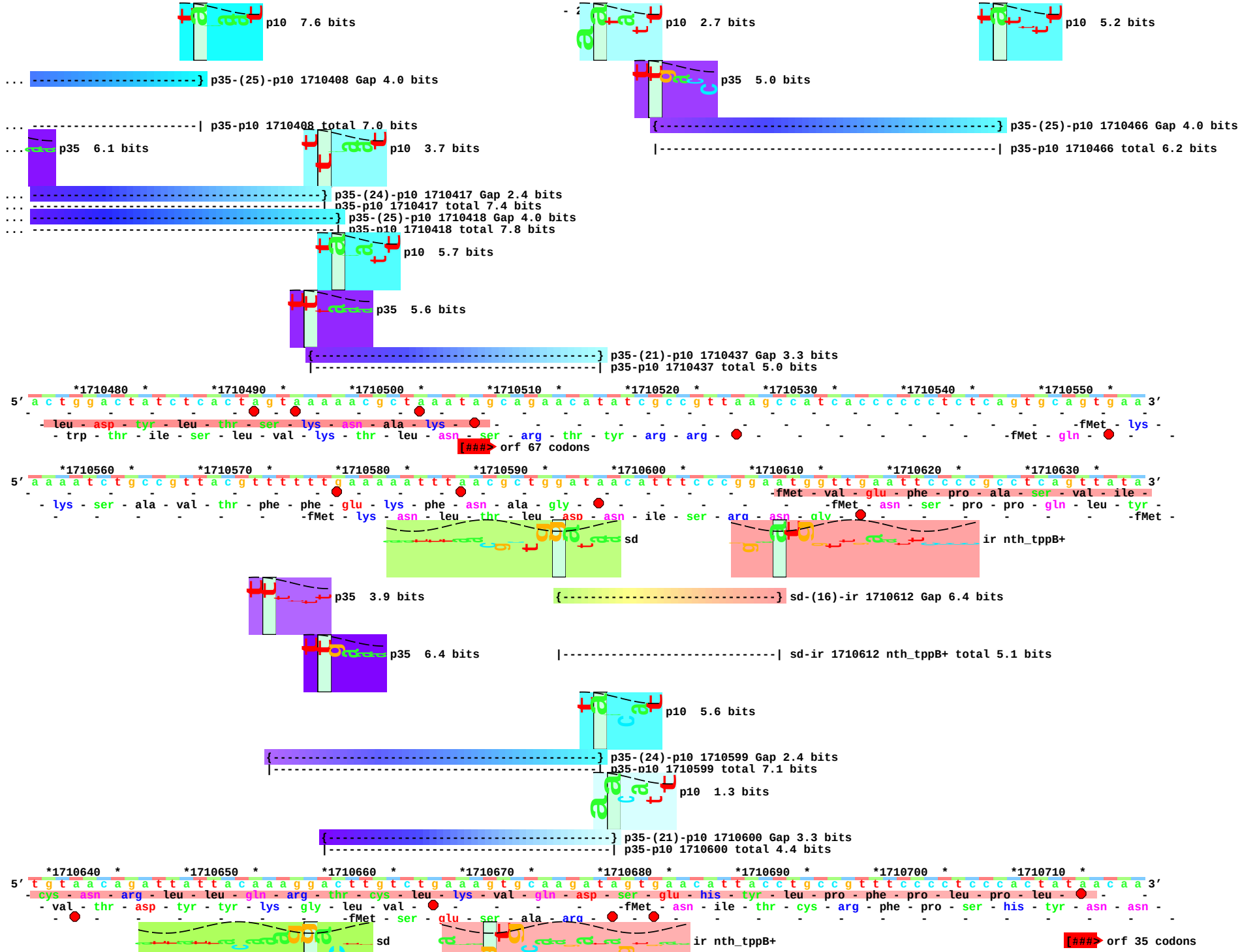
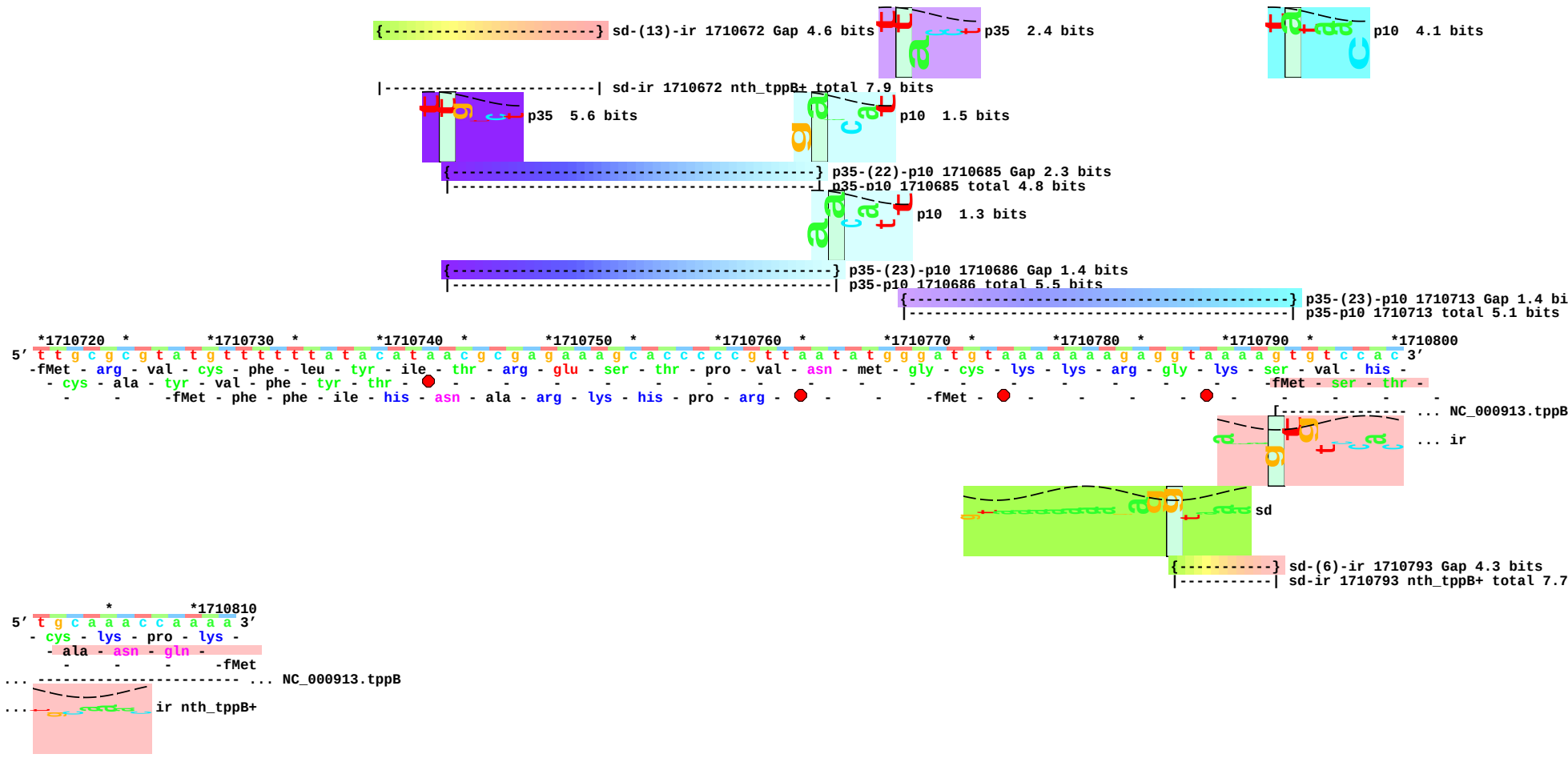

piece 1, NC_000913, nth_tppB+, config: linear, direction: +, begin: 1710153, end: 1710812
*1710160 *1710170 *1710180 *1710190 *1710200 *1710210 *1710220 *1710230
5′ t g t g a a t a c a a a g a g a a a g t t g a c a t c t g a a g a a a a g g g g t a a c a c c g a t t a c c c c a t t g a t a a c c t t t c t t t a t c c t c t t 3′
- cys - glu - tyr - lys - glu - lys - val - asp - ile - -fMet - ile - thr - phe - leu - tyr - pro - leu -
- val - asn - thr - lys - arg - lys - leu - thr - ser - glu - glu - lys - gly -
p35 6.4 bits
p10 1.3 bits
p35 5.6 bits
p10 5.2 bits
{----------} p35-(21)-p10 1710194 Gap 3.3 bits
... p35
|----------| p35-p10 1710194 total 4.4 bits
{---------- ... p35-(25)-p10 17102
p35 0.9 bits
{- ... p35-(23)-p10 17102
{----------} p35-(23)-p10 1710226 Gap 1.4 bits
|----------| p35-p10 1710226 total 4.7 bits
|---------- ... p35-p10 1710236 to
|- ... p35-p10 1710256 to
*1710240 *1710250 *1710260 *1710270 *1710280 *1710290 *1710300 *1710310
5′ t t a a a a c a t c t t t t t a a c g t c a a t g a t g c c a t t g c t t a g c g t t a t c a t c a g g t a a t c c g t t g c g g a t a a c c a a a a a t g c a 3′
- leu - lys - his - leu - phe - asn - val - asn - asp - ala - ile - ala - -fMet - arg - ile - thr - lys - asn - ala -
-fMet - met - pro - leu - leu - ser - val - ile - ile - arg - -fMet - gln -
p10 3.3 bits
p10 2.7 bits
sd
... ir
... p35 4.7 bits
{----------} sd-(11)-ir 1710310 Gap 3.0 bits
... ----} p35-(25)-p10 1710236 Gap 4.0 bits
|----------| sd-ir 1710310 nth_tppB+ total 8
... ----------} p35-(23)-p10 1710256 Gap 1.4 bits
... ----| p35-p10 1710236 total 4.9 bits
... ----------| p35-p10 1710256 total 5.9 bits
*1710320 *1710330 *1710340 *1710350 *1710360 *1710370 *1710380 *1710390
5′ g g t t a a t t g t t t t t t t a a t a g c g a a a t t t t c t a t t c a t t c g t g a t c a a g a t c a c g a t g c t g t c g c a a t g t a a a a a c a t t g c 3′
- gly - -fMet - phe - phe - -fMet -
- val - asn - cys - phe - phe - asn - ser - glu - ile - phe - tyr - ser - phe - val - ile - lys - ile - thr - met - leu - ser - gln - cys - lys - asn - ile - ala -
-fMet - gln -
... ir nth_tppB+
p10 1.7 bits
p10 2.1 bits
p35 3.4 bits
p35 4.8 bits
p35 4.4 bits
{---------- ... p35-(25)-p10 17104
{----------} p35-(22)-p10 1710344 Gap 2.3 bits
|---------- ... p35-p10 1710408 to
|----------| p35-p10 1710344 total 4.2 bits
... p35
{----------} p35-(24)-p10 1710367 Gap 2.4 bits
|----------| p35-p10 1710367 total 4.1 bits
{----- ... p35-(24)-p10 17104
|----- ... p35-p10 1710417 to
{----- ... p35-(25)-p10 17104
|----- ... p35-p10 1710418 to
*1710400 *1710410 *1710420 *1710430 *1710440 *1710450 *1710460 *1710470
5′ a a g a a t c a g g t t a a a a t c a t t t a a a t t t a c a c a c g c a a c a a a t a t t g a c c t a c a a a a c a t t a c a c t g g c t a t t t t t c a g a a 3′
- arg - ile - arg - leu - lys - ser - phe - lys - phe - thr - his - ala - thr - asn - ile - asp - leu - gln - asn - ile - thr - leu - ala - ile - phe - gln - lys -
- glu - ser - gly - -fMet - thr - tyr - lys - thr - leu - his - trp - leu - phe - phe - arg - asn -


p10 7.6 bits
p10 2.7 bits
p10 5.2 bits
p35-(25)-p10 1710408 Gap 4.0 bits
p35 5.0 bits
p35-p10 1710408 total 7.0 bits
p35 6.1 bits
p10 3.7 bits
p35-(25)-p10 1710466 Gap 4.0 bits
p35-p10 1710466 total 6.2 bits
p35-(24)-p10 1710417 Gap 2.4 bits
p35-p10 1710417 total 7.4 bits
p35-(25)-p10 1710418 Gap 4.0 bits
p35-p10 1710418 total 7.8 bits
p10 5.7 bits
p35 5.6 bits
p35-(21)-p10 1710437 Gap 3.3 bits
p35-p10 1710437 total 5.0 bits
*1710480 *1710490 *1710500 *1710510 *1710520 *1710530 *1710540 *1710550 *
5' actggactatctcactagtaaaaacgctaaatagcagaacatatcgccgttaagccatcacccccctctcagtgcagtgaa 3'
- leu - asp - tyr - leu - thr - ser - lys - asn - ala - lys -
- trp - thr - ile - ser - leu - val - lys - thr - leu - asn - ser - arg - thr - tyr - arg - arg -
-fMet - lys -
-fMet - gln -
[###> orf 67 codons
*1710560 *1710570 *1710580 *1710590 *1710600 *1710610 *1710620 *1710630 *
5' aaaatctgccgttacgttttttgaaaaatttaacgctggataacatttcccggaatggttgaattccccgcctcagttata 3'
-fMet - val - glu - phe - pro - ala - ser - val - ile -
- lys - ser - ala - val - thr - phe - phe - glu - lys - phe - asn - ala - gly -
-fMet - asn - ser - pro - pro - gln - leu - tyr -
-fMet - lys - asn - leu - thr - leu - asp - asn - ile - ser - arg - asn - gly -
sd
ir nth_tppB+
p35 3.9 bits
sd-(16)-ir 1710612 Gap 6.4 bits
p35 6.4 bits
sd-ir 1710612 nth_tppB+ total 5.1 bits
p10 5.6 bits
p35-(24)-p10 1710599 Gap 2.4 bits
p35-p10 1710599 total 7.1 bits
p10 1.3 bits
p35-(21)-p10 1710600 Gap 3.3 bits
p35-p10 1710600 total 4.4 bits
*1710640 *1710650 *1710660 *1710670 *1710680 *1710690 *1710700 *1710710 *
5' tgtaacagattattacaaaggacttgtctgaaagtgcaagatagtgaacattacctgccgtttcccctcccactataacaa 3'
- cys - asn - arg - leu - leu - gln - arg - thr - cys - leu - lys - val - gln - asp - ser - glu - his - tyr - leu - pro - phe - pro - leu - pro - leu -
- val - thr - asp - tyr - tyr - lys - gly - leu - val -
-fMet - asn - ile - thr - cys - arg - phe - pro - ser - his - tyr - asn - asn -
-fMet - ser - glu - ser - ala - arg -
sd
ir nth_tppB+
[###> orf 35 codons


{----------} sd-(13)-ir 1710672 Gap 4.6 bits
p35 2.4 bits
p10 4.1 bits
|----------| sd-ir 1710672 nth_tppB+ total 7.9 bits
p35 5.6 bits
p10 1.5 bits
{----------} p35-(22)-p10 1710685 Gap 2.3 bits
|----------| p35-p10 1710685 total 4.8 bits
p10 1.3 bits
{----------} p35-(23)-p10 1710686 Gap 1.4 bits
|----------| p35-p10 1710686 total 5.5 bits
{----------} p35-(23)-p10 1710713 Gap 1.4 bi
|----------| p35-p10 1710713 total 5.1 bits
*1710720 * *1710730 * *1710740 * *1710750 * *1710760 * *1710770 * *1710780 * *1710790 * *1710800
5' t t g c g c g t a t g t t t t t t a t a c a t a a c g c g a g a a a g c a c c c c c g t t a a t a t g g g a t g t a a a a a a a a g a g g t a a a a g t g t c c a c 3'
-fMet - arg - val - cys - phe - leu - tyr - ile - thr - arg - glu - ser - thr - pro - val - asn - met - gly - cys - lys - lys - arg - gly - lys - ser - val - his -
- cys - ala - tyr - val - phe - tyr - thr - -fMet - ser - thr -
-fMet - phe - phe - ile - his - asn - ala - arg - lys - his - pro - arg - -fMet -
[---------- ... NC_000913.tppB
... ir
sd
{----------} sd-(6)-ir 1710793 Gap 4.3 bits
|----------| sd-ir 1710793 nth_tppB+ total 7.7
* *1710810
5' t g c a a a c c a a a a 3'
- cys - lys - pro - lys -
- ala - asn - gln -
-fMet
... ---------- ... NC_000913.tppB
... ir nth_tppB+