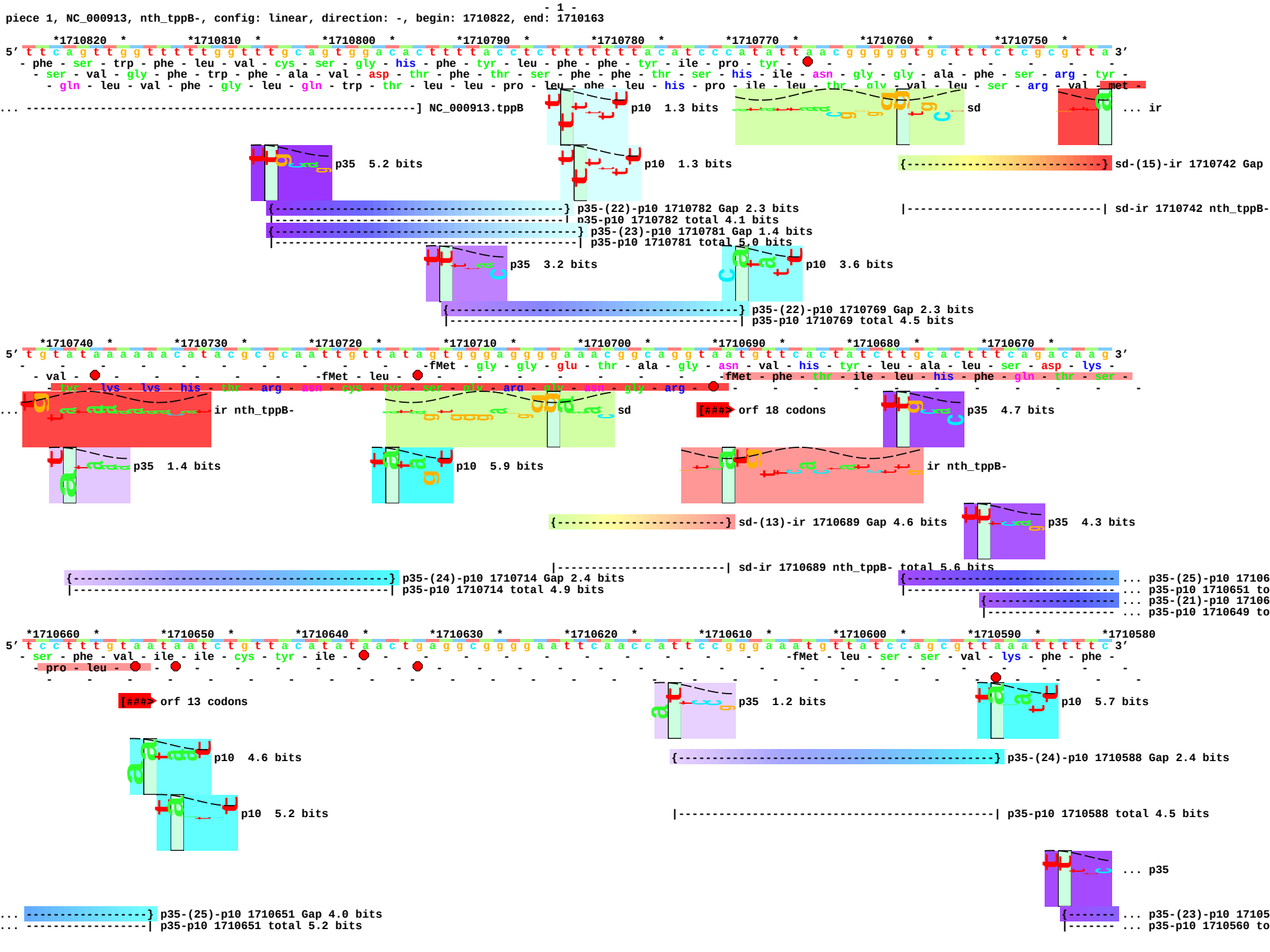
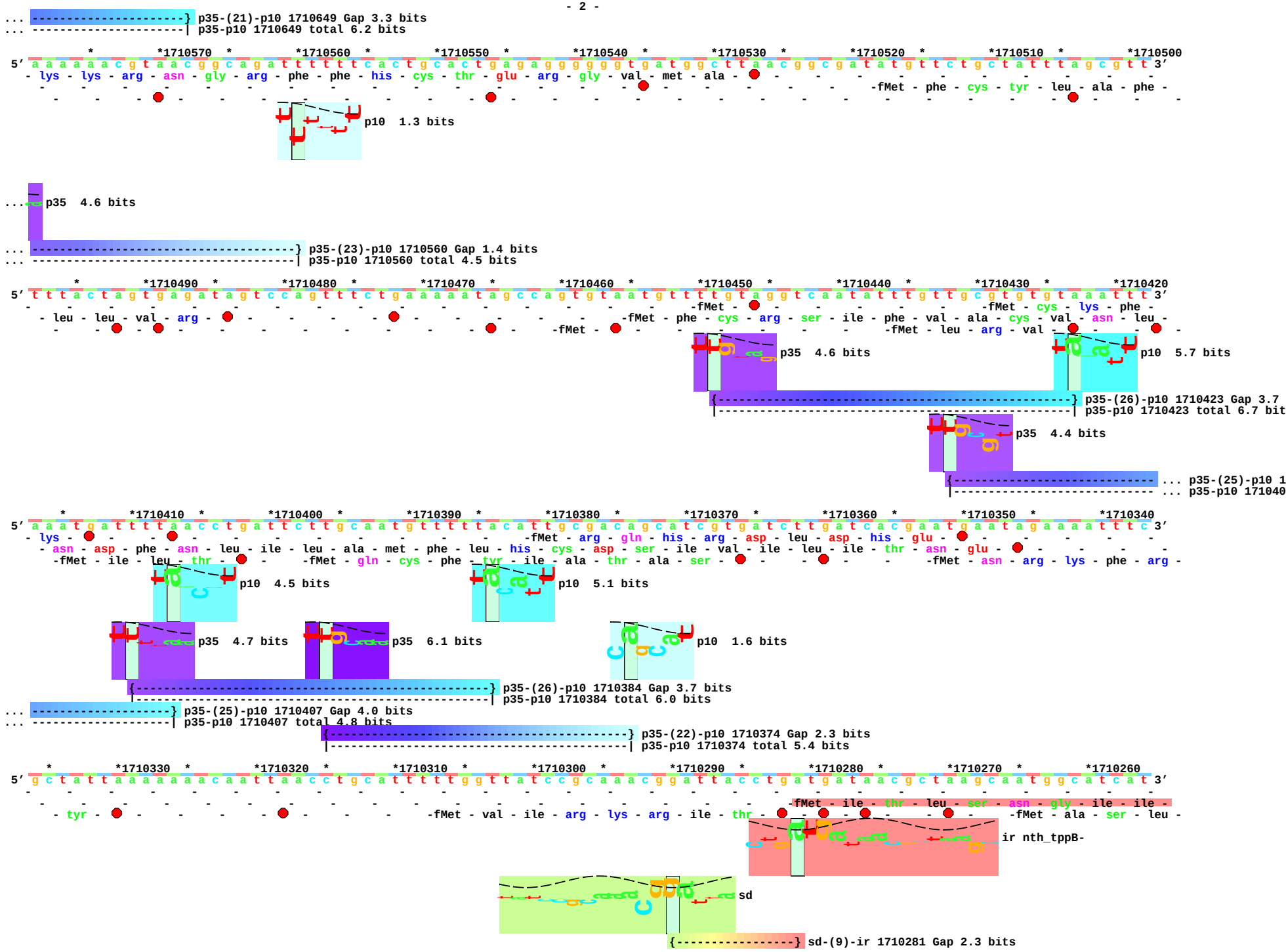
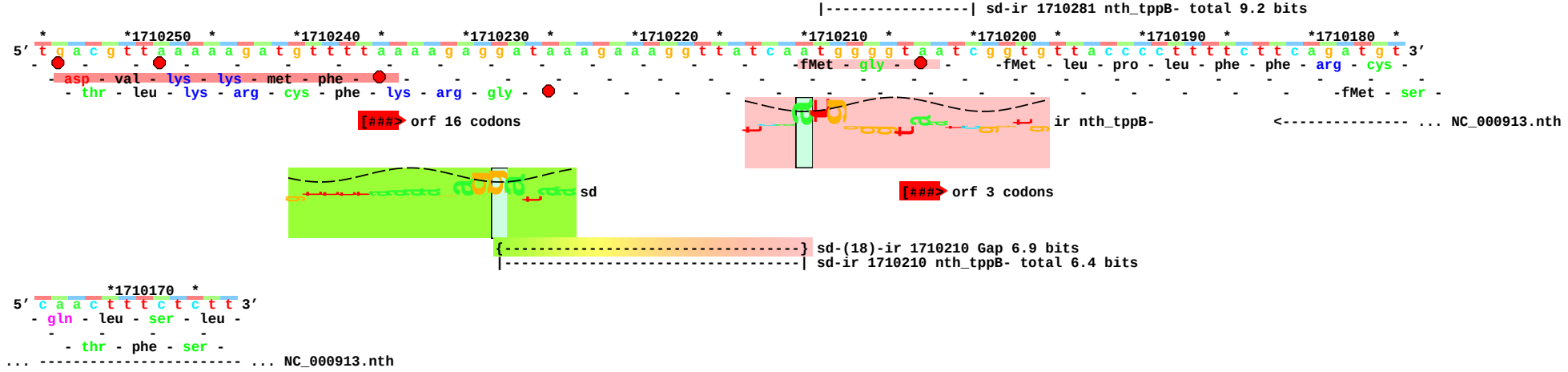

piece 1, NC_000913, nth_tppB-, config: linear, direction: -, begin: 1710822, end: 1710163
*1710820 *1710810 *1710800 *1710790 *1710780 *1710770 *1710760 *1710750 *
5' t t c a g t t g g t t t t t g g t t t g c a g t g g a c a c t t t t a c c t c t t t t t t t t a c a t c c c a t a t t a a c g g g g g t g c t t t c t c g c g t t a 3'
- phe - ser - trp - phe - leu - val - cys - ser - gly - his - phe - tyr - leu - phe - phe - tyr - ile - pro - tyr -
- ser - val - gly - phe - trp - phe - ala - val - asp - thr - phe - thr - ser - phe - phe - thr - ser - his - ile - asn - gly - gly - ala - phe - ser - arg - tyr -
- gln - leu - val - phe - gly - leu - gln - trp - thr - leu - leu - pro - leu - phe - leu - his - pro - ile - leu - thr - gly - val - leu - ser - arg - val - met -
... ----------] NC_000913.tppB
p10 1.3 bits
sd
... ir
p35 5.2 bits
p10 1.3 bits
{----------} sd-(15)-ir 1710742 Gap
{----------} p35-(22)-p10 1710782 Gap 2.3 bits
|----------| p35-p10 1710782 total 4.1 bits
|----------| sd-ir 1710742 nth_tppB-
{----------} p35-(23)-p10 1710781 Gap 1.4 bits
|----------| p35-p10 1710781 total 5.0 bits
p35 3.2 bits
p10 3.6 bits
{----------} p35-(22)-p10 1710769 Gap 2.3 bits
|----------| p35-p10 1710769 total 4.5 bits
*1710740 *1710730 *1710720 *1710710 *1710700 *1710690 *1710680 *1710670 *
5' t g t a t a a a a a c a t a c g c g c a a t t g t t a t a g t g g g a g g g g a a a c g g c a g g t a a t g t t c a c t a t c t t g c a c t t t c a g a c a a g 3'
-fMet - gly - gly - glu - thr - ala - gly - asn - val - his - tyr - leu - ala - leu - ser - asp - lys -
-fMet - leu -
-fMet - phe - thr - ile - leu - his - phe - gln - thr - ser -
- tyr - lys - lys - his - thr - arg - asn - cys - tyr - ser - gly - arg - gly - asn - gly - arg -
... ir nth_tppB-
sd
[###> orf 18 codons
p35 4.7 bits
p35 1.4 bits
p10 5.9 bits
ir nth_tppB-
{----------} sd-(13)-ir 1710689 Gap 4.6 bits
p35 4.3 bits
|----------| sd-ir 1710689 nth_tppB- total 5.6 bits
{----------} p35-(24)-p10 1710714 Gap 2.4 bits
|----------| p35-p10 1710714 total 4.9 bits
{---------- ... p35-(25)-p10 17106
|---------- ... p35-p10 1710651 to
{---------- ... p35-(21)-p10 17106
|---------- ... p35-p10 1710649 to
*1710660 *1710650 *1710640 *1710630 *1710620 *1710610 *1710600 *1710590 *1710580
5' t c c t t t g t a a t a a t c t g t t a c a t a t a a c t g a g g c g g g a a t t c a a c c a t t c c g g g a a a t g t t a t c c a g c g t t a a a t t t t t c 3'
- ser - phe - val - ile - ile - cys - tyr - ile -
-fMet - leu - ser - ser - val - lys - phe - phe -
- pro - leu -
[###> orf 13 codons
p35 1.2 bits
p10 5.7 bits
p10 4.6 bits
{----------} p35-(24)-p10 1710588 Gap 2.4 bits
p10 5.2 bits
|----------| p35-p10 1710588 total 4.5 bits
... p35
... ----------} p35-(25)-p10 1710651 Gap 4.0 bits
... ----------| p35-p10 1710651 total 5.2 bits
{------- ... p35-(23)-p10 17105
|------- ... p35-p10 1710560 to


p35-(21)-p10 1710649 Gap 3.3 bits
p35-p10 1710649 total 6.2 bits
*1710570 *1710560 *1710550 *1710540 *1710530 *1710520 *1710510 *1710500
5' aaaaaacgtaacggcagatttttcactgcactgagagggggtgatggcttaacggcgatatgttctgctatttagcgtt 3'
- lys - lys - arg - asn - gly - arg - phe - phe - his - cys - thr - glu - arg - gly - val - met - ala - -fMet - phe - cys - tyr - leu - ala - phe -
p10 1.3 bits
p35 4.6 bits
p35-(23)-p10 1710560 Gap 1.4 bits
p35-p10 1710560 total 4.5 bits
*1710490 *1710480 *1710470 *1710460 *1710450 *1710440 *1710430 *1710420
5' tttactagtgagatagtccagtttctgaaaaatagccagtgtaatgttttgtaggtcaatatttgttgcgtgtgtaaattt 3'
- leu - leu - val - arg - -fMet - -fMet - phe - cys - arg - ser - ile - phe - val - ala - cys - val - asn - leu - -fMet - cys - lys - phe -
-fMet - leu - arg - val -
p35 4.6 bits
p10 5.7 bits
p35-(26)-p10 1710423 Gap 3.7
p35-p10 1710423 total 6.7 bit
p35 4.4 bits
... p35-(25)-p10 1
... p35-p10 171040
*1710410 *1710400 *1710390 *1710380 *1710370 *1710360 *1710350 *1710340
5' aaatgatttaacctgattcttgcaattgttttacattgcgacagcatcgtgatcttgatcacgaatgaatagaaaatttc 3'
- lys - asn - asp - phe - asn - leu - ile - leu - ala - met - phe - leu - his - cys - asp - ser - ile - val - ile - leu - ile - thr - asn - glu - -fMet - arg - gln - his - arg - asp - leu - asp - his - glu - -fMet - ile - leu - thr - -fMet - gln - cys - phe - tyr - ile - ala - thr - ala - ser - -fMet - asn - arg - lys - phe - arg -
p10 4.5 bits
p10 5.1 bits
p35 4.7 bits
p35 6.1 bits
p10 1.6 bits
p35-(26)-p10 1710384 Gap 3.7 bits
p35-p10 1710384 total 6.0 bits
p35-(25)-p10 1710407 Gap 4.0 bits
p35-p10 1710407 total 4.8 bits
p35-(22)-p10 1710374 Gap 2.3 bits
p35-p10 1710374 total 5.4 bits
*1710330 *1710320 *1710310 *1710300 *1710290 *1710280 *1710270 *1710260
5' gctattaaaaaaacaattaacctgcattttggttatccgcaaacggattacctgatgataacgctaagcaatggcatcat 3'
- tyr - -fMet - val - ile - arg - lys - arg - ile - thr - -fMet - ile - thr - leu - ser - asn - gly - ile - ile - -fMet - ala - ser - leu -
ir nth_tppB-
sd
sd-(9)-ir 1710281 Gap 2.3 bits


|----------| sd-ir 1710281 nth_tppB- total 9.2 bits
*1710250 *1710240 *1710230 *1710220 *1710210 *1710200 *1710190 *1710180
5′ t g a c g t t a a a a a g a t g t t t t a a a a g a g g a t a a a g a a a g g t t a t c a a t g g g g t a a t c g g t g t t a c c c c t t t t c t t c a g a t g t 3′
- - - -