

piece 1, NC_000913, yibs_yibH-, config: linear, direction: -, begin: 3768295, end: 3766894

*3768290 *3768280 *3768270 *3768260 *3768250 *3768240 *3768230 *3768220 *

5' t g g a t g c a t t a t t a c t t t a t t t g g a t c a t t g a g g g g g a g a g a t t a t g g a c t t t g t a a g g a c t a a t t a t t t 3'

- trp - met - his - tyr - leu - tyr - leu - asp - his - glu - gly - glu - gly - gly - asp - tyr - gly - thr - leu - leu - leu - val - arg - thr - asn - tyr - phe -

- gly - cys - ile - ile - phe - ile - trp - ile - ile - glu - gly - glu - gly - gly - glu - ile - met - glu - leu - cys - ser - leu -

- asp - ala - leu - ser - leu - phe - gly - ser - leu - arg - gly - arg - gly - glu -



sd (13)-ir 3768248 Gap 4.6 bits [###] orf 7 codons
 sd-ir 3768248 yibs yibH- total 6.7 bits

p35 3.8 bits

p35-(21)-p10 3768218 Gap 3.3 bits
 p35-p10 3768218 total 5.7 bits

p35 5.5 bits

... p35-(22)-p10 3768210 Gap
 ... p35-p10 3768210 total 6.8
 ... p35-(24)-p10 3768208 Gap
 ... p35-p10 3768208 total 5.9

*3768210 *3768200 *3768190 *3768180 *3768170 *3768160 *3768150 *3768140 *

5' t t g c a t a t t a c t t c a t t a g c t t c g a t g a t t t t t c t t t a a t a t t c a t t a t g t t a a t a a g t t c t g g a t g a g t g t g c t c a t t 3'

-fMet - his - ile - thr - ser - leu - ala - ser - met - ile - phe - leu - fMet - leu - ile - ser - ser - gly - fMet - ser - val - leu - ser - leu -

- cys - ile - leu - leu - his - fMet - cys - ser - his - trp -

p10 5.2 bits

p10 2.4 bits

p10 4.6 bits

p10 3.6 bits

p35 2.6 bits

p10 3.8 bits

p10 2.8 bits

p35-(22)-p10 3768167 Gap 2.3 bits

p35 6.2 bits

p35-p10 3768167 total 4.8 bits

p35-(23)-p10 3768190 Gap 1.4 bits
 p35-p10 3768190 total 7.1 bits

p35 4.5 bits

p35-(22)-p10 3768210 Gap 2.3 bits
 p35-p10 3768210 total 6.8 bits
 p35-(24)-p10 3768208 Gap 2.4 bits
 p35-p10 3768208 total 5.9 bits

p35-(24)-p10 3768159 Gap 2.4 bits
 p35-p10 3768159 total 5.8 bits

*3768130 *3768120 *3768110 *3768100 *3768090 *3768080 *3768070 *3768060 *

5' g g a t t t t t t a t c c g t c t t t g t t c t g c c g c a g g a t g a g a c t a t a c a t c g t c g a g a t c g c a a t g a t g a t a t g a g t t g t t c c t c c 3'

- asp - phe - leu - ser - val - leu - phe - cys - arg - arg - met - arg - leu - tyr - ile - val - glu - ile - ala - met - met - ile - fMet - phe - leu - leu -

- ile - phe - tyr - pro - ser - cys - ser - ala - ala - gly - fMet - cys - ser - ser -

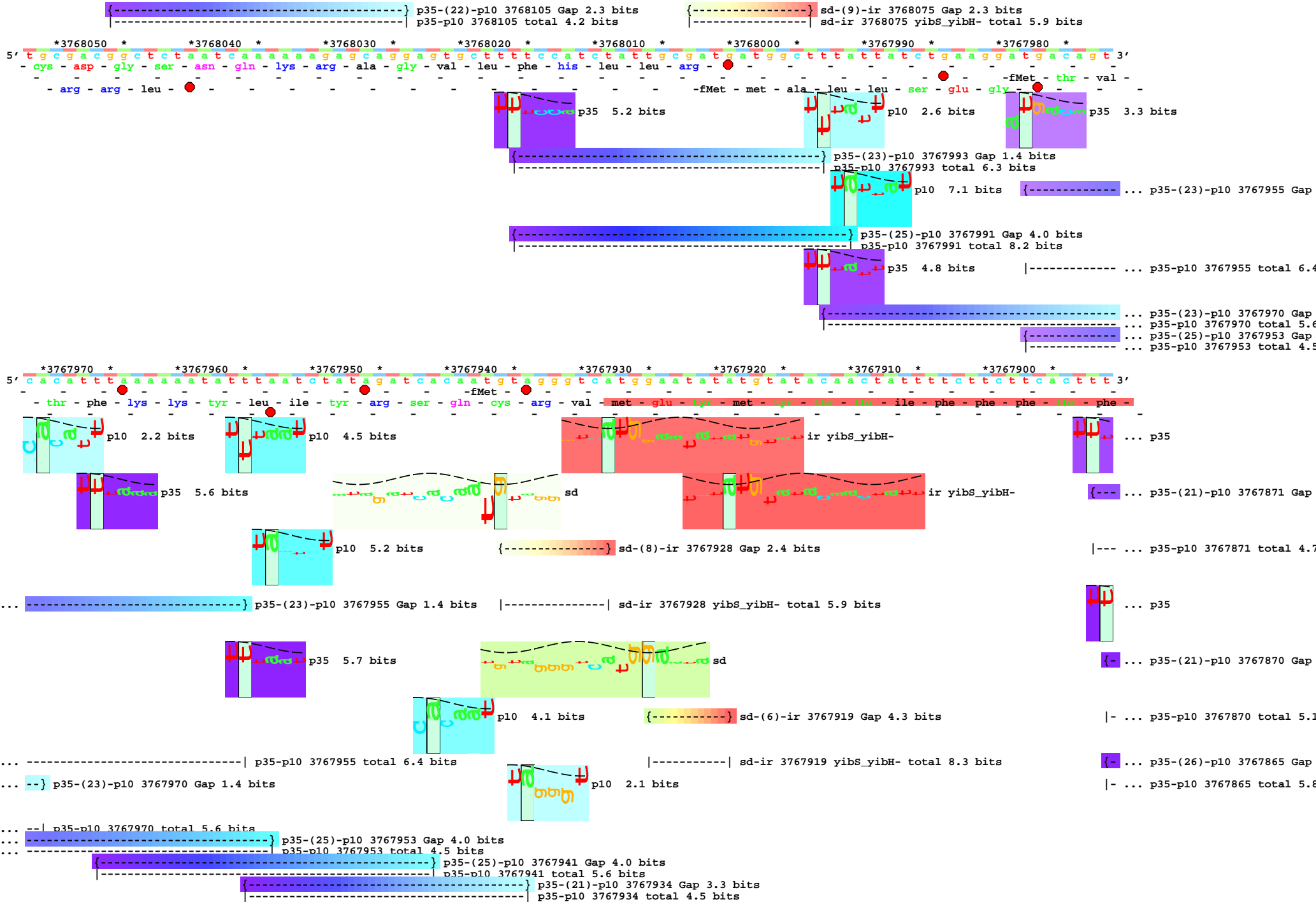
p35 4.8 bits

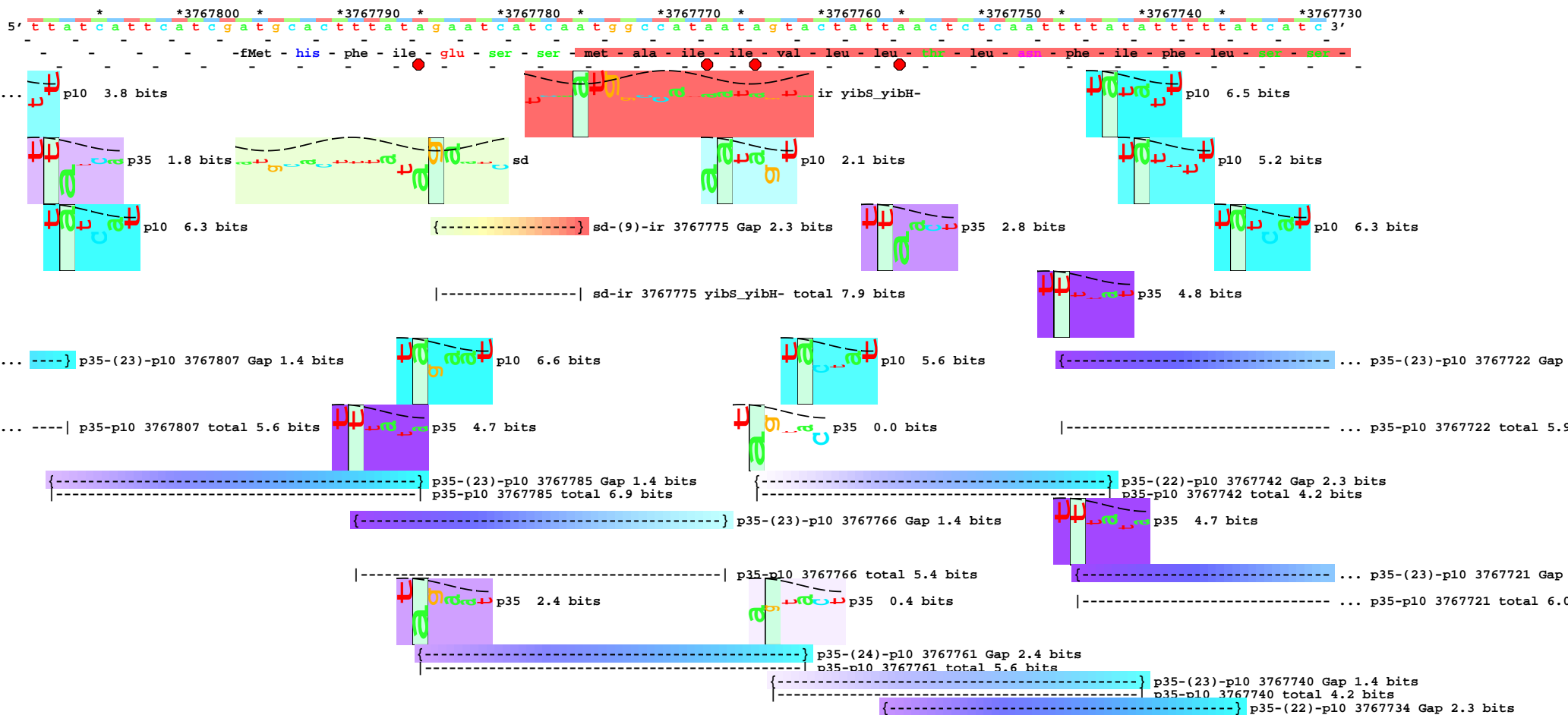
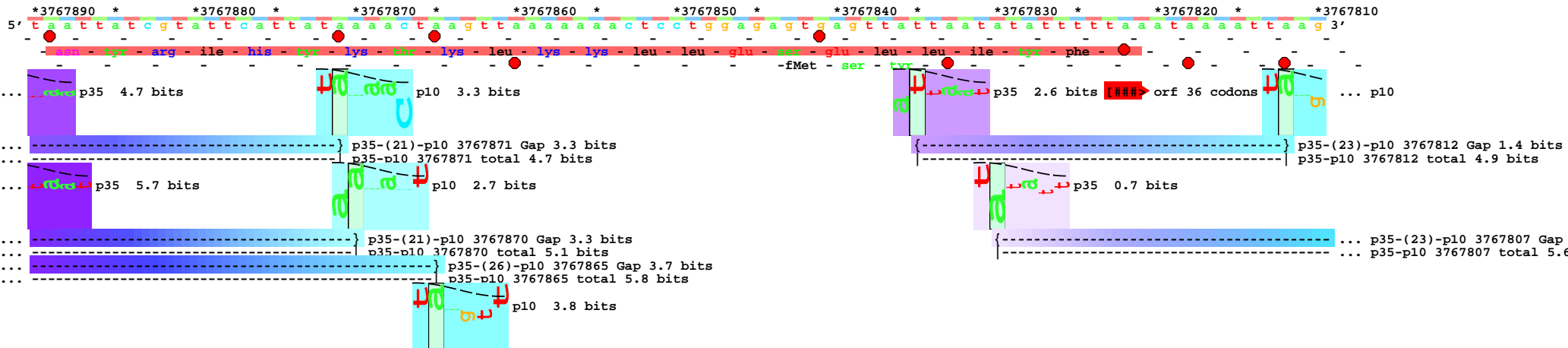
p10 1.8 bits

ir yibs_yibH-



sd [###] orf 4 codons





p35-(24)-p10 3767614 Gap 2.4 bits
p35-p10 3767614 total 4.1 bits

p35 3.7 bits

p35-(23)-p10 3767606 Gap 1.4 bits
p35-p10 3767606 total 8.7 bits

* 3767560 * 3767550 * 3767540 * 3767530 * 3767520 * 3767510 * 3767500 * 3767490

5' c g g a a a g t c c a g c a t c t a t t t g t a c c t c a t t a t a t t a g a t a a g g a t g t g a g a a a t t c c t t g t t a t c a t t c g c a g c c a t a t 3'

- arg - lys - val - gln - his - leu - phe - cys - thr - ser - leu - tyr - -fMet - -fMet - tyr - leu - ile - ile - leu - asp - lys - asp - val - arg - asn - ser - leu - leu - ser - phe - ala - ala - ile - tyr -

* 3767480 * 3767470 * 3767460 * 3767450 * 3767440 * 3767430 * 3767420 * 3767410 *

5' a t g c c a g t c c g a g t t c a g c c t c t g c g g c c t t a c a g g c a a a a t a g c t t a g t g a a c a c g c t t t t c g t c c c t c t t a g t a c t g g 3'

-fMet - pro - val - arg - val - gln - pro - leu - arg - pro - tyr - arg - gln - asn - ser - leu - val - asn - thr - leu - phe - val - pro - leu -

- ala - ser - pro - ser - ser - ala - ser - ala - ala - leu - gln - ala - lys -

p35 3.8 bits

... p35-(25)-p10 3767389 Gap
... p35-p10 3767389 total 5.3

p35 0.4 bits

... p35-(24)-p10 3767387 Gap
... p35-p10 3767387 total 4.3

* 3767400 * 3767390 * 3767380 * 3767370 * 3767360 * 3767350 * 3767340 * 3767330 *

5' c t g a t a t t a g t g c c c a t a a t a t t g c t t t g t c t g c c a a a t c t a a c t c t c t c t g a a a t t g t c t t g c a g t a a c t g c a c t c g c a g 3'

-fMet - pro - ile - ile - leu - leu - cys - leu - pro - asn - leu - thr - leu - ser - glu - ile - val - leu - gln - -fMet - ser - leu - cys - ser - asn - cys - thr - arg - arg -

-fMet - ser - ala - lys - ser - asn - ser - leu -

p10 5.5 bits

p35-(25)-p10 3767389 Gap 4.0 bits
p35-p10 3767389 total 5.3 bits

p10 6.3 bits

p35-(24)-p10 3767387 Gap 2.4 bits
p35-p10 3767387 total 4.3 bits

* 3767320 * 3767310 * 3767300 * 3767290 * 3767280 * 3767270 * 3767260 * 3767250 *

5' a a a t a g a g a a a a a a t a c a a t t g t t a a t a a c c t g c c a t a t t t t t t a g t c c g t a a c t g t t a a t g t g c t a t c t g g c t c t g a a 3'

- asn - arg - glu - lys - asn - thr - ile - val - asn - asn - leu - ala - ile - phe - phe - ser - pro - -fMet - leu - ser - gly - ser - glu -

-fMet - leu - ile - thr - leu - pro - tyr - phe - leu - val - arg - asn - cys - -fMet - cys - tyr - leu - ala - leu - lys -

p35 4.7 bits

p10 2.0 bits

p35-(23)-p10 3767279 Gap 1.4 bits
p35-p10 3767279 total 5.2 bits

* 3767240 * 3767230 * 3767220 * 3767210 * 3767200 * 3767190 * 3767180 * 3767170 *

5' a a t a t t a a c t c a t t t t a a t t t t t g c a t g t c a t t a g a t a a a c c a g t t a t a c a a c c c t c g g a a c a g a a t c g a g g t c c t a a a g a c 3'

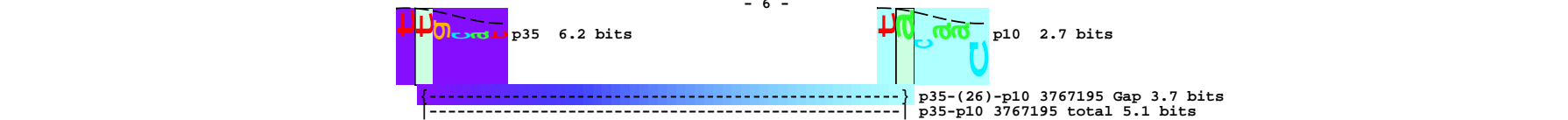
- asn - ile - asn - ser - phe - asn - phe - cys - met - ser - leu - asp - lys - pro - val - ile - gln - pro - ser - glu - gln - asn - arg - gly - pro - lys - asp -

- ile - leu - thr - his - leu - ile - phe - ala - cys - his - -fMet - his - val - ile - arg -

p35 5.7 bits

p10 2.2 bits

p35-(23)-p10 3767206 Gap 1.4 bits
p35-p10 3767206 total 6.4 bits

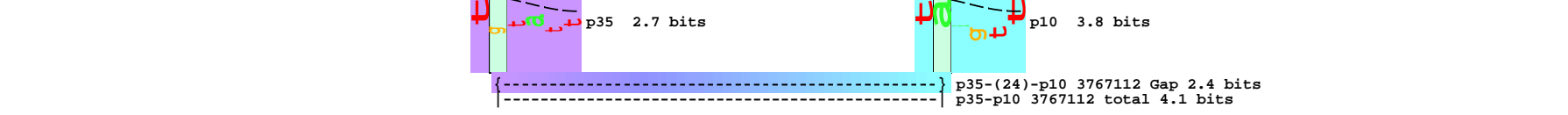


*3767160 * *3767150 * *3767140 * *3767130 * *3767120 * *3767110 * *3767100 * *3767090 *

5' g g a c c a a a a g c g t t t a a a c a a c t a t g t a t t g a a a a t c c a t t g c g a t t a t a a g t t c c t g t a t t a a c t g a c g g t a c t a a t c g t 3'

- gly - pro - lys - ala - phe - lys - gln - leu - cys - ile - glu - asn - pro - leu - arg - leu - - - - -

-fMet - tyr - -fMet - lys - ile - his - cys - asp - tyr - lys - phe - leu - tyr - - - - -

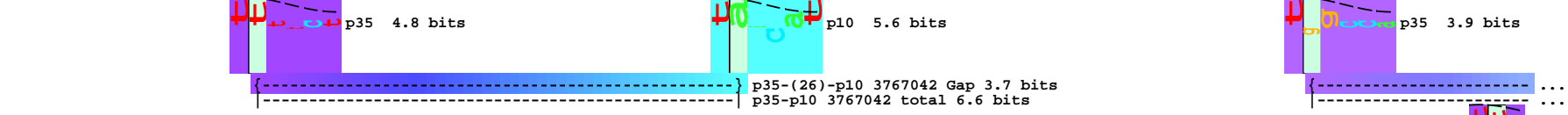


*3767080 * *3767070 * *3767060 * *3767050 * *3767040 * *3767030 * *3767020 * *3767010 * *3767000 *

5' a t g c c g t c a g g t t t c t a t t g c t t g c t c c c g g g t c a t t a a c a t t c c a a c t c c a t a g g c c t t g a g g t a t t g g c c a t c t a t t t t 3'

-fMet - pro - ser - gly - phe - leu - leu - ala - pro - gly - ser - leu - thr - phe - gln - leu - his - arg - pro - - - - -

-fMet - leu - pro - gly - his - - - - -fMet - arg - tyr - trp - pro - ser - ile - tyr - - - - -



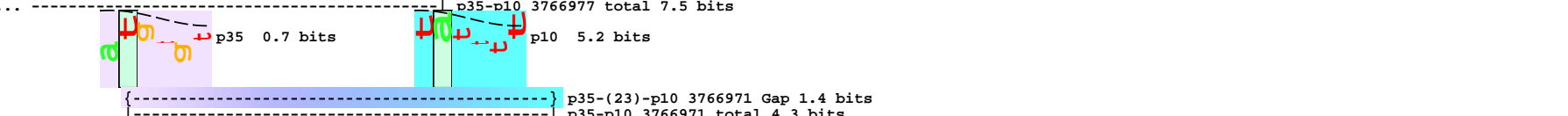
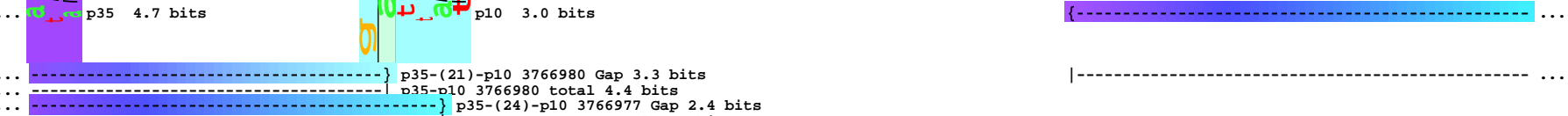
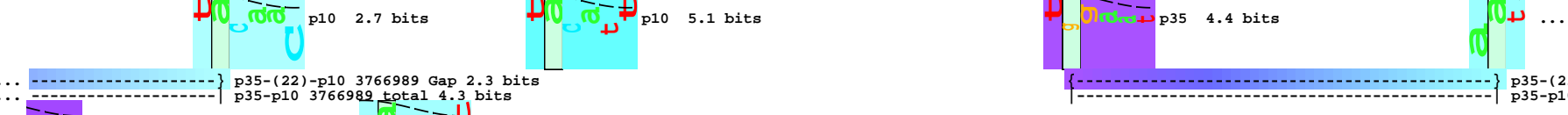
* *3766990 * *3766980 * *3766970 * *3766960 * *3766950 * *3766940 * *3766930 * *3766920 *

5' a t a a a t g t g t a c a a c g g g g a t t a t t t t t a c a t t g c a t a t t a t t a t t a c c a g a a g c g a c t g g a a t a c t a a g c a c a t c a t a a a a a t 3'

-fMet - tyr - asn - gly - asp - tyr - phe - tyr - ile - ala - tyr - tyr - tyr - gln - lys - arg - leu - glu - tyr - - - - -

-fMet - cys - thr - thr - gly - ile - ile - phe - thr - leu - his - ile - ile - thr - arg - ser - asp - trp - asn - thr - lys - his - ile - ile - lys - ile - - - - -

- lys - cys - val - gln - arg - gly - leu - phe - leu - his - cys - ile - leu - leu - pro - glu - ala - thr - gly - ile - leu - ser - thr - ser - - - - -




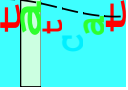
* *3766910 * *3766900 *

5' t a t c a t c a c a t g g t a t a t c t g a a a c 3'



- - - -fMet - val - tyr - leu - lys -
- ile - ile - thr - trp - tyr - ile - ● - -

...  p10 3.3 bits

 p10 6.3 bits

... --} p35-(26)-p10 3766917 Gap 3.7 bits
... --| p35-p10 3766917 total 7.1 bits