

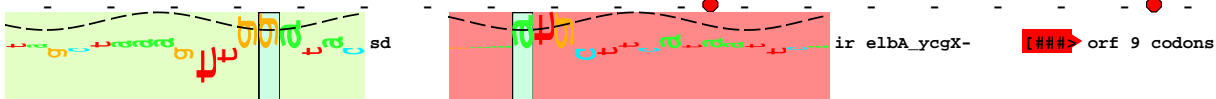
piece 1, NC\_000913, elbA\_ycgX-, config: linear, direction: -, begin: 1211955, end: 1211207

\*1211950 \*1211940 \*1211930 \*1211920 \*1211910 \*1211900 \*1211890 \*1211880 \*

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

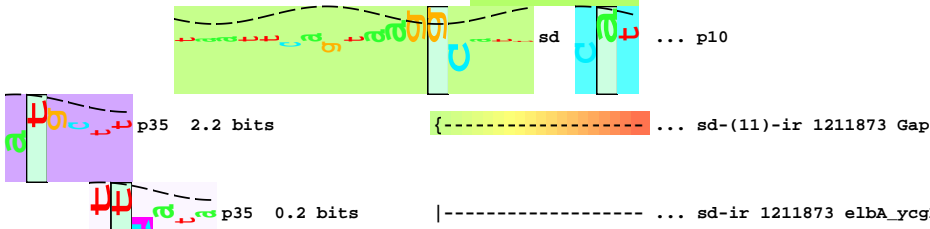
- asp - val - glu - asn - asn - lys - pro - leu - ile - fMet - asp - thr - fMet - leu - his - asn - ser - val - arg - his -

- met - cys - arg - lys -



{-----} sd-(12)-ir 1211904 Gap 4.0 bits ... ir

|-----| sd-ir 1211904 elbA\_ycgX- total 5.4 bits ... sd



p35 2.2 bits ... sd-(11)-ir 1211873 Gap

p35 0.2 bits ... sd-ir 1211873 elbA\_ycgX-

p10 4.5 bits

{-----} p35-(24)-p10 1211879 Gap 2.4 bits

{-----} p35-p10 1211879 total 4.3 bits

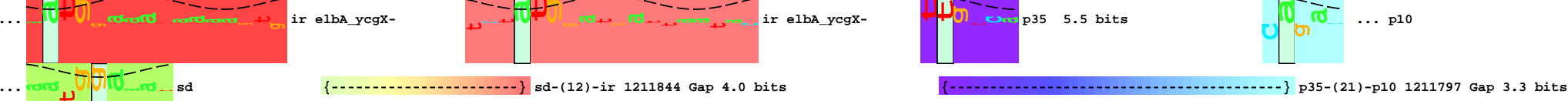
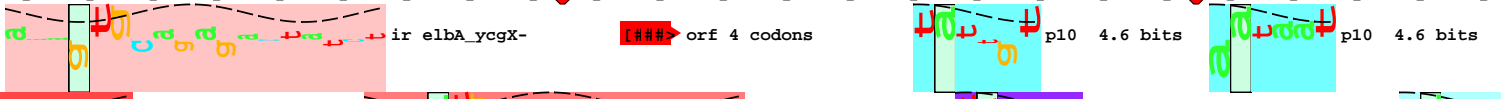
{-----} p35-(23)-p10 1211876 Gap 1.4 bits

{-----} p35-p10 1211876 total 4.3 bits

\*1211870 \*1211860 \*1211850 \*1211840 \*1211830 \*1211820 \*1211810 \*1211800 \*

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

- fMet - glu - ile - lys - val - gln - arg - leu - ser - leu - trp - met - ile - asn - thr - val - phe - leu - leu - ser - pro - ile - asn - asn - his - gln - thr -



... ir elbA\_ycgX- ... ir elbA\_ycgX- ... p35 5.5 bits ... p10

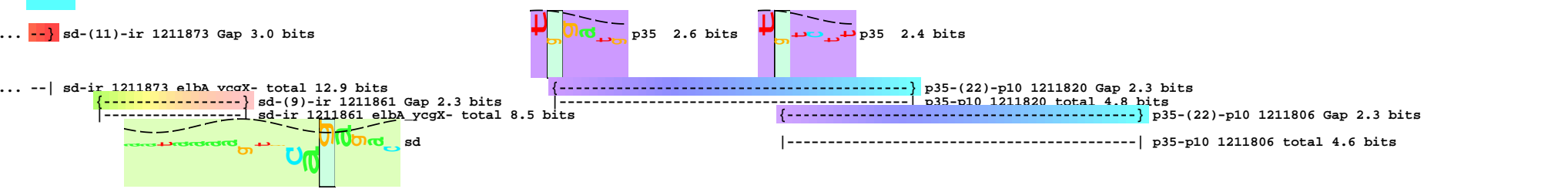
{-----} sd-(12)-ir 1211844 Gap 4.0 bits

{-----} p35-(21)-p10 1211797 Gap 3.3 bits

... p10 5.5 bits

|-----| sd-ir 1211844 elbA\_ycgX- total 6.7 bits

|-----| p35-p10 1211797 total 4.8 bits



... --| sd-ir 1211873 elbA\_ycgX- total 12.9 bits

{-----} sd-(9)-ir 1211861 Gap 2.3 bits

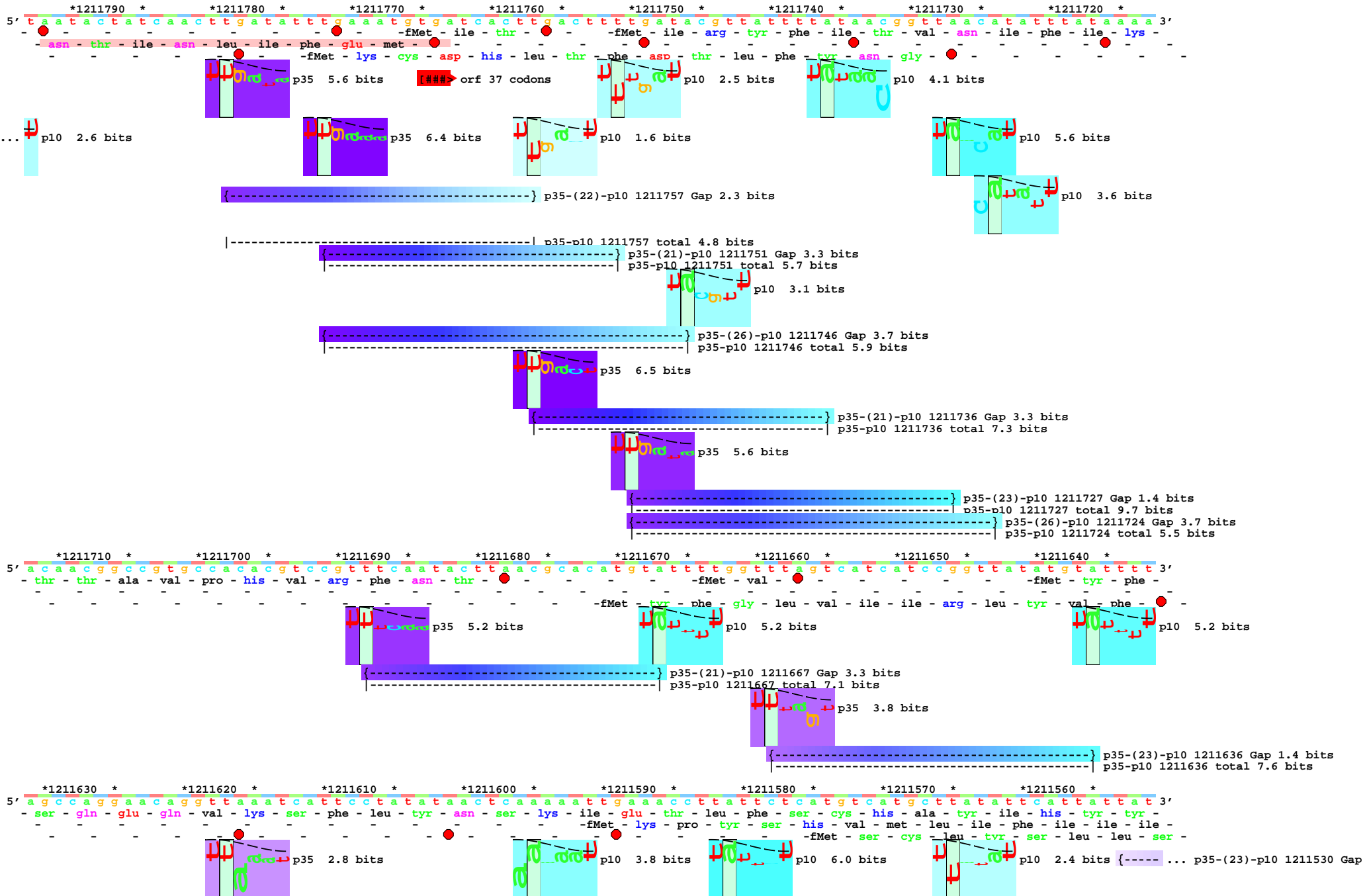
{-----} sd-ir 1211861 elbA\_ycgX- total 8.5 bits

{-----} p35-(22)-p10 1211820 Gap 2.3 bits

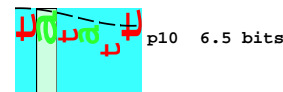
{-----} p35-p10 1211820 total 4.8 bits

{-----} p35-(22)-p10 1211806 Gap 2.3 bits

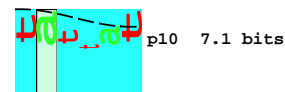
|-----| p35-p10 1211806 total 4.6 bits



{-----} p35-(22)-p10 1211595 Gap 2.3 bits



|-----| p35-p10 1211595 total 4.3 bits



... p35-p10 1211530 total 4.9

{-----} p35-(24)-p10 1211581 Gap 2.4 bits

{-----} p35-p10 1211581 total 4.1 bits

{-----} p35-(25)-p10 1211565 Gap 4.0 bits

{-----} p35-p10 1211565 total 4.8 bits

{-----} p35-(26)-p10 1211564 Gap 3.7 bits

{-----} p35-p10 1211564 total 9.2 bits

{-----} p35 0.2 bits

{-----} p35-(24)-p10 1211555 Gap 2.4 bits

{-----} p35-p10 1211555 total 4.8 bits

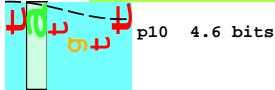
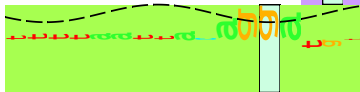
\*1211550 \* \*1211540 \* \*1211530 \* \*1211520 \* \*1211510 \* \*1211500 \* \*1211490 \* \*1211480 \* \*1211470  
5' c g t t a t a t a a a a g g c a a c c a t a a t g t t t a g c a a a a t t g g c a c a a a a g t a g c a t a a a g g c o t a t g t t t t a a t t a c a g g a t g t t c 3'  
- arg - tyr - ile - lys - arg - gln - pro -  
- val - ile -  
- leu - tyr - lys - lys - ala - thr - ile - met - phe - ser - lys - leu - ala - gln - ser - ser - ile - lys - ala - met - phe -

... {-----} p35-(23)-p10 1211530 Gap 1.4 bits

{-----} p10 4.5 bits

[###] orf 15 codons

... p35



{-----} ... sd-(13)-ir 1211463 Gap

... {-----} p35 0.9 bits

{-----} sd-(9)-ir 1211527 Gap 2.3 bits

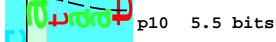
|-----| ... sd-ir 1211463 elbA\_ycgX-

|-----| p35-p10 1211530 total 4.9 bits

|-----| sd-ir 1211527 elbA\_ycgX- total 12.0 bits

{-----} ... sd-(17)-ir 1211459 Gap

{-----} ... sd-ir 1211459 elbA\_ycgX-



{-----} p35-(22)-p10 1211491 Gap 2.3 bits

{-----} ... p35-(23)-p10 1211450 Gap

{-----} p35-(23)-p10 1211503 Gap 1.4 bits

|-----| ... p35-p10 1211450 total 5.3

|-----| p35-p10 1211503 total 4.8 bits



|-----| p35-p10 1211491 total 4.8 bits

{-----} ... p35-(24)-p10 1211462 Gap  
{-----} ... p35-p10 1211462 total 5.9

\*1211460 \* \*1211450 \* \*1211440 \* \*1211430 \* \*1211420 \* \*1211410 \* \*1211400 \* \*1211390  
5' a g t c a t t t g a a t g t a t a a c a t t t a t a g c t a a a c a a a t c t a a a a c g a a g t c a a t a t t t a t t g c t t t c a c a a a a t c t c a t t t 3'  
- ser - his - leu - asn - val -  
- fMet - tyr -  
- fMet - leu - ser - gln - asn - leu - ile - leu -

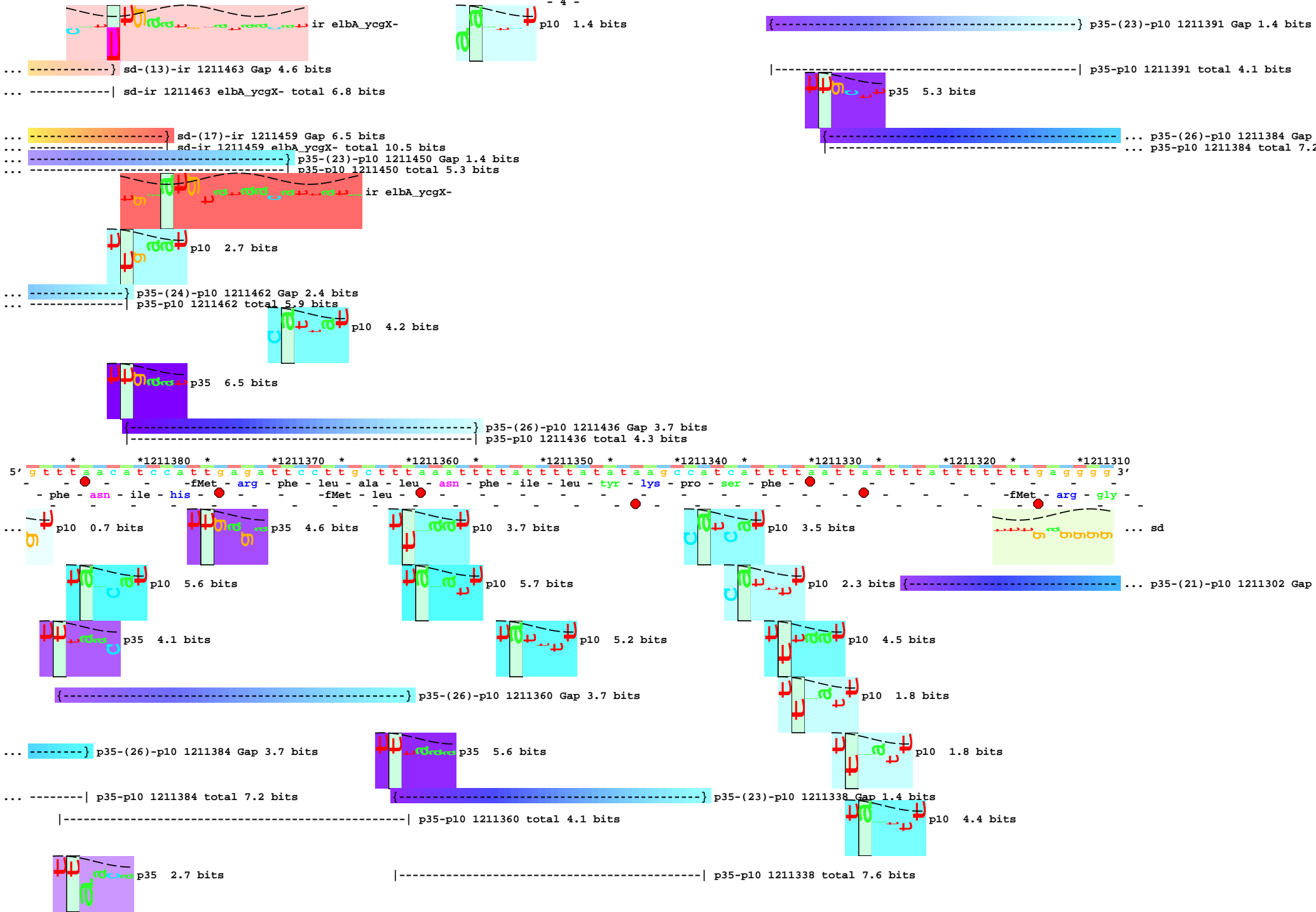
... {-----} p35 2.5 bits

[###] orf 4 codons

[###] orf 10 codons

{-----} p35 4.8 bits

... p10



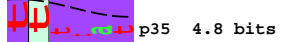
p35-(26)-p10 1211359 Gap 3.7 bits



p35-p10 1211359 total 4.7 bits  
p35-(23)-p10 1211352 Gap 1.4 bits  
p35-p10 1211352 total 8.4 bits

... p35-p10 1211302 total 7.8 bits  
... p35-(24)-p10 1211299 Gap 2.4 bits  
... p35-p10 1211299 total 9.7 bits

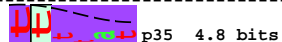
p35-(26)-p10 1211335 Gap 3.7 bits  
p35-p10 1211335 total 4.2 bits



p35-(23)-p10 1211332 Gap 1.4 bits  
p35-p10 1211332 total 7.8 bits



p35-(23)-p10 1211331 Gap 1.4 bits  
p35-p10 1211331 total 5.2 bits



p35-(23)-p10 1211327 Gap 1.4 bits  
p35-p10 1211327 total 5.2 bits



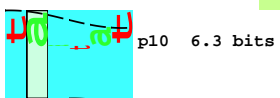
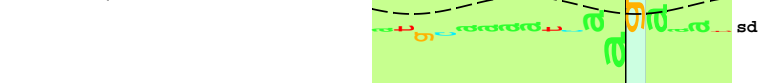
p35-(23)-p10 1211326 Gap 1.4 bits  
p35-p10 1211326 total 7.7 bits

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

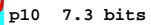
gly fMet - glu - asn - glu - glu - ile - asn - ile - leu - met - asn - his - ile - lys - tyr - arg - gly - ile - arg - his - asn - lys



p35-(21)-p10 1211302 Gap 3.3 bits  
sd-(13)-ir 1211291 Gap 4.6 bits  
sd-ir 1211291 elbA\_ycgX- total 5.8 bits  
sd-(15)-ir 1211264 Gap 6.0 bits



sd-ir 1211264 elbA\_ycgX- total 9.6 bits



p35-p10 1211302 total 7.8 bits  
p35-(24)-p10 1211299 Gap 2.4 bits  
p35-p10 1211299 total 9.7 bits

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

-fMet - lys - trp - ile - val - ile -  
-fMet - asp - ser - asn -

... NC\_000913.elbA

###> orf 23 codons