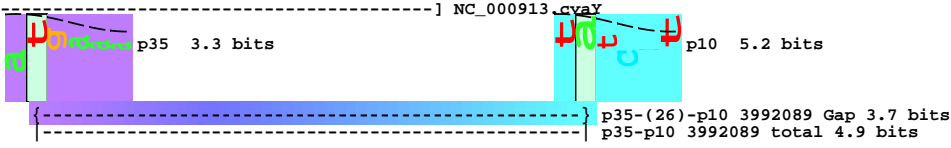
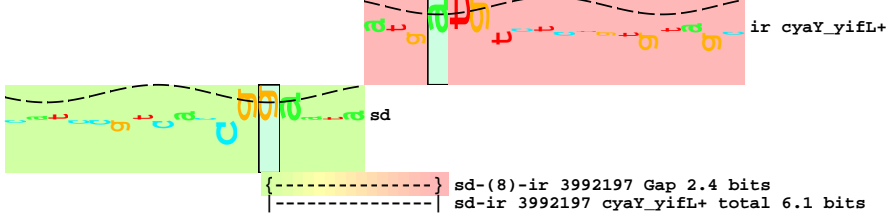


piece 1, NC\_000913, cyaY\_yifL+, config: linear, direction: +, begin: 3992053, end: 3992564

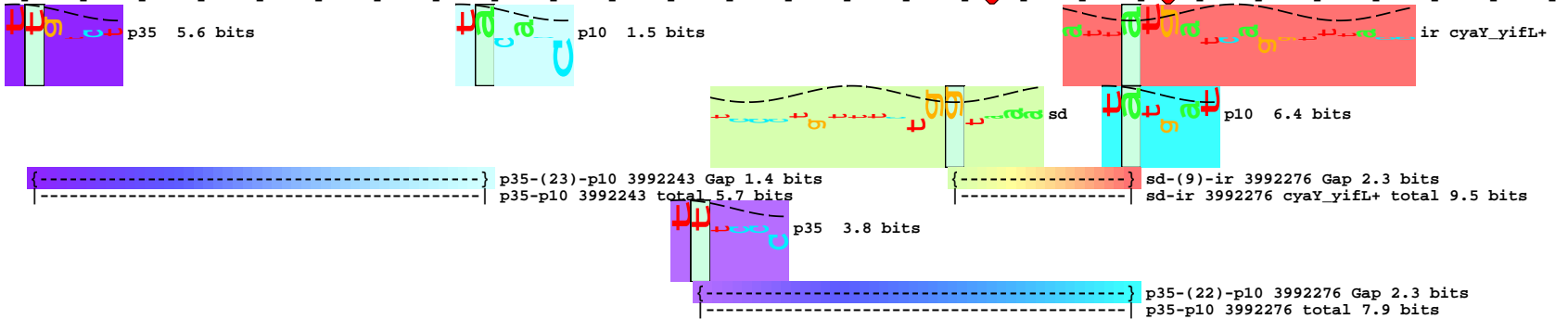
5' **a g c c a g g c g a t g a a a t t c a c t g t c g t t c a t t g t g t a t c c t g t t t t t a a g t g a t g g c g g c a g c a t a g c g g c a t g g g t c a g** 3'  
 - ser - gln - ala - met - lys - phe - thr - val - val - his - cys - cys - ile - leu - phe - leu - ser - asp - gly - gly - ser - ile - ala - ala - trp - gly - gln -  
 - ala - arg - arg -  
 - pro - gly - asp - glu - ile - his - cys - arg - ser - leu - leu - tyr - pro - val - phe - lys - -fMet - met - ala - ala - val - - - -fMet - gly - ser - gly -



5' **g g c t t c a a a g t t t g c a c c t c t g c g g c t g c g t t c g g c a c g a t t c a t c c g t c a c c g g a a t a a t g a t g t c t c t g t g t a g c g a a** 3'  
 - gly - phe - lys - val - cys - thr - ser - ala - ala - ala - phe - arg - his - asp - ser - ser - val - thr - gly - ile - met - met - ser - leu - cys - ser - glu -  
 - leu - gln - ser - leu - his - leu - cys - gly - cys - val - pro - ala - arg - phe - ile - arg - his - arg - asn - asn - asp - val - ser - val -



5' **a g a t t t g t c t c t t c a t t a g g g c g c a g t t a c a c c a c g t c t t t c c c t g t t t t c t g g t a a a c a t t a t g a t c a g g t t t a c c g a g c g** 3'  
 - arg - phe - val - ser - ser - leu - gly - arg - ser - tyr - thr - thr - ser - phe - pro - val - ser - gly - lys - his - tyr - asp - gln - val - tyr - arg - ala -  
 -fMet - ser - leu - his - -fMet - ile - arg - phe - thr - glu - arg -



5' **a g c a t c c t c a c g c t g a c g g a a c t a a a a a g a c a a c a a a c c a c a t t g c g a t a g t g c a t a a a g c c a t c c t g g c g c g a g g** 3'  
 - ser - ile - leu - thr - leu - thr - glu - leu - lys - lys - thr - thr - asn - lys - pro - his - cys - asp - ser - ala -  
 - ala - ser - ser - arg - -fMet - arg - -fMet - his - lys - ala - ile - leu - ala - arg - gly -  
 -fMet -

### orf 12 codons      ### orf 54 codons

5' **t g c c g a t c a c g a a a c t a c c a g c a a a a c a t a a a t c c c c a c g a g t a a g c g t t a t a c t c g c a g c a t t t t c c t c a c t t t t c a g a c t** 3'  
 - ala - asp - his - glu - thr - thr - ser - lys - thr -  
 - pro - ile - thr - lys - leu - pro - ala - lys - his - lys - ser - pro - arg - val - ser - val - ile - leu - ala - ala - phe - pro - his - phe - ser - asp - phe -

p35 4.3 bits  
 ... p35-(23)-p10 3992473 Gap  
 ... p35-p10 3992473 total 4.3

5' **t c a t a a a g a g t c g c t a a a c g c t t g c t t t t a c g t t c t t c c t g c g a t g a t a g a a a g c a g a a a g c g a t g a a c t t t t a c a g g c a a** 3'  
 -fMet - leu - leu - arg - leu - leu - leu - arg -

