

piece 1, NC\_000913, ychE\_oppA-, config: linear, direction: -, begin: 1299235, end: 1298449

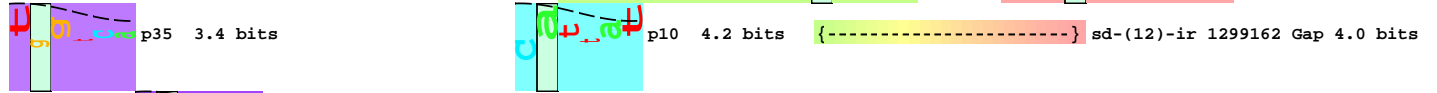
\*1299230 \*1299220 \*1299210 \*1299200 \*1299190 \*1299180 \*1299170 \*1299160 \*

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

- tyr - leu - leu - leu - val - met - leu - val - ile - val - phe - trp - thr - pro - ser - leu - ile - thr - gly - ile - asn - gln - his - val - fMet - cys - asn -

- leu - asn - phe - ser - trp - fMet - phe - phe - gly - leu - pro - his - tyr - asn - tyr - trp - tyr -

... ] NC\_000913.oppA

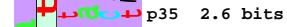


\*1299150 \*1299140 \*1299130 \*1299120 \*1299110 \*1299100 \*1299090 \*1299080 \*

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

- pro - gly - leu - gly - pro - cys - thr - gly - ser - glu - thr - phe - cys - cys - gln - val - thr - leu - ser - leu - arg - ile - thr - ile - thr - asp - phe -

... ir ychE\_oppA-

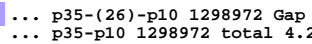
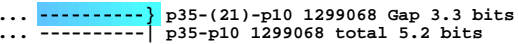
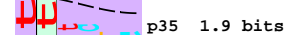
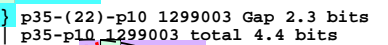
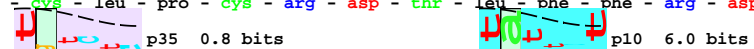
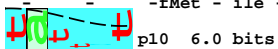


\*1299070 \*1299060 \*1299050 \*1299040 \*1299030 \*1299020 \*1299010 \*1299000 \*

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

- ile - tyr - ser - gly - asp - ser - asp - asp - his - leu - met - ser - ile - arg - thr - val - ser - pro - leu - ser - arg - his - ile - ile - leu - ser - arg -

- fMet - ile - gln - thr - ile - thr - leu - cys - arg - phe - val - leu - cys - leu - pro - cys - arg - asp - thr - leu - phe - phe - arg - asp -

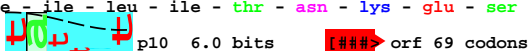


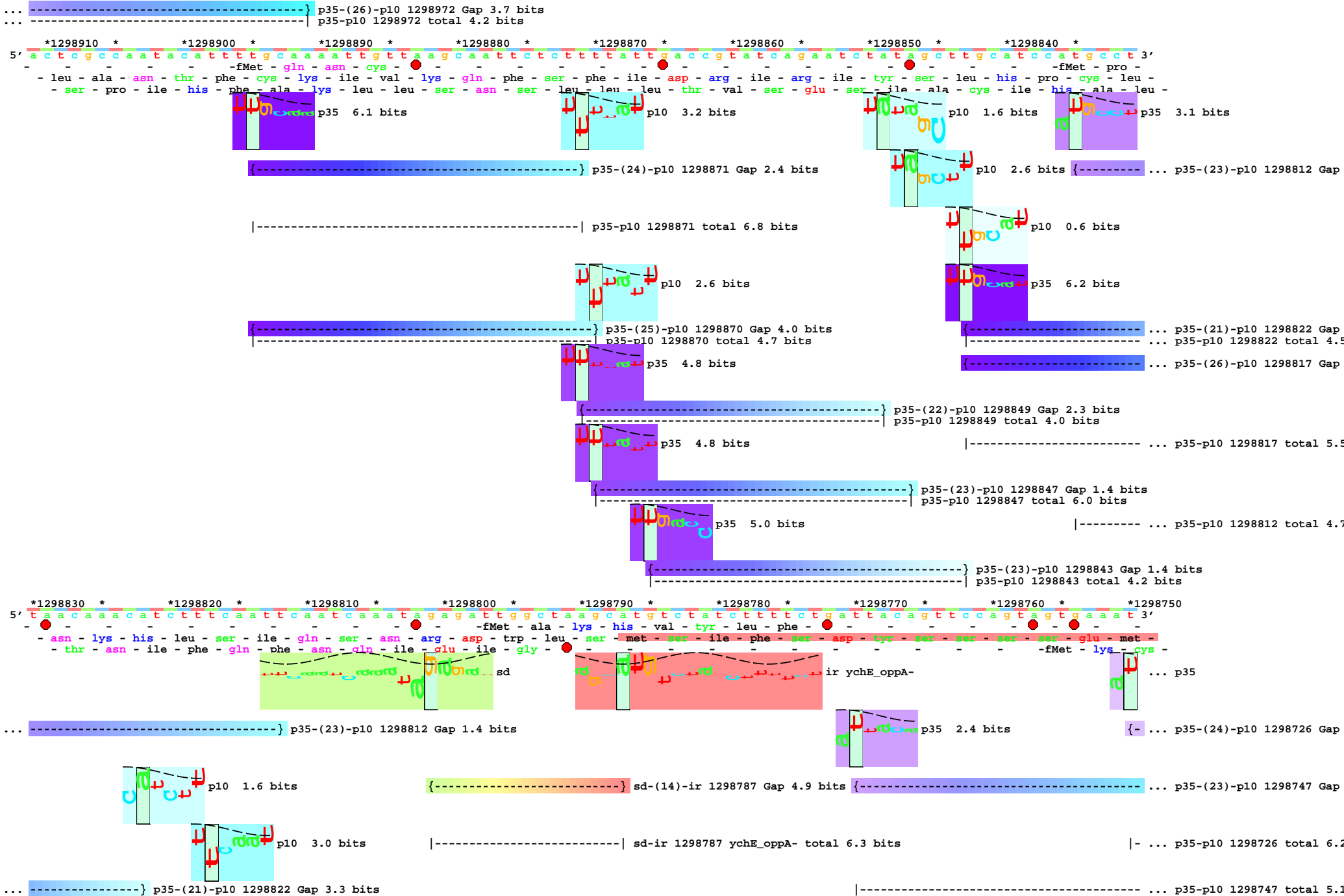
\*1298990 \*1298980 \*1298970 \*1298960 \*1298950 \*1298940 \*1298930 \*1298920 \*

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

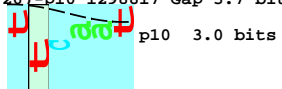
- arg - ser - leu - ile - val - asn - tyr - ser - his - tyr - gln - fMet - pro - gly - lys - tyr - gln - met - arg - phe - leu -

- ala - leu - fMet - leu - ile - ile - leu - ile - thr - asn - lys - glu - ser - ser - gly - gly - cys - pro - glu - ser - thr - lys - cys - gly - ser - tyr -





... -----| p35-p10 1298822 total 4.5 bits  
... -----} p35-(26)-p10 1298817 Gap 3.7 bits



... -----| p35-p10 1298817 total 5.5 bits

... -----| p35-p10 1298812 total 4.7 bits

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

- his - asp - asp - leu - thr - ile - asp - tyr - tyr - leu - ala - leu - ser - ser - thr - lys - gly - ser - gly - ile - asp - asp - ile - ile - ser - ile - ile -  
- thr - ile - ile - - -fMet - ile - ile - ile - -fMet - glu - leu - ile - ile - ser - phe - glu - leu - phe -

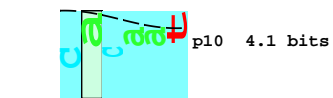
... ----- p35 1.6 bits ----- p10 7.1 bits ----- p35 5.3 bits ----- p10 0.7 bits ----- p10 3.3 bits

... -----} p35-(24)-p10 1298726 Gap 2.4 bits

... -----} p35-(23)-p10 1298747 Gap 1.4 bits

... -----| p35-p10 1298726 total 6.2 bits

... -----| p35-p10 1298747 total 5.1 bits



... -----| p35-p10 1298690 total 4.6 bits ----- p35 4.4 bits ----- p35 5.2 bits ----- p35

-----} p35-(26)-p10 1298687 Gap 3.7 bits  
-----| p35-p10 1298687 total 6.2 bits  
-----} p35-(21)-p10 1298673 Gap 3.3 bits  
-----} p35-p10 1298673 total 4.4 bits  
-----} p35-(24)-p10 1298670 Gap 2.4 bits  
-----} p35-p10 1298670 total 8.0 bits  
-----} p35-(23)-p10 1298654 Gap  
-----} p35-p10 1298654 total 5.5  
-----} p35-(26)-p10 1298651 Gap  
-----} p35-p10 1298651 total 4.5  
-----} p35-p10 1298648 total 5.7

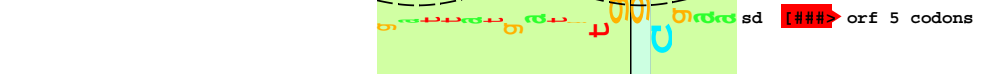
5' t c t t c a g c a a g c c c a g g a t t a t g a t g t g g c g a a a a t a a c a t g a t g g t g a g g a g a a g c a g t t a a g g a a a t c c t t a t a a c t a a 3'

- leu - gin - gin - ala - gin - asp - tyr - asp - val - ala - lys - ile - thr - -fMet - met - val - arg - arg - ser - ser - -  
- phe - ser - lys - pro - arg - ile - met - met - trp - arg - lys - -

sd [###] orf 54 codons [###] orf 8 codons

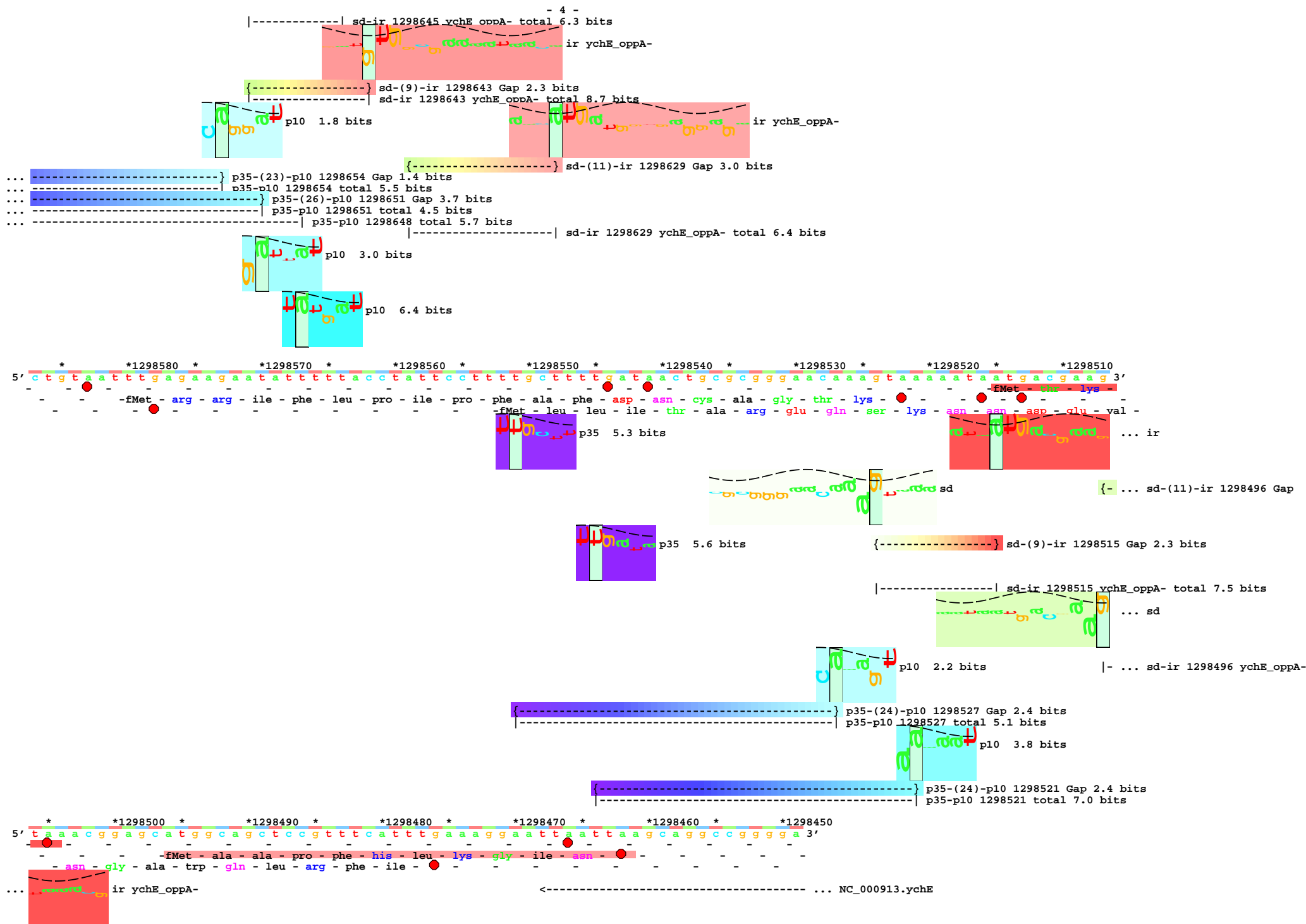
... ----- p10 6.0 bits ----- ir ychE\_oppA-

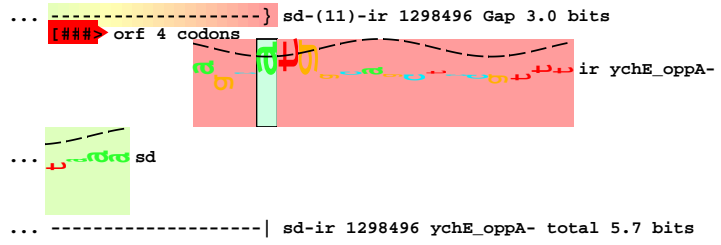
... -----} p35-(24)-p10 1298648 Gap 2.4 bits



... -----} p35-(7)-ir 1298645 Gap 3.7 bits

... ----- p35 1.7 bits





orf 12 codons