

piece 1, NC_000913, astC_xthA+, config: linear, direction: +, begin: 1829977, end: 1830471

*1829980 * *1829990 * *1830000 * *1830010 * *1830020 * *1830030 * *1830040 * *1830050 *

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

- lys - val - phe - thr - arg - asn - trp - leu - arg - his - ser - asp - leu - tyr - ser - lys - fMet - leu - ile - ile - ser - asn - fMet -

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

- ser - phe - his - ala - fMet - ala - glu - thr - fMet -

NC_000913.astC

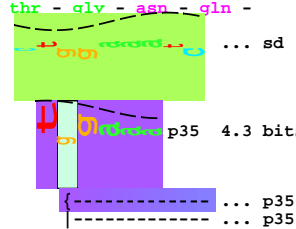
*1830060 * *1830070 * *1830080 * *1830090 * *1830100 * *1830110 * *1830120 * *1830130 *

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

- val - cys - ala - val - asn - val - asp - cys - arg - val - arg - ala - ser - gln - fMet - pro - ala - ser - asp - lys - ser - ala - fMet -

- phe - ala - leu - fMet - fMet - pro - ala - ser - asp - lys - ser - ala - fMet -

- fMet - arg - cys - lys - cys - arg - leu - gln - gly - ser - cys - gln - pro - val - ile - lys - val - his - lys - arg - arg - arg - leu - thr - gly - asn - gln -

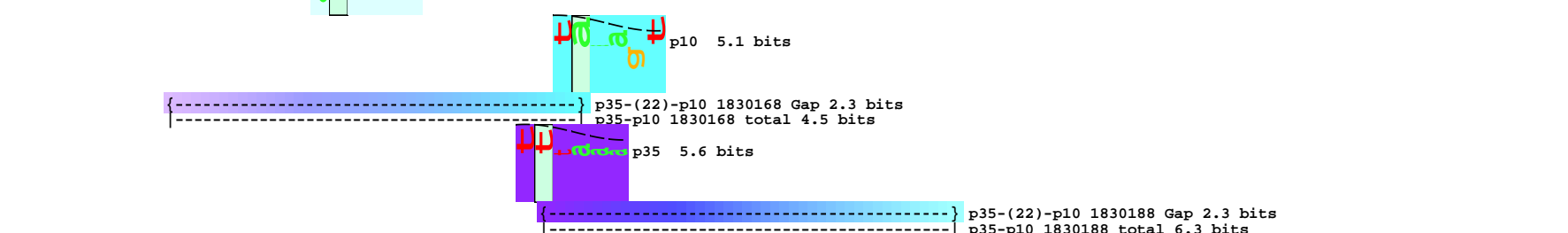
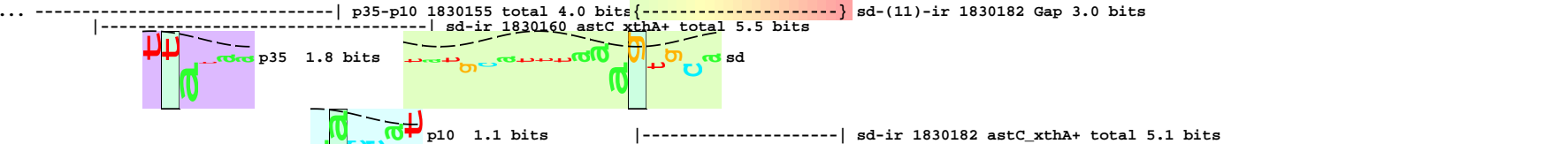
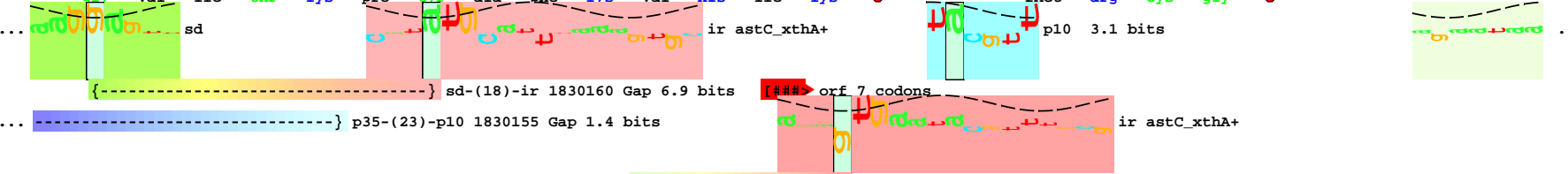


*1830140 * *1830150 * *1830160 * *1830170 * *1830180 * *1830190 * *1830200 * *1830210 *

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

- fMet - his - leu - lys - cys - ile - fMet - asn - thr - phe - ala - met - trp - val - asn - lys - lys - asn - lys -

- gly - val - ile - thr - lys - pro - tyr - ala - phe - lys - val - his - ile - lys - fMet - arg - cys - gly - fMet -

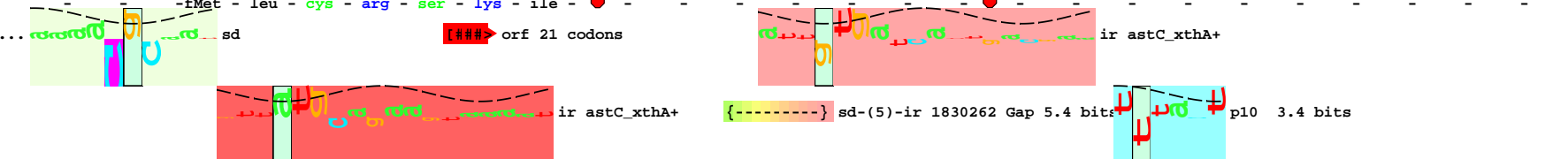


*1830220 * *1830230 * *1830240 * *1830250 * *1830260 * *1830270 * *1830280 * *1830290 * *1830300 *

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

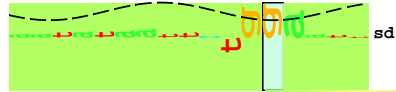
- lys - arg - asn - val - met - gln - lys - fMet - ile - ile - asp - glu - ile - tyr - trp - lys - leu - leu - arg - his -

- fMet - leu - cys - arg - ser - lys - ile - fMet - fMet - thr - lys - phe - thr - gly - asn - tyr - cys - ala - ile -

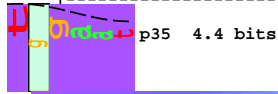


sd-(8)-ir 1830233 Gap 2.4 bits
sd-ir 1830233 astC_xthA+ total 7.9 bits

sd-ir 1830262 astC_xthA+ total 7.3 bits
ir astC_xthA+



sd-(12)-ir 1830269 Gap 4.0 bits
sd-ir 1830269 astC_xthA+ total 6.9 bits



p35-(23)-p10 1830279 Gap 1.4 bits
p35-p10 1830279 total 6.4 bits

5' t c t g a c g c a g c g c g c a c c a a a a g c g g g c a t t t t t t g c g c c a t c g t t g a c a t c a t t a a c a a c c a t c g a t c a a a t c a c t t a a c 3'
- ser - asp - ala - ala - arg - thr - lys - ser - gly - his - phe - leu - arg - his - arg - [###] - val - asp - ile - ile - asn - asn - his - arg - ser - asn - his - leu - thr -
- leu - thr - gin - arg - ala - pro - lys - ala - gly - ile - phe - cys - ala - ile - fMet - thr - ser - leu - thr - thr - ile - asp - gln - ile - thr -

[###] orf 29 codons

5' a a c a g g c g g t a a g c a a c g c g a a a t t c t g c t a c c a t c c a c g c a c t c t t t a t c t g a a t a a a t g g c a g c g a c t a t g a a a t t t g t 3'
- thr - gly - gly - lys - gln - arg - glu - ile - leu - leu - pro - ser - thr - his - ser - leu - ser - glu - [###] - fMet - ala - ala - thr - met - lys - phe - val -
- fMet - ser -

[###] orf 57 codons

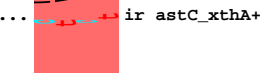
... NC_000913.xthA



sd-(9)-ir 1830452 Gap 2.3 bits
sd-ir 1830452 astC_xthA+ total 9.0 bits

5' c t c t t t t a a 3'
- ser - phe -
- leu - leu -

... NC_000913.xthA



ir astC_xthA+