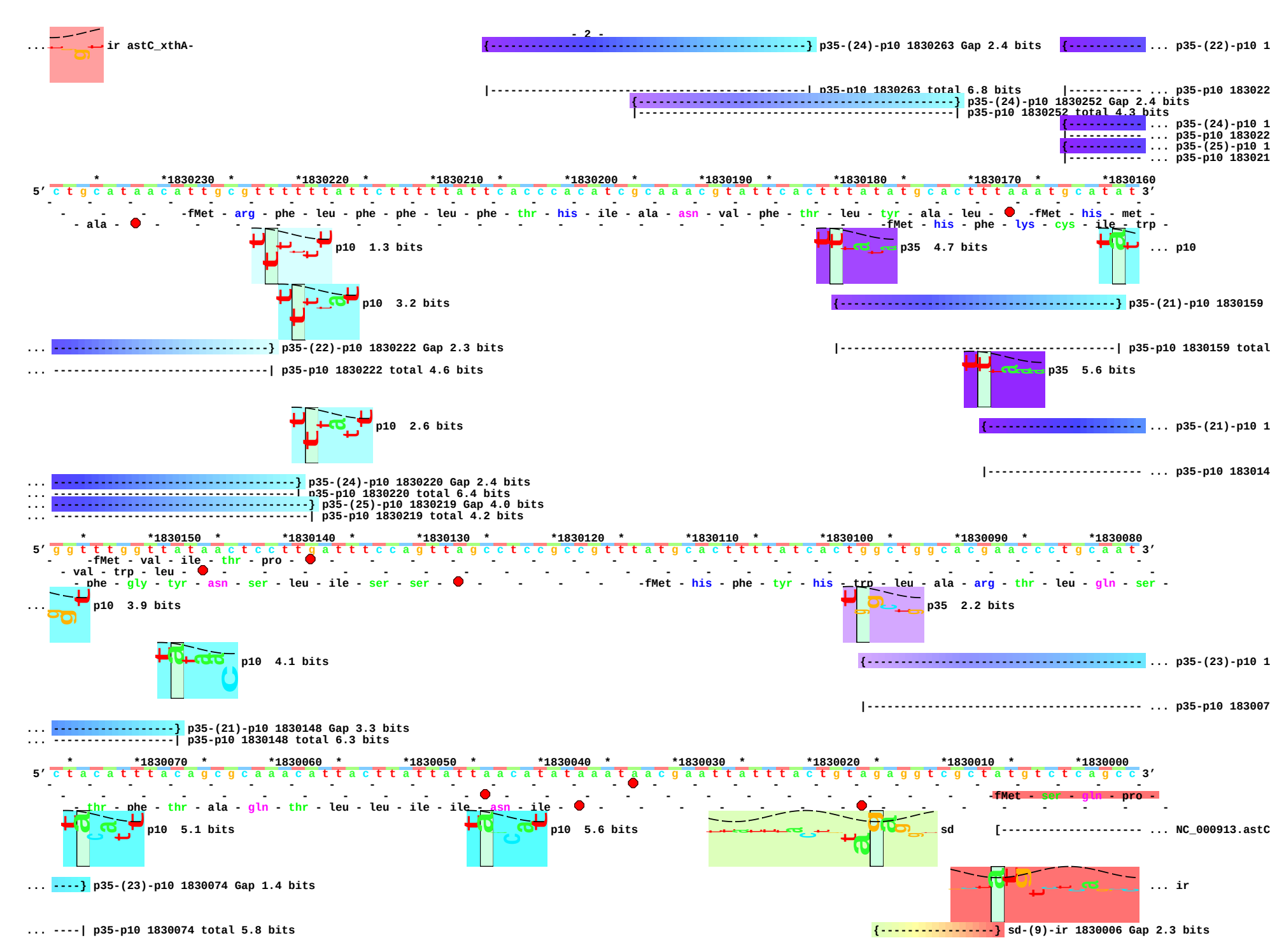
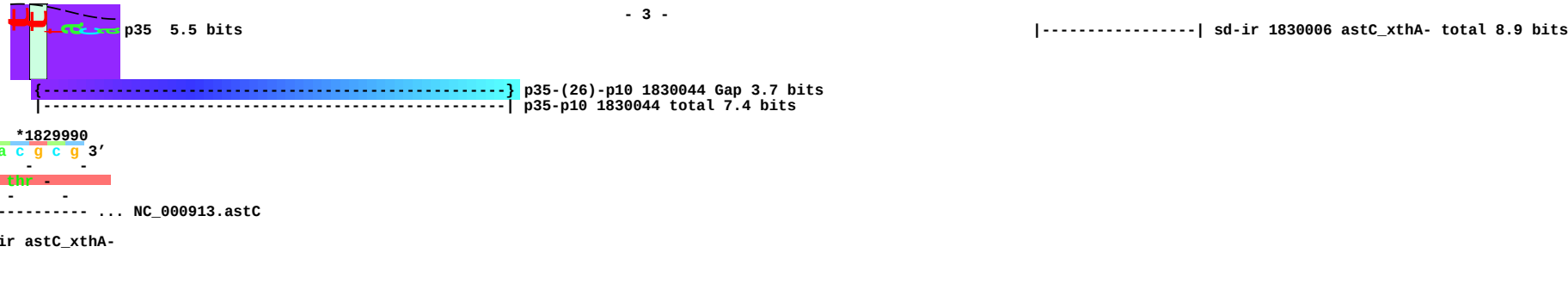
piece 1, NC_000913, astC_xthA-, config: linear, direction: -, begin: 1830481, end: 1829987

*1830480 *1830470 *1830460 *1830450 *1830440 *1830430 *1830420 *1830410 *
5′ g c g t t g a t a t t a a a g a g a c a a t t t c a t a g t c g c t g c c a t t t a t t c a g a t a a a g a g t g c g t g g a t g g t a g c a g a a t t t c 3′
- ala - val - asp - ile - lys - arg - asp - lys - phe - his - ser - arg - cys - his - leu - phe - arg - - -fMet - arg - gly - trp - - - - - -
- pro - leu - ile - leu - lys - glu - thr - asn - phe - ile - val - ala - ala - ile - tyr - ser - asp - lys - glu - cys - val - asp - gly - ser - arg - ile - ser -
- arg -fMet - val - ala - glu - phe - arg -
... ----------] NC_000913.xthA
sd
ir astC_xthA-
p35 5.6 bits
p10 3.0 bits
{----------} sd-(10)-ir 1830416 Gap 2.7 bits
{----------} p35-(23)-p10 1830453 Gap 1.4 bits
|----------| p35-p10 1830453 total 7.1 bits
|----------| sd-ir 1830416 astC_xthA- total 6.7 bits
*1830400 *1830390 *1830380 *1830370 *1830360 *1830350 *1830340 *1830330 *1830320
5′ g c g t t g c t t a c c g c c t g t t g t t a a g t g a t t t g a t c g a t g g t t g t t a a t g a t g t c a a c g a t g g c g c a a a a a t g c c c g c t t t 3′
- -fMet - leu - thr - ala - cys - cys - -fMet - ile - - -fMet - val - val - asn - asp - val - asn - asp - gly - ala - lys - asn - ala - arg - phe -
- arg - cys - leu - pro - pro - val - val - lys - - - - - -fMet - leu - met - met - ser - thr - met - ala - gln - lys - met - pro - ala - phe -
- val - ala - tyr - arg - leu - leu - leu - ser - asp - leu - ile - asp - gly - cys - - - - - - - - - - - - - - -fMet -
[###> orf 21 codons
ir astC_xthA-
sd
ir astC_xthA-
{----------} sd-(10)-ir 1830351 Gap 2.7 bits
... ir
|----------| sd-ir 1830351 astC_xthA- total 5.7 bits
sd
{----------} sd-(9)-ir 1830330 Gap 2.3 bits
{----------} sd-(10)-ir 1830342 Gap 2.7 bits
|----------| sd-ir 1830342 astC_xthA- total 7.0 bits
sd
p35 4.7 bits
|----------| sd-ir 1830330 astC_xthA- total 5.3 bits
p10 3.8 bits
{----------} p35-(26)-p10 1830333 Gap 3.7 bits
|----------| p35-p10 1830333 total 4.8 bits
* *1830310 * *1830300 * *1830290 * *1830280 * *1830270 * *1830260 * *1830250 * *1830240
5′ t g g t g c g c g c t g c g t c a g a a t g g c g c a g t a a t t t c c a g t a a a t t t c g t c a a t g a t c a c a a t t c c a g a a t t a t a t t t t a c t t 3′
- trp - cys - ala - leu - arg - gln - asn - gly - ala - val - ile - ser - ser - lys - phe - arg - gln - - - - - - - - - - - - - -
- gly - ala - arg - cys - val - arg - met - ala - gln - - - - - - - - - - - - - - - - - - -


- 2 -
ir astC_xthA-
p35-(24)-p10 1830263 Gap 2.4 bits
... p35-(22)-p10 1
p35-p10 1830263 total 6.8 bits
... p35-p10 183022
p35-(24)-p10 1830252 Gap 2.4 bits
p35-p10 1830252 total 4.3 bits
... p35-(24)-p10 1
... p35-p10 183022
... p35-(25)-p10 1
... p35-p10 183021
*1830230 *1830220 *1830210 *1830200 *1830190 *1830180 *1830170 *1830160
5′ c t g c a t a a c a t t g c g t t t t t t a t t c t t t t t a t t c a c c c a c a t c g c a a a c g t a t t c a c t t t a t a t g c a c t t t a a a t g c a t a 3′
-fMet - arg - phe - leu - phe - phe - leu - phe - thr - his - ile - ala - asn - val - phe - thr - leu - tyr - ala - leu - -fMet - his - met -
- ala -
-fMet - his - phe - lys - cys - ile - trp -
p10 1.3 bits
p35 4.7 bits
... p10
p10 3.2 bits
p35-(21)-p10 1830159
... p35-(22)-p10 1830222 Gap 2.3 bits
... p35-p10 1830222 total 4.6 bits
p35-p10 1830159 total
p35 5.6 bits
p10 2.6 bits
... p35-(21)-p10 1
... p35-p10 183014
... p35-(24)-p10 1830220 Gap 2.4 bits
... p35-p10 1830220 total 6.4 bits
... p35-(25)-p10 1830219 Gap 4.0 bits
... p35-p10 1830219 total 4.2 bits
*1830150 *1830140 *1830130 *1830120 *1830110 *1830100 *1830090 *1830080
5′ g g t t t g g t t a t a a c t c c t t g a t t t c c a g t t a g c c t c c g c c g t t t a t g c a c t t t t a t c a c t g g c t g g c a c g a a c c c t g c a a t 3′
-fMet - val - ile - thr - pro -
- val - trp - leu -
- phe - gly - tyr - asn - ser - leu - ile - ser - ser -
-fMet - his - phe - tyr - his - trp - leu - ala - arg - thr - leu - gln - ser -
... p10 3.9 bits
p35 2.2 bits
p10 4.1 bits
... p35-(23)-p10 1
... p35-p10 183007
... p35-(21)-p10 1830148 Gap 3.3 bits
... p35-p10 1830148 total 6.3 bits
*1830070 *1830060 *1830050 *1830040 *1830030 *1830020 *1830010 *1830000
5′ c t a c a t t t a c a g c g c a a a c a t t a c t t a t t a t t a a c a t a t a a a t a a c g a a t t a t t t a c t g t a g a g g t c g c t a t g t c t c a g c c 3′
-fMet - ser - gln - pro -
- thr - phe - thr - ala - gln - thr - leu - leu - ile - ile - asn - ile -
p10 5.1 bits
p10 5.6 bits
sd
... NC_000913.astC
... p35-(23)-p10 1830074 Gap 1.4 bits
... ir
... p35-p10 1830074 total 5.8 bits
sd-(9)-ir 1830006 Gap 2.3 bits


p35 5.5 bits
|----------------| sd-ir 1830006 astC_xthA- total 8.9 bits
{----------} p35-(26)-p10 1830044 Gap 3.7 bits
|----------| p35-p10 1830044 total 7.4 bits
*
*1829990
5’ a a t t a c g c g 3’
- ile - thr -
... ... NC_000913.astC
... ir astC_xthA-