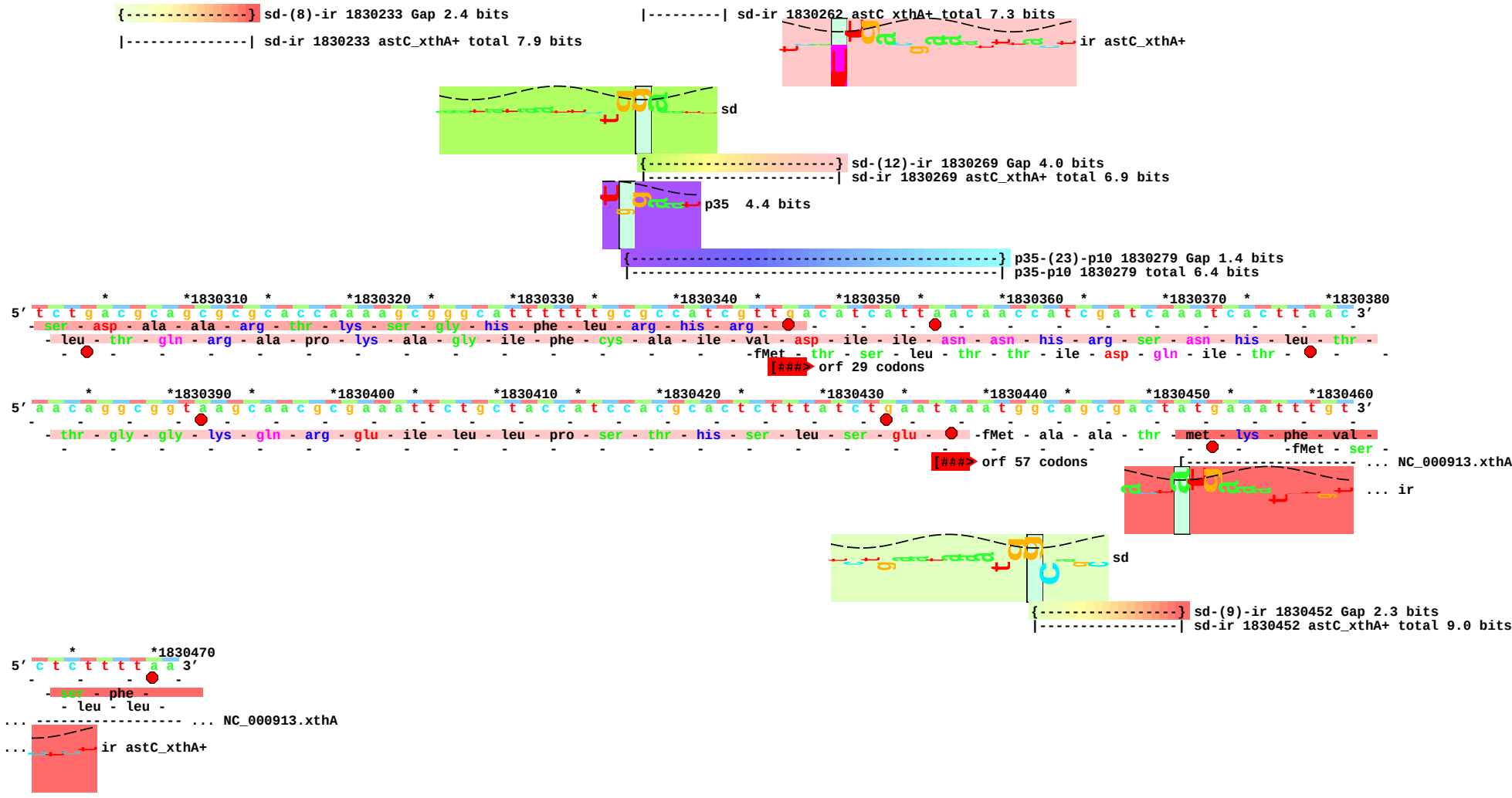
piece 1, NC_000913, astC_xthA+, config: linear, direction: +, begin: 1829977, end: 1830471
*1829980 *1829990 *1830000 *1830010 *1830020 *1830030 *1830040 *1830050
5′ a a a g t t t t c a c g c g t a a t t g g c t g a g a c a t a g c g a c c t c t a c a g t a a a t a a t t c g t t a t t t a t a g t t a 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 -
- lys - phe - ser - arg - val - ile - gly - fMet -
- ser - phe - his - ala - fMet - ala - glu - thr -
...] 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 -
- phe - ala - leu - fMet -
fMet - pro - ala - ser - asp - lys - ser - ala -
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 -
... sd
p35 4.3 bits
{ ... p35-(23)-p10 18301
| ... p35-p10 1830155 to
*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 a g a a t a a 3′
fMet - his - leu - lys - cys - ile -
fMet - gly - glu -
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 -
... sd
ir astC_xthA+
p10 3.1 bits
... sd
{ sd-(18)-ir 1830160 Gap 6.9 bits
[###> orf 7 codons
... } p35-(23)-p10 1830155 Gap 1.4 bits
ir astC_xthA+
... | p35-p10 1830155 total 4.0 bits{ sd-(11)-ir 1830182 Gap 3.0 bits
| sd-ir 1830160 astC_xthA+ total 5.5 bits
p35 1.8 bits
sd
p10 1.1 bits
| sd-ir 1830182 astC_xthA+ total 5.1 bits
p10 5.1 bits
{ p35-(22)-p10 1830168 Gap 2.3 bits
| p35-p10 1830168 total 4.5 bits
p35 5.6 bits
{ p35-(22)-p10 1830188 Gap 2.3 bits
| p35-p10 1830188 total 6.3 bits
*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′
fMet - ile - ile - asp - glu - ile - tyr - trp - lys - leu - leu - arg - his -
- lys - arg - asn - val - met - gln - lys -
fMet - fMet - thr - lys - phe - thr - gly - asn - tyr - cys - ala - ile -
fMet - leu - cys - arg - ser - lys - ile -
... sd
[###> orf 21 codons
ir astC_xthA+
ir astC_xthA+
{ sd-(5)-ir 1830262 Gap 5.4 bits
p10 3.4 bits


{----------} 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
{----------} sd-(12)-ir 1830269 Gap 4.0 bits
|----------| sd-ir 1830269 astC_xthA+ total 6.9 bits
p35 4.4 bits
{----------} p35-(23)-p10 1830279 Gap 1.4 bits
|----------| p35-p10 1830279 total 6.4 bits
* *1830310 * *1830320 * *1830330 * *1830340 * *1830350 * *1830360 * *1830370 * *1830380
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 -
- leu - thr - gln - arg - ala - pro - lys - ala - gly - ile - phe - cys - ala - ile - val - asp - ile - ile - asn - asn - his - arg - ser - asn - his - leu - thr -
-fMet - thr - ser - leu - thr - thr - ile - asp - gln - ile - thr -
[###> orf 29 codons
* *1830390 * *1830400 * *1830410 * *1830420 * *1830430 * *1830440 * *1830450 * *1830460
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
... ir
sd
{----------} sd-(9)-ir 1830452 Gap 2.3 bits
|----------| sd-ir 1830452 astC_xthA+ total 9.0 bits
* *1830470
5′ c t c t t t t a a 3′
- ser - phe -
- leu - leu -
... ---------- ... NC_000913.xthA
... ir astC_xthA+