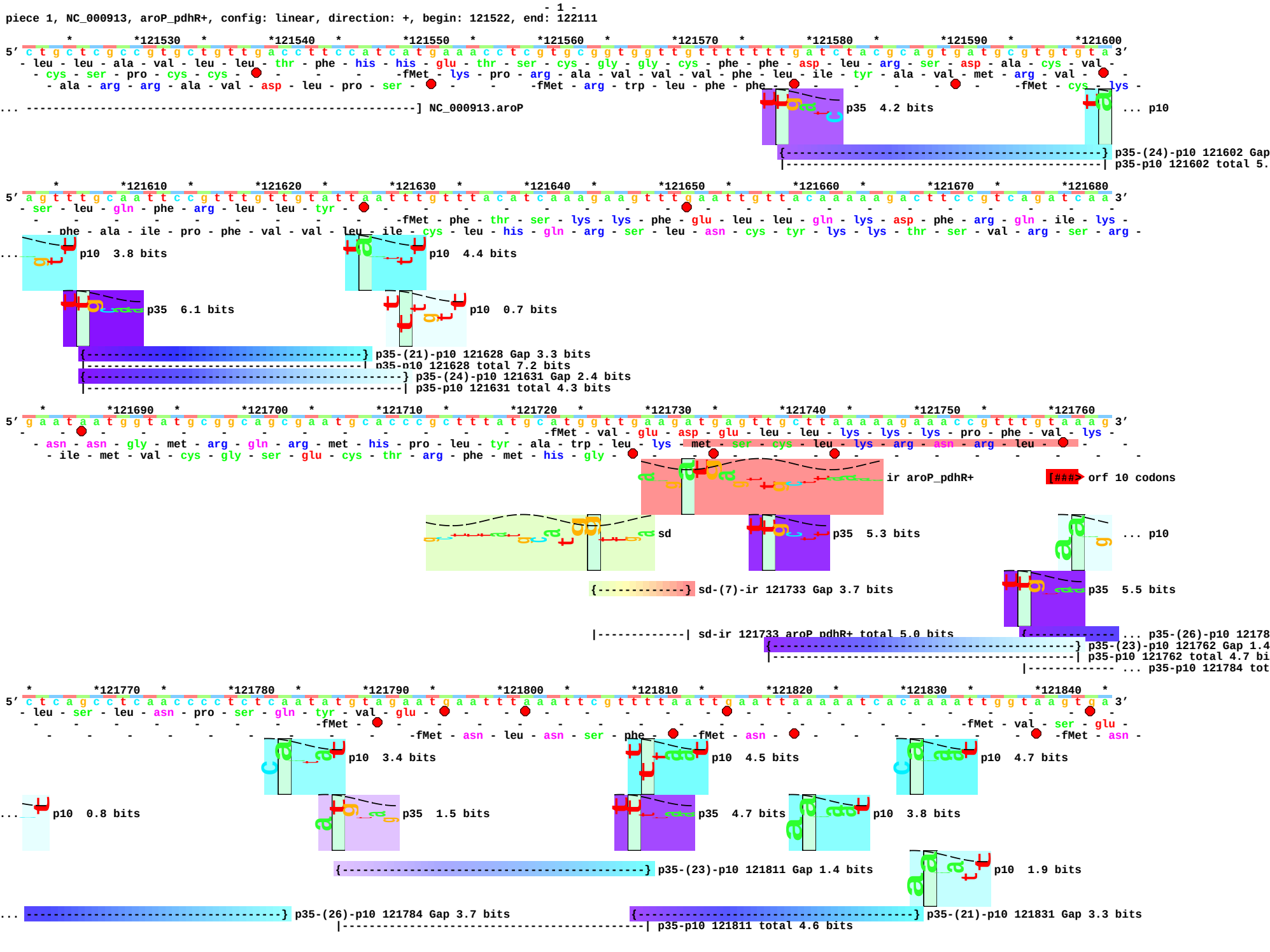
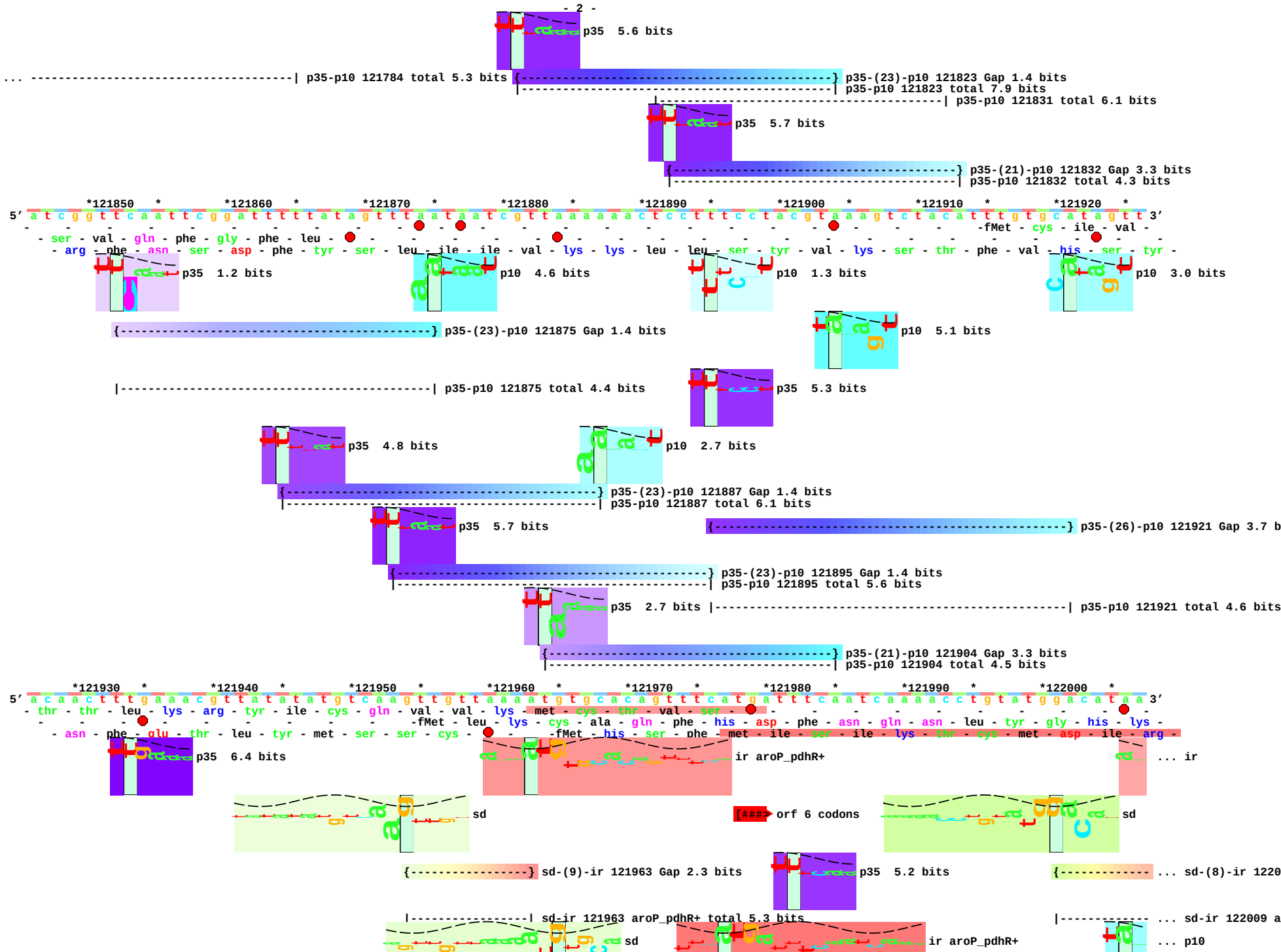
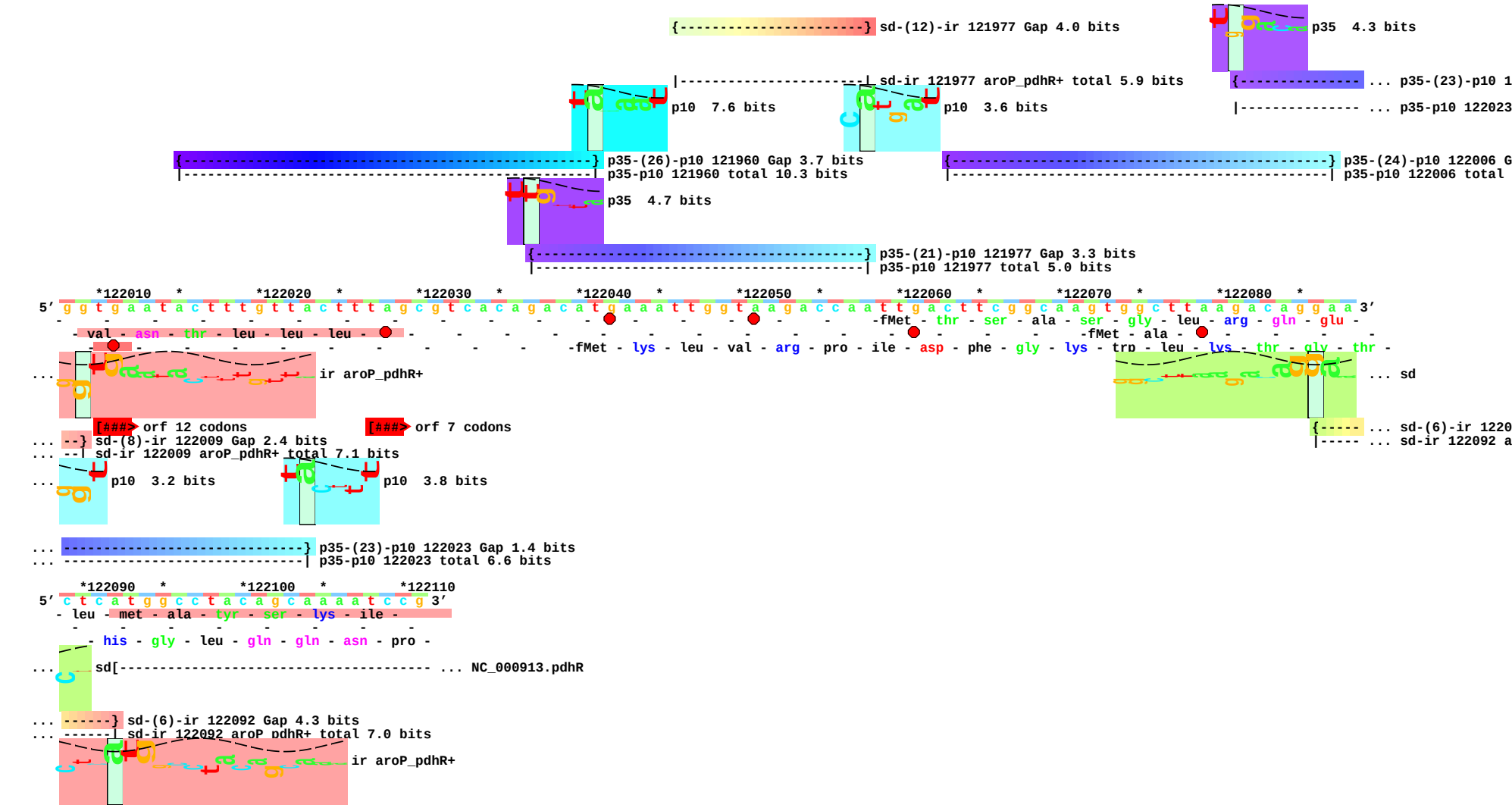

- 1 -
piece 1, NC_000913, aroP_pdhR+, config: linear, direction: +, begin: 121522, end: 122111
*121530 *121540 *121550 *121560 *121570 *121580 *121590 *121600
5′ c t g c t c g c c g t g c t g t t g a c c t t c c a t c a t g a a a c c t c g t g c g g t g g t t g t t t t t t g a t c t a c g c a g t g a t g c g t g t g t a 3′
- leu - leu - ala - val - leu - leu - thr - phe - his - his - glu - thr - ser - cys - gly - gly - cys - phe - phe - asp - leu - arg - ser - asp - ala - cys - val -
- cys - ser - pro - cys - cys - -fMet - lys - pro - arg - ala - val - val - val - phe - leu - ile - tyr - ala - val - met - arg - val -
- ala - arg - arg - ala - val - asp - leu - pro - ser - -fMet - arg - trp - leu - phe - phe - -fMet - cys - lys -
...] NC_000913.aroP
p35 4.2 bits
... p10
{ } p35-(24)-p10 121602 Gap
| | p35-p10 121602 total 5.
*121610 *121620 *121630 *121640 *121650 *121660 *121670 *121680
5′ a g t t t g c a a t t c c g t t t g t t g t a t t a a t t t g t t t a c a t c a a a g a a g t t t g a a t t g t t t a c a a a a a g a c t t c c g t c a g a t c a a 3′
- ser - leu - gln - phe - arg - leu - leu - tyr - -fMet - phe - thr - ser - lys - lys - phe - glu - leu - leu - gln - lys - asp - phe - arg - gln - ile - lys -
- phe - ala - ile - pro - phe - val - val - leu - ile - cys - leu - his - gln - arg - ser - leu - asn - cys - tyr - lys - lys - thr - ser - val - arg - ser - arg -
... p10 3.8 bits
p10 4.4 bits
p35 6.1 bits
p10 0.7 bits
{ } p35-(21)-p10 121628 Gap 3.3 bits
| p35-p10 121628 total 7.2 bits
{ } p35-(24)-p10 121631 Gap 2.4 bits
| p35-p10 121631 total 4.3 bits
*121690 *121700 *121710 *121720 *121730 *121740 *121750 *121760
5′ g a a t a a t g g t a t g c g g c a g c g a a t g c a c c c g c t t t a t g c a t g g t t g a a g a t g a g t t g c t t a a a a a g a a a c c g t t t g t a a a g 3′
-fMet - val - glu - asp - glu - leu - leu - lys - lys - lys - pro - phe - val - lys -
- asn - asn - gly - met - arg - gln - arg - met - his - pro - leu - tyr - ala - trp - leu - lys - met - ser - cys - leu - lys - arg - asn - arg - leu -
- ile - met - val - cys - gly - ser - glu - cys - thr - arg - phe - met - his - gly -
ir aroP_pdhR+ [###> orf 10 codons
sd
p35 5.3 bits
... p10
{ } sd-(7)-ir 121733 Gap 3.7 bits
p35 5.5 bits
| sd-ir 121733 aroP_pdhR+ total 5.0 bits
{ ... p35-(26)-p10 12178
{ } p35-(23)-p10 121762 Gap 1.4
| p35-p10 121762 total 4.7 bi
| ... p35-p10 121784 tot
*121770 *121780 *121790 *121800 *121810 *121820 *121830 *121840
5′ c t c a g c c t c a a c c c c t c t c a a t a t g t a g a a t g a a t t t a a a t t c g t t t t a a t t g a a t t a a a a a t c a c a a a a t t g g t a a g t g a 3′
- leu - ser - leu - asn - pro - ser - gln - tyr - val - glu - -fMet - -fMet - asn - leu - asn - ser - phe - -fMet - asn - -fMet - val - ser - glu -
-fMet - asn -
p10 3.4 bits
p10 4.5 bits
p10 4.7 bits
... p10 0.8 bits
p35 1.5 bits
p35 4.7 bits
p10 3.8 bits
{ } p35-(23)-p10 121811 Gap 1.4 bits
p10 1.9 bits
... } p35-(26)-p10 121784 Gap 3.7 bits
{ } p35-(21)-p10 121831 Gap 3.3 bits
| p35-p10 121811 total 4.6 bits


- 2 -
p35 5.6 bits
... |p35-p10 121784 total 5.3 bits
{p35-(23)-p10 121823 Gap 1.4 bits
|p35-p10 121823 total 7.9 bits
|p35-p10 121831 total 6.1 bits
p35 5.7 bits
{p35-(21)-p10 121832 Gap 3.3 bits
|p35-p10 121832 total 4.3 bits
*121850 * *121860 * *121870 * *121880 * *121890 * *121900 * *121910 * *121920 *
5' a t c g g t t c a a t t c g g a t t t t t a g t t t a a t a a t c g t t a a a a a a c t c c t t t c c t a c g t a a a g t c t a c a t t t g t g c a t a g t t 3'
- ser - val - gln - phe - gly - phe - leu - -fMet - cys - ile - val -
- arg - phe - asn - ser - asp - phe - tyr - ser - leu - ile - ile - val - lys - lys - leu - leu - ser - tyr - val - lys - ser - thr - phe - val - his - ser - tyr -
p35 1.2 bits
p10 4.6 bits
p10 1.3 bits
p10 3.0 bits
{p35-(23)-p10 121875 Gap 1.4 bits
p10 5.1 bits
|p35-p10 121875 total 4.4 bits
p35 5.3 bits
p35 4.8 bits
p10 2.7 bits
{p35-(23)-p10 121887 Gap 1.4 bits
|p35-p10 121887 total 6.1 bits
p35 5.7 bits
{p35-(26)-p10 121921 Gap 3.7 b
{p35-(23)-p10 121895 Gap 1.4 bits
|p35-p10 121895 total 5.6 bits
p35 2.7 bits |p35-p10 121921 total 4.6 bits
{p35-(21)-p10 121904 Gap 3.3 bits
|p35-p10 121904 total 4.5 bits
*121930 * *121940 * *121950 * *121960 * *121970 * *121980 * *121990 * *122000 *
5' a c a a c t t t g a a a c g t t a t a t a t g t c a a g t t g t t a a a a t g t g c a c a g t t t c a t g a t t t c a a t c a a a a c c t g t a t g g a c a t a a 3'
- thr - thr - leu - lys - arg - tyr - ile - cys - gln - val - val - lys - met - cys - thr - val - ser - -fMet - leu - lys - cys - ala - gln - phe - his - asp - phe - asn - gln - asn - leu - tyr - gly - his - lys -
- asn - phe - glu - thr - leu - tyr - met - ser - ser - cys - -fMet - his - ser - phe - met - ile - ser - ile - lys - thr - cys - met - asp - ile - arg -
p35 6.4 bits
ir aroP_pdhR+
... ir
sd
[###> orf 6 codons
sd
{sd-(9)-ir 121963 Gap 2.3 bits
p35 5.2 bits
{ ... sd-(8)-ir 1220
|sd-ir 121963 aroP_pdhR+ total 5.3 bits
| ... sd-ir 122009 a
sd
ir aroP_pdhR+
... p10


{----------} sd-(12)-ir 121977 Gap 4.0 bits
p35 4.3 bits
|----------| sd-ir 121977 aroP_pdhR+ total 5.9 bits
{---------- ... p35-(23)-p10 1
p10 7.6 bits
p10 3.6 bits
|---------- ... p35-p10 122023
{----------} p35-(26)-p10 121960 Gap 3.7 bits
{----------} p35-(24)-p10 122006 G
|----------| p35-p10 121960 total 10.3 bits
|----------| p35-p10 122006 total
p35 4.7 bits
{----------} p35-(21)-p10 121977 Gap 3.3 bits
|----------| p35-p10 121977 total 5.0 bits
*122010 * *122020 * *122030 * *122040 * *122050 * *122060 * *122070 * *122080 *
5' g g t g a a t a c t t t g t t a c t t t a g c g t c a c a g a c a t g a a a t t g g t a a g a c c a a t t g a c t t c g g c a a g t g g c t t a a g a c a g g a a 3'
- - - -