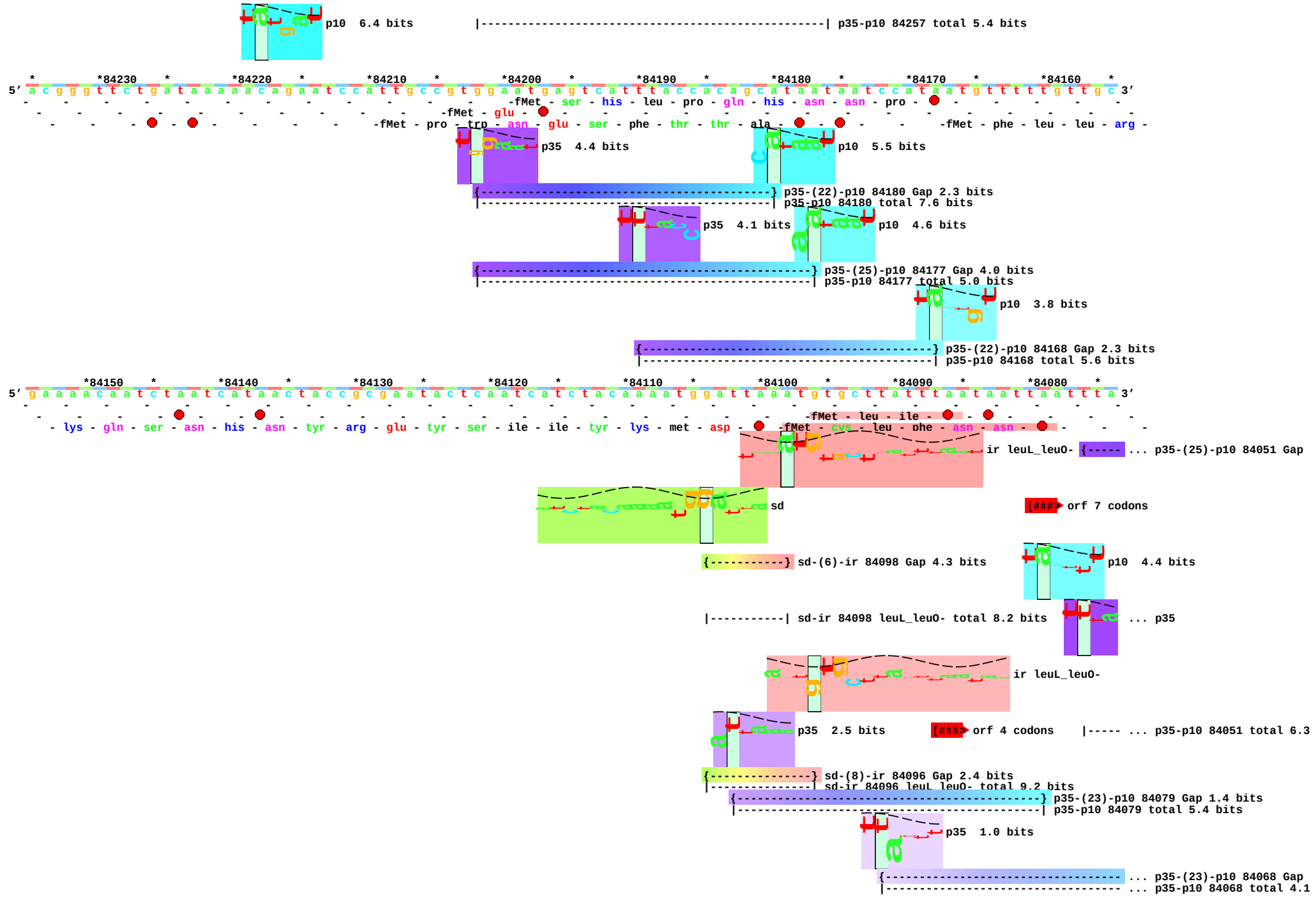
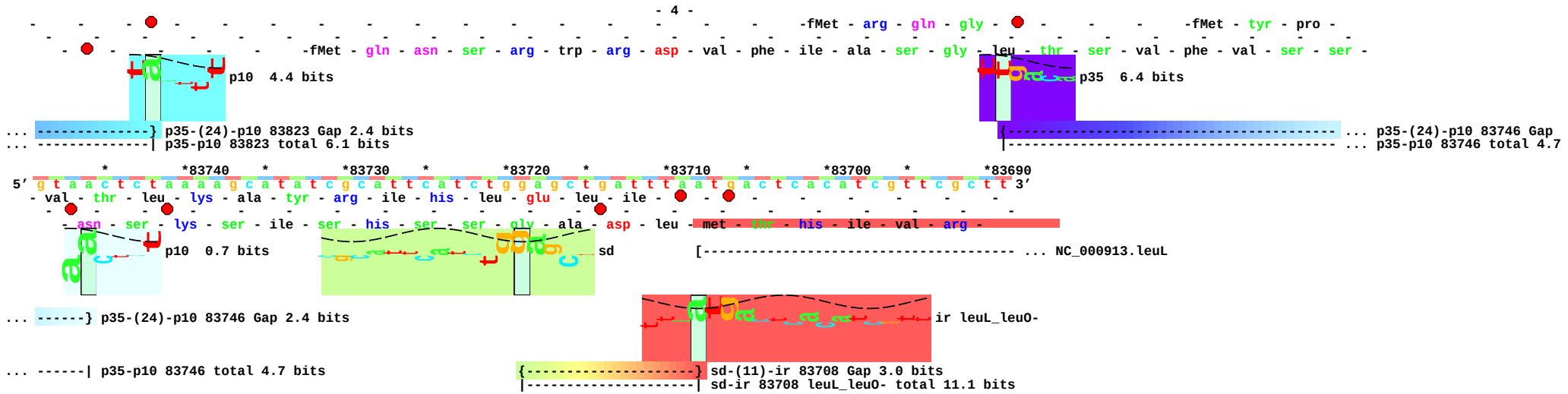
piece 1, NC_000913, leuL_leuO-, config: linear, direction: -, begin: 84397, end: 83689
*84390 *84380 *84370 *84360 *84350 *84340 *84330 *84320
5′ c t c t g g a t g a t c t g t t t g t a c c t c t g g c a t a c t t a a c t c c a c t g t c a c a c t t a a c t c c c t t t c c c t t a t t g g a a t g c a g a g 3′
- leu - trp - met - ile - cys - leu - tyr - leu - trp - his - thr -
- ser - gly -
- leu - asp - asp - leu - phe - val - pro - leu - ala - tyr - leu - thr - pro - leu - ser - his - leu - thr - pro - phe - pro - leu - leu - glu - cys - arg - glu -
fMet - gln - arg -
] NC_000913.leuO
p35 3.8 bits
... sd
p35 2.6 bits
p10 4.4 bits
} p35-(24)-p10 84369 Gap 2.4 bits
| p35-p10 84369 total 4.5 bits
{ ... p35-(23)-p10 84314 Gap
| ... p35-p10 84314 total 6.9
p35 4.4 bits
{ ... p35-(23)-p10 84304 Gap
| ... p35-p10 84304 total 5.8
p35 2.1 bits
{ ... p35-(24)-p10 84299 Gap
| ... p35-p10 84299 total 6.1
*84310 *84300 *84290 *84280 *84270 *84260 *84250 *84240
5′ a a a t a a t c c t g a a g a a t a t g a t t t a t c a t g c a t a t a a a a t a a g a a a a a a g c a a a a t g a g t a a a a t t c g g a a a a c a t a a a g a t 3′
- asn - asn - pro - glu - glu - tyr - asp - leu - ser - cys - ile -
- ile - ile - leu - lys - asn - met - ile - tyr - his - ala - tyr - lys - ile - arg - lys - ser - lys - met - ser - lys - ile - arg - lys - thr -
fMet - his - ile - lys -
... sd
ir leuL_leuO-
p10 4.7 bits
[###> orf 20 codons
... } p35-(23)-p10 84314 Gap 1.4 bits
[###> orf 5 codons
ir leuL_leuO-
... | p35-p10 84314 total 6.9 bits
sd
p10 7.6 bits
p10 4.6 bits
ir leuL_leuO-
{ sd-(11)-ir 84263 Gap 3.0 bits
... } p35-(23)-p10 84304 Gap 1.4 bits
| sd-ir 84263 leuL_leuO- total 10.9 bits
... | p35-p10 84304 total 5.8 bits
p35 3.1 bits
{ sd-(7)-ir 84299 Gap 3.7 bits
p35 1.4 bits
... } p35-(24)-p10 84299 Gap 2.4 bits
... | p35-p10 84299 total 6.1 bits
{ p35-(26)-p10 84257 Gap 3.7 bits
| sd-ir 84299 leuL_leuO- total 6.7 bits
sd
{ p35-(22)-p10 84266 Gap 2.3 bits
{ sd-(14)-ir 84289 Gap 4.9 bits
| sd-ir 84289 leuL_leuO- total 9.7 bits
p10 2.8 bits
| p35-p10 84266 total 5.5 bits


p10 6.4 bits
|---------------------------------------------------| p35-p10 84257 total 5.4 bits
*84230 *84220 *84210 *84200 *84190 *84180 *84170 *84160 *
5' a c g g g t t c t g a t a a a a a c a g a a t c c a t t g c c g t g g a a t g a g t c a t t t a c c a c a g c a t a a t a a t c c a t a a t g t t t t t g t t g c 3'
-fMet - ser - his - leu - pro - gln - his - asn - asn - pro -
-fMet - glu -
-fMet - pro - trp - asn - glu - ser - phe - thr - thr - ala -
-fMet - phe - leu - leu - arg -
p35 4.4 bits
p10 5.5 bits
{---------------------------------------} p35-(22)-p10 84180 Gap 2.3 bits
|---------------------------------------| p35-p10 84180 total 7.6 bits
p35 4.1 bits
p10 4.6 bits
{-----------------------------------------------} p35-(25)-p10 84177 Gap 4.0 bits
|-----------------------------------------------| p35-p10 84177 total 5.0 bits
p10 3.8 bits
{---------------------------------------} p35-(22)-p10 84168 Gap 2.3 bits
|---------------------------------------| p35-p10 84168 total 5.6 bits
*84150 *84140 *84130 *84120 *84110 *84100 *84090 *84080 *
5' g a a a a c a a t c t a a t c a t a a c t a c c g c g a a t a c t c a a t c a t c t a c a a a a t g g a t t a a a t g t g c t t a t t t a a t a a t t a a t t t a 3'
- lys - gln - ser - asn - his - asn - tyr - arg - glu - tyr - ser - ile - ile - tyr - lys - met - asp -
-fMet - leu - ile -
-fMet - cys - leu - phe - asn - asn -
ir leuL_leuO- {----- ... p35-(25)-p10 84051 Gap
sd
[###> orf 7 codons
{-----------} sd-(6)-ir 84098 Gap 4.3 bits
p10 4.4 bits
|----------| sd-ir 84098 leuL_leuO- total 8.2 bits
... p35
ir leuL_leuO-
p35 2.5 bits
[###> orf 4 codons
|----- ... p35-p10 84051 total 6.3
{---------------} sd-(8)-ir 84096 Gap 2.4 bits
|---------------| sd-ir 84096 leuL_leuO- total 9.2 bits
{-----------------------------------------} p35-(23)-p10 84079 Gap 1.4 bits
|-----------------------------------------| p35-p10 84079 total 5.4 bits
p35 1.0 bits
{---------------------------------- ... p35-(23)-p10 84068 Gap
|---------------------------------- ... p35-p10 84068 total 4.1

*84070 *84060 *84050 *84040 *84030 *84020 *84010 *84000
5′ t a t a t t t a a t g c a t t a a t t c t t a a c a t t a a t t g a t c a a t a a t a t t c a c c a a a t c a a t a t c a a a a a a a a t c g c a a a a c a t a t 3′
-fMet - ile - asn - asn - ile - his - gln - ile - asn - ile - lys - lys - asn - arg - lys - thr - tyr -
-fMet - his -
... p35-(25)-p10 84051 Gap 4.0 bits
p10 3.4 bits
... p10
p10 4.5 bits
p10 5.6 bits
p10 4.6 bits
p35 1.1 bits
p35 5.7 bits
p10 1.8 bits
p35-(22)-p10 83994 Gap 2.3 bits
... p35 4.7 bits
p35 1.9 bits
p10 6.3 bits
p35-p10 83994 total 7.1 bits
p35-(22)-p10 84046 Gap 2.3 bits
... p35-p10 84051 total 6.3 bits
p35-p10 84046 total 5.2 bits
p35-(23)-p10 84036 Gap 1.4 bits
p35-p10 84036 total 5.1 bits
p35 1.4 bits
p35 4.2 bits
p35-(22)-p10 84034 Gap 2.3 bits
... p35-(23)-p10 84068 Gap 1.4 bits
... p35-p10 84068 total 4.1 bits
p35-(23)-p10 84019 Gap 1.4 bits
p35-p10 84019 total 6.2 bits
p35-p10 84034 total 5.3 bits
*83990 *83980 *83970 *83960 *83950 *83940 *83930 *83920
5′ a a t t c a a t a c a a a t c a t c a g g a t a g g t t t t g c a a c g c g t g c a t t t t g t c c c t t t t t t c c t c g t t g a t t a g a t g c a a a a a t t 3′
- asn - ser - ile - gln - ile - ile - arg - ile - gly - phe - ala - thr - arg - ala - phe - cys - pro - leu - phe - pro - arg -
-fMet - gln - arg - val - his - phe - val - pro - phe - phe - leu - val - asp -
-fMet - gln - lys - phe -
-fMet - ser - pro - phe - ser - ser - leu - ile - arg - cys - lys - asn - leu -
... p10 8.4 bits
p35 5.7 bits
... sd
... p35-(26)-p10 83903 Gap
... p35-p10 83903 total 4.5
*83910 *83900 *83890 *83880 *83870 *83860 *83850 *83840
5′ t a t g c t g a a a t a t g t c a a c c g a t g a a a a g c g t c g g t a g t t a a g c a g a a a t t a a t a t c g c t t a c t t t a a c c a c c g c a g c a c a 3′
-fMet - lys - ser - val - gly - ser -
- met - leu - lys - tyr - val - asn - arg -
- cys -
-fMet - ser - thr - asp - glu - lys - arg - arg -
... sd
[###> orf 9 codons
p35 4.1 bits
... p35-(26)-p10 83903 Gap 3.7 bits
... p35-p10 83903 total 4.5 bits
... p35-(24)-p10 83823 Gap
... p35-p10 83823 total 6.1
ir leuL_leuO-
sd-(5)-ir 83900 Gap 5.4 bits
sd-ir 83900 leuL_leuO- total 5.1 bits
p10 2.5 bits
*83830 *83820 *83810 *83800 *83790 *83780 *83770 *83760 *83750
5′ a t t a g c t a a t t t t a c g g a t g c a g a a c t c a c g c t g g c g g g a c g t t t t t a t t g c g t c a g g g t t g a c a t c c g t t t t t g t a t c c a 3′


-fMet - arg - gln - gly -
-fMet - tyr - pro -
-fMet - gln - asn - ser - arg - trp - arg - asp - val - phe - ile - ala - ser - gly - leu - thr - ser - val - phe - val - ser - ser -
p10 4.4 bits
p35 6.4 bits
... } p35-(24)-p10 83823 Gap 2.4 bits
... | p35-p10 83823 total 6.1 bits
{ ... p35-(24)-p10 83746 Gap
| ... p35-p10 83746 total 4.7
*83740
*83730
*83720
*83710
*83700
*83690
5’ g t a a c t c t a a a a g c a t a t c g c a t t c a t c t g g a g c t g a t t t a a t g a c t c a c a t c g t t c g c t t 3’
- val - thr - leu - lys - ala - tyr - arg - ile - his - leu - glu - leu - ile -
- asn - ser - lys - ser - ile - ser - his - ser - ser - gly - ala - asp - leu - met - thr - his - ile - val - arg -
p10 0.7 bits
sd
[ ... NC_000913.leuL
... } p35-(24)-p10 83746 Gap 2.4 bits
ir leuL_leuO-
... | p35-p10 83746 total 4.7 bits
{ } sd-(11)-ir 83708 Gap 3.0 bits
| sd-ir 83708 leuL_leuO- total 11.1 bits