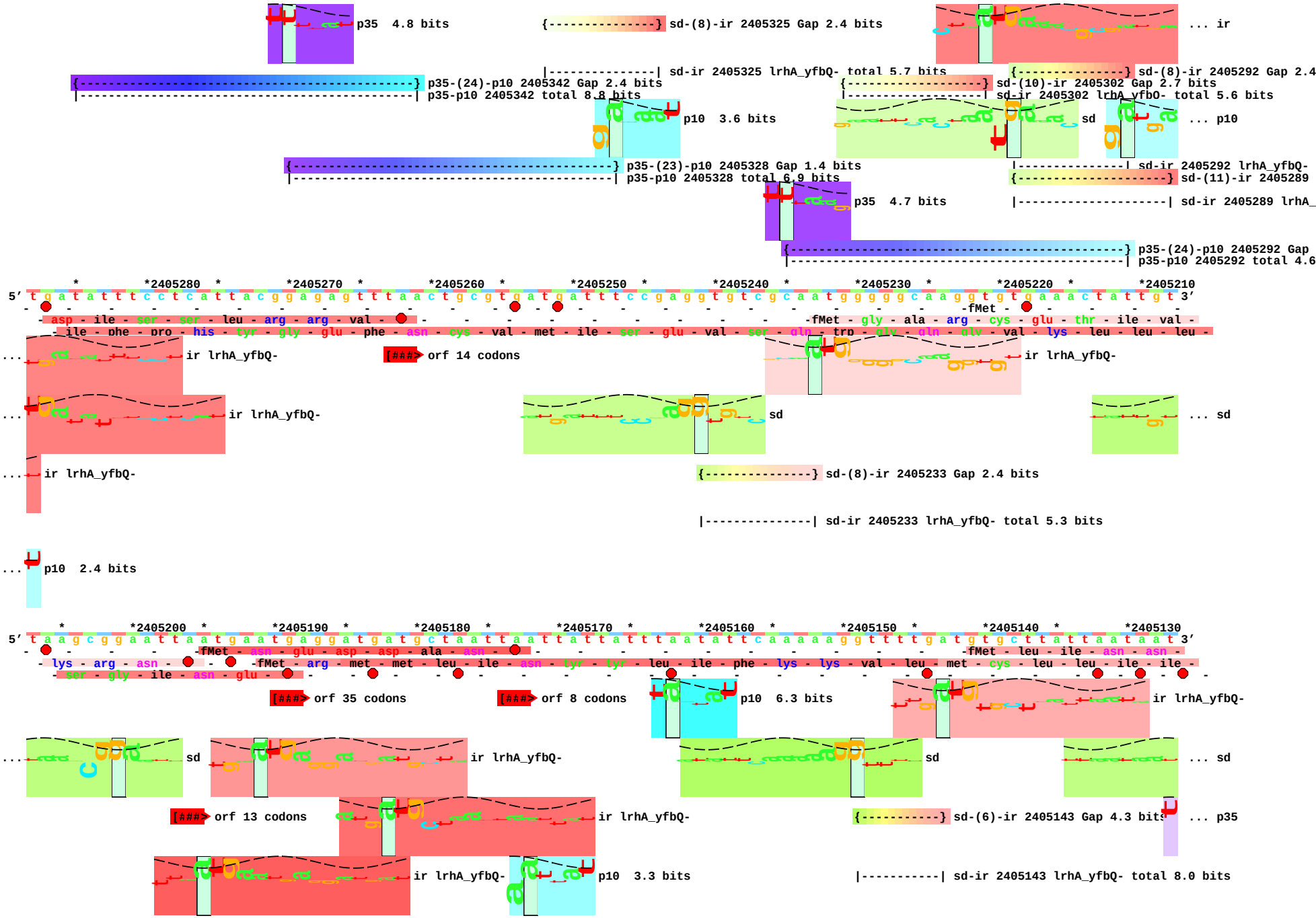
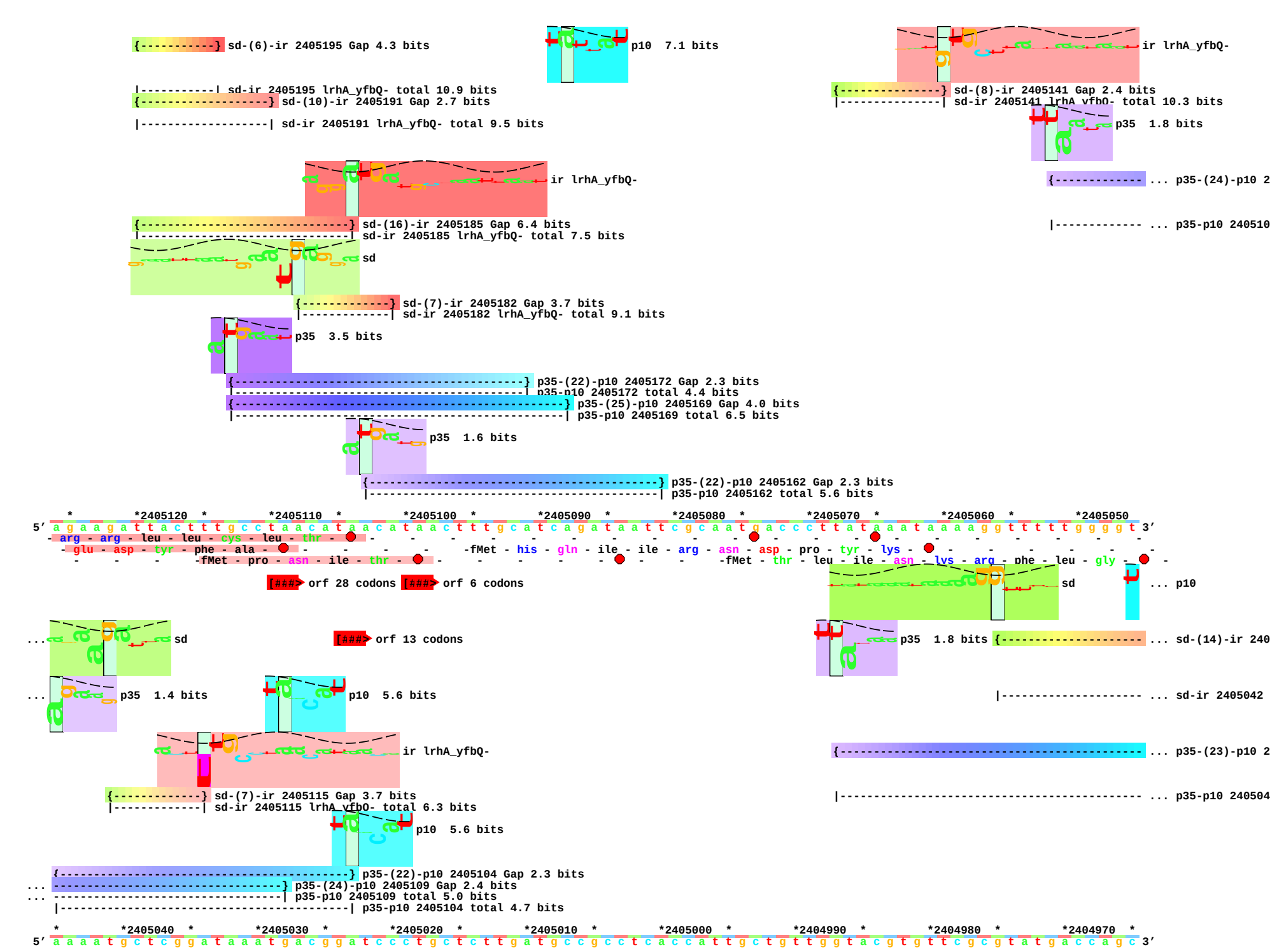
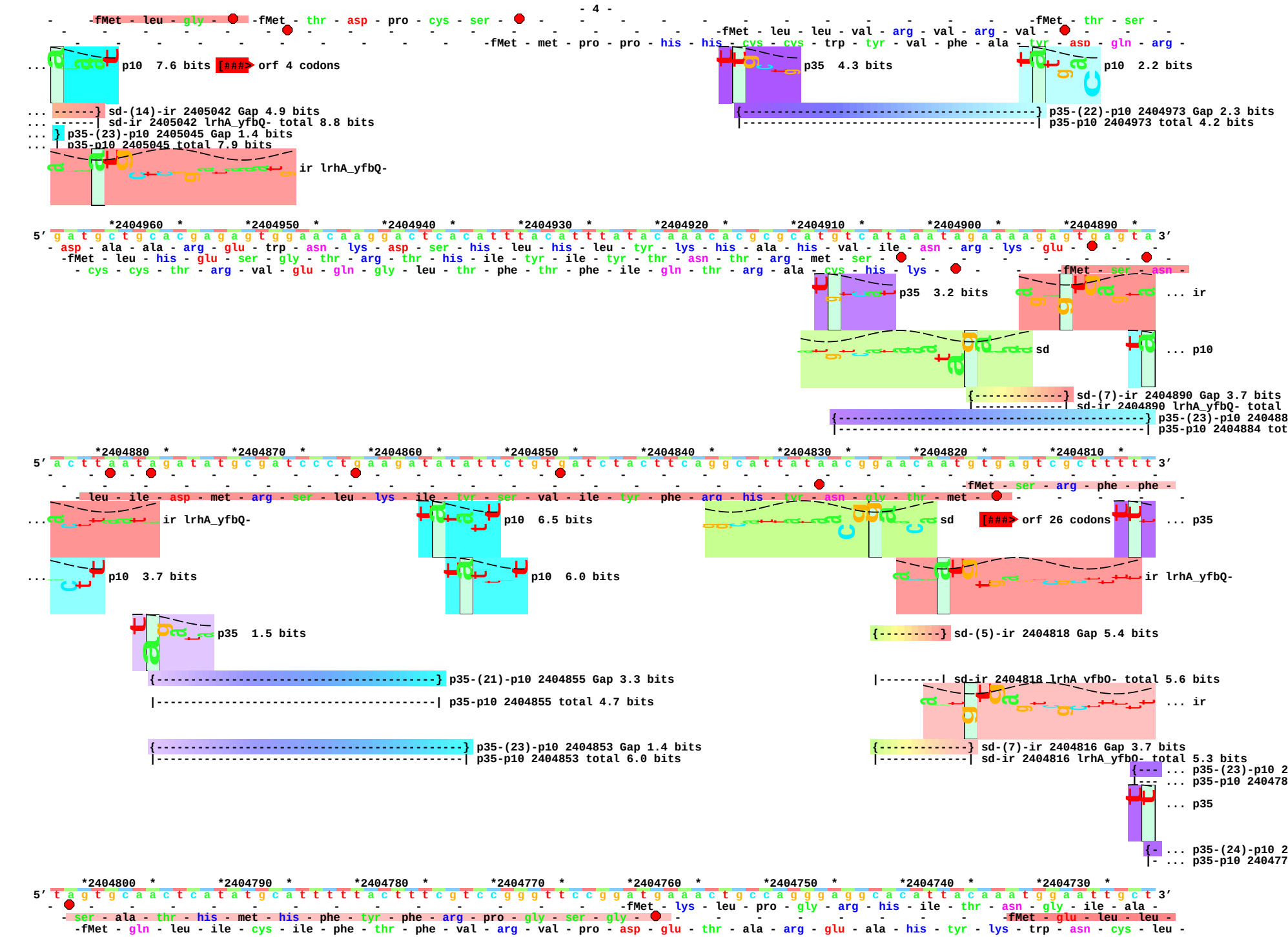
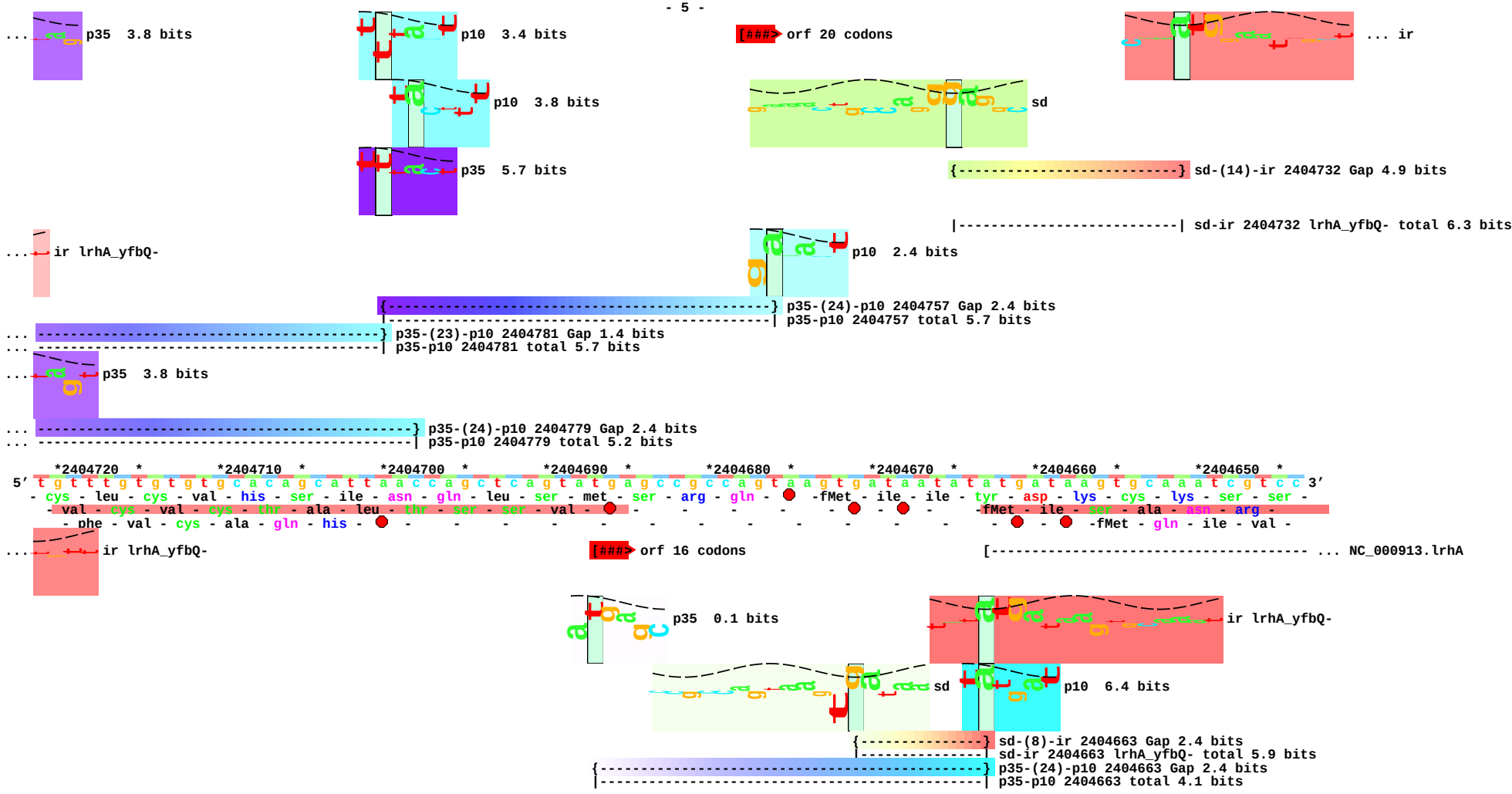
piece 1, NC_000913, lrhA_yfbQ-, config: linear, direction: -, begin: 2405612, end: 2404644
*2405610 *2405600 *2405590 *2405580 *2405570 *2405560 *2405550 *2405540 *
5′ t a a t t t g c t g g a t t t t t c a a t g g g g g a c a t g a a t c t t g a c c t t t t t t g c t g t t a t c g c c a c t c c c t g c c g t g g a a g t c a g c 3′
-fMet - leu - leu - ser - pro - leu - pro - ala - val - glu - val - ser -
- asn - leu - leu - asp - phe - ser - met - gly - asp - met - asn - leu - asp - leu - phe - cys - cys - tyr - arg - his - ser - leu - pro - trp - lys - ser - ala -
- ile - cys - trp - ile - phe - gln - trp - gly - thr - -fMet - thr - phe - phe - ala - val - ile - ala - thr - pro - cys - arg - gly - ser - gln - leu -
... ----------] NC_000913.yfbQ
*2405530 *2405520 *2405510 *2405500 *2405490 *2405480 *2405470 *2405460 *
5′ t t a g a a c a a t g t a c t c c c c a g g a c g g t g t t t t g a a g g t c t g c a g a a t a a g a t t t t g c c a g a g g g g a a g g c t c g a t t g t g c 3′
-fMet - lys - val - cys - arg - ile - arg - phe - cys - gln - arg - gly - arg - leu - asp - cys - ala -
- leu - glu - gln - cys - thr - pro - pro - gly - arg - cys - phe - glu - gly - leu - gln - asn - lys - ile - leu - pro - glu - gly - lys - ala - arg - leu - cys -
- arg - thr - met - tyr - ser - pro - arg - thr - val - phe - -fMet - leu -
*2405450 *2405440 *2405430 *2405420 *2405410 *2405400 *2405390 *2405380 *2405370
5′ t g t t a a t a a c t t a a t a a t g a c a a a a t a a g a g g t g t a t g c t t t a c a t g c a a t g t t a t a t a g t g a a t t g t t c t g a t t c t t 3′
-fMet - arg - cys - ile - cys - phe - thr - cys - asn - val - ile -
- cys -
-fMet - leu - tyr - ser - glu - leu - phe -
- val - asn - asn - leu - ile - met - thr - lys -
-fMet - tyr - met - leu - tyr - met - gln - cys - tyr - ile - val - asn - cys - ser - asp - ser -
- leu - ile - thr -
p35 2.6 bits
ir lrhA_yfbQ-
[###> orf 12 codons
[# ... orf
sd
ir lrhA_yfbQ-
p10 0.8 bits
{----------} sd-(9)-ir 2405423 Gap 2.3 bits
ir lrhA_yfbQ-
|----------| sd-ir 2405423 lrhA_yfbQ- total 7.4 bits
p10 5.9 bits
sd
p35 5.5 bits
p35 3.3 bits
{----------} sd-(6)-ir 2405412 Gap 4.3 bits
|----------| sd-ir 2405412 lrhA_yfbQ- total 9.6 bits
{----------} sd-(15)-ir 2405403 Gap 6.0 bits
|----------| sd-ir 2405403 lrhA_yfbQ- total 8.4 bits
p10 4.6 bits
p10 5.3 bits
{----------} p35-(23)-p10 2405426 Gap 1.4 bits
|----------| p35-p10 2405426 total 5.7 bits
{----------} p35-(23)-p10 2405384 Gap 1.4 bits
|----------| p35-p10 2405384 total 4.9 bits
{----------} p35-(21)-p10 2405412 Gap 3.3 bits
|----------| p35-p10 2405412 total 5.3 bits
p35 2.6 bits
{----------} p35-(25)-p10 2405391 Gap 4.0 bits
|----------| p35-p10 2405391 total 4.5 bits
* *2405360 * *2405350 * *2405340 * *2405330 * *2405320 * *2405310 * *2405300 * *2405290
5′ a a t t g t a a g t c t g g t t t t t t t a t c t g t a a g a t a a t t g t g t g a a a a t g c c t c a t t t a a g a a t t c a c t a a t g a a a c g c g a t g a 3′
-fMet - cys - glu - asn - ala - ser - phe - lys - asn - ser - leu - met - lys - arg - asp - asp -
-fMet - lys - met - pro - his - leu - arg - ile - his -
-fMet - met -
... ##> orf 15 codons
p10 5.7 bits
ir lrhA_yfbQ-
... ir
p35 5.5 bits
sd
sd
[###> orf 8 codons
... ir


p35 4.8 bits
sd-(8)-ir 2405325 Gap 2.4 bits
... ir
sd-ir 2405325 lrhA_yfbQ- total 5.7 bits
sd-(8)-ir 2405292 Gap 2.4
p35-(24)-p10 2405342 Gap 2.4 bits
sd-(10)-ir 2405302 Gap 2.7 bits
p35-p10 2405342 total 8.8 bits
sd-ir 2405302 lrhA_yfbO- total 5.6 bits
p10 3.6 bits
sd
... p10
p35-(23)-p10 2405328 Gap 1.4 bits
sd-ir 2405292 lrhA_yfbQ-
p35-p10 2405328 total 6.9 bits
sd-(11)-ir 2405289
p35 4.7 bits
sd-ir 2405289 lrhA_
p35-(24)-p10 2405292 Gap
p35-p10 2405292 total 4.6
*2405280 *2405270 *2405260 *2405250 *2405240 *2405230 *2405220 *2405210
5' t g a t a t t t c c t c a t t a c g g a g a g t t t a a c t g c g t g a t g a t t t c c g a g g t g t c g c a a t g g g g g c a a g g t g t g a a a c t a t t g t 3'
asp - ile - ser - ser - leu - arg - arg - val
fMet - gly - ala - arg - cys - glu - thr - ile - val -
ile - phe - pro - his - tyr - gly - glu - phe - asn - cys - val - met - ile - ser - glu - val - ser - gln - trp - glv - gln - glv - val - lys - leu - leu - leu -
... ir lrhA_yfbQ-
[###> orf 14 codons
ir lrhA_yfbQ-
... ir lrhA_yfbQ-
sd
... sd
... ir lrhA_yfbQ-
{----------} sd-(8)-ir 2405233 Gap 2.4 bits
|----------| sd-ir 2405233 lrhA_yfbQ- total 5.3 bits
... p10 2.4 bits
*2405200 *2405190 *2405180 *2405170 *2405160 *2405150 *2405140 *2405130
5' t a a g c g g a a t t a a t g a a t g a g g a t g a t g c t a a t t a a t t a t t a t t t a a t a t t c a a a a a g g t t t t g a t g t g c t t a t t a a t a a t 3'
fMet - asn - glu - asp - asp - ala - asn -
fMet - leu - ile - asn - asn -
lys - arg - asn -
fMet - arg - met - met - leu - ile - asn - tyr - tyr - leu - ile - phe - lys - lys - val - leu - met - cys - leu - leu - ile - ile -
ser - gly - ile - asn - glu -
[###> orf 35 codons
[###> orf 8 codons
p10 6.3 bits
ir lrhA_yfbQ-
... sd
ir lrhA_yfbQ-
sd
... sd
[###> orf 13 codons
ir lrhA_yfbQ-
{----------} sd-(6)-ir 2405143 Gap 4.3 bits
... p35
ir lrhA_yfbQ-
p10 3.3 bits
|----------| sd-ir 2405143 lrhA_yfbQ- total 8.0 bits


sd-(6)-ir 2405195 Gap 4.3 bits
p10 7.1 bits
sd-ir 2405195 lrhA_yfbQ- total 10.9 bits
sd-(10)-ir 2405191 Gap 2.7 bits
sd-ir 2405191 lrhA_yfbQ- total 9.5 bits
ir lrhA_yfbQ-
sd-(16)-ir 2405185 Gap 6.4 bits
sd-ir 2405185 lrhA_yfbQ- total 7.5 bits
sd
sd-(7)-ir 2405182 Gap 3.7 bits
sd-ir 2405182 lrhA_yfbQ- total 9.1 bits
p35 3.5 bits
p35-(22)-p10 2405172 Gap 2.3 bits
p35-p10 2405172 total 4.4 bits
p35-(25)-p10 2405169 Gap 4.0 bits
p35-p10 2405169 total 6.5 bits
p35 1.6 bits
p35-(22)-p10 2405162 Gap 2.3 bits
p35-p10 2405162 total 5.6 bits
5′ a g a a g a t t a c t t t g c c t a a c a t a a c a t a a c t t t g c a t c a g a t a a t t c g c a a t g a c c c t t a t a a a t a a a a g g t t t t t g g g g t 3′
orf 28 codons
orf 6 codons
orf 13 codons
sd-(14)-ir 240
sd-ir 2405042
p35-(23)-p10 2
p35-p10 240504
sd-(7)-ir 2405115 Gap 3.7 bits
sd-ir 2405115 lrhA_yfbQ- total 6.3 bits
p35-(22)-p10 2405104 Gap 2.3 bits
p35-(24)-p10 2405109 Gap 2.4 bits
p35-p10 2405109 total 5.0 bits
p35-p10 2405104 total 4.7 bits
5′ a a a a t g c t c g g a t a a a t g a c g g a t c c c t g c t c t t g a t g c c g c c t c a c c a t t g c t g t t g g t a c g t g t t c g c g t a t g a c c a g c 3′


-fMet - leu - gly -
-fMet - thr - asp - pro - cys - ser -
-fMet - leu - leu - val - arg - val - arg - val -
-fMet - thr - ser -
-fMet - met - pro - pro - his - his - cys - cys - trp - tyr - val - phe - ala - tyr - asp - gln - arg -
... p10 7.6 bits [###> orf 4 codons
p35 4.3 bits
p10 2.2 bits
... ------} sd-(14)-ir 2405042 Gap 4.9 bits
... ------| sd-ir 2405042 lrhA_yfbQ- total 8.8 bits
... } p35-(23)-p10 2405045 Gap 1.4 bits
... | p35-p10 2405045 total 7.9 bits
ir lrhA_yfbQ-
{----------} p35-(22)-p10 2404973 Gap 2.3 bits
|----------| p35-p10 2404973 total 4.2 bits
*2404960 *
*2404950 *
*2404940 *
*2404930 *
*2404920 *
*2404910 *
*2404900 *
*2404890 *
5′ g a t g c t g c a c g a g a g t g g a a c a a g g a c t c a c a t t t a c a t t t a t a c a a a c a c g c g c a t g t c a t a a a t a g a a a a g a g t g a g t a 3′
- asp - ala - ala - arg - glu - trp - asn - lys - asp - ser - his - leu - his - leu - tyr - lys - his - ala - his - val - ile - asn - arg - lys - glu -
-fMet - leu - his - glu - ser - gly - thr - arg - thr - his - ile - tyr - ile - tyr - thr - asn - thr - arg - met - ser -
- cys - cys - thr - arg - val - glu - gln - gly - leu - thr - phe - thr - phe - ile - gln - thr - arg - ala - cys - his - lys -
-fMet - ser - asn -
p35 3.2 bits
... ir
sd
... p10
{----------} sd-(7)-ir 2404890 Gap 3.7 bits
|----------| sd-ir 2404890 lrhA_yfbQ- total
{----------} p35-(23)-p10 240488
|----------| p35-p10 2404884 tot
*2404880 *
*2404870 *
*2404860 *
*2404850 *
*2404840 *
*2404830 *
*2404820 *
*2404810 *
5′ a c t t a a t a g a t a t g c g a t c c c t g a a g a t a t a t t c t g t g a t c t a c t t c a g g c a t t a t a a c g g a a c a a t g t g a g t c g c t t t t t 3′
- leu - ile - asp - met - arg - ser - leu - lys - ile - tyr - ser - val - ile - tyr - phe - arg - his - tyr - asn - gly - thr - met -
-fMet - ser - arg - phe - phe -
... ir lrhA_yfbQ-
p10 6.5 bits
sd
[###> orf 26 codons
... p35
... p10 3.7 bits
p10 6.0 bits
ir lrhA_yfbQ-
p35 1.5 bits
{---------} sd-(5)-ir 2404818 Gap 5.4 bits
{----------} p35-(21)-p10 2404855 Gap 3.3 bits
|----------| p35-p10 2404855 total 4.7 bits
|---------| sd-ir 2404818 lrhA_yfbO- total 5.6 bits
... ir
{----------} p35-(23)-p10 2404853 Gap 1.4 bits
|----------| p35-p10 2404853 total 6.0 bits
{----------} sd-(7)-ir 2404816 Gap 3.7 bits
|----------| sd-ir 2404816 lrhA_yfbO- total 5.3 bits
{--- ... p35-(23)-p10 2
|--- ... p35-p10 240478
... p35
{- ... p35-(24)-p10 2
|- ... p35-p10 240477
*2404800 *
*2404790 *
*2404780 *
*2404770 *
*2404760 *
*2404750 *
*2404740 *
*2404730 *
5′ t a g t g c a a c t c a t g c a t t t t t a c t t t c g t c c g g g t t c c g g a t g a a a c t g c c a g g g a g g c a c a t t a c a a a t g g a a t t g c t 3′
-fMet - lys - leu - pro - gly - arg - his - ile - thr - asn - gly - ile - ala -
- ser - ala - thr - his - met - his - phe - tyr - phe - arg - pro - gly - ser - gly -
-fMet - glu - leu - leu -
-fMet - gln - leu - ile - cys - ile - phe - thr - phe - val - arg - val - pro - asp - glu - thr - ala - arg - glu - ala - his - tyr - lys - trp - asn - cys - leu -


... p35 3.8 bits
p10 3.4 bits
[###> orf 20 codons
... ir
p10 3.8 bits
sd
p35 5.7 bits
{----------} sd-(14)-ir 2404732 Gap 4.9 bits
|----------| sd-ir 2404732 lrhA_yfbQ- total 6.3 bits
... ir lrhA_yfbQ-
p10 2.4 bits
{----------} p35-(24)-p10 2404757 Gap 2.4 bits
|----------| p35-p10 2404757 total 5.7 bits
... {----------} p35-(23)-p10 2404781 Gap 1.4 bits
... |----------| p35-p10 2404781 total 5.7 bits
... p35 3.8 bits
... {----------} p35-(24)-p10 2404779 Gap 2.4 bits
... |----------| p35-p10 2404779 total 5.2 bits
*2404720 * *2404710 * *2404700 * *2404690 * *2404680 * *2404670 * *2404660 * *2404650 *
5' t g t t t g t g t g c a c a g c a t t a a c c a g c t c a g t a t g a g c c g c c a g t a a g t g a t a a t a t t g a t a a g t g c a a a t c g t c c 3'
- cys - leu - cys - val - his - ser - ile - asn - gln - leu - ser - met - ser - arg - gln - -fMet - ile - ile - tyr - asp - lys - cys - lys - ser - ser -
- val - cys - val - cys - thr - ala - leu - thr - ser - ser - val - - -