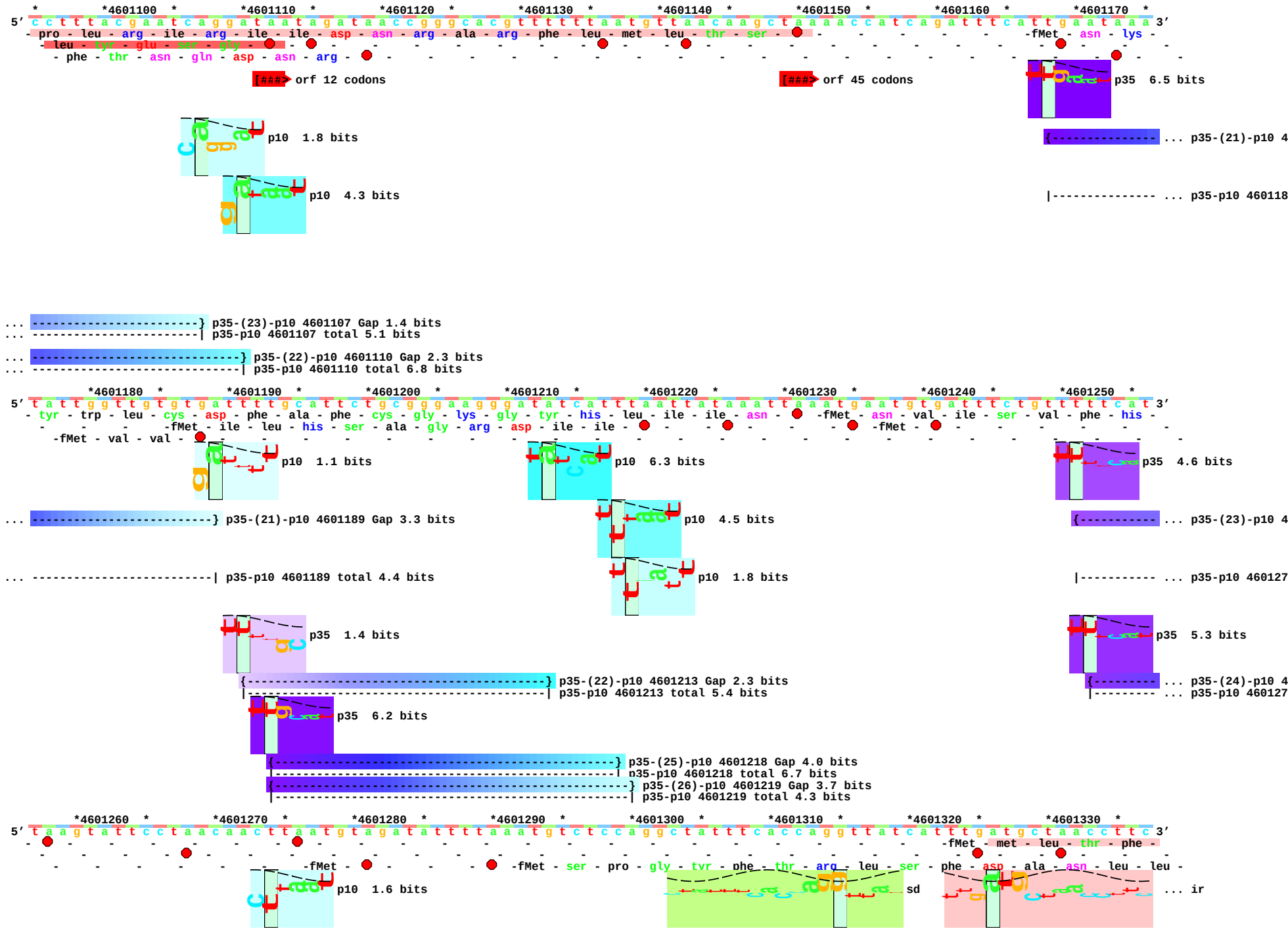
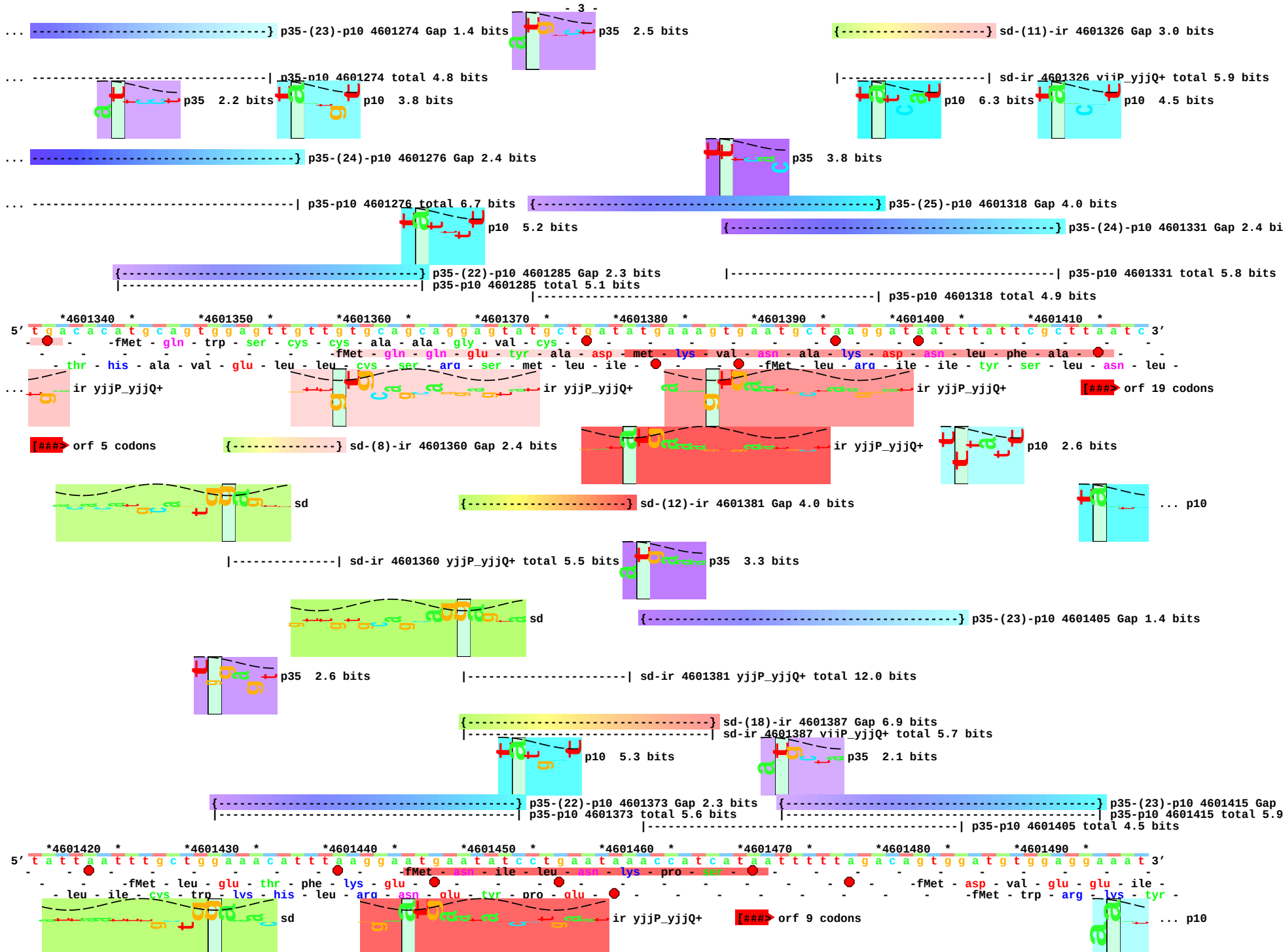
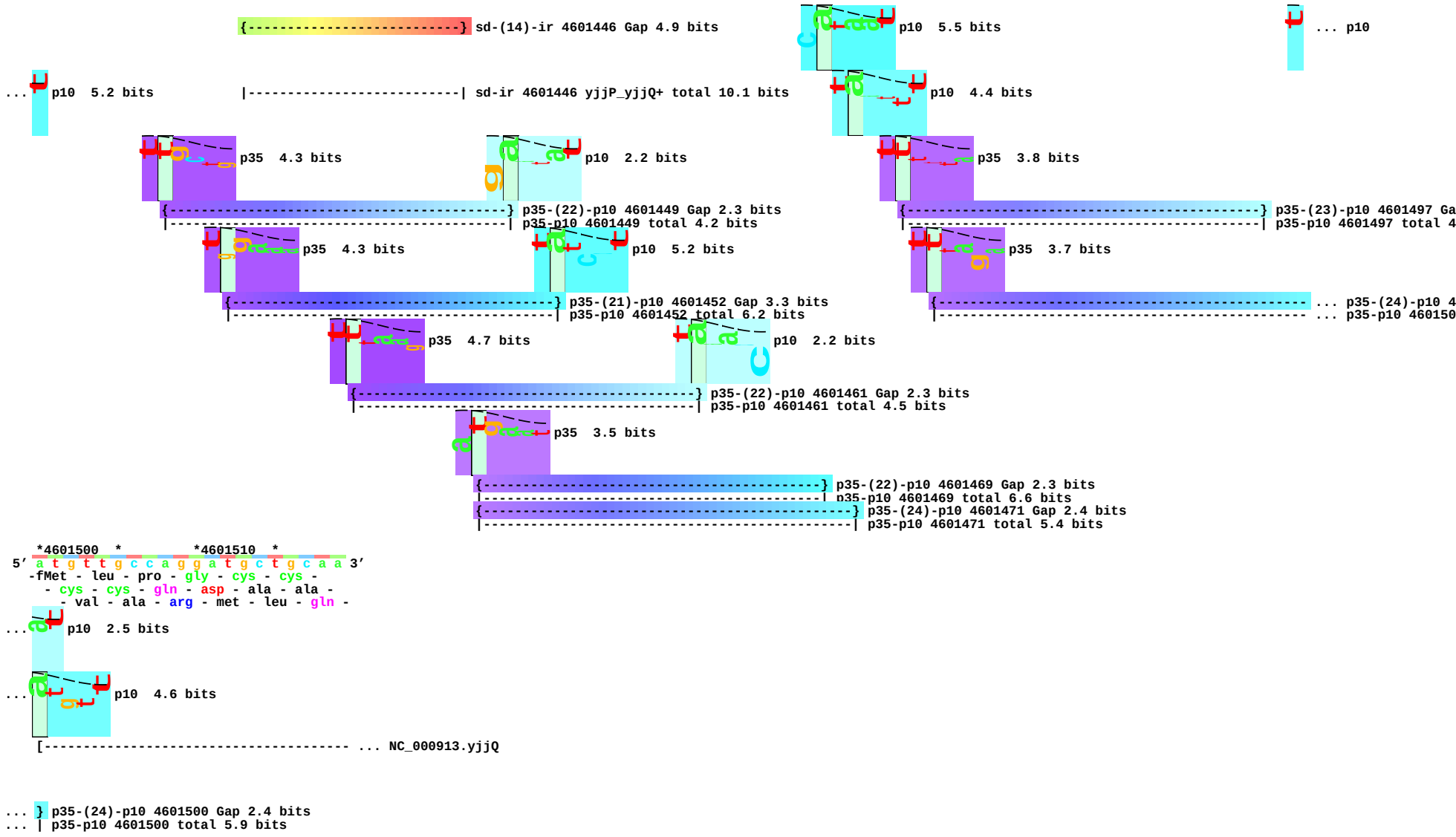
piece 1, NC_000913, yjjP_yjjQ+, config: linear, direction: +, begin: 4600852, end: 4601519


*4601100 *4601110 *4601120 *4601130 *4601140 *4601150 *4601160 *4601170
5′ c c t t t a c g a a t c a g g a t a a t a g a t a a c c g g g c a c g t t t t t t a a t g t t a a c a a g c t a a a a c c a t c a g a t t t c a t t g a a t a a a 3′
- pro - leu - arg - ile - arg - ile - ile - asp - asn - arg - ala - arg - phe - leu - met - leu - thr - ser -
- leu - tyr - glu - ser - gly -
- phe - thr - asn - gln - asp - asn - arg -
-fMet - asn - lys -
[###> orf 12 codons
[###> orf 45 codons
p35 6.5 bits
p10 1.8 bits
{--------------- ... p35-(21)-p10 4
p10 4.3 bits
|--------------- ... p35-p10 460118
... ----------------------} p35-(23)-p10 4601107 Gap 1.4 bits
... ----------------------| p35-p10 4601107 total 5.1 bits
... ----------------------------} p35-(22)-p10 4601110 Gap 2.3 bits
... ----------------------------| p35-p10 4601110 total 6.8 bits
*4601180 *4601190 *4601200 *4601210 *4601220 *4601230 *4601240 *4601250
5′ t a t t g g t t g t g t g a t t t t g c a t t c t g c g g g a a g g g a t a t c a t t t a a t t a t a a a t t a a a t g a a t g t g a t t t t c t g t t t t t c a t 3′
- tyr - trp - leu - cys - asp - phe - ala - phe - cys - gly - lys - gly - tyr - his - leu - ile - ile - asn -
-fMet - asn - val - ile - ser - val - phe - his -
-fMet - ile - leu - his - ser - ala - gly - arg - asp - ile - ile -
-fMet -
-fMet - val - val -
p10 1.1 bits
p10 6.3 bits
p35 4.6 bits
... ------------------------} p35-(21)-p10 4601189 Gap 3.3 bits
p10 4.5 bits
{----------- ... p35-(23)-p10 4
... ------------------------| p35-p10 4601189 total 4.4 bits
p10 1.8 bits
|----------- ... p35-p10 460127
p35 1.4 bits
p35 5.3 bits
{--} p35-(22)-p10 4601213 Gap 2.3 bits
|--| p35-p10 4601213 total 5.4 bits
{--------- ... p35-(24)-p10 4
|--------- ... p35-p10 460127
p35 6.2 bits
{--} p35-(25)-p10 4601218 Gap 4.0 bits
|--| p35-p10 4601218 total 6.7 bits
{---} p35-(26)-p10 4601219 Gap 3.7 bits
|---| p35-p10 4601219 total 4.3 bits
*4601260 *4601270 *4601280 *4601290 *4601300 *4601310 *4601320 *4601330
5′ t a a g t a t t c c t a a c a a c t t a a t g t a g a t a t t t t a a a t g t c t c c a g g c t a t t t c a c c a g g t t a t c a t t g a t g c t a a c c t t c 3′
-fMet - met - leu - thr - phe -
-fMet - ser - pro - gly - tyr - phe - thr - arg - leu - ser - phe - asp - ala - asn - leu - leu -
-fMet -
p10 1.6 bits
sd
... ir


- 3 -
... } p35-(23)-p10 4601274 Gap 1.4 bits
p35 2.5 bits
{ sd-(11)-ir 4601326 Gap 3.0 bits
... | p35-p10 4601274 total 4.8 bits
| sd-ir 4601326 yjjP_yjjQ+ total 5.9 bits
p35 2.2 bits
p10 3.8 bits
p10 6.3 bits
p10 4.5 bits
... } p35-(24)-p10 4601276 Gap 2.4 bits
p35 3.8 bits
... | p35-p10 4601276 total 6.7 bits
{ p35-(25)-p10 4601318 Gap 4.0 bits
p10 5.2 bits
{ p35-(24)-p10 4601331 Gap 2.4 bi
{ p35-(22)-p10 4601285 Gap 2.3 bits
| p35-p10 4601331 total 5.8 bits
| p35-p10 4601285 total 5.1 bits
| p35-p10 4601318 total 4.9 bits
*4601340 *4601350 *4601360 *4601370 *4601380 *4601390 *4601400 *4601410 *
5′ t g a c a c a t g c a g t g g a g t t g t t g t g c a g c a g g a g t a t g c t g a t a t g a a a g t g a a t g c t a a g g a t a a t t t a t t c g c t t a a t c 3′
- - -fMet - gln - trp - ser - cys - cys - ala - ala - gly - val - cys - - - - - - - - - - - - - - - -
- - - - - - - -fMet - gln - gln - glu - tyr - ala - asp - met - lys - val - asn - ala - lys - asp - asn - leu - phe - ala - - -
- thr - his - ala - val - glu - leu - leu - cys - ser - arg - ser - met - leu - ile - - - -fMet - leu - arg - ile - ile - tyr - ser - leu - asn - leu -
... ir yjjP_yjjQ+
ir yjjP_yjjQ+
ir yjjP_yjjQ+
[###> orf 19 codons
[###> orf 5 codons
{ sd-(8)-ir 4601360 Gap 2.4 bits
ir yjjP_yjjQ+
p10 2.6 bits
sd
{ sd-(12)-ir 4601381 Gap 4.0 bits
... p10
| sd-ir 4601360 yjjP_yjjQ+ total 5.5 bits
p35 3.3 bits
sd
{ p35-(23)-p10 4601405 Gap 1.4 bits
p35 2.6 bits
| sd-ir 4601381 yjjP_yjjQ+ total 12.0 bits
{ sd-(18)-ir 4601387 Gap 6.9 bits
| sd-ir 4601387 yjjP_yjjQ+ total 5.7 bits
p10 5.3 bits
p35 2.1 bits
{ p35-(22)-p10 4601373 Gap 2.3 bits
{ p35-(23)-p10 4601415 Gap
| p35-p10 4601373 total 5.6 bits
| p35-p10 4601415 total 5.9
| p35-p10 4601405 total 4.5 bits
*4601420 *4601430 *4601440 *4601450 *4601460 *4601470 *4601480 *4601490 *
5′ t a t t a a t t t g c t g g a a a c a t t t a a g g a a t g a a t a t c c t g a a t a a a c c a t c a t a a t t t t t a g a c a g t g g a t g t g g a g g a a a t 3′
- - - - - - - - - - -fMet - asn - ile - leu - asn - lys - pro - ser - - - - - - - - - - - - - - - -
- - -fMet - leu - glu - thr - phe - lys - glu - - - - - - - - - - - - - - -fMet - asp - val - glu - glu - ile -
- leu - ile - cys - trp - lys - his - leu - arg - asn - glu - tyr - pro - glu - - - - - - - - - - -fMet - trp - arg - lys - tyr -
sd
ir yjjP_yjjQ+
[###> orf 9 codons
... p10


{----------} sd-(14)-ir 4601446 Gap 4.9 bits
p10 5.5 bits
... p10
... p10 5.2 bits
|----------| sd-ir 4601446 yjjP_yjjQ+ total 10.1 bits
p10 4.4 bits
p35 4.3 bits
p10 2.2 bits
p35 3.8 bits
{----------} p35-(22)-p10 4601449 Gap 2.3 bits
|----------| p35-p10 4601449 total 4.2 bits
{----------} p35-(23)-p10 4601497 Ga
|----------| p35-p10 4601497 total 4
p35 4.3 bits
p10 5.2 bits
p35 3.7 bits
{----------} p35-(21)-p10 4601452 Gap 3.3 bits
|----------| p35-p10 4601452 total 6.2 bits
{---------- ... p35-(24)-p10 4
|---------- ... p35-p10 460150
p35 4.7 bits
p10 2.2 bits
{----------} p35-(22)-p10 4601461 Gap 2.3 bits
|----------| p35-p10 4601461 total 4.5 bits
p35 3.5 bits
{----------} p35-(22)-p10 4601469 Gap 2.3 bits
|----------| p35-p10 4601469 total 6.6 bits
{----------} p35-(24)-p10 4601471 Gap 2.4 bits
|----------| p35-p10 4601471 total 5.4 bits
*4601500 * *4601510 *
5′ a t g t t g c c a g g a t g c t g c a a 3′
-fMet - leu - pro - gly - cys - cys -
- cys - cys - gln - asp - ala - ala -
- val - ala - arg - met - leu - gln -
... p10 2.5 bits
... p10 4.6 bits
[---------- ... NC_000913.yjjQ
... } p35-(24)-p10 4601500 Gap 2.4 bits
... | p35-p10 4601500 total 5.9 bits