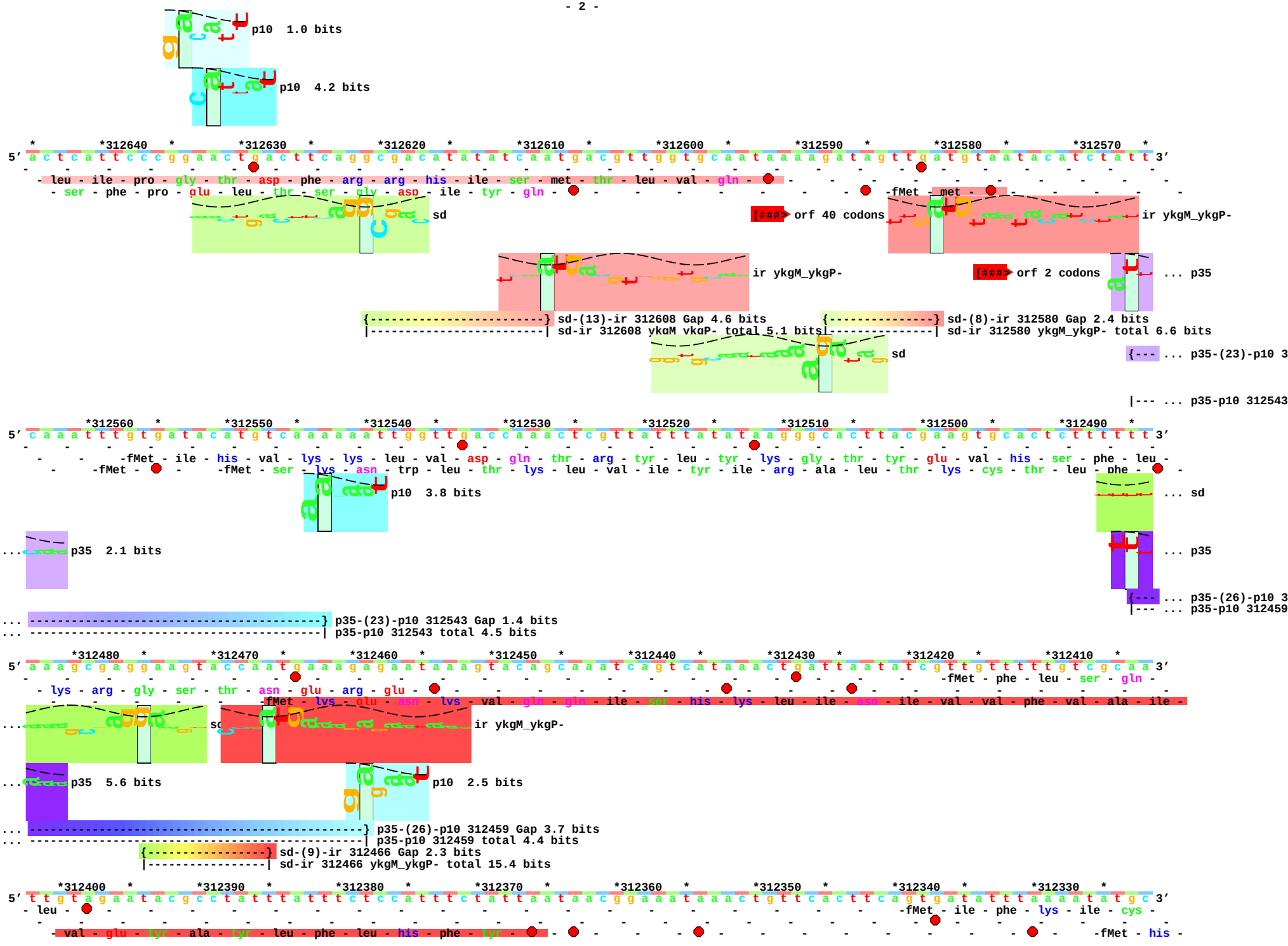
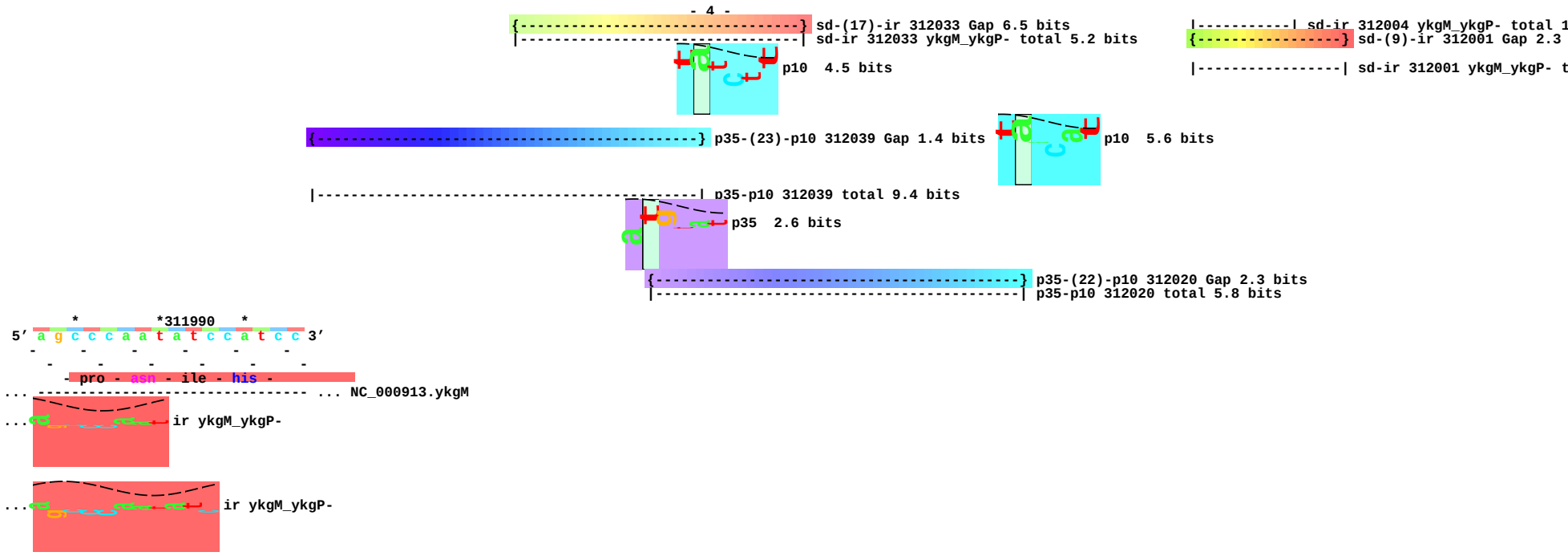
piece 1, NC_000913, ykgM_ykgP-, config: linear, direction: -, begin: 312969, end: 311982


p10 1.0 bits
p10 4.2 bits
5′ a c t c a t t c c c g g a a c t g a c t t c a g g c g a c a t a t c a a t g a c g t t g g t g c a a t a a a a g a t a g t t g a t g t a a t a c a t c t a t t 3′
- leu - ile - pro - gly - thr - asp - phe - arg - arg - his - ile - ser - met - thr - leu - val - gln -
- ser - phe - pro - glu - leu - thr - ser - gly - asp - ile - tyr - gln -
-fMet - met -
sd
orf 40 codons
ir ykgM_ykgP-
orf 2 codons
... p35
sd-(13)-ir 312608 Gap 4.6 bits
sd-ir 312608 ykgM_ykgP- total 5.1 bits
sd-(8)-ir 312580 Gap 2.4 bits
sd-ir 312580 ykgM_ykgP- total 6.6 bits
sd
... p35-(23)-p10 3
... p35-p10 312543
5′ c a a a t t t g t g a t a c a t g t c a a a a a t t g g t t g a c c a a c t c g t t a t t t a t a t a a g g g c a c t t a c g a a g t g c a c t c t t t t t t 3′
-fMet - ile - his - val - lys - lys - leu - val - asp - gln - thr - arg - tyr - leu - tyr - lys - gly - thr - tyr - glu - val - his - ser - phe - leu -
-fMet - -fMet - ser - lys - asn - trp - leu - thr - lys - leu - val - ile - tyr - ile - arg - ala - leu - thr - lys - cys - thr - leu - phe -
p10 3.8 bits
... sd
... p35 2.1 bits
... p35
... p35-(26)-p10 3
... p35-p10 312459
... p35-(23)-p10 312543 Gap 1.4 bits
... p35-p10 312543 total 4.5 bits
5′ a a a g c g a g g a a g t a c c a a t g a a a g a g a a t a a a g t a c a g c a a a t c a g t c a t a a a c t g a t t a a t a t c g t t g t t t t t g t c g c a a 3′
- lys - arg - gly - ser - thr - asn - glu - arg - glu -
-fMet - phe - leu - ser - gln -
-fMet - lys - glu - asn - lys - val - gln - gln - ile - ser - his - lys - leu - ile - asn - ile - val - val - phe - val - ala - ile -
... sd
ir ykgM_ykgP-
... p35 5.6 bits
p10 2.5 bits
... p35-(26)-p10 312459 Gap 3.7 bits
... p35-p10 312459 total 4.4 bits
sd-(9)-ir 312466 Gap 2.3 bits
sd-ir 312466 ykgM_ykgP- total 15.4 bits
5′ t t g t a g a a t a c g c c t a t t t a t t t c t c c a t t t c t a t t a a t a a c g g a a a t a a a c t g t t c a c t t c a g t g a t a t t t a a a a t a t g c 3′
- leu -
-fMet - ile - phe - lys - ile - cys -
- val - glu - tyr - ala - tyr - leu - phe - leu - his - phe - tyr -
-fMet - his -

- 3 -
[###> orf 34 codons
p35 5.6 bits
{---------- ... p35-(22)-p10 3
|---------- ... p35-p10 312310
*312320 *312310 *312300 *312290 *312280 *312270 *312260 *312250 *
5′ atcctctccctttttttgtaagtaattattatatccgtgggagaggaatacacgctgtcaggtaatcaatcatactgcgata 3′
- ile - leu - ser - leu - phe - cys - lys -
- pro - leu - pro - phe - leu -
-fMet - gly - glu - glu - tyr - thr - leu - ser - gly - asn - gln - ser - tyr - cys - asp - lys -
p10 1.3 bits
... ----------} p35-(22)-p10 312310 Gap 2.3 bits
... ----------| p35-p10 312310 total 4.5 bits
*312240 *312230 *312220 *312210 *312200 *312190 *312180 *312170 *312160
5′ aattatcggccagtaaagtggagataacctccattctcgaaaaatccatactctcagcaaaaccatcatcaatcactcatc 3′
- leu - ser - ala - ser - lys - val - glu - ile - thr - ser - ile - leu - glu - lys - ser - ile - leu - ser - ala - lys - pro - ser - ser - ile - thr - his - pro -
... sd
*312150 *312140 *312130 *312120 *312110 *312100 *312090 *312080
5′ caggcgtttatgggagcgtcaccaatggctgctaacaatgccagagttccccgttgcgaaaaattccacatccacaaagagt 3′
-fMet - gly - ala - ser - pro - met - ala - ala - asn - asn - ala - arg - val - pro - arg - cys - glu - asn - ser - thr - ser - thr - lys - ser -
-fMet - pro - glu - phe - pro - val - ala - lys - ile - pro - his - pro - gln - arg - val -
- gly - val - tyr - gly - ser - val - thr - asn - gly - cys -
-fMet - arg - lys - phe - his - ile - his - lys - glu - ser -
... sd
ir ykgM_ykgP-
ir ykgM_ykgP-
{----------} sd-(6)-ir 312150 Gap 4.3 bits
|----------| sd-ir 312150 ykgM_ykgP- total 5.2 bits
sd
{---------------------} sd-(11)-ir 312135 Gap 3.0 bits
|---------------------| sd-ir 312135 ykgM_ykgP- total 6.0 bits
*312070 *312060 *312050 *312040 *312030 *312020 *312010 *312000
5′ cacaggattgagtgttgaaatgatccggatgagcatgtatcttatggttatgttataacataacaggtaaaaatgatga 3′
- his - arg - asp - -fMet - leu - lys -
-fMet - val - met - leu -
- thr - gly - ile - glu - cys -
- gln - gly - leu - ser - val - glu - met - ile - arg - met - ser - met - tyr - leu - tyr - gly - tyr - val - ile - thr -
-fMet - met - lys -
[###> orf 28 codons
ir ykgM_ykgP-
[###> orf 10 codons
[------- ... NC_000913.ykgM
sd
ir ykgM_ykgP-
... ir
p35 6.4 bits
{----------} sd-(7)-ir 312043 Gap 3.7 bits
[###> orf 5 codons
{----------} sd-(6)-ir 312004 Gap 4.3 bits
|----------| sd-ir 312043 ykgM_ykgP- total 6.7 bits
sd
... ir


- 4 -
sd-(17)-ir 312033 Gap 6.5 bits
sd-ir 312033 ykgM_ykgP- total 5.2 bits
sd-ir 312004 ykgM_ykgP- total 1
sd-(9)-ir 312001 Gap 2.3
sd-ir 312001 ykgM_ykgP- t
p10 4.5 bits
p35-(23)-p10 312039 Gap 1.4 bits
p10 5.6 bits
p35-p10 312039 total 9.4 bits
p35 2.6 bits
p35-(22)-p10 312020 Gap 2.3 bits
p35-p10 312020 total 5.8 bits
*311990
5′ a g c c c a a t a t c c a t c c 3′
pro - asn - ile - his -
... NC_000913.ykgM
ir ykgM_ykgP-
ir ykgM_ykgP-