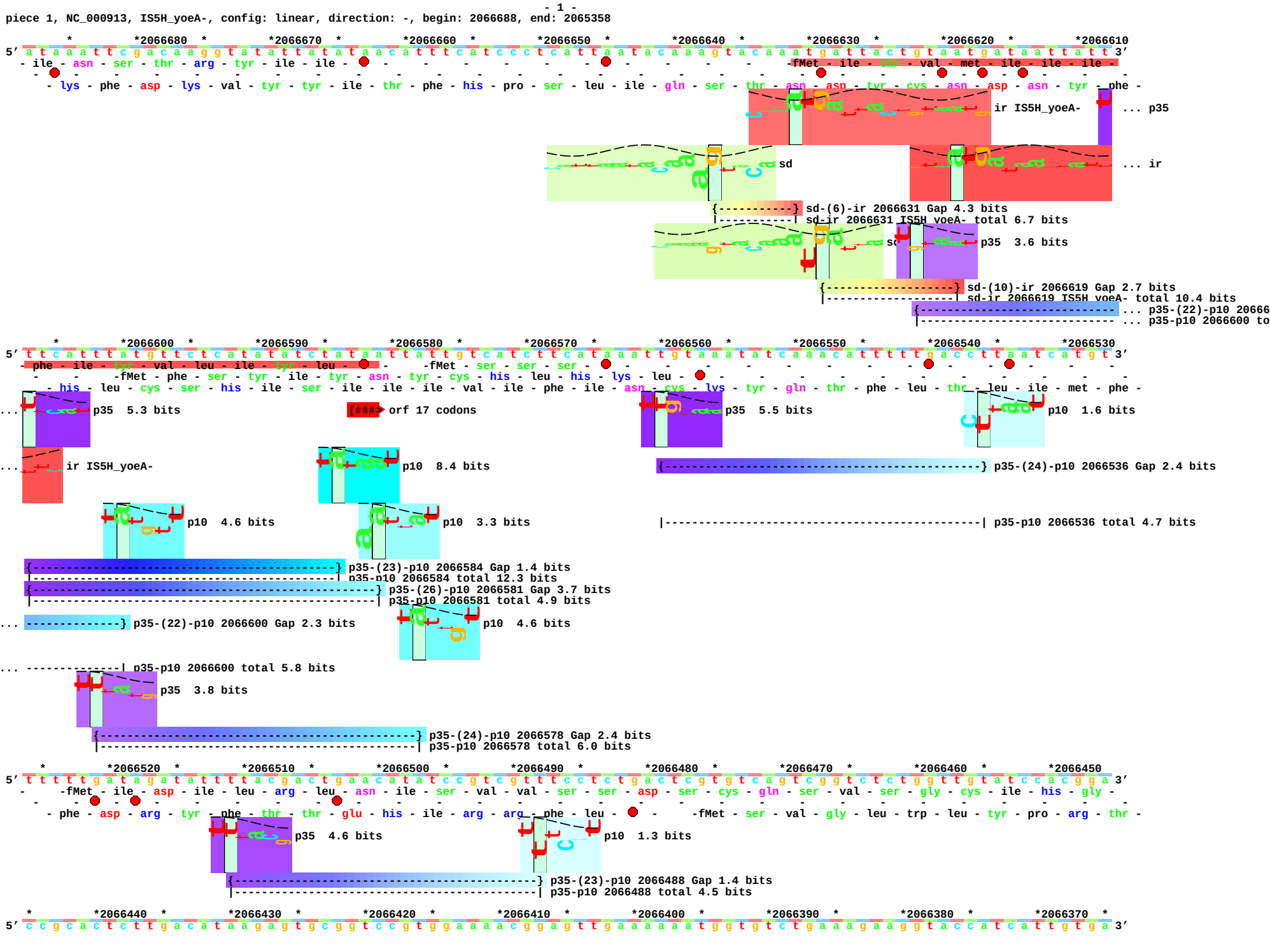
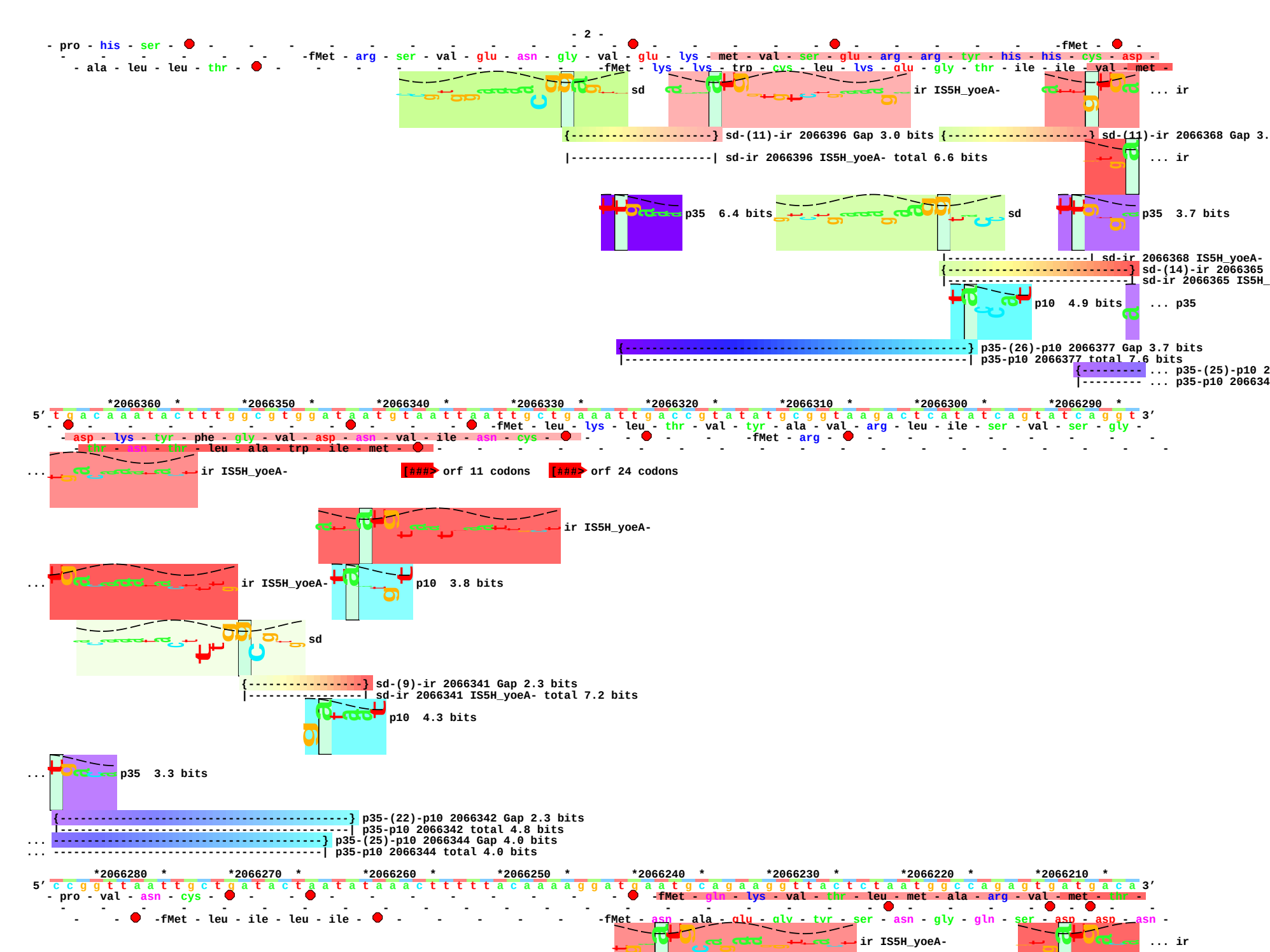
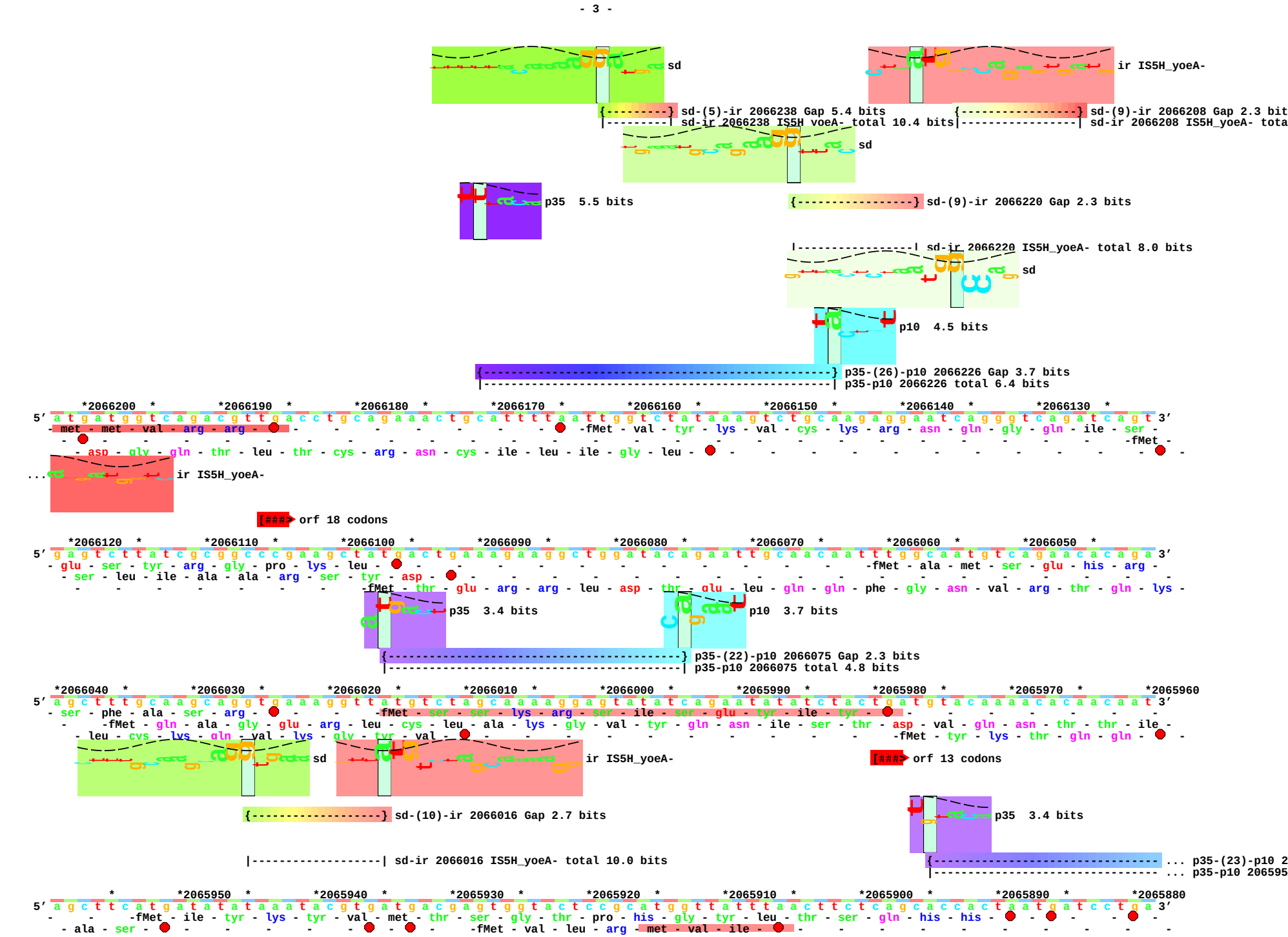
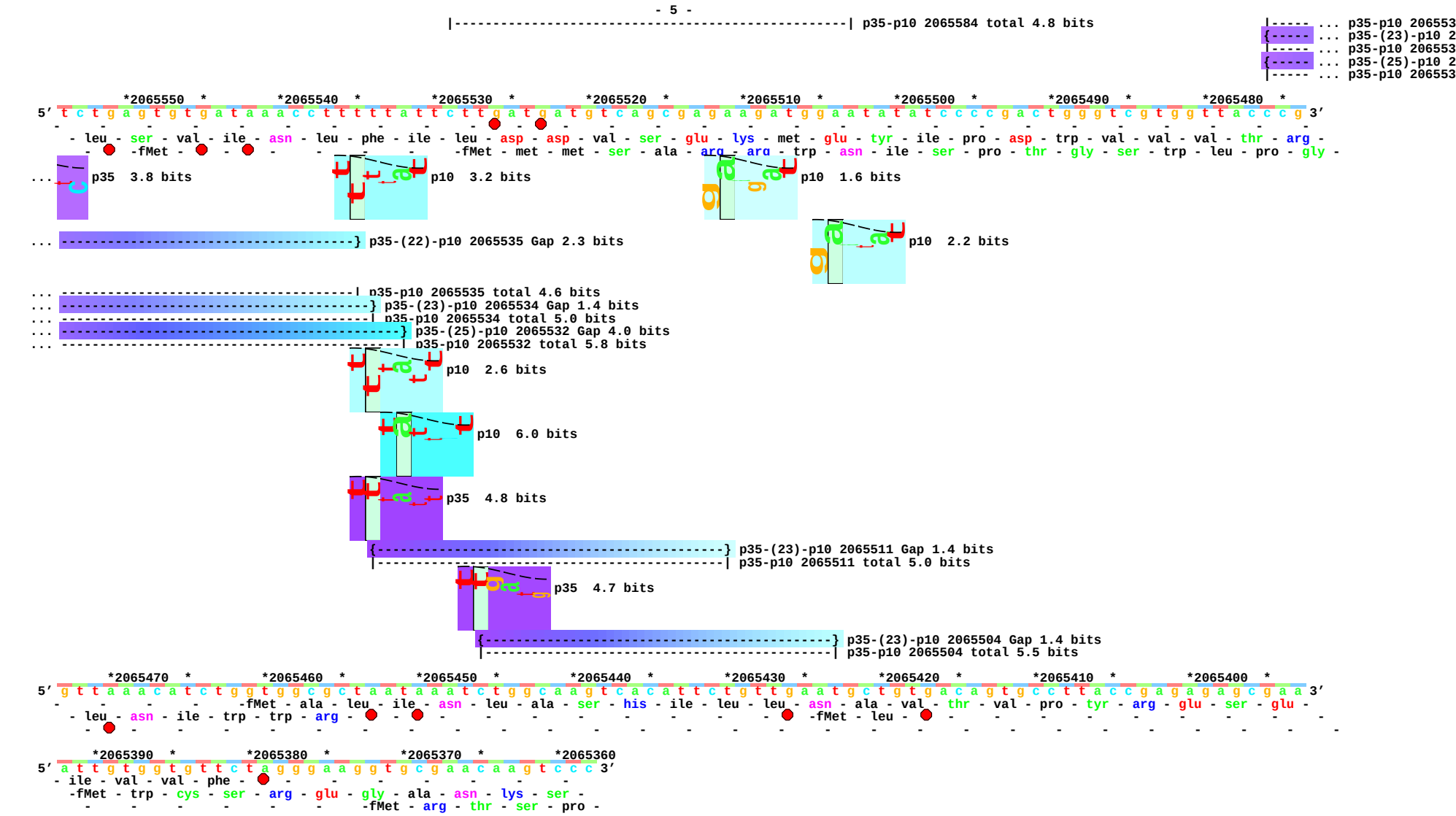
piece 1, NC_000913, IS5H_yoeA-, config: linear, direction: -, begin: 2066688, end: 2065358




- 2 -
- pro - his - ser -
-fMet - arg - ser - val - glu - asn - gly - val - glu - lys - met - val - ser - glu - arg - arg - tyr - his - his - cys - asp -
- ala - leu - leu - thr -
-fMet - lys - lys - trp - cys - leu - lys - glu - gly - thr - ile - ile - val - met -
sd
ir IS5H_yoeA-
... ir
{--------------------} sd-(11)-ir 2066396 Gap 3.0 bits
{--------------------} sd-(11)-ir 2066368 Gap 3.
|--------------------| sd-ir 2066396 IS5H_yoeA- total 6.6 bits
... ir
p35 6.4 bits
sd
p35 3.7 bits
|--------------------| sd-ir 2066368 IS5H_yoeA-
{-------------------------} sd-(14)-ir 2066365
|-------------------------| sd-ir 2066365 IS5H_
p10 4.9 bits
... p35
{--} p35-(26)-p10 2066377 Gap 3.7 bits
|--| p35-p10 2066377 total 7.6 bits
{--------- ... p35-(25)-p10 2
|--------- ... p35-p10 206634
*2066360 *2066350 *2066340 *2066330 *2066320 *2066310 *2066300 *2066290 *
5′ t g a c a a a t a c t t t g g c g t g g a t a a t g t a a t t a a t t g c t g a a a t t g a c c g t a t a t g c g g t a a g a c t c a t a t c a g t a t c a g g t 3′
- asp - lys - tyr - phe - gly - val - asp - asn - val - ile - asn - cys -
- thr - asn - thr - leu - ala - trp - ile - met -
-fMet - leu - lys - leu - thr - val - tyr - ala - val - arg - leu - ile - ser - val - ser - gly -
-fMet - arg -
... ir IS5H_yoeA-
[###> orf 11 codons
[###> orf 24 codons
ir IS5H_yoeA-
... ir IS5H_yoeA-
p10 3.8 bits
sd
{----------------} sd-(9)-ir 2066341 Gap 2.3 bits
|----------------| sd-ir 2066341 IS5H_yoeA- total 7.2 bits
p10 4.3 bits
... p35 3.3 bits
{---} p35-(22)-p10 2066342 Gap 2.3 bits
|---| p35-p10 2066342 total 4.8 bits
... {---------------------------------------} p35-(25)-p10 2066344 Gap 4.0 bits
... |---------------------------------------| p35-p10 2066344 total 4.0 bits
*2066280 *2066270 *2066260 *2066250 *2066240 *2066230 *2066220 *2066210 *
5′ c c g g t t a a t t g c t g a t a c t a a t a t a a a c t t t t t a c a a a a g g a t g a a t g c a g a a g g t t a c t c t a a t g g c c a g a g t g a t g a c a 3′
- pro - val - asn - cys -
-fMet - leu - ile - leu - ile -
-fMet - gln - lys - val - thr - leu - met - ala - arg - val - met - thr -
-fMet - asp - ala - glu - gly - tyr - ser - asn - gly - gln - ser - asp - asp - asn -
ir IS5H_yoeA-
... ir


sd
ir IS5H_yoeA-
{---------} sd-(5)-ir 2066238 Gap 5.4 bits
|---------| sd-ir 2066238 IS5H_yoeA- total 10.4 bits
{----------} sd-(9)-ir 2066208 Gap 2.3 bit
|----------| sd-ir 2066208 IS5H_yoeA- tota
sd
p35 5.5 bits
{----------} sd-(9)-ir 2066220 Gap 2.3 bits
|----------| sd-ir 2066220 IS5H_yoeA- total 8.0 bits
sd
p10 4.5 bits
{----------} p35-(26)-p10 2066226 Gap 3.7 bits
|----------| p35-p10 2066226 total 6.4 bits
*2066200 * *2066190 * *2066180 * *2066170 * *2066160 * *2066150 * *2066140 * *2066130 *
5' a t g a t g g t c a g a c g t t g a c c t g c a g a a a c t g c a t t t t a a t t g g t c t a t a a a g t c t g c a a g a g g a a t c a g g g t c a g a t c a g t 3'
- met - met - val - arg - arg - -fMet - val - tyr - lys - val - cys - lys - arg - asn - gln - gly - gln - ile - ser -
- asp - glu - gln - thr - leu - thr - cys - arg - asn - cys - ile - leu - ile - gly - leu - -fMet -
...
ir IS5H_yoeA-
[###> orf 18 codons
*2066120 * *2066110 * *2066100 * *2066090 * *2066080 * *2066070 * *2066060 * *2066050 *
5' g a g t c t t a t c g c g g c c c g a a g c t a t g a c t g a a a g a a g g c t g g a t a c a g a a t t g c a a c a a t t t g g c a a t g t c a g a a c a c a g a 3'
- glu - ser - tyr - arg - gly - pro - lys - leu - -fMet - ala - met - ser - glu - his - arg -
- ser - leu - ile - ala - ala - arg - ser - tyr - asp - -fMet - thr - glu - arg - arg - leu - asp - thr - glu - leu - gln - gln - phe - gly - asn - val - arg - thr - gln - lys -
p35 3.4 bits
p10 3.7 bits
{----------} p35-(22)-p10 2066075 Gap 2.3 bits
|----------| p35-p10 2066075 total 4.8 bits
*2066040 * *2066030 * *2066020 * *2066010 * *2066000 * *2065990 * *2065980 * *2065970 * *2065960
5' a g c t t t g c a a g c a g g t g a a a g g t t a t g t c t a g c a a a a g g a g t a t a t c a g a a t a t a t c t a c t g a t g t a c a a a a c a c a a c a a t 3'
- ser - phe - ala - ser - arg - -fMet - ser - ser - lys - arg - ser - ile - ser - glu - tyr - ile - tyr -
- -fMet - gln - ala - gly - glu - arg - leu - cys - leu - ala - lys - gly - val - tyr - gln - asn - ile - ser - thr - asp - val - gln - asn - thr - thr - ile -
- leu - cys - lys - gln - val - lys - gly - tyr - val - -fMet - tyr - lys - thr - gln - gln -
sd
ir IS5H_yoeA-
[###> orf 13 codons
{----------} sd-(10)-ir 2066016 Gap 2.7 bits
|----------| sd-ir 2066016 IS5H_yoeA- total 10.0 bits
p35 3.4 bits
{---------- ... p35-(23)-p10 2
|---------- ... p35-p10 206595
* *2065950 * *2065940 * *2065930 * *2065920 * *2065910 * *2065900 * *2065890 * *2065880
5' a g c t t c a t g a t a t a t a a a t a c g t g a t g a c g a g t g g t a c t c c g c a t g g t t a t t t a a c t t c t c a g c a c c a c t a a t g a t c c t g a 3'
- ala - ser - -fMet - val - leu - arg - met - val - ile -

-fMet - ile - leu - ser -
p10 3.6 bits
ir IS5H_yoeA-
sd
[###> orf 4 codons
... ----------} p35-(23)-p10 2065953 Gap 1.4 bits
... ----------| p35-p10 2065953 total 5.6 bits
{----------} sd-(9)-ir 2065916 Gap 2.3 bits
|----------| sd-ir 2065916 IS5H_yoeA- total 5.3 bits
*2065870 *2065860 *2065850 *2065840 *2065830 *2065820 *2065810 *2065800
5' g c a a c t t c g t a t t t g g g c c a t t a c c a t g g a g t a g a a a g c t g t g t c t g a g a a t g c a g a a t t t g a g a a a a g a a t t c g c t t t c t 3'
-fMet - gly - his - tyr - his - gly - val - glu - ser - cys - val -
-fMet - glu - -fMet - ser - glu - asn - ala - glu - phe - glu - lys - arg - ile - arg - phe - leu -
- asn - phe - val - phe - gly - pro - leu - pro - trp - ser - arg - lys - leu - cys - leu - arg - met - gln - asn - leu - arg - lys - glu - phe - ala - phe - leu -
sd
ir IS5H_yoeA-
{----------} sd-(12)-ir 2065838 Gap 4.0 bits
|----------| sd-ir 2065838 IS5H_yoeA- total 6.1 bits
*2065790 *2065780 *2065770 *2065760 *2065750 *2065740 *2065730 *2065720
5' t g g a g a g c t t c t g a a a a t g g c a c g c t a a c a a c g t t t t g t t a a a a a a t g t g a a t c a c t t g c c g g g g c t g c a t t t t c t a t t c g 3'
-fMet -
- gly - glu - leu - leu - lys - met - ala - arg -
- glu - ser - phe -
-fMet - leu - lys - asn - val - asn - his - leu - pro - gly - leu - his - phe - leu - phe - glu -
[###> orf 23 codons
... sd
*2065710 *2065700 *2065690 *2065680 *2065670 *2065660 *2065650 *2065640
5' a g g a g a a t g t t g a c g t a g a t t a c a g a a a t c t c a g c g c a t c a g g a t a a a c t g c t a c c t t a g g t c a a c c a c c a a a a g a a a a 3'
-fMet - leu - thr -
- glu - asn - val - asp - val - asp - ile - thr - glu - ile - ser - ala - his - gln - asp - lys - leu - leu - pro -
... sd
[###> orf 4 codons
p10 6.5 bits
ir IS5H_yoeA-
{-------} sd-(4)-ir 2065710 Gap 9.3 bits
|-------| sd-ir 2065710 IS5H_yoeA- total 5.7 bits
ir IS5H_yoeA-
{----------} sd-(7)-ir 2065707 Gap 3.7 bits
|----------| sd-ir 2065707 IS5H_yoeA- total 8.5 bits
p35 2.4 bits
{----------} p35-(26)-p10 2065669 Gap 3.7 bits
|----------| p35-p10 2065669 total 5.2 bits
*2065630 *2065620 *2065610 *2065600 *2065590 *2065580 *2065570 *2065560
5' t a c a a t a c g t c c a g t t t g t a t g c c t t t a a t a a c a c a t c t t c t a a a t g t t g a a g a a t t a t c c c g c c t g c t g a a g a a c g t t g c 3'
-fMet - tyr - ala - phe - asn - asn - thr - ser - ser - lys - cys -
-fMet - pro - leu - ile - thr - his - leu - leu - asn - val - glu - glu - leu - ser - arg - leu - leu - lys - asn - val - ala -
-fMet - leu - lys - asn - tyr - pro - ala - cys -
-fMet - leu -
p35 5.7 bits
p10 2.8 bits
... p35
{----------} p35-(26)-p10 2065584 Gap 3.7 bits
{----- ... p35-(22)-p10 2


|----------| p35-p10 2065584 total 4.8 bits
|----- ... p35-p10 206553
{----- ... p35-(23)-p10 2
|----- ... p35-p10 206553
{----- ... p35-(25)-p10 2
|----- ... p35-p10 206553
*2065550 * *2065540 * *2065530 * *2065520 * *2065510 * *2065500 * *2065490 * *2065480 *
5' t c t g a g t g t g a t a a a c c t t t t t a t t c t t g a t g a t g t c a g c g a g a a g a t g g a a t a t a t c c c c g a c t g g g t c g t g g t t a c c c g 3'
- leu - ser - val - ile - asn - leu - phe - ile - leu - asp - asp - val - ser - glu - lys - met - glu - tyr - ile - pro - asp - trp - val - val - val - thr - arg -
-fMet - -fMet - met - met - ser - ala - arg - arg - trp - asn - ile - ser - pro - thr - gly - ser - trp - leu - pro - gly -
... p35 3.8 bits
p10 3.2 bits
p10 1.6 bits
... } p35-(22)-p10 2065535 Gap 2.3 bits
p10 2.2 bits
... | p35-p10 2065535 total 4.6 bits
... } p35-(23)-p10 2065534 Gap 1.4 bits
... | p35-p10 2065534 total 5.0 bits
... } p35-(25)-p10 2065532 Gap 4.0 bits
... | p35-p10 2065532 total 5.8 bits
p10 2.6 bits
p10 6.0 bits
p35 4.8 bits
{----------} p35-(23)-p10 2065511 Gap 1.4 bits
|----------| p35-p10 2065511 total 5.0 bits
p35 4.7 bits
{----------} p35-(23)-p10 2065504 Gap 1.4 bits
|----------| p35-p10 2065504 total 5.5 bits
*2065470 * *2065460 * *2065450 * *2065440 * *2065430 * *2065420 * *2065410 * *2065400 *
5' g t t a a a c a t c t g g t g g c g c t a a t a a a t c t g g c a a g t c a c a t t c t g t t g a a t g c t g t g a c a g t g c c t t a c c g a g a g a g c g a a 3'
-fMet - ala - leu - ile - asn - leu - ala - ser - his - ile - leu - leu - asn - ala - val - thr - val - pro - tyr - arg - glu - ser - glu -
- leu - asn - ile - trp - trp - arg - -fMet - leu -
*2065390 * *2065380 * *2065370 * *2065360
5' a t t g t g g t g t t c t a g g g a a g g t g c g a a c a a g t c c c 3'
- ile - val - val - phe -
-fMet - trp - cys - ser - arg - glu - gly - ala - asn - lys - ser -
-fMet - arg - thr - ser - pro -