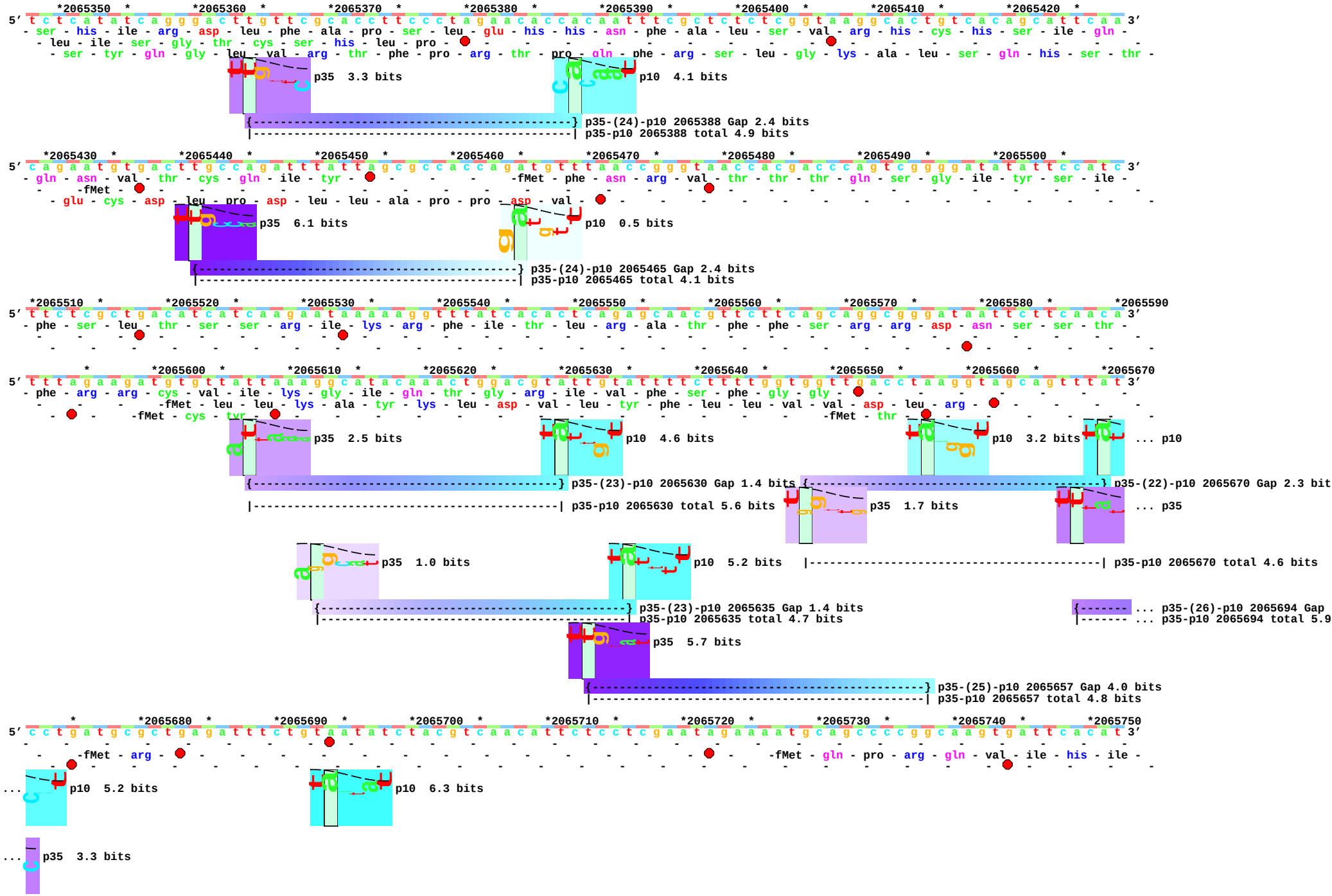
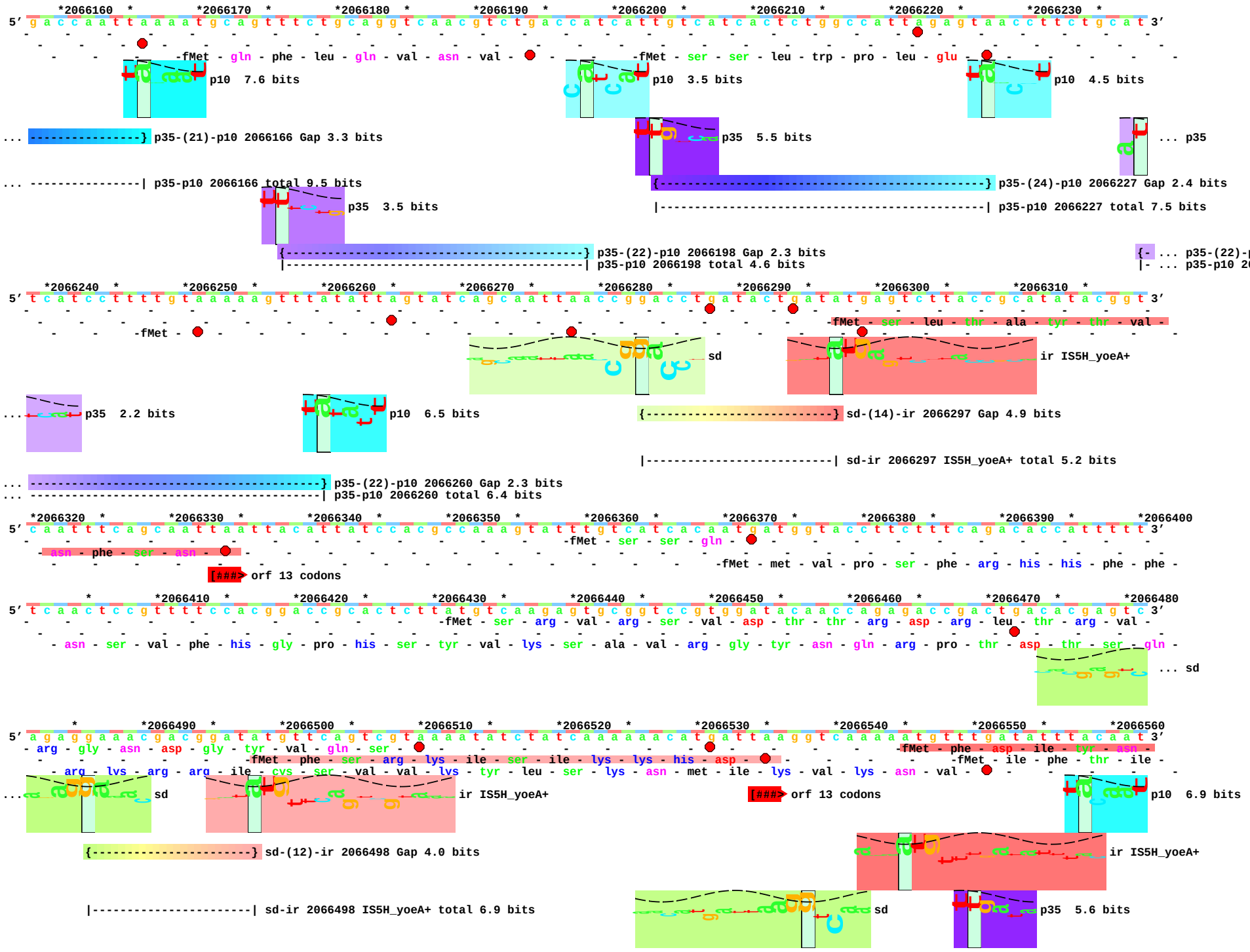
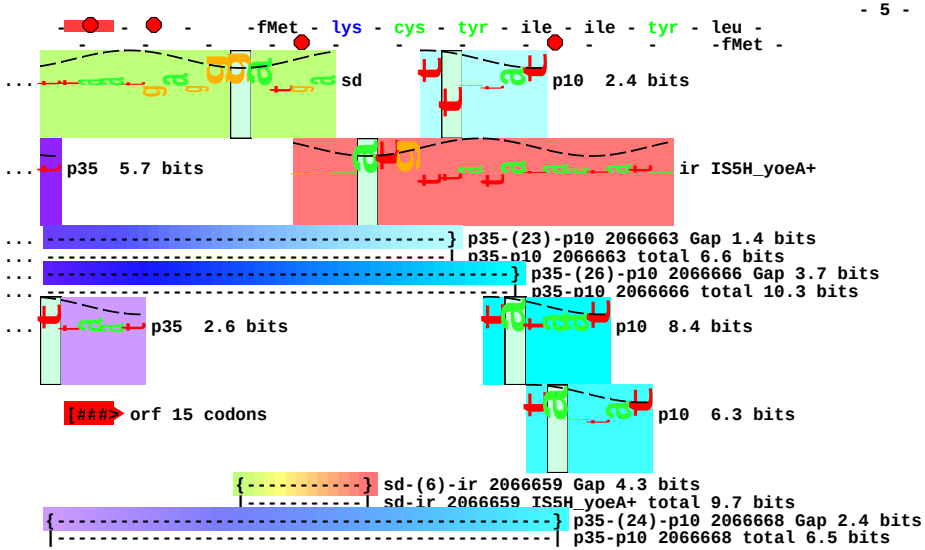
piece 1, NC_000913, IS5H_yoeA+, config: linear, direction: +, begin: 2065348, end: 2066678



... ----------} p35-(26)-p10 2065694 Gap 3.7 bits
... ----------| p35-p10 2065694 total 5.9 bits
*2065760 *2065770 *2065780 *2065790 *2065800 *2065810 *2065820 *2065830
5′ t t t t t a a c a a a a c g t t g t t a g c g t g c c a t t t t c a g a a g c t c t c c a a g a a a g c g a a t t c t t t t c t c a a a t t c t g c a t t c t c a 3′
- phe - - - - - - - -fMet - pro - phe - ser - glu - ala - leu - gln - glu - ser - glu - phe - phe - ser - gln - ile - leu - his - ser - gln -
-fMet - leu - ala - cys - his - phe - gln - lys - leu - ser - lys - lys - ala - asn - ser - phe - leu - lys - phe - cys - ile - leu - arg -
p35 4.1 bits
p10 2.3 bits
p10 2.2 bits
{----------} p35-(24)-p10 2065780 Gap 2.4 bits
|----------| p35-p10 2065780 total 4.0 bits
p35 4.3 bits
{----------} p35-(24)-p10 2065807 Gap 2.4 bits
|----------| p35-p10 2065807 total 4.1 bits
*2065840 *2065850 *2065860 *2065870 *2065880 *2065890 *2065900 *2065910
5′ g a c a c a g c t t t c t a c t c c a t g g t a a t g g c c c a a a t a c g a a g t t g c t c a g g a t c a t t a g t g g t g c t g a g a a g t t a a a t a a c c 3′
-fMet - val - met - ala - gln - ile - arg - ser - cys - ser - gly - ser - leu - val - val - leu - arg - ser -
- thr - gln - leu - ser - thr - pro - trp -
- his - ser - phe - leu - leu - his - gly - asn - gly - pro - asn - thr - lys - leu - leu - arg - ile - ile - ser - gly - ala - glu - lys - leu - asn - asn - his -
*2065920 *2065930 *2065940 *2065950 *2065960 *2065970 *2065980 *2065990
5′ a t g c g g a g t a c c a c t c g t c a t c a c g t a t t t a t a t c a t g a a g c t a t t g t t g t g t t t t g t a c a t c a g t a g a t a t a t t c t g a 3′
-fMet - arg - ser - thr - thr - arg - his - his - val - phe - ile - tyr - his - glu - ala - ile - val - val - phe - cys - thr - ser - val - asp - ile - phe -
-fMet - lys - leu - leu - leu - cys - phe - val - his - gln -
- ala - glu - tyr - his - ser - ser - ser - arg - ile - tyr - ile - ser -
-fMet - tyr - ile - ser - arg - tyr - ile - leu - ile -
p35 3.8 bits
p10 6.5 bits
{----------} p35-(22)-p10 2065987 Gap 2.3 bits
|----------| p35-p10 2065987 total 8.0 bits
p35 3.4 bits
p10 6.0 bits
{----------} p35-(24)-p10 2065989 Gap 2.4 bits
|----------| p35-p10 2065989 total 7.4 bits
{---------- ... p35-(24)-p10 2065997 Gap
|---------- ... p35-p10 2065997 total 8.3
*2066000 *2066010 *2066020 *2066030 *2066040 *2066050 *2066060 *2066070
5′ t a t a c t c c t t t t g c t a g a c a t a a c c t t t c a c c t g c t t g c a a a g c t t c t g t g t t c t g a c a t t g c c a a a t t g t t g c a a t t c t g 3′
-fMet - phe -
-fMet - leu - asp - ile - thr - phe - his - leu - leu - ala - lys - leu - leu - cys - ser - asp - ile - ala - lys - leu - leu - gln - phe - cys -
- tyr - ser - phe - cys -
-fMet - gln - ser - phe - cys - val - leu - thr - leu - pro - asn - cys - cys - asn - ser - val -
p10 7.3 bits
p35 6.1 bits
{---------- ... p35-(24)-p10 2066091 Gap
|---------- ... p35-p10 2066091 total 4.2
... --} p35-(24)-p10 2065997 Gap 2.4 bits
... --| p35-p10 2065997 total 8.3 bits
*2066080 *2066090 *2066100 *2066110 *2066120 *2066130 *2066140 *2066150
5′ t a t c c a g c c t t c t t t t c a g t c a t a g c t t c g g g c c g c g a t a a g a c t c a c t g a t c t g a c c c t g a t t c c t c t t g c a g a c t t t a t a 3′
- ile - gln - pro - ser - phe - ser - his - ser - phe - gly - pro - arg -
-fMet - gln - thr - leu -
- ser - ser - leu - leu - ser - val - ile - ala - ser - gly - arg - asp - lys - thr - his -
p10 0.5 bits
p35 5.2 bits
... ----------} p35-(24)-p10 2066091 Gap 2.4 bits
... ----------| p35-p10 2066091 total 4.2 bits
{---------- ... p35-(21)-p10 2066166 Gap
|---------- ... p35-p10 2066166 total 9.5


*2066160 * *2066170 * *2066180 * *2066190 * *2066200 * *2066210 * *2066220 * *2066230 *
5' g a c c a a t t a a a a t g c a g t t t c t g c a g g t c a a c g t c t g a c c a t c a t t g t c a t c a c t c t g g c c a t t a g a g t a a c c t t c t g c a t 3'
-fMet - gln - phe - leu - gln - val - asn - val -
-fMet - ser - ser - leu - trp - pro - leu - glu -
p10 7.6 bits
p10 3.5 bits
p10 4.5 bits
... p35-(21)-p10 2066166 Gap 3.3 bits
... p35-p10 2066166 total 9.5 bits
p35 5.5 bits
... p35
p35-(24)-p10 2066227 Gap 2.4 bits
p35-p10 2066227 total 7.5 bits
p35 3.5 bits
p35-(22)-p10 2066198 Gap 2.3 bits
p35-p10 2066198 total 4.6 bits
{- ... p35-(22)-p10 2066260 Gap
|- ... p35-p10 2066260 total 6.4
*2066240 * *2066250 * *2066260 * *2066270 * *2066280 * *2066290 * *2066300 * *2066310 *
5' t c a t c c t t t t g t a a a a a g t t t a t a t t a g t a t c a g c a a t t a a c c g g a c c t g a t a c t g a t a t g a g t c t t a c c g c a t a t a c g g t 3'
-fMet -
-fMet - ser - leu - thr - ala - tyr - thr - val -
sd
ir IS5H_yoeA+
p35 2.2 bits
p10 6.5 bits
sd-(14)-ir 2066297 Gap 4.9 bits
sd-ir 2066297 IS5H_yoeA+ total 5.2 bits
... p35-(22)-p10 2066260 Gap 2.3 bits
... p35-p10 2066260 total 6.4 bits
*2066320 * *2066330 * *2066340 * *2066350 * *2066360 * *2066370 * *2066380 * *2066390 * *2066400
5' c a a t t t c a g c a a t t a a t t a c a t t a t c c a c g c c a a a g t a t t t g t c a t c a c a a t g a t g g t a c c t t c t t t c a g a c a c c a t t t t t 3'
-fMet - ser - ser - gln -
- asn - phe - ser - asn -
-fMet - met - val - pro - ser - phe - arg - his - his - phe - phe -
[###> orf 13 codons
* *2066410 * *2066420 * *2066430 * *2066440 * *2066450 * *2066460 * *2066470 * *2066480
5' t c a a c t c c g t t t t c c a c g g a c c g c a c t c t t a t g t c a a g a g t g c g g t c c g t g g a t a c a a c c a g a g a c c g a c t g a c a c g a g t c 3'
-fMet - ser - arg - val - arg - ser - val - asp - thr - thr - arg - asp - arg - leu - thr - arg - val -
- asn - ser - val - phe - his - gly - pro - his - ser - tyr - val - lys - ser - ala - val - arg - gly - tyr - asn - gln - arg - pro - thr - asp - thr - ser - gln -
... sd
* *2066490 * *2066500 * *2066510 * *2066520 * *2066530 * *2066540 * *2066550 * *2066560
5' a g a g g a a a c g a c g g a t a t g t t c a g t c g t a a a a t a t c t a t c a a a a a a c a t g a t t a a g g t c a a a a a t g t t t g a t a t t t a c a a t 3'
- arg - gly - asn - asp - gly - tyr - val - gln - ser -
-fMet - phe - asp - ile - tyr - asn -
-fMet - phe - ser - arg - lys - ile - ser - ile - lys - lys - his - asp -
-fMet - ile - phe - thr - ile -
- arg - lys - arg - arg - ile - cys - ser - val - val - lys - tyr - leu - ser - lys - asn - met - ile - lys - val - lys - asn - val -
sd
ir IS5H_yoeA+
[###> orf 13 codons
p10 6.9 bits
sd-(12)-ir 2066498 Gap 4.0 bits
ir IS5H_yoeA+
sd-ir 2066498 IS5H_yoeA+ total 6.9 bits
sd
p35 5.6 bits

p35 1.2 bits
p10 7.6 bits
{-------------} sd-(7)-ir 2066545 Gap 3.7 bits
{--} p35-(25)-p10 2066510 Gap 4.0 bits
|-------------| sd-ir 2066545 IS5H_yoeA+ total 9.8 bits
|--| p35-p10 2066510 total 4.8 bits
p35 1.6 bits
{---------------------- ... p35-(24)-p10 2066574 Gap
{--} p35-(25)-p10 2066558 Gap 4.0 bits
|--| p35-p10 2066558 total 4.5 bits
|---------------------- ... p35-p10 2066574 total 6.0
p35 5.5 bits
{------------- ... p35-(21)-p10 2066577 Gap
|------------- ... p35-p10 2066577 total 6.8
{------------- ... p35-(24)-p10 2066580 Gap
|------------- ... p35-p10 2066580 total 6.4
* *2066570 * *2066580 * *2066590 * *2066600 * *2066610 * *2066620 * *2066630 * *2066640
5' t t a t g a a g a t g a c a a t a a t t a t a g a t a t a t g a g a a c a t a a a t g a a a a t a a t t a t c a t t a c a g t a a t c a t t t g t a c t t t g t a 3'
- leu -fMet - tyr - phe - val -
- tyr - glu - asp - asp - asn - asn - tyr - arg - tyr - met - arg - thr - -fMet - lys - ile - ile - ile - ile - thr - val - ile - ile - cys - thr - leu - tyr -
-fMet - lys - met - thr - ile - ile - ile - asp - ile - - - - - - - - - - - - - - - - -
[###> orf 8 codons
ir IS5H_yoeA+
p10 6.3 bits
... sd
sd
[###> orf 4 codons
p10 2.6 bits
... p35
p10 2.9 bits
{---------} sd-(5)-ir 2066591 Gap 5.4 bits
{------- ... p35-(23)-p10 2066663 Gap
|---------| sd-ir 2066591 IS5H_yoeA+ total 6.8 bits
|------- ... p35-p10 2066663 total 6.6
sd
ir IS5H_yoeA+
{------- ... p35-(26)-p10 2066666 Gap
... ----------------------} p35-(24)-p10 2066574 Gap 2.4 bits
{-------------------} sd-(10)-ir 2066603 Gap 2.7 bits
|------- ... p35-p10 2066666 total 10.
p10 4.6 bits
|-------------------| sd-ir 2066603 IS5H_yoeA+ total 12.0 bits
... p35
p10 3.3 bits
{--} p35-(23)-p10 2066615 Gap 1.4 bits
... ----------------------| p35-p10 2066574 total 6.0 bits
p35 1.5 bits
{--} p35-(23)-p10 2066627 Gap 1.4 bits
|--| p35-p10 2066615 total 6.4 bits
... ---------------------------} p35-(21)-p10 2066577 Gap 3.3 bits
p35 3.3 bits
... ---------------------------| p35-p10 2066577 total 6.8 bits
|--| p35-p10 2066627 total 4.5 bits
... ---------------------------------} p35-(24)-p10 2066580 Gap 2.4 bits
... ---------------------------------| p35-p10 2066580 total 6.4 bits
* *2066650 * *2066660 * *2066670 *
5' t t a a t g a g g g a t g a a a t g t t a t a t a a t a t a c c t t g 3'
- leu - met - arg - asp - glu - met - leu - tyr - asn - ile - pro -


-fMet - lys - cys - tyr - ile - ile - tyr - leu -
-fMet -
sd
p10 2.4 bits
p35 5.7 bits
ir IS5H_yoeA+
p35-(23)-p10 2066663 Gap 1.4 bits
p35-p10 2066663 total 6.6 bits
p35-(26)-p10 2066666 Gap 3.7 bits
p35-p10 2066666 total 10.3 bits
p35 2.6 bits
p10 8.4 bits
orf 15 codons
p10 6.3 bits
sd-(6)-ir 2066659 Gap 4.3 bits
sd-ir 2066659 IS5H_yoeA+ total 9.7 bits
p35-(24)-p10 2066668 Gap 2.4 bits
p35-p10 2066668 total 6.5 bits