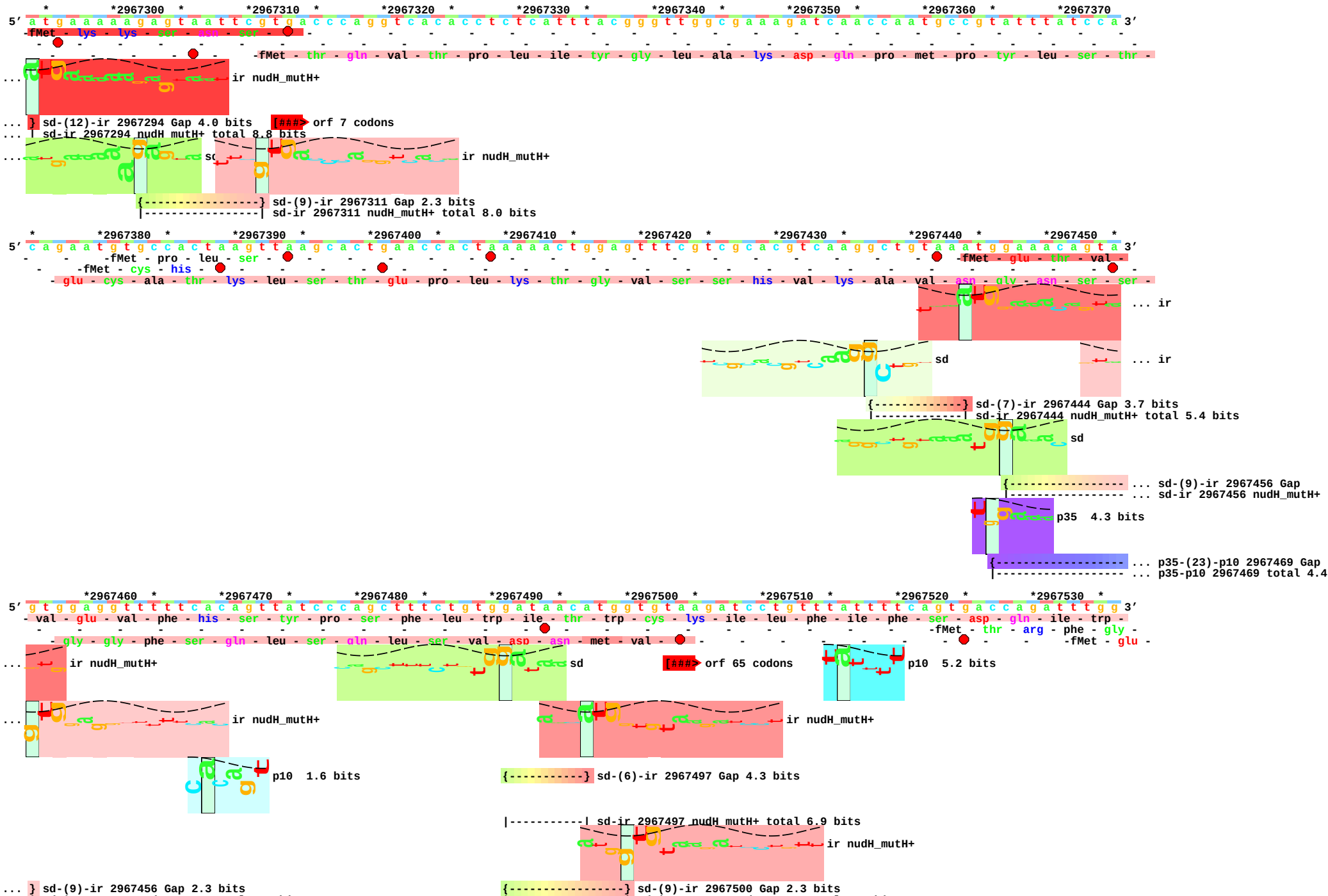
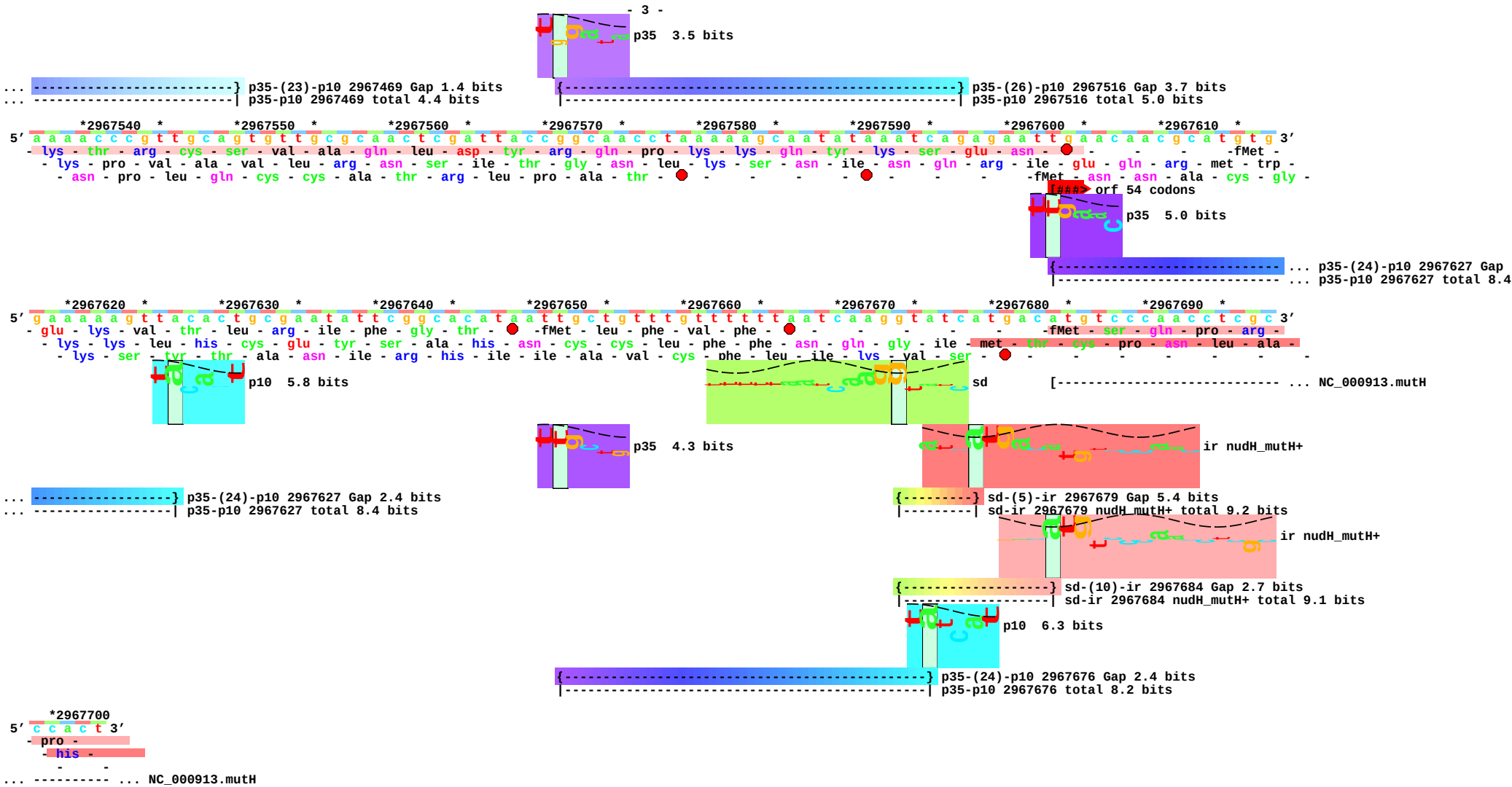
piece 1, NC_000913, nudH_mutH+, config: linear, direction: +, begin: 2966970, end: 2967703


*2967300 *2967310 *2967320 *2967330 *2967340 *2967350 *2967360 *2967370
5′ a t g a a a a a g a g t a a t t c g t g a c c c a g g t c a c a c c t c t c a t t t a c g g g t t g g c g a a a g a t c a a c c a a t g c c g t a t t t a t c c a 3′
-fMet - lys - lys - ser - asn - ser -
-fMet - thr - gln - val - thr - pro - leu - ile - tyr - gly - leu - ala - lys - asp - gln - pro - met - pro - tyr - leu - ser - thr -
... ir nudH_mutH+
... } sd-(12)-ir 2967294 Gap 4.0 bits
... | sd-ir 2967294 nudH_mutH+ total 8.8 bits
orf 7 codons
... ir nudH_mutH+
{----------} sd-(9)-ir 2967311 Gap 2.3 bits
|----------| sd-ir 2967311 nudH_mutH+ total 8.0 bits
*2967380 *2967390 *2967400 *2967410 *2967420 *2967430 *2967440 *2967450
5′ c a g a a t g t g c c a c t a a g t t a a g c a c t g a a c c a c t a a a a a c t g g a g t t t c g t c g c a c g t c a a g g c t g t a a a t g g a a a c a g t a 3′
-fMet - pro - leu - ser -
-fMet - cys - his -
-fMet - glu - thr - val -
- glu - cys - ala - thr - lys - leu - ser - thr - glu - pro - leu - lys - thr - gly - val - ser - ser - his - val - lys - ala - val - asn - gly - asn - ser - ser -
... ir
sd
... ir
{----------} sd-(7)-ir 2967444 Gap 3.7 bits
|----------| sd-ir 2967444 nudH_mutH+ total 5.4 bits
sd
{---------- ... sd-(9)-ir 2967456 Gap
|---------- ... sd-ir 2967456 nudH_mutH+
p35 4.3 bits
{---------- ... p35-(23)-p10 2967469 Gap
|---------- ... p35-p10 2967469 total 4.4
*2967460 *2967470 *2967480 *2967490 *2967500 *2967510 *2967520 *2967530
5′ g t g g a g g t t t t t c a c a g t t a t c c c a g c t t t c t g t g g a t a a c a t g g t g t a a g a t c c t g t t t a t t t t c a g t g a c c a g a t t t g g 3′
- val - glu - val - phe - his - ser - tyr - pro - ser - phe - leu - trp - ile - thr - trp - cys - lys - ile - leu - phe - ile - phe - ser - asp - gln - ile - trp -
- gly - gly - phe - ser - gln - leu - ser - gln - leu - ser - val - asp - asn - met - val -
-fMet - thr - arg - phe - gly -
-fMet - glu -
... ir nudH_mutH+
sd
orf 65 codons
p10 5.2 bits
... ir nudH_mutH+
ir nudH_mutH+
p10 1.6 bits
{----------} sd-(6)-ir 2967497 Gap 4.3 bits
|----------| sd-ir 2967497 nudH_mutH+ total 6.9 bits
ir nudH_mutH+
... } sd-(9)-ir 2967456 Gap 2.3 bits
... | sd-ir 2967456 nudH_mutH+ total 6.3 bits
{----------} sd-(9)-ir 2967500 Gap 2.3 bits
|----------| sd-ir 2967500 nudH_mutH+ total 7.5 bits


- 3 -
p35 3.5 bits
... ----------} p35-(23)-p10 2967469 Gap 1.4 bits
... ----------| p35-p10 2967469 total 4.4 bits
{----------} p35-(26)-p10 2967516 Gap 3.7 bits
|----------| p35-p10 2967516 total 5.0 bits
*2967540 *2967550 *2967560 *2967570 *2967580 *2967590 *2967600 *2967610 *
5' a a a a c c c g t t g c a g t g t t g c g c a a c t c g a t t a c c g g c a a c c t a a a a a g c a a t a t a a a t c a g a g a a t t g a a c a a c g c a t g t g 3'
- lys - thr - arg - cys - ser - val - ala - gln - leu - asp - tyr - arg - gln - pro - lys - lys - gln - tyr - lys - ser - glu - asn - -fMet -
- lys - pro - val - ala - val - leu - arg - asn - ser - ile - thr - gly - asn - leu - lys - ser - asn - ile - asn - gln - arg - ile - glu - gln - arg - met - trp -
- asn - pro - leu - gln - cys - cys - ala - thr - arg - leu - pro - ala - thr - -fMet - asn - asn - ala - cys - gly -
[###> orf 54 codons
p35 5.0 bits
{---------- ... p35-(24)-p10 2967627 Gap
|---------- ... p35-p10 2967627 total 8.4
*2967620 *2967630 *2967640 *2967650 *2967660 *2967670 *2967680 *2967690 *
5' g a a a a a g t t a c a c t g c g a a t a t t c g g c a c a t a a t t g c t g t t t g t t t t t a a t c a a g g t a t c a t g a c a t g t c c c a a c c t c g c 3'
- glu - lys - val - thr - leu - arg - ile - phe - gly - thr - -fMet - leu - phe - val - phe - -fMet - ser - gln - pro - arg -
- lys - lys - leu - his - cys - glu - tyr - ser - ala - his - asn - cys - cys - leu - phe - phe - asn - gln - gly - ile - met - thr - cys - pro - asn - leu - ala -
- lys - ser - tyr - thr - ala - asn - ile - arg - his - ile - ile - ala - val - cys - phe - leu - ile - lys - val - ser -
p10 5.8 bits
sd [---------- ... NC_000913.mutH
p35 4.3 bits
ir nudH_mutH+
... ----------} p35-(24)-p10 2967627 Gap 2.4 bits
... ----------| p35-p10 2967627 total 8.4 bits
{---------} sd-(5)-ir 2967679 Gap 5.4 bits
|---------| sd-ir 2967679 nudH_mutH+ total 9.2 bits
ir nudH_mutH+
{----------} sd-(10)-ir 2967684 Gap 2.7 bits
|----------| sd-ir 2967684 nudH_mutH+ total 9.1 bits
p10 6.3 bits
{----------} p35-(24)-p10 2967676 Gap 2.4 bits
|----------| p35-p10 2967676 total 8.2 bits
*2967700
5' c c a c t 3'
- pro -
- his -
... ---------- ... NC_000913.mutH