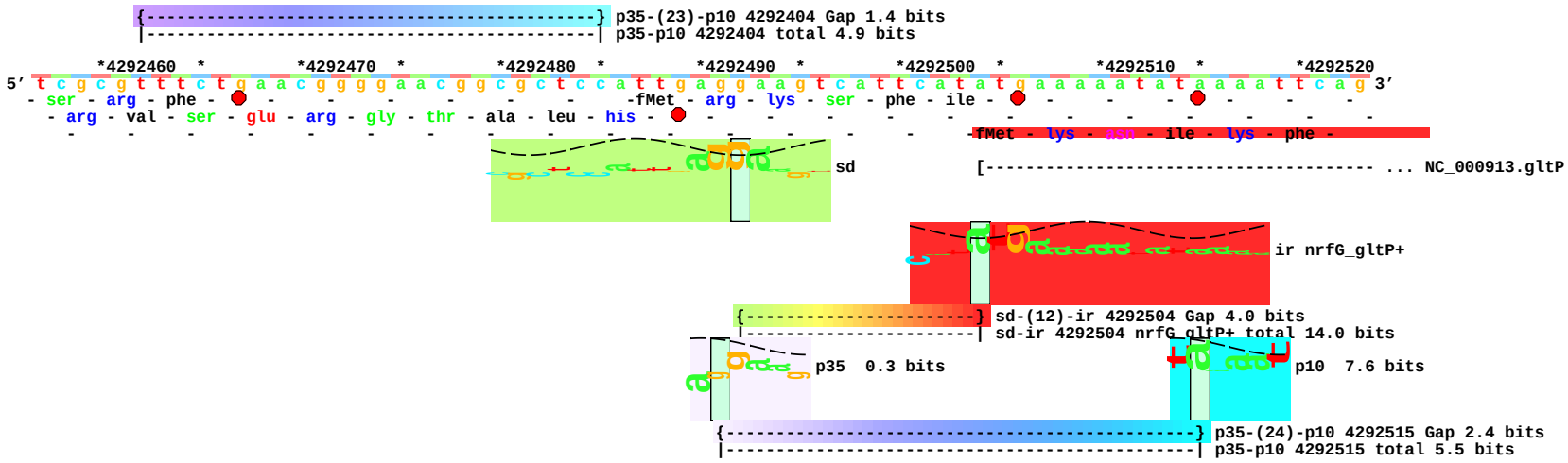
piece 1, NC_000913, nrfG_gltP+, config: linear, direction: +, begin: 4292133, end: 4292523
*4292140 *4292150 *4292160 *4292170 *4292180 *4292190 *4292200 *4292210
5′ g c g a a a t t g t t g c a g c g g a g a t t g g a t t a a t c a t c t g g t g a t g a a g a t t a t g t c a t t g a g c t g c a t a a a a a a t a a t c g a a t 3′
- ala - lys - leu - leu - gln - arg - arg - leu - asp -
- arg - asn - cys - cys - ser - gly - asp - trp - ile - asn - his - leu - val - met - lys - ile - met - ser - leu - ser - cys - ile - lys - asn - asn - arg - met -
- glu - ile - val - ala - ala - glu - ile - gly - leu - ile - ile - trp -
p35 3.8 bits
sd
ir nrfG_gltP+
{------- ... sd-(10)-ir 4292220
p35 3.6 bits
{----------} sd-(12)-ir 4292182 Gap 4.0 bits
|------- ... sd-ir 4292220 nrfG
|----------| sd-ir 4292182 nrfG_gltP+ total 6.3 bits
p10 2.6 bits
p10 3.0 bits
... sd
{----------} p35-(22)-p10 4292162 Gap 2.3 bits
|----------| p35-p10 4292162 total 4.0 bits
{----------} p35-(23)-p10 4292179 Gap 1.4 bits
|----------| p35-p10 4292179 total 5.2 bits
*4292220 *4292230 *4292240 *4292250 *4292260 *4292270 *4292280 *4292290
5′ g a a c a t a t g c c a a a a a t a a t c a c t a a t c a g t a t t a t t g c a g a t t a a a c a a a t a a a a a t c t t t c c a t a a c a a a t g g t t a t t c 3′
- fMet - pro - lys - ile - ile - thr - asn - gln - tyr - tyr - cys - arg - leu - asn - lys -
- asn - ile - cys - gln - lys -
-fMet - gln - ile - lys - gln - ile - lys - ile - phe - pro -
-fMet - val - ile - his -
... ----------} sd-(10)-ir 4292220 Gap 2.7 bits
p10 7.1 bits
[###> orf 16 codons
p35 2.6 bits
... ----------| sd-ir 4292220 nrfG_gltP+ total 9.2 bits
{--------------- ... p35-(22)-p10 42923
|--------------- ... p35-p10 4292309 to
[###> orf 17 codons
... sd
ir nrfG_gltP+
p35 3.0 bits
{----------} p35-(24)-p10 4292245 Gap 2.4 bits
|----------| p35-p10 4292245 total 7.6 bits
*4292300 *4292310 *4292320 *4292330 *4292340 *4292350 *4292360 *4292370 *
5′ a t t a a t c c t g c c a t a a a c t c g c g t t a t t a t g c a t t a a t g c a g c g a a a a g c t c t g t t g t t a a a g g g t t g c g c a a c a t a c c g c 3′
-fMet - gln - arg - lys - ala - leu - leu - leu - lys - gly - cys - ala - thr - tyr - arg -
-fMet - his -
-fMet - arg - asn - ile - pro - arg -
p35 2.6 bits
p10 6.5 bits
... ----------} p35-(22)-p10 4292309 Gap 2.3 bits
... ----------| p35-p10 4292309 total 6.7 bits
p10 7.1 bits
{----------} p35-(24)-p10 4292320 Gap 2.4 bits
|----------| p35-p10 4292320 total 7.2 bits
*4292380 *4292390 *4292400 *4292410 *4292420 *4292430 *4292440 *4292450 *
5′ g c a a a t g a t a c t g a t c a t a a g c g t t a a a a a a a t c t a c a a a c c a a c g c a a c a c a a t t c a t g c c c t g g c a g t a t g t c a c g t t c 3′
- ala - asn - asp - thr - asp - his - lys - arg -
-fMet - pro - trp - gln - tyr - val - thr - phe -
-fMet - ile - leu - ile - ile - ser - val - lys - lys - ile - tyr - lys - pro - thr - gln - his - asn - ser - cys - pro - gly - ser - met - ser - arg - ser -
- lys -
p35 2.5 bits
p10 3.8 bits


{----------} p35-(23)-p10 4292404 Gap 1.4 bits
|----------| p35-p10 4292404 total 4.9 bits
*4292460 * *4292470 * *4292480 * *4292490 * *4292500 * *4292510 * *4292520
5' t c g c g t t t c t g a a c g g g g a a c g g c g c t c c a t t g a g g a a g t c a t t c a t a t g a a a a a t a t a a a a t t c a g 3'
- ser - arg - phe - - - - - - - -fMet - arg - lys - ser - phe - ile - - - - - - - - - -
- arg - val - ser - glu - arg - gly - thr - ala - leu - his - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -fMet - lys - asn - ile - lys - phe -
sd [---------- ... NC_000913.gltP
ir nrfG_gltP+
{----------} sd-(12)-ir 4292504 Gap 4.0 bits
|----------| sd-ir 4292504 nrfG_gltP+ total 14.0 bits
p35 0.3 bits
p10 7.6 bits
{----------} p35-(24)-p10 4292515 Gap 2.4 bits
|----------| p35-p10 4292515 total 5.5 bits