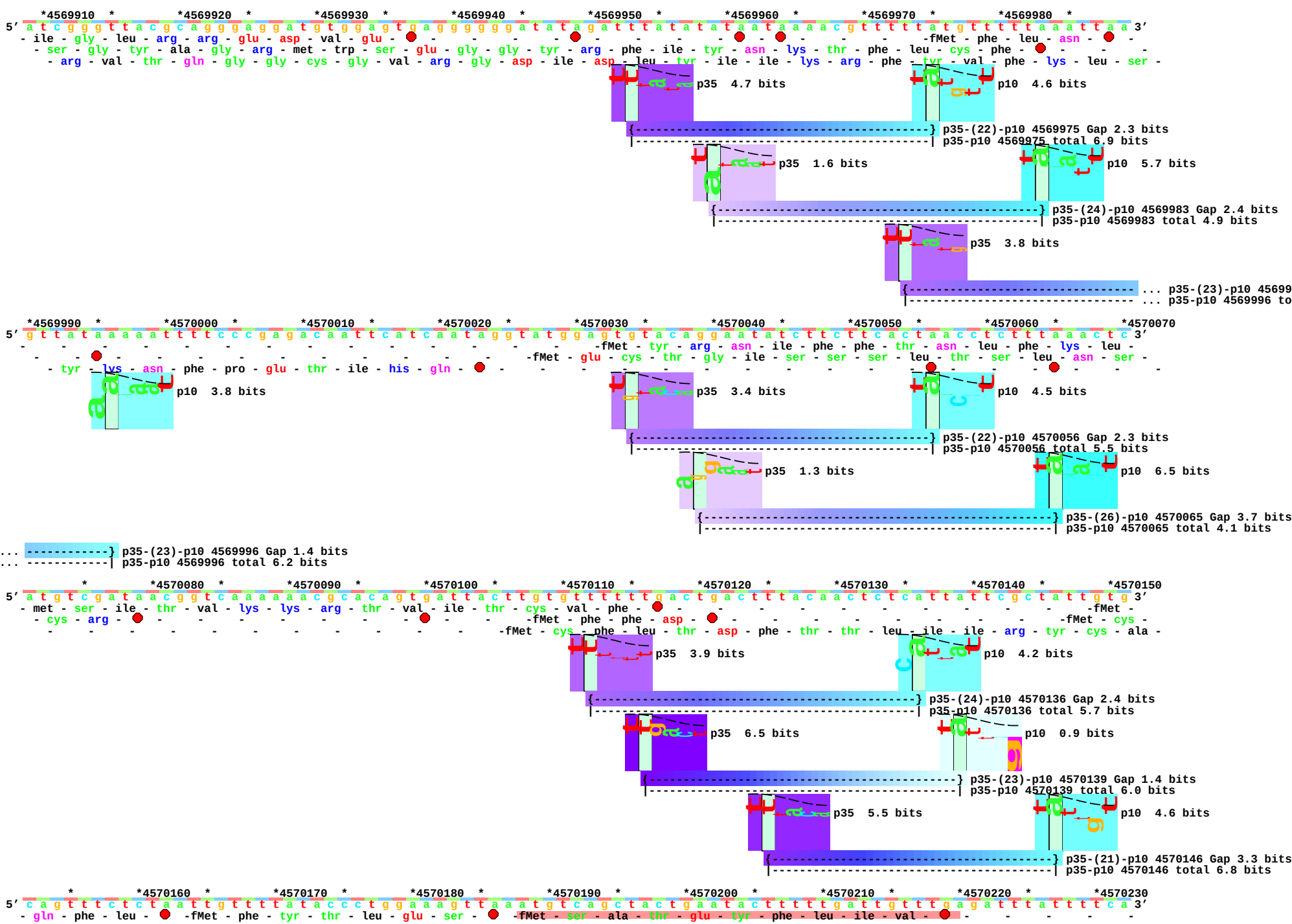
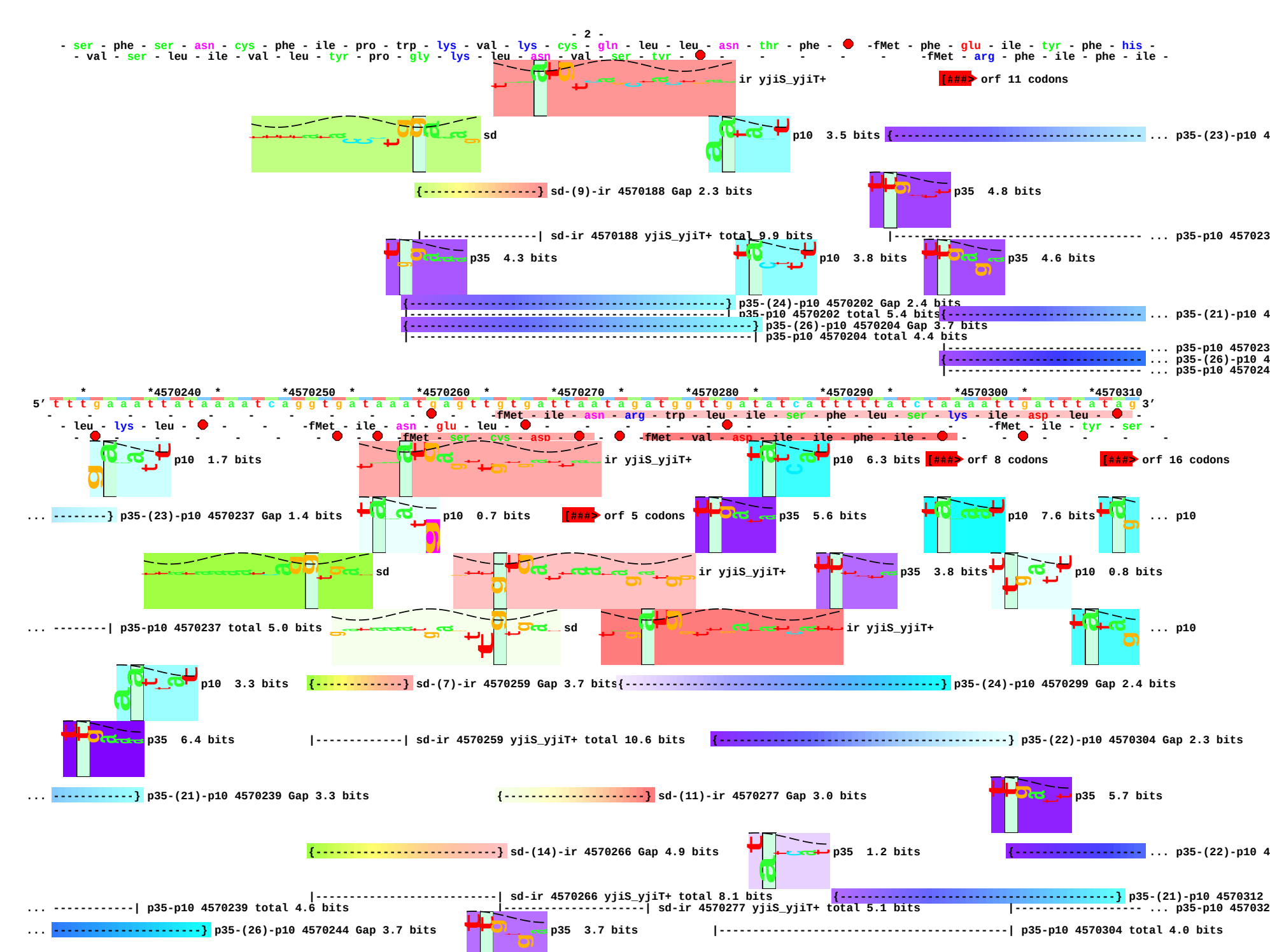
piece 1, NC_000913, yjiS_yjiT+, config: linear, direction: +, begin: 4569909, end: 4570456


*4569910 *4569920 *4569930 *4569940 *4569950 *4569960 *4569970 *4569980 *
5' a t c g g g t t a c g c a g g g a g g a t g t g g a g t g a g g g g g g a t a t a g a t t t a t a t a t a a t a a a a c g t t t t t a t g t t t t t a a a t t a a 3'
- ile - gly - leu - arg - arg - glu - asp - val - glu - * - - - - - - * - - - - - - * - * - - - - -fMet - phe - leu - asn - * -
- ser - gly - tyr - ala - gly - arg - met - trp - ser - glu - gly - gly - tyr - arg - phe - ile - tyr - asn - lys - thr - phe - leu - cys - phe - * - - - -
- arg - val - thr - gln - gly - gly - cys - gly - val - arg - gly - asp - ile - asp - leu - tyr - ile - ile - lys - arg - phe - tyr - val - phe - lys - leu - ser -
p35 4.7 bits
p10 4.6 bits
{----------} p35-(22)-p10 4569975 Gap 2.3 bits
|----------| p35-p10 4569975 total 6.9 bits
p35 1.6 bits
p10 5.7 bits
{----------} p35-(24)-p10 4569983 Gap 2.4 bits
|----------| p35-p10 4569983 total 4.9 bits
p35 3.8 bits
{---------- ... p35-(23)-p10 45699
|---------- ... p35-p10 4569996 to
*4569990 *4570000 *4570010 *4570020 *4570030 *4570040 *4570050 *4570060 *4570070
5' g t t a t a a a a t t t t c c c g a g a c a a t t c a t c a a t a g g t a t g g a g t g t a c a g g a a t a t c t t c t t c a c t a a c c t c t t t a a a c t c 3'
- - - - - - -


- 2 -
- ser - phe - ser - asn - cys - phe - ile - pro - trp - lys - val - lys - cys - gln - leu - leu - asn - thr - phe - -fMet - phe - glu - ile - tyr - phe - his -
- val - ser - leu - ile - val - leu - tyr - pro - gly - lys - leu - asn - val - ser - tyr - -fMet - arg - phe - ile - phe - ile -
ir yjiS_yjiT+
[###> orf 11 codons
sd
p10 3.5 bits
{---------- ... p35-(23)-p10 4
{----------} sd-(9)-ir 4570188 Gap 2.3 bits
p35 4.8 bits
|----------| sd-ir 4570188 yjiS_yjiT+ total 9.9 bits
|---------- ... p35-p10 457023
p35 4.3 bits
p10 3.8 bits
p35 4.6 bits
{----------} p35-(24)-p10 4570202 Gap 2.4 bits
|----------| p35-p10 4570202 total 5.4 bits
{---------- ... p35-(21)-p10 4
{----------} p35-(26)-p10 4570204 Gap 3.7 bits
|----------| p35-p10 4570204 total 4.4 bits
|---------- ... p35-p10 457023
{---------- ... p35-(26)-p10 4
|---------- ... p35-p10 457024
*4570240 *4570250 *4570260 *4570270 *4570280 *4570290 *4570300 *4570310
5′ t t t g a a a t t a t a a a a t c a g g t g a t a a a t g a g t t g t g a t t a a t a g a t g g t t g a t a t c a t t t t t a t c t a a a a t t g a t t t a t a g 3′
-fMet - ile - asn - arg - trp - leu - ile - ser - phe - leu - ser - lys - ile - asp - leu -
- leu - lys - leu - -fMet - ile - asn - glu - leu - -fMet - ile - tyr - ser -
-fMet - ser - cys - asp - -fMet - val - asp - ile - ile - phe - ile -
p10 1.7 bits
ir yjiS_yjiT+
p10 6.3 bits
[###> orf 8 codons
[###> orf 16 codons
... --------} p35-(23)-p10 4570237 Gap 1.4 bits
p10 0.7 bits
[###> orf 5 codons
p35 5.6 bits
p10 7.6 bits
... p10
sd
ir yjiS_yjiT+
p35 3.8 bits
p10 0.8 bits
... --------| p35-p10 4570237 total 5.0 bits
sd
ir yjiS_yjiT+
... p10
p10 3.3 bits
{----------} sd-(7)-ir 4570259 Gap 3.7 bits
{---------- p35-(24)-p10 4570299 Gap 2.4 bits
p35 6.4 bits
|----------| sd-ir 4570259 yjiS_yjiT+ total 10.6 bits
{---------- p35-(22)-p10 4570304 Gap 2.3 bits
... ----------} p35-(21)-p10 4570239 Gap 3.3 bits
{----------} sd-(11)-ir 4570277 Gap 3.0 bits
p35 5.7 bits
{---------- sd-(14)-ir 4570266 Gap 4.9 bits
p35 1.2 bits
{---------- ... p35-(22)-p10 4
|----------| sd-ir 4570266 yjiS_yjiT+ total 8.1 bits
{---------- p35-(21)-p10 4570312
... ----------| p35-p10 4570239 total 4.6 bits
|----------| sd-ir 4570277 yjiS_yjiT+ total 5.1 bits
|---------- ... p35-p10 457032
... ----------} p35-(26)-p10 4570244 Gap 3.7 bits
p35 3.7 bits
|----------| p35-p10 4570304 total 4.0 bits

... |- p35-p10 4570244 total 8.5 bits
p10 7.6 bits
{- p35-(21)-p10 4570286 Gap 3.3 bits
|- p35-p10 4570286 total 6.7 bits
{- p35-(22)-p10 4570257 Gap 2.3 bits
|- p35-p10 4570257 total 4.7 bits
p35 0.6 bits
|- p35-p10 4570299 total 5.8 bits
|- p35-p10 4570312 total
{- p35-(24)-p10 4570310 Gap
|- p35-p10 4570310 total 4.6
* *4570320 * *4570330 * *4570340 * *4570350 * *4570360 * *4570370 * *4570380 * *4570390
5' t a t c g a c c t g a a a a a a t a g t t g t t g c c g c c t g a g t a a c t a t a c a a t a t t c t g a a a g g t t t t c t t t c a a a t t a g a a a t g t t g 3'
- ile - asp - leu - lys - lys - -fMet - leu - pro - pro - glu - -fMet - leu -
-fMet -
p10 3.8 bits
p10 6.9 bits
... p35
... p10 5.3 bits
p35 3.8 bits
p10 3.4 bits
{--- ... p35-(23)-p10 4
{- p35-(21)-p10 4570355 Gap 3.3 bits
|--- ... p35-p10 457041
... p10 5.9 bits
|- p35-p10 4570355 total 7.4 bits
{- p35-(23)-p10 4570357 Gap 1.4 bits
|- p35-p10 4570357 total 5.8 bits
p35 5.2 bits
p10 2.7 bits
... {- p35-(22)-p10 4570326 Gap 2.3 bits
p10 6.0 bits
{- p35-(21)-p10 4570358 Gap 3.3 bits
... |- p35-p10 4570326 total 7.2 bits
|- p35-p10 4570358 total 4.6 bits
{- p35-(23)-p10 4570360 Gap 1.4 bits
|- p35-p10 4570360 total 9.7 bits
* *4570400 * *4570410 * *4570420 * *4570430 * *4570440 * *4570450 *
5' t g g g g t t t t g t t t t g t a t c t t t t a t c t c t a a g g a g c t t g c t t t g g g t c a a t c a g a a t a c a t 3'
- trp - gly - phe - val - phe - val - ser - phe - ile - ser - lys - glu - leu - ala - leu - gly - gln - ser - glu - tyr -
-fMet - phe - leu - tyr - leu - leu - ser - leu - arg - ser - leu - leu - trp - val - asn - gln - asn - thr -
- gly - phe - cys - phe - cys - ile - phe - tyr - leu -
... p35 2.8 bits
sd [--- ... NC_000913.yjiT
... {- p35-(23)-p10 4570416 Gap 1.4 bits
ir yjiS_yjiT+
... |- p35-p10 4570416 total 4.5 bits
p10 3.2 bits
{- sd-(9)-ir 4570437 Gap 2.3 bits
|- sd-ir 4570437 yjiS_yjiT+ total 7.1 bits