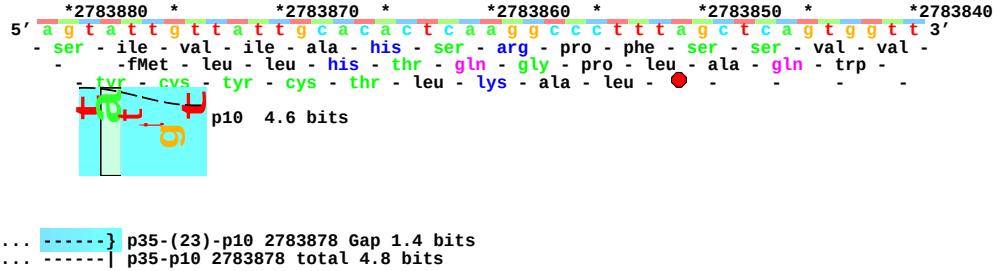
piece 1, NC_000913, ileY_ygaQ-, config: linear, direction: -, begin: 2784448, end: 2783840
*2784440 *2784430 *2784420 *2784410 *2784400 *2784390 *2784380 *2784370
5' a t t t c t g g g t c c t g g t t t t a t a g a a a c a t a a t a a a g t t c c t c t a a t g g t a g a g t a a t a t g a t g t a t a c g g a a a c a t a a a 3'
- ile - ser - gly - ser - trp - phe - tyr - arg - lys - his - asn - lys - val - pro - leu - met - val - glu -
- phe - leu - gly - pro - gly - phe - ile - glu - asn - ile - ile - lys - phe - leu - fMet - met - tyr - thr - glu - thr -
- phe - trp - val - leu - val - leu -
NC_000913.ygaQ
ir ileY_ygaQ-
orf 7 codons
p35 3.5 bits
sd
orf 4 codons
... ir
sd-(9)-ir 2784403 Gap 2.3 bits
sd-ir 2784403 ileY_ygaQ- total 6.4 bits
... sd-(11)-ir 2784367
... sd-ir 2784367 ileY
sd
ir ileY_ygaQ-
p10 5.5 bits
sd-(10)-ir 2784390 Gap 2.7 bits
p35-(26)-p10 2784420 Gap 3.7 bits
sd-ir 2784390 ileY_ygaQ- total 8.2 bits
sd
ir ileY_ygaQ-
p35-p10 2784420 total 5.3 bits
sd-(10)-ir 2784387 Gap 2.7 bits
sd-ir 2784387 ileY_ygaQ- total 7.6 bits
sd
... sd
p35 2.6 bits
... p35-(23)-p10 27843
... p35-p10 2784363 to
*2784360 *2784350 *2784340 *2784330 *2784320 *2784310 *2784300 *2784290
5' a t g t t t a a t t g t t g t g a a a g t a a t t g c a a a c a g a t g t c c t a c t t t t a t c c a a t a t t t a t a t g g a a a a g g a t a a t g c t t a a a 3'
-fMet - phe - asn - cys - cys - glu - ser - asn - cys - lys - gln - met - ser - tyr - phe - tyr - pro - ile - phe - ile - trp - lys - arg - ile - met - leu - lys -
-fMet - lys - val - ile - ala - asn - arg - cys - pro - thr - phe - ile - gln - tyr - leu - tyr - gly - lys - gly -
-fMet - leu - fMet - gln - thr - asp - val - leu - leu - leu - ser - asn - ile - tyr - met - glu - lys - asp - asn - ala -
ir ileY_ygaQ-
sd
orf 20 codons
... ir ileY_ygaQ-
p35 6.1 bits
p10 3.4 bits
... ir
... } sd-(11)-ir 2784367 Gap 3.0 bits
p35 4.8 bits
sd-(10)-ir 2784295 Gap 2.7 bits
... | sd-ir 2784367 ileY_ygaQ- total 8.7 bits
sd-ir 2784295 ileY_ygaQ- total 15.4 bit
sd-(11)-ir 2784354 Gap 3.0 bits
p10 0.9 bits
sd-ir 2784354 ileY_ygaQ- total 6.8 bits
p35-(23)-p10 2784301 Gap 1.4 bits

p10 4.5 bits
{----------} p35-(26)-p10 2784317 Gap 3.7 bits
p10 4.3 bits
|----------| p35-p10 2784317 total 5.8 bits
... p10
|----------| p35-p10 2784301 total 4.2 bits
{----------} p35-(26)-p10 2784298 Gap 3.7 bits
|----------| p35-p10 2784298 total 5.4 bits
... sd
p35 4.7 bits
... p10
{----------} p35-(22)-p10 2784290 Gap
|----------| p35-p10 2784290 total 6.1
... --------} p35-(23)-p10 2784363 Gap 1.4 bits
... --------| p35-p10 2784363 total 5.6 bits
{----------} p35-(23)-p10 2784289 Ga
|----------| p35-p10 2784289 total 4
*2784280 *2784270 *2784260 *2784250 *2784240 *2784230 *2784220 *2784210
5′ t c t g t t t t a t t a a t t a t c g a t g t g g t c t g g a g a g g c a a c t g t c a a a a a t c g c t c a t a c g a a a c t a a t g a t t a g c a g a a t a a 3′
- ser - val - leu - leu - ile - ile - asp - val - val - trp - arg - gly - asn - cys - gln - lys - ser - leu - ile - arg - asn -
-fMet - trp - ser - gly - glu - ala - thr - val - lys - asn - arg - ser - tyr - glu - thr - asn - asp -
-fMet - ile - ser - arg - ile - arg -
p35 3.5 bits
p10 3.8 bits
[###> orf 49 codons
{---------- ... sd-(11)-ir 278
... ir ileY_ygaQ-
{----------} p35-(21)-p10 2784242 Gap 3.3 bits
sd
|----------| p35-p10 2784242 total 4.0 bits
|---------- ... sd-ir 2784200
... p10 3.7 bits
... p10 1.4 bits
*2784200 *2784190 *2784180 *2784170 *2784160 *2784150 *2784140 *2784130 *
5′ g a t c t a t g a a a g a a t a t a t t g c t a t a c g a a g t t t a t t t t t a t g g a g t g a a a a g t a a c a g a t a t c a t a a t g a t g c g a a a a c t 3′
-fMet - leu - tyr - glu - val - tyr - phe - tyr - gly - val - lys - ser - asn - arg - tyr - his - asn - asp - ala - lys - thr -
-fMet - glu -
-fMet - met - arg - lys - leu -
- ser - met - lys - glu - tyr - ile - ala - ile - arg - ser - leu - phe - leu - trp - ser - glu - lys -
... ----------} sd-(11)-ir 2784200 Gap 3.0 bits
p35 3.8 bits
[###> orf 17 codons
... ir
ir ileY_ygaQ-
ir ileY_ygaQ-
... ir
... ----------| sd-ir 2784200 ileY_ygaQ- total 10.2 bits
[###> orf 3 codons
{----------} sd-(9)-ir 2784138 Gap 2.3 bits
sd
sd
{----------} sd-(10)-ir 2784165 Gap 2.7 bits
|----------| sd-ir 2784138 ileY_ygaQ- total 7.6 bits
|----------| sd-ir 2784165 ileY_ygaQ- total 5.1 bits
p10 5.5 bits

p35 2.6 bits
sd-(12)-ir 2784135 Gap 4.0 bits
sd-ir 2784135 ileY_ygaQ- total 5.8 bits
p10 6.3 bits
p35-(23)-p10 2784144 Gap 1.4 bits
p35-p10 2784144 total 8.7 bits
p35-(22)-p10 2784141 Gap 2.3 bits
p35-p10 2784141 total 5.8 bits
*2784120 *2784110 *2784100 *2784090 *2784080 *2784070 *2784060 *2784050 *
5′ c t t c a g c t a a t g t a a t a a a g t t a t a t t a t t a g a t a c a a a a t c a t t a c a a a g t a t c a t t g a a t c g a t g a t a a c t a t a g a t a g 3′
- leu - gln - leu - met - phe - ser - fMet - ile - thr - ile - asp - ser - fMet - asn - arg -
... ir ileY_ygaQ-
p35 3.6 bits
sd
ir ileY_ygaQ-
... ir ileY_ygaQ-
p10 4.7 bits
sd-(14)-ir 2784060 Gap 4.9 bits
[###> orf 8 codons
p35 1.5 bits
sd-ir 2784060 ileY_ygaQ- total 6.2 bits
p35-(25)-p10 2784088 Gap 4.0 bits
p35-p10 2784088 total 4.3 bits
p10 6.3 bits
p35-(22)-p10 2784072 Gap 2.3 bits
p35-p10 2784072 total 5.5 bits
*2784040 *2784030 *2784020 *2784010 *2784000 *2783990 *2783980 *2783970 *
5′ t g c t a a t t a t t a a c a t t t g c t t g t t g a c t g c g a g t a t c g a c t t t g c g a a t g g a g g c g g t g t c g g g t t t t a t g t c g c g t g t a 3′
- ala - asn - tyr - fMet - leu - val - asp - cys - glu - tyr - arg - leu - cys - glu - trp - arg - arg - cys - arg - val - leu - cys - arg - val -
- leu - ile - ile - asn - ile - cys - leu - leu - thr - ala - ser - ile - asp - phe - ala - asn - gly - gly - gly - val - gly - phe - tyr - val - ala - cys - asn -
fMet - arg - met - glu - ala - val - ser - gly - phe - met - ser - arg - val -
[###> orf 10 codons
p35 4.2 bits
p10 3.2 bits
p35-(23)-p10 2783977 Gap 1.4 bits
p35-p10 2783977 total 6.0 bits
*2783960 *2783950 *2783940 *2783930 *2783920 *2783910 *2783900 *2783890 *
5′ a t c a c g a c c c a a g g t g a a t g g g a a c g c a t a a a a t c t g t t a t t t a c a t c a t a t g a t c a t c a t g t t t a t t g c g t g g t t t a t a 3′
- ile - thr - thr - gln - gly - glu - trp - glu - arg - ile - lys - ile - cys - tyr - leu - his - his - met - ile - ile - met - phe - ile - ala - trp - phe - ile -
- his - asp - pro - arg - fMet - asn - gly - asn - ala - fMet - gly - thr - his - lys - asn - leu - phe - thr - ser - tyr - asp - his - his - val - tyr - cys - val - val - tyr - lys -
fMet - arg - gly - leu -
p35 5.5 bits
p10 2.6 bits
p35-(22)-p10 2783898 Gap 2.3 bits
p35-p10 2783898 total 5.8 bits
p35 1.7 bits
... p35-(23)-p10 2
... p35-p10 278387



... ------} p35-(23)-p10 2783878 Gap 1.4 bits
... ------| p35-p10 2783878 total 4.8 bits