

piece 1, NC_000913, yfjW_ypJI+, config: linear, direction: +, begin: 2773014, end: 2773586

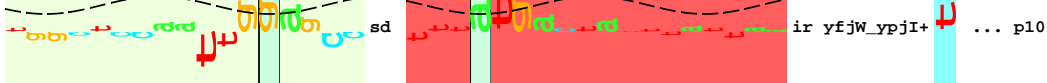
* 2773020 * 2773030 * 2773040 * 2773050 * 2773060 * 2773070 * 2773080 * 2773090

5' a a t g a t g t g a a t g a a a a t t t a t t c t t g t a a c g c a t t t g g c t c c a a t t g g a g c c t t t t a t g a c t a t t t a t t a a a a t a t c c t 3'

- asn - asp - val - asn - glu - asn - leu - phe - leu - ● - -fMet - glu - pro - phe - tyr - asp - tyr - leu - leu - lys - tyr - pro -

- met - met - ● -fMet - lys - ile - tyr - ser - cys - asn - ala - phe - gly - ser - asn - trp - ser - leu - phe - met - thr - ile - tyr - ● - -

- ● - - - -fMet - ala - pro - ile - gly - ala - phe - leu - - - - -



p35 1.1 bits [###] orf 5 codons

{-----} sd-(10)-ir 2773072 Gap 2.7 bits p10 5.2 bits

|-----| sd-ir 2773072 yfjW_ypJI+ total 7.8 bits

p35 3.8 bits p10 7.6 bits

{-----} p35-(24)-p10 2773085 Gap 2.4 bits

{-----} p35-p10 2773085 total 6.3 bits

{-----} p35-(22)-p10 2773090 Gap 2.3 bits

{-----} p35-p10 2773090 total 6.7 bits

p35 3.4 bits

{-----} ... p35-(22)-p10 2773095 Gap

{-----} ... p35-p10 2773095 total 4.9

* 2773100 * 2773110 * 2773120 * 2773130 * 2773140 * 2773150 * 2773160 * 2773170 *

5' a a g t t a a g c c t g t t t t t a a a g c a g g c t t g a g c g t g a a g c g g a c a c t c a t a c c t g c t t t a a a g t g g c g t t t t g t c g c t t a c c 3'

- lys - leu - ser - leu - phe - leu - lys - gln - ala - ● - -fMet - ser - val - lys - arg - thr - leu - ile - pro - ala - leu - lys - trp - arg - phe - cys - arg - tyr - pro -

- ● - - - -fMet - ser - val - lys - arg - thr - leu - ile - pro - ala - leu - lys - trp - arg - phe - cys - arg - tyr - pro -



p10 3.8 bits

p35 2.3 bits

{-----} sd-(8)-ir 2773127 Gap 2.4 bits

|-----| sd-ir 2773127 yfjW_ypJI+ total 5.0 bits

{-----} ... p35-(25)-p10 2773183 Gap

|-----| ... p35-p10 2773183 total 4.7

p35 2.9 bits

{-----} ... p35-(22)-p10 2773185 Gap

{-----} ... p35-p10 2773185 total 5.8

... } p35-(22)-p10 2773095 Gap 2.3 bits

... | p35-p10 2773095 total 4.9 bits

* 2773180 * 2773190 * 2773200 * 2773210 * 2773220 * 2773230 * 2773240 * 2773250 *

5' c a t a c c t a t a t t t t c t g t t g t t t a a c t g c c a g a a a t a t g c c g a g c c a g c g g c a t g g a a g 3'

- ile - pro - ile - phe - ser - val - val - ● - -fMet - lys - ser - gln - lys - tyr - ala - glu - pro - ala - ala - trp - lys -

- tyr - leu - tyr - phe - leu - leu - phe - asn - cys - gln - asn - ● - -fMet - pro - ser - gln - arg - his - gly - ser -

- - - -fMet - glu - ala - - - -



p10 6.5 bits

[###] orf 29 codons

... } p35-(25)-p10 2773183 Gap 4.0 bits

... | p35-p10 2773183 total 4.7 bits



... } p35-(22)-p10 2773185 Gap 2.3 bits
 ... | p35-p10 2773185 total 5.8 bits

*2773260 * *2773270 * *2773280 * *2773290 * *2773300 * *2773310 * *2773320 * *2773330 *
 5' c g c c a g c a g c t g t t g a a t g g a g t a c t g t a g g c a a a t g g t g c c g t a a c c g g c t t t c g t a c t g a a a g g t t c t g t c t a t c c c a t 3'
 - arg - gln - gln - leu - leu - asn - gly - val - leu -
 - ala - ser - ser - cys - -fMet - glu - tyr - cys - arg - gln - met - val - pro -
 - pro - ala - ala - val - glu - trp - ser - thr - val - gly - lys - trp - cys - arg - asn - arg - leu - ser - tyr -

*2773340 * *2773350 * *2773360 * *2773370 * *2773380 * *2773390 * *2773400 * *2773410 *
 5' c c c t t c t c t t g t a t c t a a c a t t t a g t t g t g a a t a g c t a c t g t a a a t g c c c t a c a a a t g a a c c a t t a t t t t t a g a g g g c g 3'
 -fMet - tyr - leu - thr - phe - ser - cys - glu - -fMet - pro - leu - gln - asn - glu - pro - leu - phe - leu - glu - gly - val -

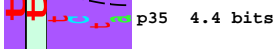


... } p35-(24)-p10 2773402 Gap 2.4 bits
 ... | p35-p10 2773402 total 5.2 bits



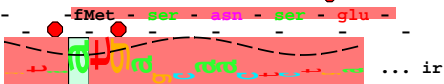
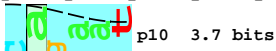
... } p35-(22)-p10 2773405 Gap 2.3 bits
 ... | p35-p10 2773405 total 4.4 bits

*2773420 * *2773430 * *2773440 * *2773450 * *2773460 * *2773470 * *2773480 * *2773490 *
 5' t c t g g c a c t c c a a c t t c c g c t t t t g g c a c a g a a c g g c c t a t c a g c a a t a t a a a g c a t t c a g a t a t a t a t c a t t t c t a c a a 3'
 -fMet - ala - gln - asn - gly - leu - ser - ala - ile -
 - trp - his - ser - asn - phe - arg - phe - trp - his - arg - thr - ala - tyr - gln - gln - tyr - lys - ser - ile - gln - ile - tyr - ile - ile - ser - thr - asn -

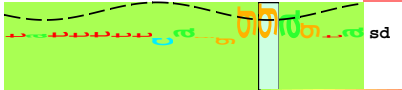


... p35-(26)-p10 2773518 Gap
 ... p35-p10 2773518 total 4.3

*2773500 * *2773510 * *2773520 * *2773530 * *2773540 * *2773550 * *2773560 * *2773570 * *2773580
 5' a c a t a c c c g a t t a a c c g g c a g a a t c t c a g g a t t c t g c c g c t t t t t a t t a t t t t t c a g g g g a g t a g t a a t g a g c a a c t c t g a 3'
 - ile - pro - asp - -fMet - ser - asn - ser - glu -



... } p35-(26)-p10 2773518 Gap 3.7 bits



... | p35-p10 2773518 total 4.3 bits

... } sd-(8)-ir 2773567 Gap 2.4 bits
 ... | sd-ir 2773567 yfjW_ypjI+ total 13.7 bits

*
 5' a g g t t g 3'
 -fMet -
 - gly -

... ir yfjW_ypjI+

... orf