

- 1 -

piece 1, NC_000913, yjbs_aphA-, config: linear, direction: -, begin: 4267466, end: 4267016

5' * *4267460 * *4267450 * *4267440 * *4267430 * *4267420 * *4267410 * *4267400 * *4267390
- gly - thr - asp - cys - leu - cys - asp - leu - ala - his - ile - phe - pro - fMet - leu - lys - leu - phe - val -
- ala - leu - ile - ala - cys - val - ile - leu - arg - ile - phe - phe - pro - lys - fMet - lys - fMet - leu -
- his - fMet - pro - val - lys - fMet - pro - val - fMet - pro - val -

...] NC_000913.aphA

p35 6.2 bits

p10 5.2 bits

p10 2.4 bits

p35 4.8 bits

{ } p35-(21)-p10 4267436 Gap 3.3 bits
p35-p10 4267436 total 8.1 bits

{ } p35 3.8 bits

{ } p35-(23)-p10 4267409 Gap 1.4 bits
p35-p10 4267409 total 4.8 bits

5' * *4267380 * *4267370 * *4267360 * *4267350 * *4267340 * *4267330 * *4267320 * *4267310 *
- ala - lys - thr - ile - fMet - gln - lys - pro - ser - asp - his - asn - ala - ser - cys - arg - gly - lys - glu - leu - ser - ala - val - phe - val - met - lys - ser - arg - met - ile -

{ } p10 1.1 bits

{ } p35-(23)-p10 4267379 Gap 1.4 bits
p35-p10 4267379 total 4.5 bits

sd
{ } sd-(9)-ir 4267321 Gap 2.3 bits
sd-ir 4267321 yjbs_aphA- total 6.4 bits

sd
{ } sd-(10)-ir 4267309 Gap 2.7 bits
sd-ir 4267309 yjbs_aphA- total 9.1 bits

p35 3.7 bits

{ } ... p35-(23)-p10 4267285 Gap

... p35-(22)-p10 4267303 Gap
... p35-p10 4267303 total 7.9
... p35-p10 4267285 total 4.3

5' * *4267300 * *4267290 * *4267280 * *4267270 * *4267260 * *4267250 * *4267240 * *4267230 *
- ile - phe - asn - pro - val - ser - thr - phe - leu - ser - phe - phe - val - fMet - phe - ile - thr - arg - cys - lys - asp - thr - leu - ile - leu -
- fMet - tyr - lys - cys - leu - leu - leu - asp - val - arg - ile - his -

{ } p10 6.5 bits

{ } ir yjbs_aphA-

{ } p35 2.6 bits

orf 20 codons

p35 1.7 bits

p35 4.8 bits

p10 0.7 bits

{ } p35-(23)-p10 4267234 Gap 1.4 bits
p35-p10 4267234 total 5.3 bits

p10 1.8 bits

... --| p35-(23)-p10 4267285 Gap 1.4 bits
 ... --| p35-(22)-p10 4267303 Gap 2.3 bits
 ... --| p35-p10 4267303 total 7.9 bits

... -----| p35-p10 4267285 total 4.3 bits

{-----} p35-(23)-p10 4267231 Gap 1.4 bits
 {-----} p35-p10 4267231 total 4.1 bits
 {-----} p35-(24)-p10 4267230 Gap 2.4 bits
 {-----} p35-p10 4267230 total 4.2 bits
 {-----} p35-(25)-p10 4267229 Gap 4.0 bits
 {-----} p35-p10 4267229 total 5.2 bits
 {-----} p35-(26)-p10 4267217 Gap 0.4 bits
 {-----} p35-p10 4267217 total 5.8 bits
 {-----} p35-(24)-p10 4267214 Gap 4.4 bits
 {-----} p35-p10 4267214 total 4.4 bits

5' acgttattatgatgaatccatcgacatggcaatattgagcgaaatttgatagaacatattctgtatgtacgatttaatgaaacttaatg 3'
 - arg - leu - leu - fMet - met - asn - pro - arg - gln - met - ser - glu - ile - fMet - ile - glu - his - leu - ser - ala - val - arg - phe - asn - glu - leu - asn - asp -
 sd ir yjbs_aphA-
 p10 7.1 bits
 orf 5 codons
 sd-(13)-ir 4267196 Gap 4.6 bits
 sd-ir 4267196 yjbs_aphA- total 6.0 bits
 p10 6.4 bits
 p35 5.6 bits
 sd-(7)-ir 4267145 Gap 3.7 bits
 sd-ir 4267145 yjbs_aphA- total 6.1 bits
 p35-(22)-p10 4267162 Gap 2.3 bits
 p35-p10 4267162 total 8.3 bits

... -----| p35-(26)-p10 4267217 Gap 3.7 bits
 ... p35-p10 4267217 total 5.8 bits

... -----| p35-(24)-p10 4267214 Gap 2.4 bits
 ... p35-p10 4267214 total 4.4 bits

5' atacaggcattacaaaaaacatcgaaatgtttataaaagatcttcatgttgcaccacccataccatacaatgtgtatatt 3'
 - ile - gln - his - tyr - lys - asn - asn - arg - ser - leu - fMet - thr - ser - pro - leu - pro - tyr - asn - gly - asp -
 - thr - ala - leu - gln - lys - gln - ser - lys - phe - ile - lys - met - ile - ser - asp - fMet - val - ile - asn - phe -
 ir yjbs_aphA-
 orf 12 codons
 p10 6.9 bits
 p35 3.5 bits
 ... p35-(22)-p10 4267040 Gap

5' ttattactcgatggagatgtatatatcatatgtggaa 3'
 - ile - thr - arg - asp - gly - asp - asp - met - met - ile - ser - tyr - val -

p35-(25)-p10 4267077 Gap 4.0 bits
 p35-p10 4267077 total 6.4 bits

- ... p35-p10 4267040 total 4.8 bits

