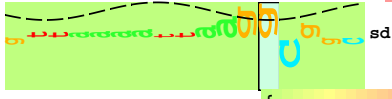
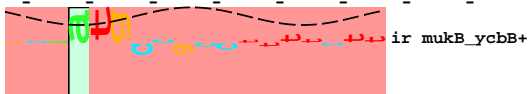


piece 1, NC_000913, mukB_ycbB+, config: linear, direction: +, begin: 979980, end: 980289

5' ^{*979980} a c t g a c g a a g c g c t t c t c a g g c g a g t t a a a a t t a a g g c g g c a g c a a t g c c g c c t t t c t t t t c c g a a a c t c c g t t t c t 3'

- thr - asp - glu - ala - pro - ser - gln - ala - ser - leu - thr - lys - arg - leu - leu - arg - arg - val - lys - ile - lys - ala - ala - ala - met - pro - pro - phe - leu - phe - pro - lys - thr - pro - phe - leu -



{-----} sd-(9)-ir 980026 Gap 2.3 bits
 {-----} sd-ir 980026 mukB_ycbB+ total 9.9 bits

5' ^{*980070} g c a c t a a a a a a g t g g c a c a t t a c g g c g c g c t t t t t a a a c t t c t t t a c a t t a g g t t a t g t a a a a c g t a t c g g c g t t t a 3'

- his - -fMet - ala - his - tyr - gly - ala - leu - phe - phe - lys - leu - leu - tyr - ile - arg - leu - cys - lys - asn - val - ser - ala - phe - ile -

[###] orf 14 codons

{-----} p10 6.5 bits

{-----} p10 2.8 bits

... sd

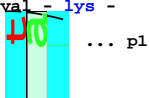
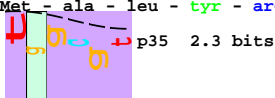
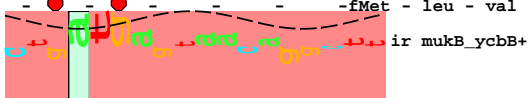
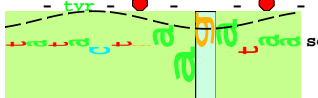


{-----} p35-(25)-p10 980099 Gap 4.0 bits
 {-----} p35-p10 980099 total 5.0 bits
 {-----} p35-(22)-p10 980143 Gap 2.3 bits
 {-----} p35-p10 980143 total 8.4 bits
 {-----} p35-(22)-p10 980114 Gap 2.3 bits
 {-----} p35-p10 980114 total 5.2 bits

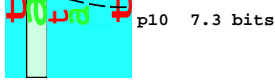
5' ^{*980150} t a t a c t g a a g a t a a g c c t g a t g a g t a a c a g g c t t g c t c a t a c t t t c g t g a g t a t t g g c g t t g t a c a g g c a a g t c g t a a 3'

- tyr -fMet - ser - asn - arg - leu - ala - arg - his - thr - phe - val - ser - ile - gly - val - val - gln - ala - ser - arg - lys -

... -fMet - leu - val - ile - leu - ser - -fMet - ala - leu - tyr - arg - gln - val - val - lys -



{-----} p35-(22)-p10 980143 Gap 2.3 bits
 {-----} p35-p10 980143 total 8.4 bits
 {-----} sd-(10)-ir 980161 Gap 2.7 bits
 {-----} sd-ir 980161 mukB_ycbB+ total 9.5 bits



5' ^{*980230} a a t a a c a g c c t g c t a t t c a g a g t a t g a t a a a a a c a g g g g g c a a g g g a t g t t g c t t a a t a t g a t g t g 3'

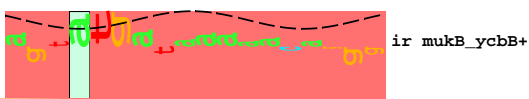
- ile - thr - ala - trp - leu - phe - arg - val -fMet - ile - lys - thr - gly - gly - lys - gly - cys - cys - leu - ile -fMet -

... -fMet - leu - leu - asn - met - met -

... p10 7.6 bits

[###] orf 30 codons

[-----] ... NC_000913.ycbB



[###] orf 13 codons

{-----} sd-(12)-ir 980247 Gap 4.0 bits
 {-----} sd-ir 980247 mukB_ycbB+ total 6.0 bits