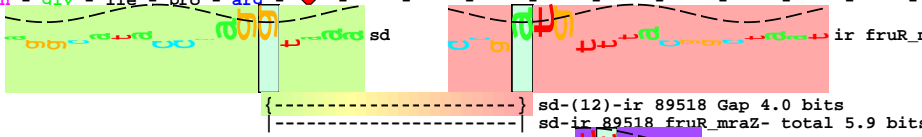


piece 1, NC_000913, fruR_mraZ-, config: linear, direction: -, begin: 89663, end: 89013

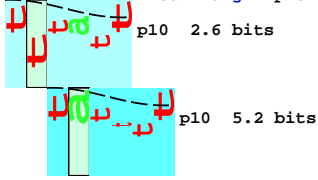
5' ^{*89660} ^{*} ^{*89650} ^{*} ^{*89640} ^{*} ^{*89630} ^{*} ^{*89620} ^{*} ^{*89610} ^{*} ^{*89600} ^{*} ^{*89590} ^{*}
g a g a t t g a c t a a c g t t g c t c c c c g g a a c a t g c c a g c c t c a c c c t t a t t c c c a a a t t t c c c a a a g g 3'
- glu - ile - asp -
- arg - leu - thr - asn - val - ala - pro - arg - asn - met - pro - ala - ser - pro - leu - ile - pro - thr - leu - pro - his - asn - phe - pro - leu - lys - gly -
- asp -
-fMet - leu - pro - gly - thr - cys - gln - pro - his - pro - leu - phe - pro - leu - cys - pro - thr - ile - ser - his -

5' ^{*89580} ^{*} ^{*89570} ^{*} ^{*89560} ^{*} ^{*89550} ^{*} ^{*89540} ^{*} ^{*89530} ^{*} ^{*89520} ^{*} ^{*89510} ^{*}
a g t t t a c g g a g c t g a g g a a a a g c t t g t c a a g c a g t c a c a a g g c a t a c g a g g t a a a a a a c c c g a t g t t t a c g g c t a a t a t 3'
- val - tyr - gly - ala - glu - glu - lys - leu - val - lys - pro - val - thr - arg - his - thr - glu - val - lys - asn - pro - met - phe - thr - ala - asn - ile -
-fMet - ser - ser - gln - ser - gln - glv - ile - pro - arg -



... p35-(22)-p10 89492 Gap
... p35-p10 89492 total 4.9
... p35-(24)-p10 89490 Gap
... p35-p10 89490 total 7.4

5' ^{*89500} ^{*} ^{*89490} ^{*} ^{*89480} ^{*} ^{*89470} ^{*} ^{*89460} ^{*} ^{*89450} ^{*} ^{*89440} ^{*} ^{*89430} ^{*}
c a g c t t g a c t t a t t t t a c g t c c a a c g t g c g a a g c a a a t t a a c g t t a t g a a t a g c t g t a a g a a a a a a a t c c c t c a t c g t c a t c 3'
- ser - val - val - tyr - phe - thr - ser - asn - val - arg - ser - lys - leu - thr - leu -
-fMet - phe - ile - leu - arg - pro - thr - cys - glu - ala - asn -



[###] orf 22 codons

... p35-(22)-p10 89492 Gap 2.3 bits
... p35-p10 89492 total 4.9 bits
... p35-(24)-p10 89490 Gap 2.4 bits
... p35-p10 89490 total 7.4 bits

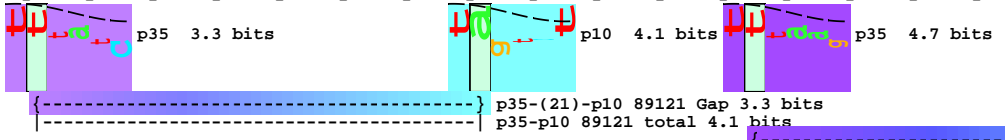
5' ^{*89420} ^{*} ^{*89410} ^{*} ^{*89400} ^{*} ^{*89390} ^{*} ^{*89380} ^{*} ^{*89370} ^{*} ^{*89360} ^{*} ^{*89350} ^{*} ^{*89340} ^{*}
a c c g t t t t a a a a t g a c t c a c t a t t t t t c c a c a g c a a a t a t a a a g t g t c a g t t t g c g a c g g a g c g g c a t t t t a g g a c a t a t c 3'
- thr - val - leu - lys -
-fMet - thr - his - tyr - phe - pro - gln - gln - ile -
-fMet - arg - arg - glu - arg - his - phe - arg - thr - tyr - leu -



5' ^{*89330} ^{*} ^{*89320} ^{*} ^{*89310} ^{*} ^{*89300} ^{*} ^{*89290} ^{*} ^{*89280} ^{*} ^{*89270} ^{*} ^{*89260} ^{*}
t t c c c g g t t a a c a g t c c t t g t t a c g t c t g t g t g g c g c t t g a t g c c a g c g g g t t t t g c g c a a a a g c a a a g a a a g t g t t t g t 3'
- phe - pro - gly -
- pro - arg - leu - thr - val - leu - val - thr - ser - val - trp - arg - leu - met - pro - ala - gly - leu - arg - lys - ser - lys - glu - lys - cys - leu - leu -

5' ^{*89250} ^{*} ^{*89240} ^{*} ^{*89230} ^{*} ^{*89220} ^{*} ^{*89210} ^{*} ^{*89200} ^{*} ^{*89190} ^{*} ^{*89180} ^{*}
t a a a t c g g c a a t t c a t c g c c g c a t g t a a c a a a a t a a t g c a a a a a c g c g c t g t c g a t a t c a c t t a a t t a t t g t g a a t t t c a g 3'
- lys - ser - ala - ile - his - arg - arg - met -
- asn - arg - gln - phe - ile - ala - ala - cys - asn - lys - ile - met - gln - lys - arg - ala - val - asp - ile - thr -
-fMet - asn - phe - ser -
-fMet -

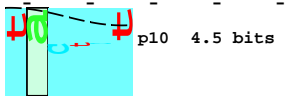
5' ^{*89170} ^{*} ^{*89160} ^{*} ^{*89150} ^{*} ^{*89140} ^{*} ^{*89130} ^{*} ^{*89120} ^{*} ^{*89110} ^{*} ^{*89100} ^{*}
c t g g t g a g t t a a t t a a c c g g g c g g g t t t a a a a g c a t t t a t c a a t a a t a g t c a g g a a a t a g t c t t a t t a c t t t a g a c a t a t t g 3'
-fMet - ser -
- trp -
-fMet -



... p35-(26)-p10 89082 Gap
 ... p35-p10 89082 total 5.5

5' * * * * *
 *89090 * * * * *
 *89080 * * * * *
 *89070 * * * * *
 *89060 * * * * *
 *89050 * * * * *
 *89040 * * * * *
 *89030 * * * * *
 *89020 * * * * *
 a t g t c c a g t c c c g t a c t c t a c g c g c c a g a g g g a a a t t c a c c t g g c g c g t a t t t t g t t c g c g g c t t a g c t a c g g c t g a g c a 3'
 - met - ser - ser - pro - val - leu - tyr - ala - pro - glu - gly - asn - ser - pro - gly - ala - tyr - phe - cys - ser - arg - leu - ser - tyr - gly -

-fMet - phe - ala - ala -



p10 4.5 bits

<----- ... NC_000913.fruR

... p35-(26)-p10 89082 Gap 3.7 bits
 ... p35-p10 89082 total 5.5 bits

5' *
 c g c 3'

... ----- ... NC_000913.fruR