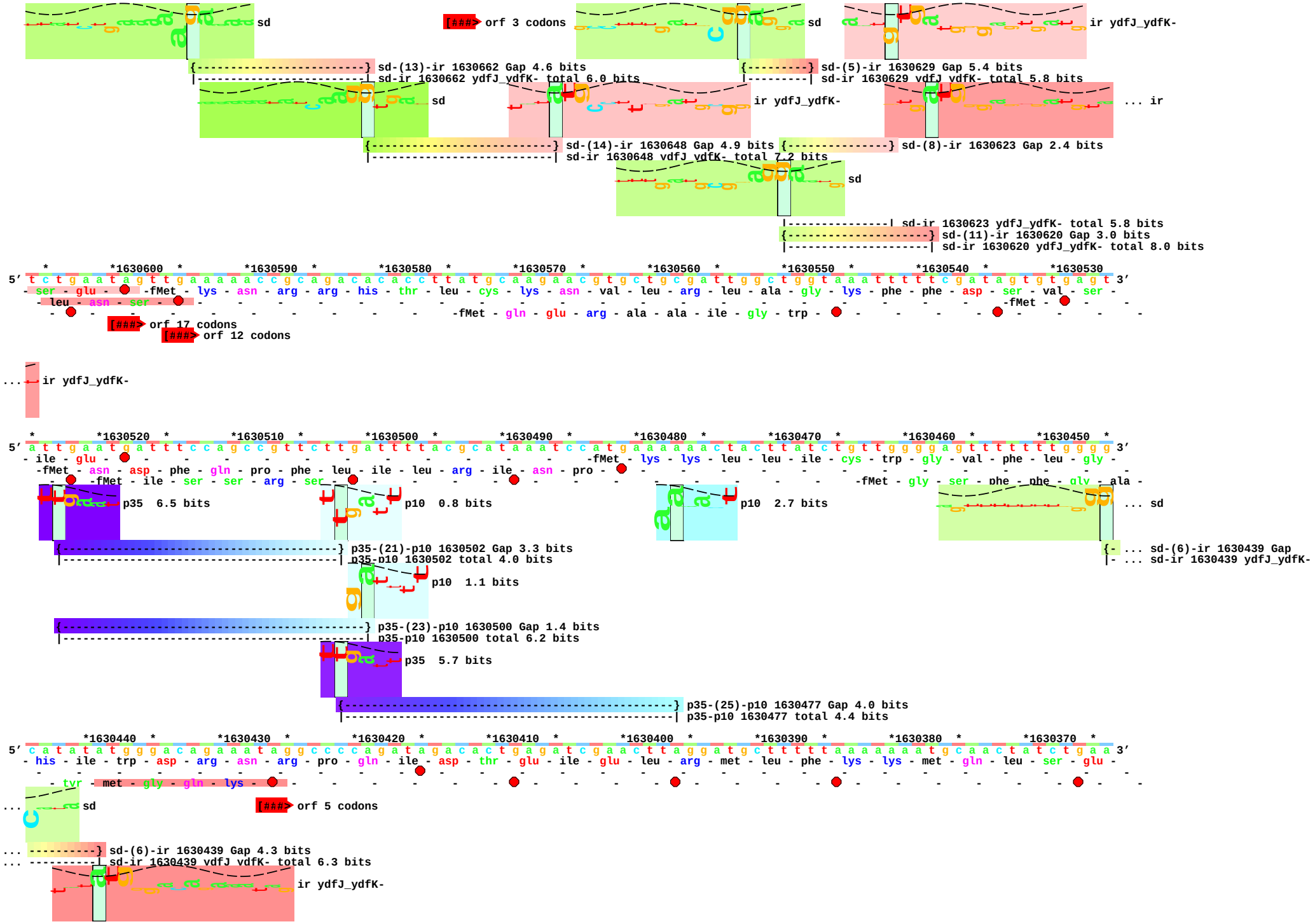
piece 1, NC_000913, ydfJ_ydfK-, config: linear, direction: -, begin: 1631092, end: 1630290

... ir ydfJ_ydfK-
p35 2.1 bits
{----------} sd-(9)-ir 1630885 Gap 2.3 bits
|----------| sd-ir 1630885 ydfJ_ydfK- total 6.8 bits
... ir ydfJ_ydfK-
p35 0.7 bits
p10 6.4 bits
{----------} p35-(26)-p10 1630885 Gap 3.7 bits
|----------| p35-p10 1630885 total 4.8 bits
p10 5.9 bits
{----------} p35-(22)-p10 1630880 Gap 2.3 bits
|----------| p35-p10 1630880 total 4.3 bits
p35 6.4 bits
{---------- ... p35-(26)-p10 1630849 Gap
|---------- ... p35-p10 1630849 total 7.8
... ----------} p35-(26)-p10 1630924 Gap 3.7 bits
... ----------| p35-p10 1630924 total 4.1 bits
*1630840 *1630830 *1630820 *1630810 *1630800 *1630790 *1630780 *1630770
5' a a a g t t c g t a g a t a a c a t t g t c g t t t c a g g t a t a c a g g a a t g c t a a c a g g t g g c a g c a a a a a t c a g g c g g t t t a t g g c g c 3'
- lys - val - arg - arg - - -fMet - ser - phe - gln - val - tyr - arg - asn - ala - asn - arg - trp - gln - gln - lys - ser - gly - gly - leu - trp - arg -
- lys - phe - val - asp - lys - his - cys - arg - phe - arg - tyr - thr - gly - met - leu - thr - gly - gly - ser - lys - asn - gln - ala - val - tyr - gly - ala -
-fMet - ala - ala - lys - ile - arg - arg - phe - met - ala - gln -
... p10 5.1 bits
sd
ir ydfJ_ydfK-
... ir
{----------} sd-(10)-ir 1630809 Gap 2.7 bits
|----------| sd-ir 1630809 ydfJ_ydfK- total 5.6 bits
{----------} sd-(7)-ir 1630775 Gap 3.7 bits
|----------| sd-ir 1630775 ydfJ_ydfK- total 8.2 bits
sd
ir ydfJ_ydfK-
{----------} sd-(12)-ir 1630799 Gap 4.0 bits
|----------| sd-ir 1630799 ydfJ_ydfK- total 6.3 bits
sd
... } p35-(26)-p10 1630849 Gap 3.7 bits
... | p35-p10 1630849 total 7.8 bits
*1630760 *1630750 *1630740 *1630730 *1630720 *1630710 *1630700 *1630690
5' a a g c t g a a g c g g c a a c t g c a a a c t a t c t t a t g t a g a g a c t c t a c a c g g a t t g g g t t t a a a a g t a t a c a t a g a t a a c a g t t t 3'
- lys - leu - lys - arg - gln - leu - gln - thr - ile - leu - cys - arg - asp - ser - thr - arg - ile - gly - phe - lys - ser - ile - his - arg - - -
- ser - - -fMet - gly - leu - lys - val - tyr - ile - asp - asn - ser - phe -
- ala - glu - ala - ala - thr - ala - asn - tyr - leu - met -
... ir ydfJ_ydfK-
[###> orf 22 codons
p35 5.6 bits
... p10
[###> orf 16 codons
{----------} p35-(25)-p10 1630688 Gap 4.0 b
|----------| p35-p10 1630688 total 4.7 bits
*1630680 *1630670 *1630660 *1630650 *1630640 *1630630 *1630620 *1630610
5' t t a t c t g a a a a a g a a a a a t a t c a a g g t g a t a t a g c c t a t a t g c c t t t g a t g c g a g g a g a a t g a a t g t g a t g g a g t g a t g t a 3'
-fMet - pro - leu - met - arg - arg - asn - glu - cys - asp - gly - ser - asp - val -
- tyr - leu - lys - lys - lys - asn - ile - lys - val - ile - -fMet - asn - val - met - gly - val - met - tyr -
-fMet -
... p10 3.2 bits
ir ydfJ_ydfK-
ir ydfJ_ydfK-


sd
[###> orf 3 codons
sd
ir ydfJ_ydfK-
sd-(13)-ir 1630662 Gap 4.6 bits
sd-ir 1630662 ydfJ_ydfK- total 6.0 bits
sd-(5)-ir 1630629 Gap 5.4 bits
sd-ir 1630629 ydfJ_ydfK- total 5.8 bits
sd
ir ydfJ_ydfK-
... ir
sd-(14)-ir 1630648 Gap 4.9 bits
sd-ir 1630648 ydfJ_ydfK- total 7.2 bits
sd-(8)-ir 1630623 Gap 2.4 bits
sd
sd-ir 1630623 ydfJ_ydfK- total 5.8 bits
sd-(11)-ir 1630620 Gap 3.0 bits
sd-ir 1630620 ydfJ_ydfK- total 8.0 bits
*1630600 *1630590 *1630580 *1630570 *1630560 *1630550 *1630540 *1630530
5' t c t g a a t a g t t g a a a a a c c g c a g a c a c a c c t t a t g c a a g a a c g t g c t g c g a t t g g c t g g t a a a t t t t c g a t a g t g t g a g t 3'
- ser - glu - fMet - lys - asn - arg - arg - his - thr - leu - cys - lys - asn - val - leu - arg - leu - ala - gly - lys - phe - phe - asp - ser - val - ser -
- leu - asn - ser - fMet - fMet - gln - glu - arg - ala - ala - ile - gly - trp -
[###> orf 17 codons
[###> orf 12 codons
... ir ydfJ_ydfK-
*1630520 *1630510 *1630500 *1630490 *1630480 *1630470 *1630460 *1630450
5' a t t g a a t g a t t c c a g c c g t t c t t g a t t t a c g c a t a a a t c c a t g a a a a a a c t a c t t a t c t g t t g g g g a g t t t t t t t g g g g 3'
- ile - glu - fMet - lys - lys - leu - leu - ile - cys - trp - gly - val - phe - leu - gly -
-fMet - asn - asp - phe - gln - pro - phe - leu - ile - leu - arg - ile - asn - pro -
- fMet - ile - ser - ser - arg - ser - fMet - gly - ser - phe - phe - gly - ala -
p35 6.5 bits
p10 0.8 bits
p10 2.7 bits
... sd
p35-(21)-p10 1630502 Gap 3.3 bits
p35-p10 1630502 total 4.0 bits
... sd-(6)-ir 1630439 Gap
... sd-ir 1630439 ydfJ_ydfK-
p10 1.1 bits
p35-(23)-p10 1630500 Gap 1.4 bits
p35-p10 1630500 total 6.2 bits
p35 5.7 bits
p35-(25)-p10 1630477 Gap 4.0 bits
p35-p10 1630477 total 4.4 bits
*1630440 *1630430 *1630420 *1630410 *1630400 *1630390 *1630380 *1630370
5' c a t a t a t g g g a c a g a a a t a g g c c c c a g a t a g a c a c t g a g a t c g a a c t t a g g a t g c t t t t t a a a a a a t g c a a c t a t c t g a a 3'
- his - ile - trp - asp - arg - asn - arg - pro - gln - ile - asp - thr - glu - ile - glu - leu - arg - met - leu - phe - lys - lys - met - gln - leu - ser - glu -
- tyr - met - gly - gln - lys -
... sd
[###> orf 5 codons
... sd-(6)-ir 1630439 Gap 4.3 bits
... sd-ir 1630439 ydfJ_ydfK- total 6.3 bits
ir ydfJ_ydfK-

```
       *1630360  *         *1630350  *         *1630340  *         *1630330  *         *1630320  *         *1630310  *         *1630300  *         *1630290
5' a a a a c c t a g a a a a c g c c a a g g a a a c c a c a g g a t g g g a a a a a c a c c t g t g a a t t a t g g a t t t c c a g t t a t a t t c 3'
 - lys - thr - ● -     -     -     -     -     -     -     -     -     -     -     -     -     - ● -     -fMet - asp - phe - gln - leu - tyr -
   -     -     -     -     -     -     -     -     -     -     -fMet - gly - lys - asn - thr - cys - glu - leu - trp - ile - ser - ser - tyr - ile -
     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -     -fMet - asn - tyr - gly - phe - pro - val - ile - phe -
```

```
                  sd                                ir ydfJ_ydfK-   [---------------------------------------- ... NC_000913.ydfJ
{----------------------} sd-(11)-ir 1630332 Gap 3.0 bits
|----------------------| sd-ir 1630332 ydfJ_ydfK- total 10.9 bits
```