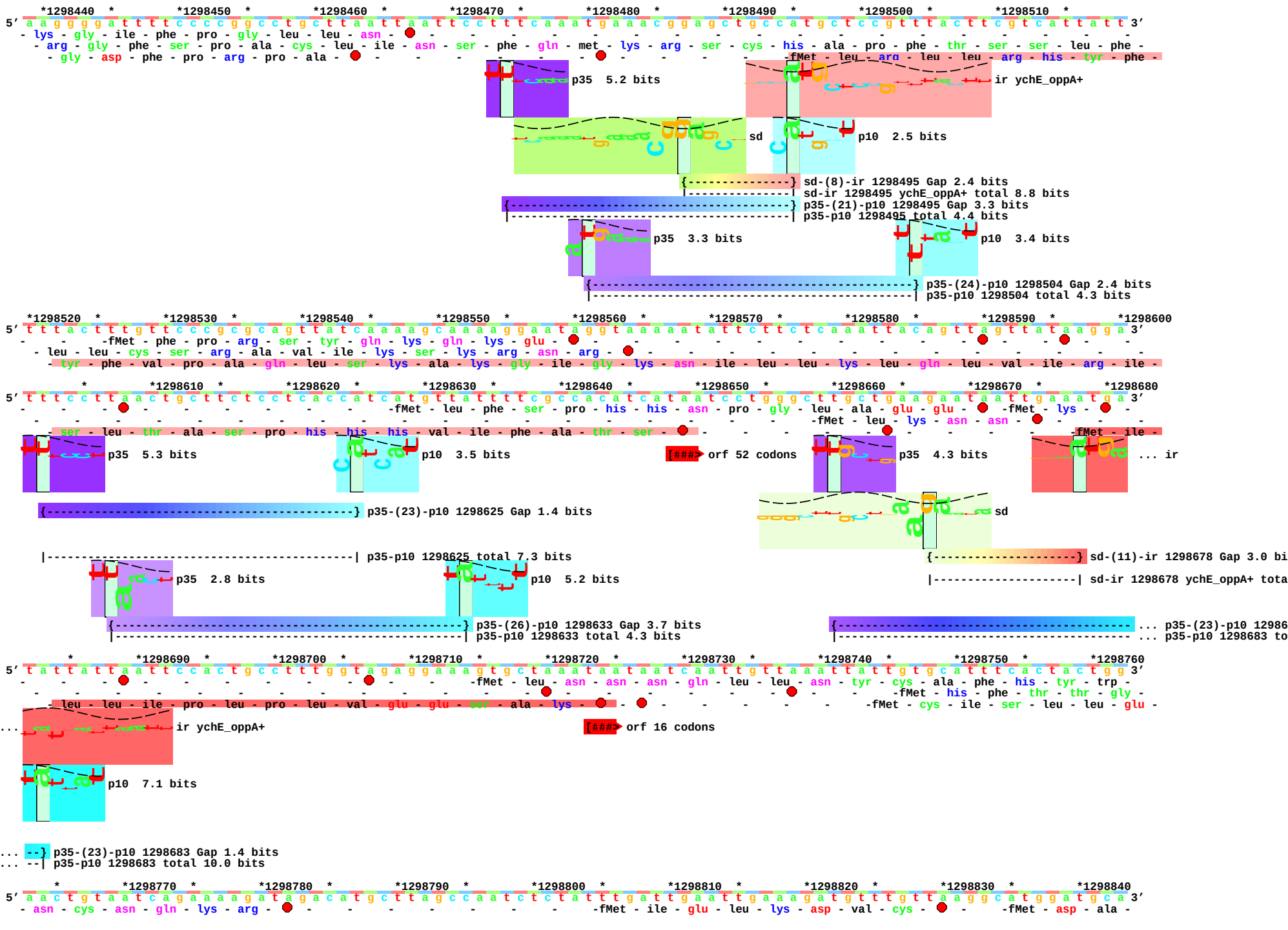
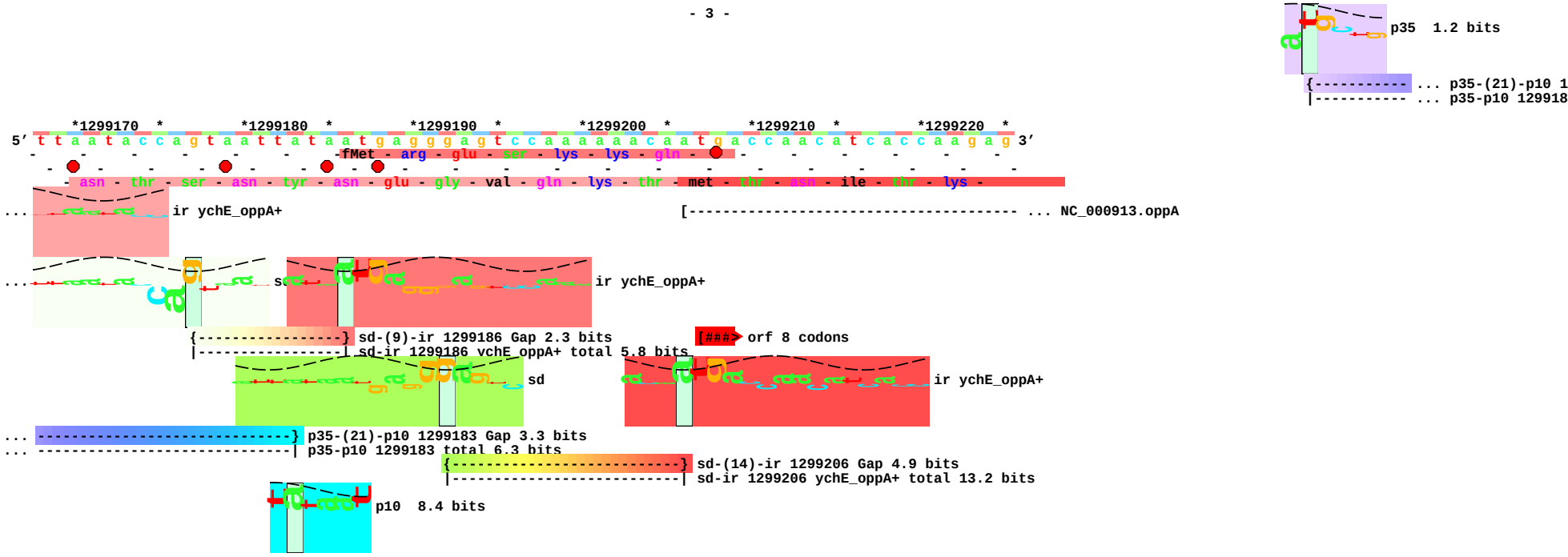
piece 1, NC_000913, ychE_oppA+, config: linear, direction: +, begin: 1298439, end: 1299225



- thr - val - ile - arg - lys - asp - arg - his - ala - -fMet - asn -
- leu - -fMet - leu - ser - gln - ser - leu - phe - asp -
ir ychE_oppA+
[###> orf 9 codons
sd
{----------} sd-(7)-ir 1298786 Gap 3.7 bits
|----------| sd-ir 1298786 ychE_oppA+ total 5.4 bits
-fMet - phe - val - lys - ala - trp - met - gln -
-fMet - leu - arg - his - gly - cys - lys -
... ir
sd
{----------} sd-(6)-ir 1298839 Gap 4.3 b
|----------| sd-ir 1298839 ychE_oppA+ to
p35 4.7 bits
{---------- ... p35-(24)-p10 1
|---------- ... p35-p10 129885
*1298850 *1298860 *1298870 *1298880 *1298890 *1298900 *1298910 *1298920
5' a g c t a g a t t c t g a t a c g g t c a a t a a a g a g a a t t g c t t a a c a a t t t t g c a a a a t g t a t t g g c g a g t a a g a a c c g c a t t t 3'
- ser - tyr - arg - phe - -fMet - tyr - trp - arg - val - arg - thr - ala - phe -
- ala - ile - asp - ser - asp - thr - val - asn - lys - arg - glu - leu - leu - asn - asn - phe - ala - lys - cys - ile - gly - glu - -fMet -
- leu - -fMet - gln - asn - val - leu - ala - ser - lys - asn - arg - ile - trp -
... ir ychE_oppA+
[###> orf 25 codons
p10 4.7 bits
p35 2.1 bits
{---------- ... p35-(23)-p10 1
|---------- ... p35-p10 129892
... {----------} p35-(24)-p10 1298850 Gap 2.4 bits
... |----------| p35-p10 1298850 total 6.9 bits
*1298930 *1298940 *1298950 *1298960 *1298970 *1298980 *1298990 *1299000 *
5' g g t a c t t t c c g g g c a a c c g c c a g a c g a t t c t t t a t t g g t a a t g a g a a t a a t t a a c a a t t a a a g a g c g t c g c g a a a g a a t a a 3'
- gly - thr - phe - arg - ala - thr - ala - arg - arg - phe - phe - ile - gly - asn - glu - asn - asn -
- val - leu - ser - gly - gln - pro - pro - asp - asp - ser - leu - leu - val - met - arg - ile - ile - asn - asn -
- tyr - phe - pro - gly - asn - arg - gln - thr - ile - leu - tyr - trp -
-fMet -
p10 3.8 bits
p35 4.8 bits
p10 3.2 bits
{----------} p35-(22)-p10 1298978 Gap 2.3 bits
|----------| p35-p10 1298978 total 5.6 bits
... {------} p35-(23)-p10 1298928 Gap 1.4 bits
... |------| p35-p10 1298928 total 4.5 bits
*1299010 *1299020 *1299030 *1299040 *1299050 *1299060 *1299070 *1299080 *
5' t g t g t c t c g a c a g g g g a g a c a c a g t a c g a a t c g a c a t a a g g t g a t c g t c t g a a t c a c c a g a a t a a a t a a g t c g g t g a t a g 3'
-fMet - ser - arg - gln - gly - arg - his - ser - thr - asn - arg - his - lys - val - ile - val -
- cys - leu - asp - arg - gly - asp - thr - val - arg - ile - asp - ile - arg -
-fMet - ile - val -
*1299090 *1299100 *1299110 *1299120 *1299130 *1299140 *1299150 *1299160 *
5' t a a t a c g t a a c g a t a a a g t a a c c t g a c a g c a g a a a g t c t c c g a g c c t g t g c a g g g t c c c a a t c c g g g a t t a c a c a t g c t g g 3'
- ile - arg - asn - asp - lys - val - thr -
-fMet - gln - gly - pro - asn - pro - gly - leu - his - met - leu - val -
... ir
sd
... sd
{----------} sd-(8)-ir 1299161 Gap 2.4 bits
|----------| sd-ir 1299161 ychE_oppA+ total


p35 1.2 bits
{---------- ... p35-(21)-p10 1
|---------- ... p35-p10 129918
*1299170 *
*1299180 *
*1299190 *
*1299200 *
*1299210 *
*1299220 *
5' t t a a t a c c a g t a a t t a t a a t g a g g g a g t c c a a a a a a c a a t g a c c a a c a t c a c c a a g a g 3'
fMet - arg - glu - ser - lys - lys - gln -
asn - thr - ser - asn - tyr - asn - glu - gly - val - gln - lys - thr - met - thr - asn - ile - thr - lys -
... ir ychE_oppA+
[---------- ... NC_000913.oppA
... sd
ir ychE_oppA+
{----------} sd-(9)-ir 1299186 Gap 2.3 bits
|----------| sd-ir 1299186 ychE_oppA+ total 5.8 bits
[###> orf 8 codons
sd
ir ychE_oppA+
... {----------} p35-(21)-p10 1299183 Gap 3.3 bits
... |----------| p35-p10 1299183 total 6.3 bits
{----------} sd-(14)-ir 1299206 Gap 4.9 bits
|----------| sd-ir 1299206 ychE_oppA+ total 13.2 bits
p10 8.4 bits