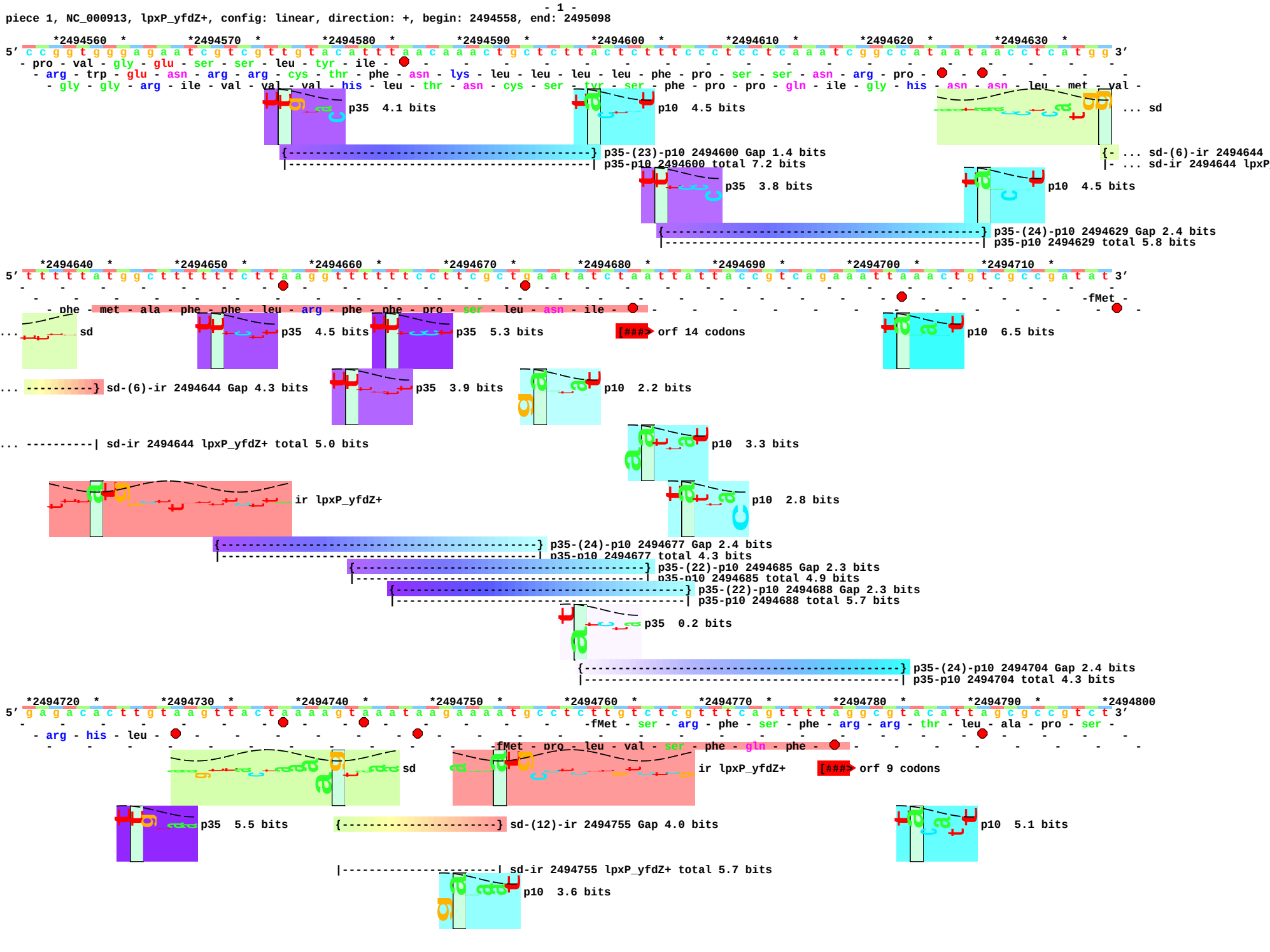
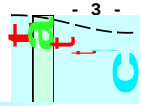

piece 1, NC_000913, lpxP_yfdZ+, config: linear, direction: +, begin: 2494558, end: 2495098
*2494560 *2494570 *2494580 *2494590 *2494600 *2494610 *2494620 *2494630
5′ c c g g t g g g a g a a t c g t c g t t g t a c a t t t a a c a a a c t g c t c t t a c t c t t t c c c t c c t c a a a t c g g c c a t a a t a a c c t c a t g g 3′
- pro - val - gly - glu - ser - ser - leu - tyr - ile -
- arg - trp - glu - asn - arg - arg - cys - thr - phe - asn - lys - leu - leu - leu - leu - phe - pro - ser - ser - asn - arg - pro -
- gly - gly - arg - ile - val - val - val - his - leu - thr - asn - cys - ser - tyr - ser - phe - pro - pro - gln - ile - gly - his - asn - asn - leu - met - val -
p35 4.1 bits
p10 4.5 bits
... sd
{---------- p35-(23)-p10 2494600 Gap 1.4 bits
|---------- p35-p10 2494600 total 7.2 bits
{- ... sd-(6)-ir 2494644
|- ... sd-ir 2494644 lpxP
p35 3.8 bits
p10 4.5 bits
{---------- p35-(24)-p10 2494629 Gap 2.4 bits
|---------- p35-p10 2494629 total 5.8 bits
*2494640 *2494650 *2494660 *2494670 *2494680 *2494690 *2494700 *2494710
5′ t t t t t a t g g c t t t t t t c t t a a g g t t t t t t c c t t c g c t g a a t a t c t a a t t a t t a c c g t c a g a a a t t a a a c t g t c g c c g a t a t 3′
-fMet -
- phe - met - ala - phe - phe - leu - arg - phe - phe - pro - ser - leu - asn - ile -
... sd
p35 4.5 bits
p35 5.3 bits
[###> orf 14 codons
p10 6.5 bits
... ----------} sd-(6)-ir 2494644 Gap 4.3 bits
p35 3.9 bits
p10 2.2 bits
... ----------| sd-ir 2494644 lpxP_yfdZ+ total 5.0 bits
p10 3.3 bits
ir lpxP_yfdZ+
p10 2.8 bits
{---------- p35-(24)-p10 2494677 Gap 2.4 bits
|---------- p35-p10 2494677 total 4.3 bits
{---------- p35-(22)-p10 2494685 Gap 2.3 bits
|---------- p35-p10 2494685 total 4.9 bits
{---------- p35-(22)-p10 2494688 Gap 2.3 bits
|---------- p35-p10 2494688 total 5.7 bits
p35 0.2 bits
{---------- p35-(24)-p10 2494704 Gap 2.4 bits
|---------- p35-p10 2494704 total 4.3 bits
*2494720 *2494730 *2494740 *2494750 *2494760 *2494770 *2494780 *2494790 *2494800
5′ g a g a c a c t t g t a a g t t a c t a a a a g t a a a t a a g a a a a a t g c c t c t t g t c t c g t t t c a g t t t t a g g c g t a c a t t a g c g c c g t c t 3′
- arg - his - leu -
-fMet - ser - arg - phe - ser - phe - arg - arg - thr - leu - ala - pro - ser -
-fMet - pro - leu - val - ser - phe - gln - phe -
sd
ir lpxP_yfdZ+
[###> orf 9 codons
p35 5.5 bits
{---------- sd-(12)-ir 2494755 Gap 4.0 bits
p10 5.1 bits
|---------- sd-ir 2494755 lpxP_yfdZ+ total 5.7 bits
p10 3.6 bits

- 2 -
p35-(24)-p10 2494752 Gap 2.4 bits
p35-p10 2494752 total 6.7 bits
p35 5.6 bits
p35-(23)-p10 2494786 Gap 1.4 bits
p35-p10 2494786 total 9.2 bits
5′ c g a g c a g t t t a g c t c a g a a t t c t g g g g t g a t g c c c a c g g t a a a a t a c a g g g c t t t t a a g g t c g c t t t g c c c g g t g t c a a c t 3′
- arg - ala - val -
-fMet - ser - thr -
-fMet - met - pro - thr - val - lys - tyr - arg - ala - phe - lys - val - ala - leu - pro - gly - val - asn - ser -
p35 0.4 bits
p10 7.6 bits
... sd
p35-(21)-p10 2494841 Gap 3.3 bits
p35-p10 2494841 total 4.7 bits
5′ c a c t g t a t c a g g t g t a a t g a a g t c a t t c a g g c g t a a c a g t a a t t a c g c g g a g a g a t g t a a a g t g a a a t a t t t c t t t a t g g g 3′
- his - cys - ile - arg - cys - asn - glu - val - ile - gln - ala -
-fMet - lys - ser - phe - arg - arg - asn - ser - asn - tyr - ala - glu - arg - cys - lys - val - lys - tyr - phe - phe - met - gly -
- leu - tyr - gln - val -
... sd
ir lpxP_yfdZ+
ir lpxP_yfdZ+
[###> orf 2 codons
p35 4.5 bits
{---------} sd-(5)-ir 2494898 Gap 5.4 bits
sd
ir lpxP_yfdZ+
|---------| sd-ir 2494898 lpxP_yfdZ+ total 7.2 bits
{---------} sd-(5)-ir 2494936 Gap 5.4 bits
{---------- ... p35-(21)-p10 2
|---------| sd-ir 2494936 lpxP_yfdZ+ total 7.9 bits
{----------} sd-(12)-ir 2494943 Gap 4.0 bits
|----------| sd-ir 2494943 lpxP_yfdZ+ total 8.3 bits
|---------- ... p35-p10 249497
5′ c a t t t c t t t t a t g g t c a t c g t t t g g g c c g g t a c t t t t g c c c t g a t g a t c t a a a a g c a a a c t g t g c a a t g a a a a a c a g g a g c 3′
-fMet - gly - arg - tyr - phe - cys - pro - asp - asp - leu - lys - ala - asn - cys - ala - met - lys - asn - arg - ser -
- ile - ser - phe - met - val - ile - val - trp - ala - gly - thr - phe - ala - leu - met - ile -
-fMet - pro -
-fMet - gln -
p10 3.9 bits
p10 3.8 bits
[###> orf 39 codons
ir lpxP_yfdZ+
p35 3.8 bits
sd
{----------} p35-(23)-p10 2494994 Gap 1.4 bits
{----------} sd-(12)-ir 2495029 Gap 4.0 bits
... ----------} p35-(21)-p10 2494973 Gap 3.3 bits
|----------| sd-ir 2495029 lpxP_yfdZ+ total 5.5 bits
|----------| p35-p10 2494994 total 6.1 bits
... ----------| p35-p10 2494973 total 5.1 bits
5′ c a t c a g g c t c c t g t t t g c a t t t c t g a c g a c g g t g t t t a t t c c g c g t t t t c g t g a a 3′
- his - gln - ala - pro - val - cys - ile - ser - asp - asp - gly - val - tyr - ser - ala - phe - ser -
-fMet - phe - ile - pro - arg - phe - arg - glu -
-fMet - his - phe -
-fMet -
p35 6.2 bits
<---------- ... NC_000913.yfdZ



p10 1.7 bits [###> orf 23 codons

{--} p35-(22)-p10 2495081 Gap 2.3 bits
|--| p35-p10 2495081 total 5.5 bits