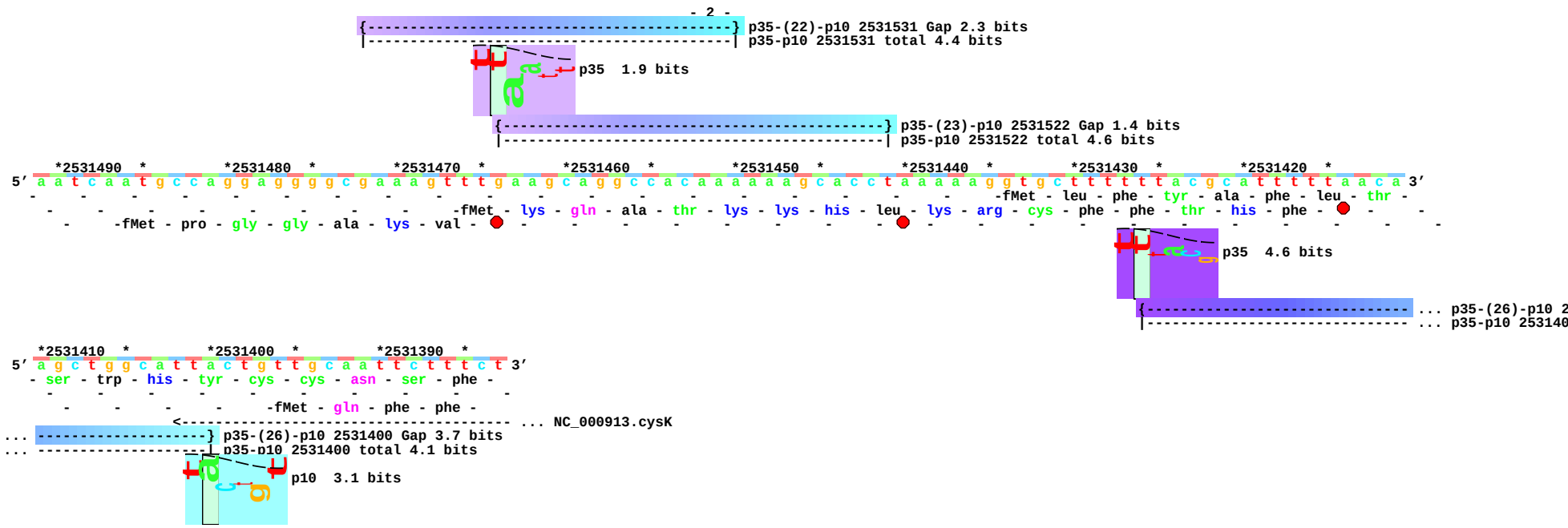
piece 1, NC_000913, cysK_ptsH-, config: linear, direction: -, begin: 2531815, end: 2531383
*2531810 *2531800 *2531790 *2531780 *2531770 *2531760 *2531750 *2531740 *
5′ a g c g g t a a t g g t a a c t t c t t g c t g g a a c a t t g t a t t t c c c c a a c t t a t a g g t t t a g t g t t g t g g a a c t a a a g t c t a g c c t g 3′
- ser - gly - asn - gly - asn - phe - leu - leu - glu - his - cys - ile - ser - pro - thr - tyr - arg - phe - ser - val - val - glu - leu - lys - ser - ser - leu -
- ala - val - met - val - thr - ser - cys - trp - asn - ile - val - phe - pro - gln - leu - ile - gly - leu - val - leu - trp - asn -
- arg - -fMet - tyr - phe - pro - asn - leu -
... ----------] NC_000913.ptsH
p10 2.0 bits
p10 5.1 bits
p35 5.7 bits
p10 2.8 bits
p10 3.4 bits
{----------} p35-(22)-p10 2531763 Gap 2.3 bits
|----------| p35-p10 2531763 total 5.3 bits
{----------} p35-(24)-p10 2531761 Gap 2.4 bits
|----------| p35-p10 2531761 total 6.0 bits
p35 0.9 bits
{----------} p35-(23)-p10 2531747 Gap 1.4 bits
|----------| p35-p10 2531747 total 4.5 bits
p35 3.8 bits
{----------} p35-(23)-p10 2531740 Gap 1.4 bits
|----------| p35-p10 2531740 total 5.8 bits
*2531730 *2531720 *2531710 *2531700 *2531690 *2531680 *2531670 *2531660 *
5′ g c g g t t c g a c t t t a g c c t g t a t t g t t a g c g c c a g t t t t t a a c a g a c c g c g a c g c a c g a a g a g c g c a a t a c a g t c c a t t g c t g 3′
- ala - val - arg - leu - -fMet - leu - ala - pro - val - phe - asn - arg - arg - asp - ala - arg - arg - ala - gln - tyr - ser - pro - leu - leu -
*2531650 *2531640 *2531630 *2531620 *2531610 *2531600 *2531590 *2531580 *
5′ g c g g g t g t t g a c c g c t g a c g t t t c g t a c g t c a t t a a a c a t t a t g c c g c t a a a g g a a g a a t t g a a c c a a a t c a t a a a a t c g a 3′
- ala - gly - val - asp - arg -
-fMet - leu - thr - ala - asp - val - ser - tyr - val - ile - lys - his - tyr - ala - ala - lys - gly - arg - ile - glu - pro - asn - his - lys - ile - asp -
-fMet - pro - leu - lys - glu - glu - leu - asn - gln - ile - ile - lys - ser - ile -
ir cysK_ptsH-
sd
p10 7.6 bits
{----------} sd-(6)-ir 2531594 Gap 4.3 bits
|----------| sd-ir 2531594 cysK_ptsH- total 6.4 bits
p35 0.3 bits
{----------} p35-(21)-p10 2531580 Gap 3.3 bits
|----------| p35-p10 2531580 total 4.6 bits
*2531570 *2531560 *2531550 *2531540 *2531530 *2531520 *2531510 *2531500 *
5′ t t c a g c t t t g g c t t t t c c t g t a a c g a t t a a t t t c g c g c a t c a a a a t a a t t a g t c t g g t t a a a t a c c a g t t c c g a c a g g c t g 3′
- ser - ala - leu - ala - phe - pro - val - thr - ile - asn - phe - ala - his - gln - asn - asn -
- gln - leu - trp - leu - phe - leu -
[###> orf 15 codons
p10 4.7 bits
p35 2.0 bits
p10 4.1 bits


- 2 -
p35-(22)-p10 2531531 Gap 2.3 bits
p35-p10 2531531 total 4.4 bits
p35 1.9 bits
p35-(23)-p10 2531522 Gap 1.4 bits
p35-p10 2531522 total 4.6 bits
*2531490
*2531480
*2531470
*2531460
*2531450
*2531440
*2531430
*2531420
5′ a a t c a a t g c c a g g a g g g g c g a a a g t t t g a a g c a g g c c a c a a a a a a g c a c c t a a a a a g g t g c t t t t t t a c g c a t t t t t a a c a 3′
-fMet - leu - phe - tyr - ala - phe - leu - thr -
-fMet - lys - gln - ala - thr - lys - lys - his - leu - lys - arg - cys - phe - phe - thr - his - phe -
-fMet - pro - gly - gly - ala - lys - val -
p35 4.6 bits
... p35-(26)-p10 2
... p35-p10 253140
*2531410
*2531400
*2531390
5′ a g c t g g c a t t a c t g t t g c a a t t c t t t c t 3′
- ser - trp - his - tyr - cys - cys - asn - ser - phe -
-fMet - gln - phe - phe -
... NC_000913.cysK
... p35-(26)-p10 2531400 Gap 3.7 bits
... p35-p10 2531400 total 4.1 bits
p10 3.1 bits