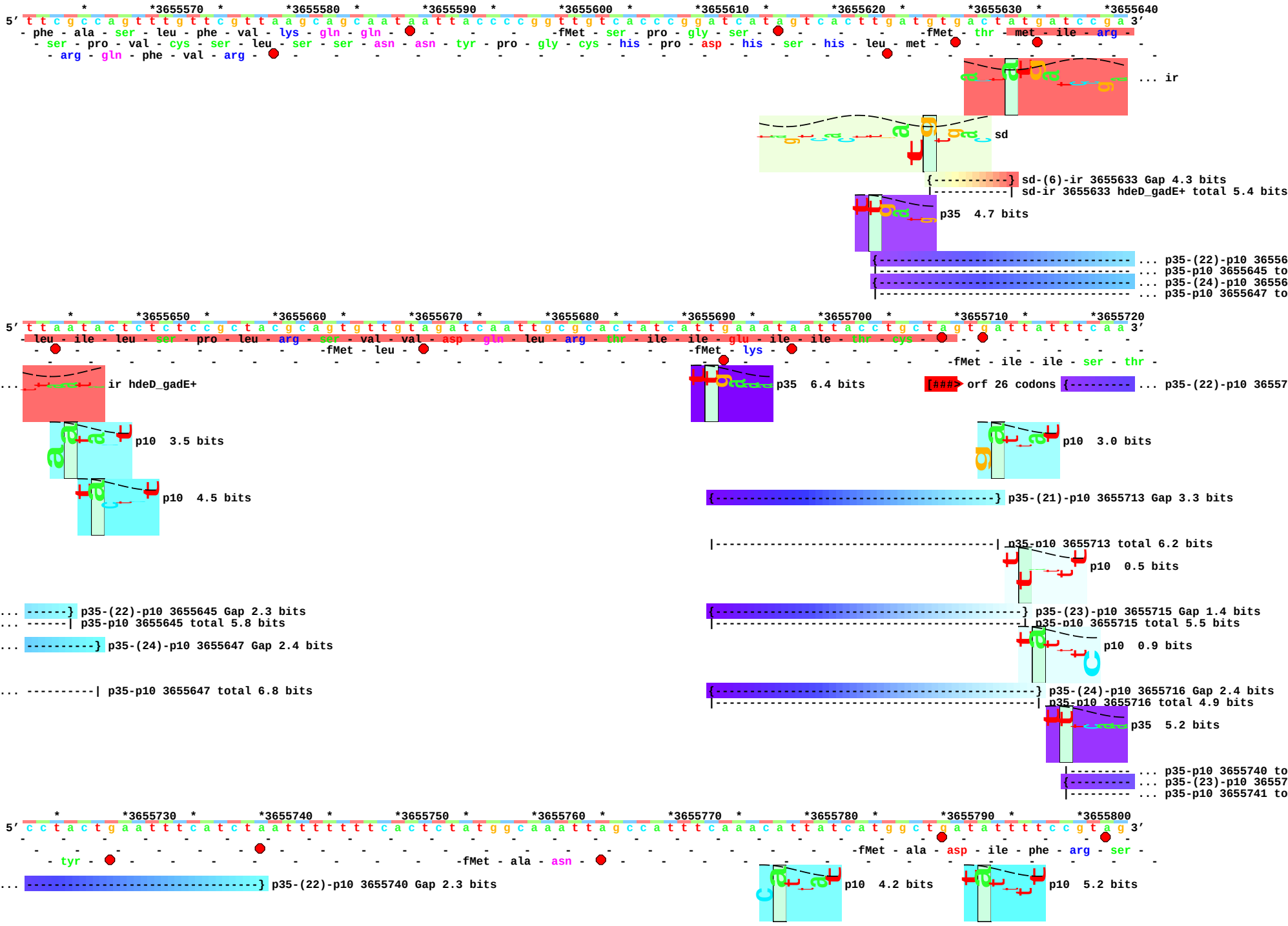
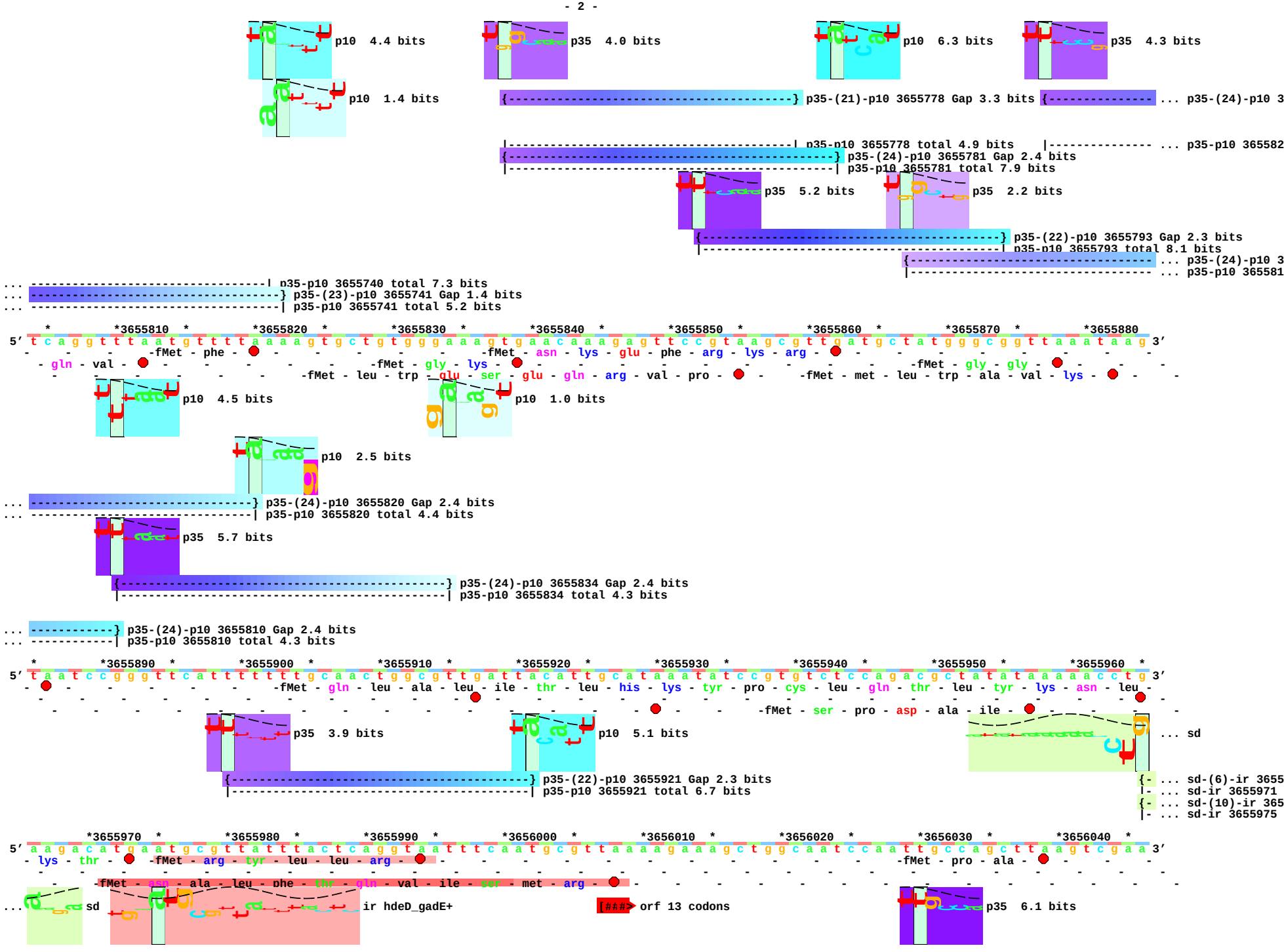
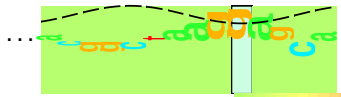
piece 1, NC_000913, hdeD_gadE+, config: linear, direction: +, begin: 3655561, end: 3656408




p10 4.4 bits
p35 4.0 bits
p10 6.3 bits
p35 4.3 bits
p10 1.4 bits
p35-(21)-p10 3655778 Gap 3.3 bits
... p35-(24)-p10 3
p35-p10 3655778 total 4.9 bits
... p35-p10 365582
p35-(24)-p10 3655781 Gap 2.4 bits
p35-p10 3655781 total 7.9 bits
p35 5.2 bits
p35 2.2 bits
p35-(22)-p10 3655793 Gap 2.3 bits
p35-p10 3655793 total 8.1 bits
... p35-(24)-p10 3
... p35-p10 365581
... p35-p10 3655740 total 7.3 bits
... p35-(23)-p10 3655741 Gap 1.4 bits
... p35-p10 3655741 total 5.2 bits
5' t c a g g t t t a a t g t t t t a a a a g t g c t g t g g g a a a g t g a a c a a a g a g t t c c g t a a g c g t t g a t g c t a t g g g c g g t t a a a t a a g 3'
- gln - val - fMet - phe - fMet - asn - lys - glu - phe - arg - lys - arg - fMet - gly - lys - fMet - gly - gly - fMet - leu - trp - glu - ser - glu - gln - arg - val - pro - fMet - met - leu - trp - ala - val - lys -
p10 4.5 bits
p10 1.0 bits
p10 2.5 bits
... p35-(24)-p10 3655820 Gap 2.4 bits
... p35-p10 3655820 total 4.4 bits
p35 5.7 bits
p35-(24)-p10 3655834 Gap 2.4 bits
p35-p10 3655834 total 4.3 bits
... p35-(24)-p10 3655810 Gap 2.4 bits
... p35-p10 3655810 total 4.3 bits
5' t a a t c c g g g t t c a t t t t t t g c a a c t g g c g t t g a t t a c a t t g c a t a a a t a t c c g t g t c t c c a g a c g c t a t a t a a a a a c c t g 3'
- fMet - gln - leu - ala - leu - ile - thr - leu - his - lys - tyr - pro - cys - leu - gln - thr - leu - tyr - lys - asn - leu - fMet - ser - pro - asp - ala - ile -
p35 3.9 bits
p10 5.1 bits
... sd
p35-(22)-p10 3655921 Gap 2.3 bits
p35-p10 3655921 total 6.7 bits
... sd-(6)-ir 3655
... sd-ir 3655971
... sd-(10)-ir 365
... sd-ir 3655975
5' a a g a c a t g a a t g c g t t a t t t a c t c a g g t a a t t t c a a t g c g t t a a a a g a a a g c t g g c a a t c c a a t t g c c a g c t t a a g t c g a a 3'
- lys - thr - fMet - arg - tyr - leu - leu - arg - fMet - pro - ala - fMet - asn - ala - leu - phe - thr - gln - val - ile - ser - met - arg -
... sd
ir hdeD_gadE+
[###> orf 13 codons
p35 6.1 bits

- 3 -
... ----------} sd-(6)-ir 3655971 Gap 4.3 bits
[###> orf 7 codons
p10 2.5 bits
{---------- ... p35-(23)-p10 3
... ----------| sd-ir 3655971 hdeD_gadE+ total 7.1 bits
ir hdeD_gadE+
|---------- ... p35-p10 365605
... ----------} sd-(10)-ir 3655975 Gap 2.7 bits
{----------} sd-(9)-ir 3656001 Gap 2.3 bits
... ----------| sd-ir 3655975 hdeD_gadE+ total 5.0 bits
ir hdeD_gadE+
p10 4.4 bits
sd
p35 3.5 bits
|----------| sd-ir 3656001 hdeD_gadE+ total 11.5 bits
{----------} p35-(22)-p10 3655994 Gap 2.3 bits
|----------| p35-p10 3655994 total 5.5 bits
p35 5.7 bits
{----------} p35-(24)-p10 3656008 Gap 2.4 bits
|----------| p35-p10 3656008 total 5.8 bits
*3656050 *3656060 *3656070 *3656080 *3656090 *3656100 *3656110 *3656120 *
5′ a c a a g g a g a c t c g a t a t t t a a a t c g g a t t a c a t t t t a a c t t t a g t a a t a t t c t t c a g a g a t c a c a a a c t g g t t a t t g a t a a 3′
-fMet - ile - thr -
p10 1.4 bits
p35 2.4 bits
p10 2.0 bits
p10 3.6 bits
... ----------} p35-(23)-p10 3656053 Gap 1.4 bits
p10 6.0 bits
p35 5.6 bits
... ----------| p35-p10 3656053 total 6.0 bits
{----------} p35-(21)-p10 3656095 Gap 3.3 bits
{---------- ... p35-(22)-p10 3
p35 5.6 bits
p35 3.8 bits
|---------- ... p35-p10 365614
{----------} p35-(23)-p10 3656087 Gap 1.4 bits
|----------| p35-p10 3656087 total 6.1 bits
|----------| p35-p10 3656095 total 5.1 bits
{----------} p35-(24)-p10 3656111 Gap 2.4 bits
|----------| p35-p10 3656111 total 5.0 bits
*3656130 *3656140 *3656150 *3656160 *3656170 *3656180 *3656190 *3656200 *
5′ c t t a t t c t t g g g c a g t a a t c c g c a a a c g t t a a c t t t t t g t t t g c t a t t t a c a a g c t g a t a a c a a c c a g g a a t c t t a c t t a g 3′
-fMet - phe - ala - ile - tyr - lys - leu - ile - thr - thr - arg - asn - leu - thr -
-fMet - gly - ser - asn - pro - gln - thr - leu - thr - phe - cys - leu - leu - phe - thr - ser -
- tyr - ser - trp - ala - val - ile - arg - lys - arg -
p10 0.9 bits
p35 5.5 bits
... sd
p10 1.1 bits
... ----------} p35-(22)-p10 3656144 Gap 2.3 bits
... ----------| p35-p10 3656144 total 4.2 bits
{----------} p35-(22)-p10 3656197 Gap 2.3 bits
|----------| p35-p10 3656197 total 4.3 bits

p10 0.7 bits
p35-(23)-p10 3656198 Gap 1.4 bits
p35-p10 3656198 total 4.8 bits
*3656210 *3656220 *3656230 *3656240 *3656250 *3656260 *3656270 *3656280 *
5′ g a t c a a t a t a t g g a g t g c g t g a t g g a t a a a t c t g a a g t a t t g a t t a g t g t t a a t a g a c g t a t t a g t t c a c g a a g g g t a a a g 3′
- - - -fMet - glu - cys - val - met - asp - lys - ser - glu - val - leu - ile - ser - val - asn - arg - arg - ile - ser - ser - arg - arg - val - lys -
-fMet - leu - ile - asp - val - leu - val - his - glu - gly -
-fMet - arg - asp - gly -
... sd ir hdeD_gadE+
p35 1.4 bits
... p10
{----------} sd-(9)-ir 3656218 Gap 2.3 bits
|----------| sd-ir 3656218 hdeD_gadE+ total 6.1 bits
{----------} p35-(23)-p10 3656286 Gap
|----------| p35-p10 3656286 total 5.1
ir hdeD_gadE+
sd ir hdeD_gadE+
{----------} sd-(6)-ir 3656227 Gap 4.3 bits
|----------| sd-ir 3656227 hdeD_gadE+ total 5.8 bits
{----------} sd-(9)-ir 3656230 Gap 2.3 bits
|----------| sd-ir 3656230 hdeD_gadE+ total 13.3 bits
*3656290 *3656300 *3656310 *3656320 *3656330 *3656340 *3656350 *3656360 *3656370
5′ t t c t t a t a g g c g t t t a c t a t a t t g a a c a a c g a t t c g g a c a a g g a t g t a a a t a a t g a a a a g g a t g a c a t a t t c g a a a c g a t a 3′
- phe - leu - -fMet - asn - asn - asp - ser - asp - lys - asp - val - asn - asn - glu - lys - asp - asp - ile - phe - glu - thr - ile -
-fMet - -fMet - lys - arg - met - thr - tyr - ser - lys - arg -
... p10 5.1 bits
ir hdeD_gadE+
[### ... orf
[### orf 27 codons
sd
[### orf 2 codons
ir hdeD_gadE+
{----------} sd-(7)-ir 3656333 Gap 3.7 bits
... sd
|----------| sd-ir 3656333 hdeD_gadE+ total 6.1 bits
sd ir hdeD_gadE+
{----------} sd-(10)-ir 3656342 Gap 2.7 bits
|----------| sd-ir 3656342 hdeD_gadE+ total 12.3 bits
sd
{----------} sd-(7)-ir 3656351 Gap 3.7 bits
|----------| sd-ir 3656351 hdeD_gadE+ total 8.6 bits
* *3656380 * *3656390 * *3656400 *
5′ a c g g c t a a g g a g c a a g t t a t g a t t t t t c t c a t g a c g a a 3′
- thr - ala - lys - glu - gln - val - met - ile - phe - leu - met - thr -
... orf 10 codons
[---------- ... NC_000913.gadE
ir hdeD_gadE+



{----------------} sd-(9)-ir 3656389 Gap 2.3 bits
|----------------| sd-ir 3656389 hdeD_gadE+ total 12.5 bits