

piece 1, NC_000913, betT_yahA+, config: linear, direction: +, begin: 330691, end: 331614

5' ^{*}ggc^{*}atag^{*}cg^{*}tg^{*}at^{*}gt^{*}tc^{*}cc^{*}gg^{*}ac^{*}gc^{*}gt^{*}g^{*}at^{*}tg^{*}tc^{*}ata^{*}aa^{*}ac^{*}cg^{*}cg^{*}cc^{*}at^{*}gt^{*}ct^{*}gc^{*}ata^{*}tg^{*}gc^{*}gt^{*}tt^{*}ct^{*}cta^{*}3'
 - gly - his - ser - val - met - phe - pro - asp - ala - fMet - leu - leu - his - lys - thr - ala - pro - cys - leu - his - met - ala - leu - phe - leu - leu -
 - ala - ile - ala - fMet - ile - val - ile - ala - fMet - ser - ala - tyr - gly - ala - val - ser - pro - thr -

5' ^{*}ctc^{*}ttg^{*}ata^{*}cgt^{*}tt^{*}atat^{*}ct^{*}ata^{*}cgg^{*}tt^{*}aag^{*}cc^{*}ct^{*}tag^{*}gt^{*}at^{*}ct^{*}at^{*}t^{*}gat^{*}gatt^{*}acc^{*}ag^{*}aca^{*}aac^{*}cag^{*}ata^{*}aat^{*}aaaa^{*}ag^{*}aaa^{*}3'
 - pro - leu - asp - thr - leu - tyr - leu - tyr - gly - fMet - lys - pro - leu - val - ser - ile - asp - asp - tyr - gln - thr - thr - asp - asn - lys - lys - glu - lys -
 - ser - fMet - ile - arg - tyr - ile - tyr - thr - val - lys - pro - leu - val - ser - ile - asp - asp - tyr - gln - thr - thr - asp - asn - lys - lys - lys - arg -



p35 5.6 bits p10 0.3 bits

p35-(23)-p10 330800 Gap 1.4 bits
 p35-p10 330800 total 4.4 bits



p35 1.9 bits p10 5.3 bits

p35-(23)-p10 330808 Gap 1.4 bits
 p35-p10 330808 total 5.7 bits

5' ^{*}gaa^{*}ctatt^{*}tg^{*}cag^{*}cc^{*}aa^{*}ac^{*}ct^{*}ac^{*}att^{*}tg^{*}gg^{*}ct^{*}gt^{*}tg^{*}cg^{*}aa^{*}tg^{*}tt^{*}ca^{*}ata^{*}agt^{*}tt^{*}agt^{*}ctt^{*}att^{*}ta^{*}at^{*}gt^{*}taa^{*}at^{*}att^{*}g^{*}ct^{*}g^{*}3'
 - fMet - gln - pro - lys - thr - tyr - ile - trp - ala - val - ala - asn - val - gln - fMet - fMet - leu -
 - asn - tyr - cys - ser - pro - lys - pro - thr - phe - gly - leu - leu - arg - met - phe - asn - lys - phe - ser - leu - ile - fMet - val - asn - ile - ala - asp -
 - thr - ile - ala - ala - gln - asn - leu - his - leu - gly - cys - cys - glu - cys - ser - ile - ser - leu - val - leu - phe - asn - val - asn - ile - ala - asp -



p35 2.5 bits p10 3.8 bits

p35-(23)-p10 330918 Gap 1.4 bits
 p35-p10 330918 total 4.9 bits



p35 4.3 bits

... p35-(22)-p10 330951 Gap
 ... p35-p10 330951 total 6.2

5' ^{*}atc^{*}att^{*}tg^{*}aaa^{*}tga^{*}cgc^{*}att^{*}tatt^{*}ct^{*}atg^{*}aga^{*}aat^{*}gt^{*}gt^{*}tat^{*}ct^{*}gtaa^{*}aat^{*}ca^{*}act^{*}gaa^{*}att^{*}aac^{*}gca^{*}acc^{*}att^{*}tt^{*}gt^{*}tatt^{*}ta^{*}aag^{*}g^{*}3'
 - ile - ile - fMet - thr - his - tyr - ser - fMet - arg - asn - val - tyr - arg - lys - ser - thr - glu - ile - asn - ala - thr - ile - cys - tyr - leu - arg -
 - his - leu - lys - fMet - thr - his - tyr - ser - fMet - cys - ile - val - asn - gln - leu - lys - leu - thr - gln - pro - phe - val - ile - fMet - leu - phe - lys - val -



p35 6.4 bits ir betT_yahA+

orf 16 codons



sd ir betT_yahA+

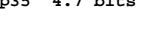
sd-(9)-ir 330958 Gap 2.3 bits
 sd-ir 330958 betT_yahA+ total 5.9 bits



sd

... sd-(12)-ir 331026 Gap
 ... sd-ir 331026 betT_yahA+ t

... p35-(22)-p10 330951 Gap 2.3 bits



p35 4.7 bits

... p35-p10 330951 total 6.2 bits

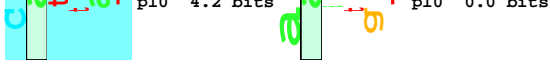
... p35-(24)-p10 331033 Gap
 ... p35-p10 331033 total 4.7



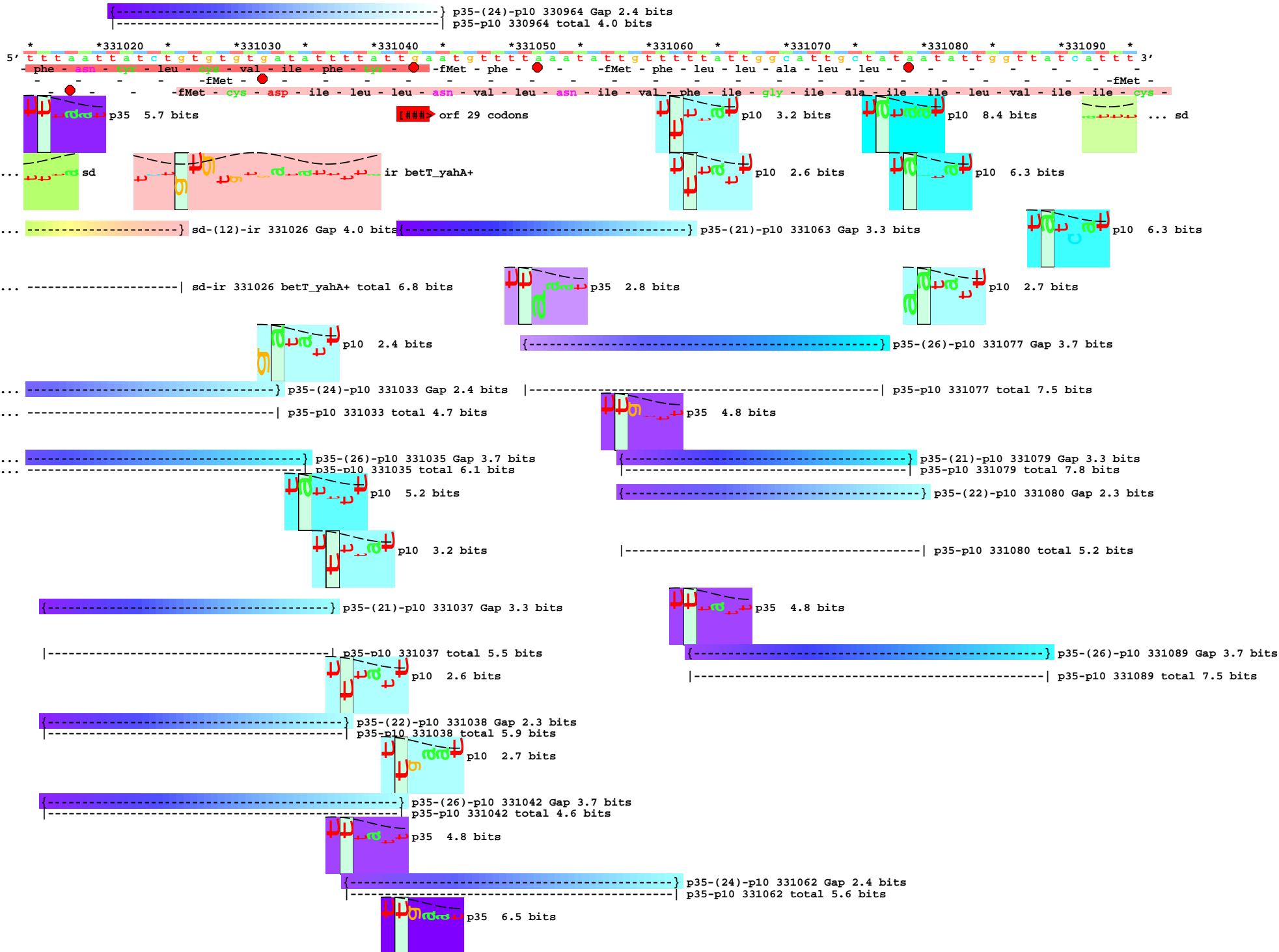
sd

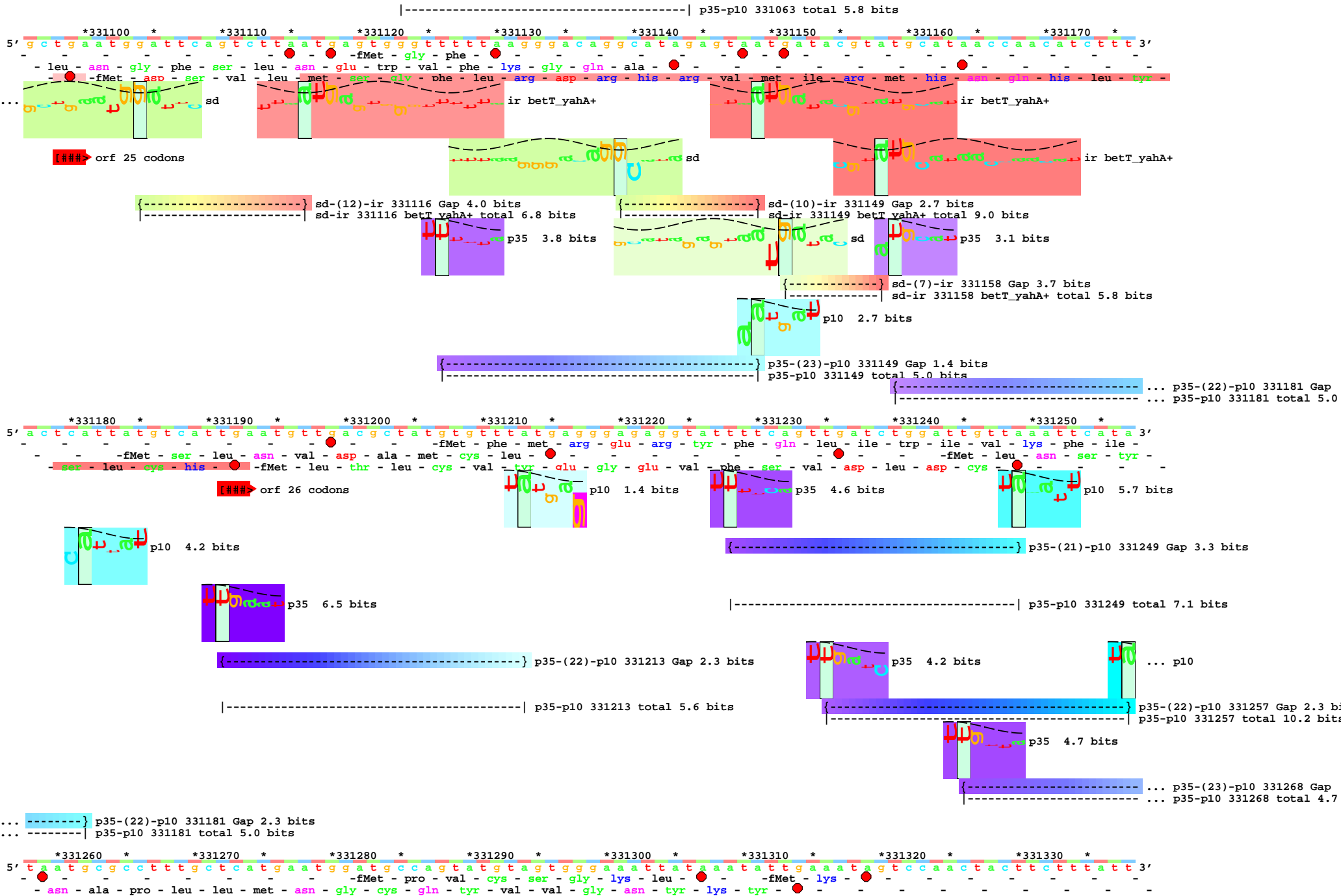
sd-(5)-ir 330965 Gap 5.4 bits
 sd-ir 330965 betT_yahA+ total 6.8 bits

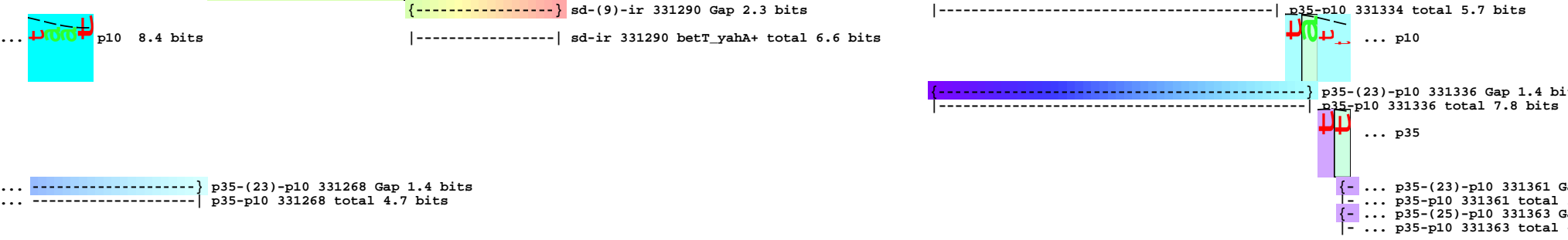
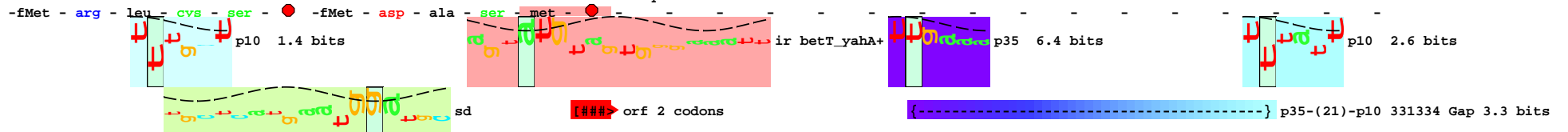
... p35-(26)-p10 331035 Gap
 ... p35-p10 331035 total 6.1



p10 4.2 bits p10 0.0 bits



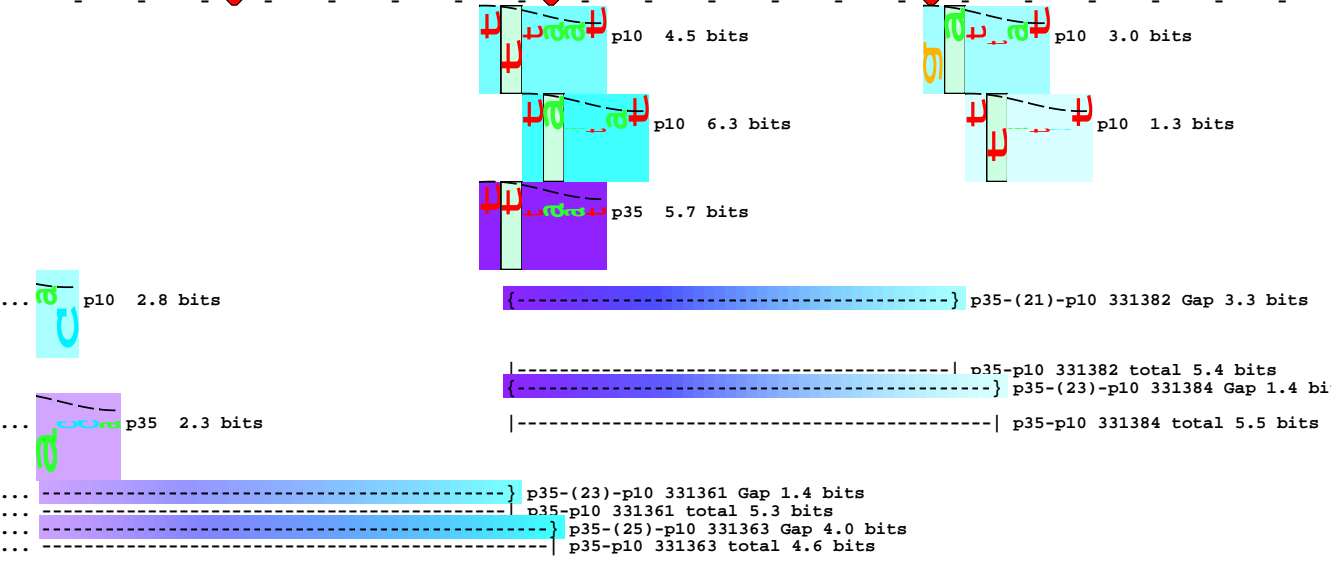




*331340 * *331350 * *331360 * *331370 * *331380 * *331390 * *331400 * *331410 *

5' a c c a a a a a t g a g t a t c t g a a t t t t a a t a t t g c a t t c t t g c g t g a t t a t c c c t c c t g a g t t t g a c t t g t g a t t a c c t t t t t a a g 3'

-fMet - ser - ile - -fMet - his - ser - cys - val - ile - ser - -fMet - thr - cys - asp - tyr - leu - phe - lys - -fMet - ile - thr - phe - leu - arg -



*331420 * *331430 * *331440 * *331450 * *331460 * *331470 * *331480 * *331490 * *331500 *

5' g t a t t t a g c g t a a c t g t t t t t g a g c g a g c a t c a g a g g t a a a g a t a a t c t t c t c t g a t a g t g a t g t g g g a t g t t a t a c g t a t g 3'

- val - phe - ser - val - thr - val - phe - glu - arg - ala - ser - glu - val - lys - ile - ile - phe - leu - ile - val - met - trp - asp - val - ile - arg - met - - tyr - leu - ala - -fMet - ser - glu - his - gln - arg - -fMet - gly - cys - tyr - thr - thr - tyr - gly -

