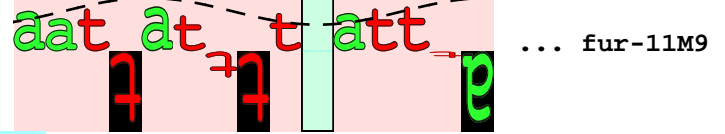
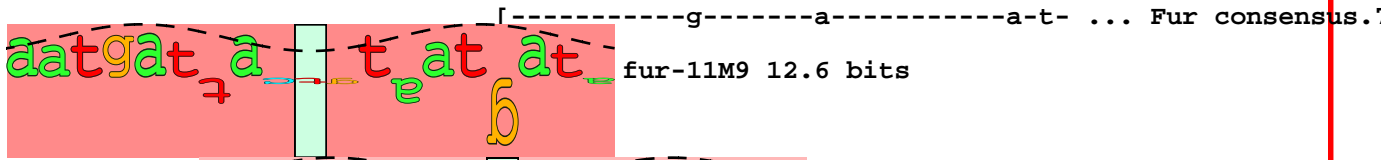
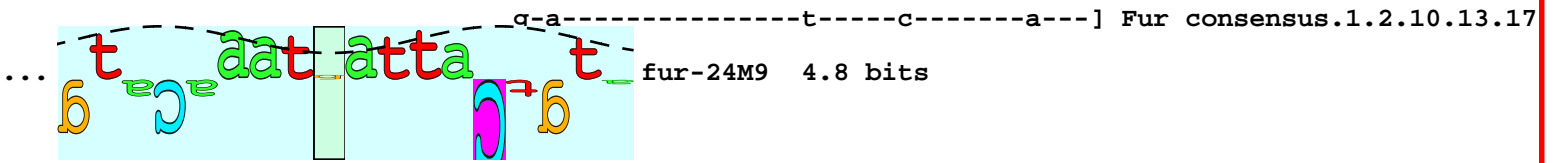
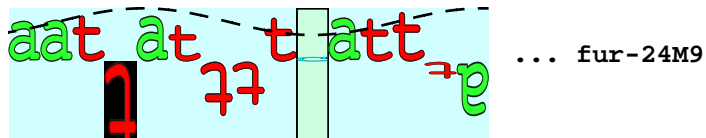


5' g t a c a a a t g a t t a c t g t a a t g a t a a t t a t t t t c a t t t a 3' ... odd64.yoeA





* *120
 5' t g t t c g c g a 3'
 ...)-)-)-)-)-)-)-) odd64.yoeA 86.5 bits

... c Fur consensus.7.11.17.18.19

... **t** fur-11M9 2.3 bits

... **tt** fur-11M9 3.5 bits

... **tt** fur-24M9 5.3 bits

piece 2, fepD-ents, fepD-ents, config: linear, direction: +, begin: 1, end: 123

5' **g c t a t c g c g a a c t t c c a t g a t a a t g a a a t t a a t t a t c g** 3' ... odd64.fepD-ents

(---[---|---] Fur consensus.9.10.11



aatga a tattatc ... fur-11M9

a t a t a t ... fur-11M9

at ... fur-11M9



aatga a tattatc ... fur-24M9

a t a t a t ... fur-24M9

at ... fur-24M9

5' **t t a t c g a t c t t a t t a c g a t c g c g c g a a g c g c g a t c g t a** 3' ... odd64.fepD-ents

[-----] hairpin a ... fur-11M9

... [-----] Fur consensus.3.5.7.14 a ... fur-24M9

[-----] hairpin+

... tt fur-11M9 17.2 bits

... ttatc t fur-11M9 14.0 bits

... t at t t att fur-11M9 3.1 bits

... tt fur-24M9 20.1 bits

... ttatc t fur-24M9 13.0 bits

... t at t t att fur-24M9 3.6 bits

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

... at a a at a at fur-11M9 3.1 bits

... at a a at a at fur-24M9 3.6 bits

[-----t-----t-----c-----t-----a-----] Fur consensus.6.10.13.15.17

[-----g-----t-----a-----] Fur consensus.7.9.11

... a gataa at at a t fur-11M9 14.0 bits

... aa gataat a t tcatt fur-11M9 17.2 bits

... aat a t attatcat fur-11M9 10.5 bits

a g a t d a a a t a t a t fur-24M9 13.0 bits

a a g a t d a a t a t t c a t t fur-24M9 20.1 bits

a a t a t a t t a t t a t c a t fur-24M9 9.9 bits

* *120
5' a g t t c g c g a 3'
...)-)-)-)-)-)-)-) odd64.fepD-ents 86.5 bits

[-----] hairpin

[-----] hairpin

g-a-----t

... Fur consensus.1

... Fur consensus.7



... fur-11M9



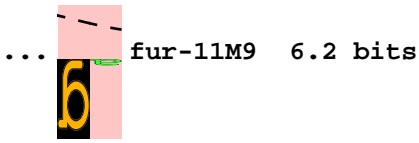
... fur-11M9



... fur-11M9



... fur-11M9



... fur-11M9 6.2 bits

... fur-11M9



... fur-24M9



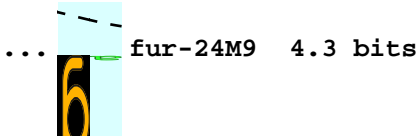
... fur-24M9



... fur-24M9



... fur-24M9



... fur-24M9 4.3 bits

... fur-24M9

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

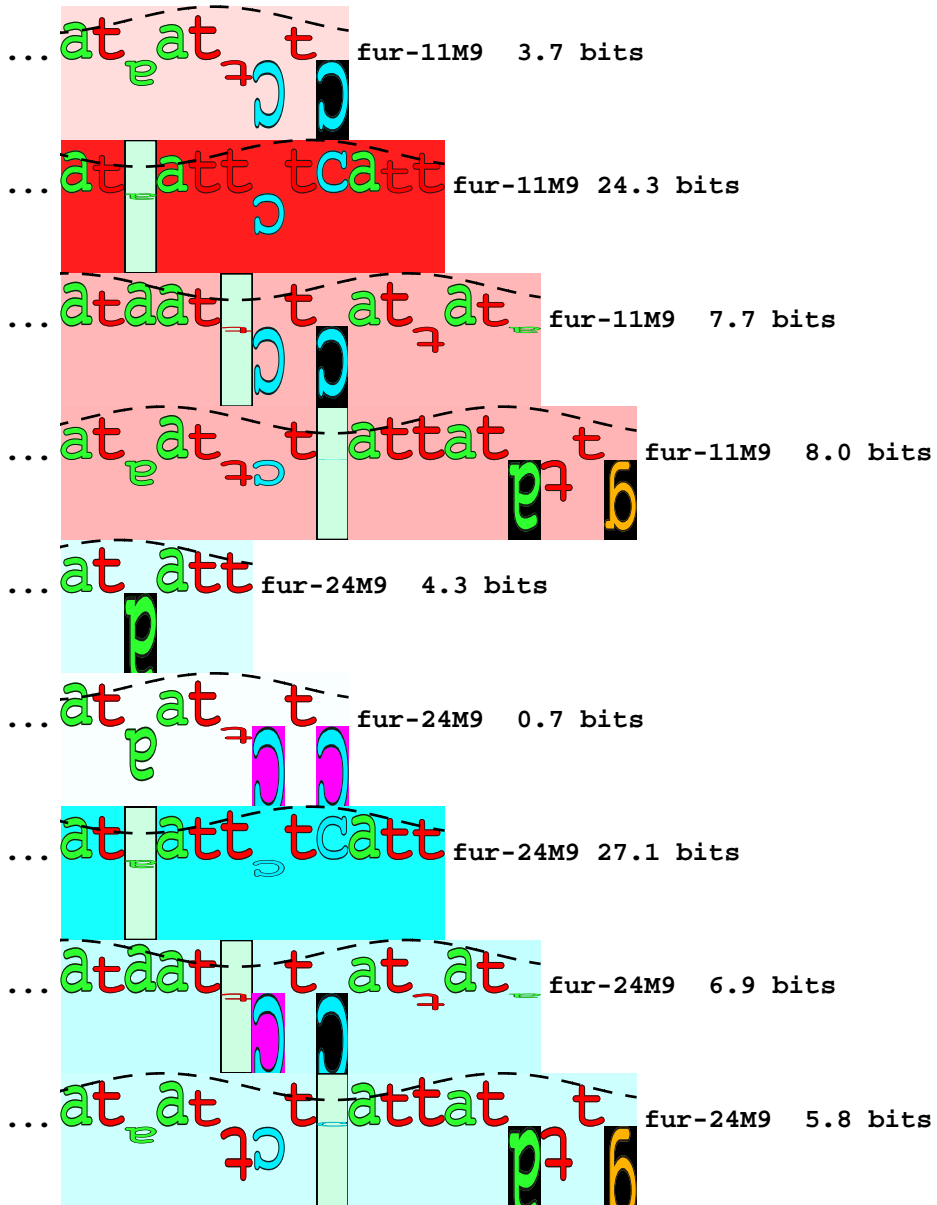
...)-) odd52.gpmA 68.5 bits

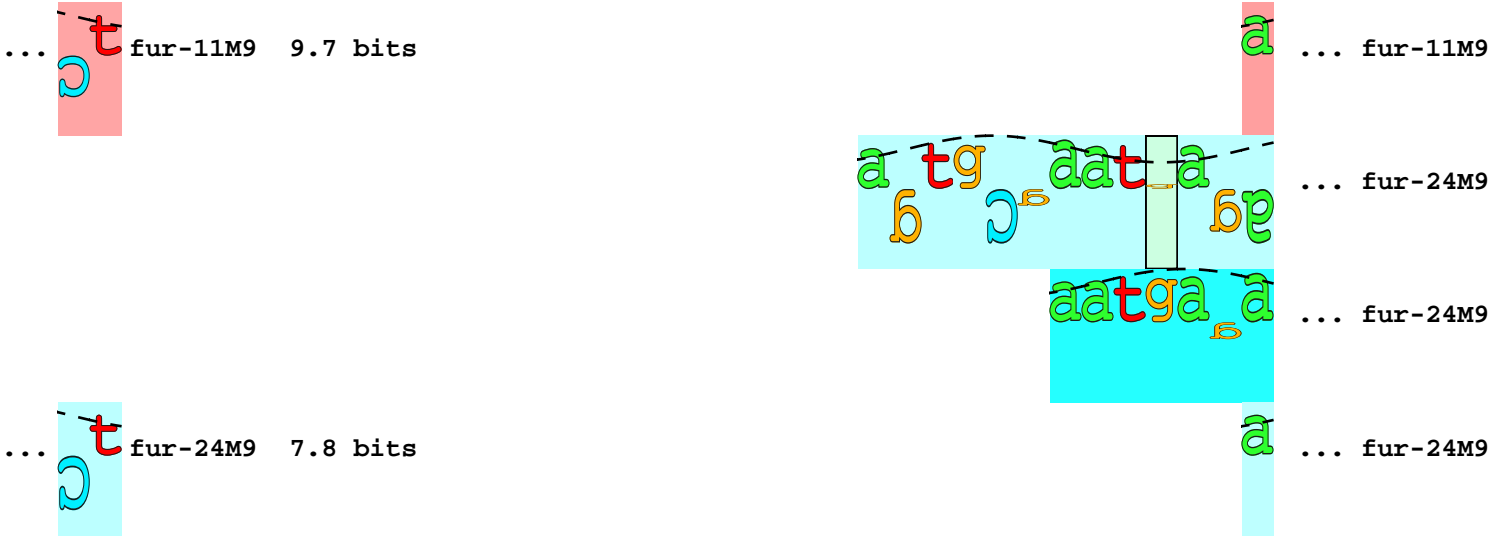
... ---c-----a---] Fur consensus.1.2.10.13.17

... ---g-----a-----c Fur consensus.7.11.19

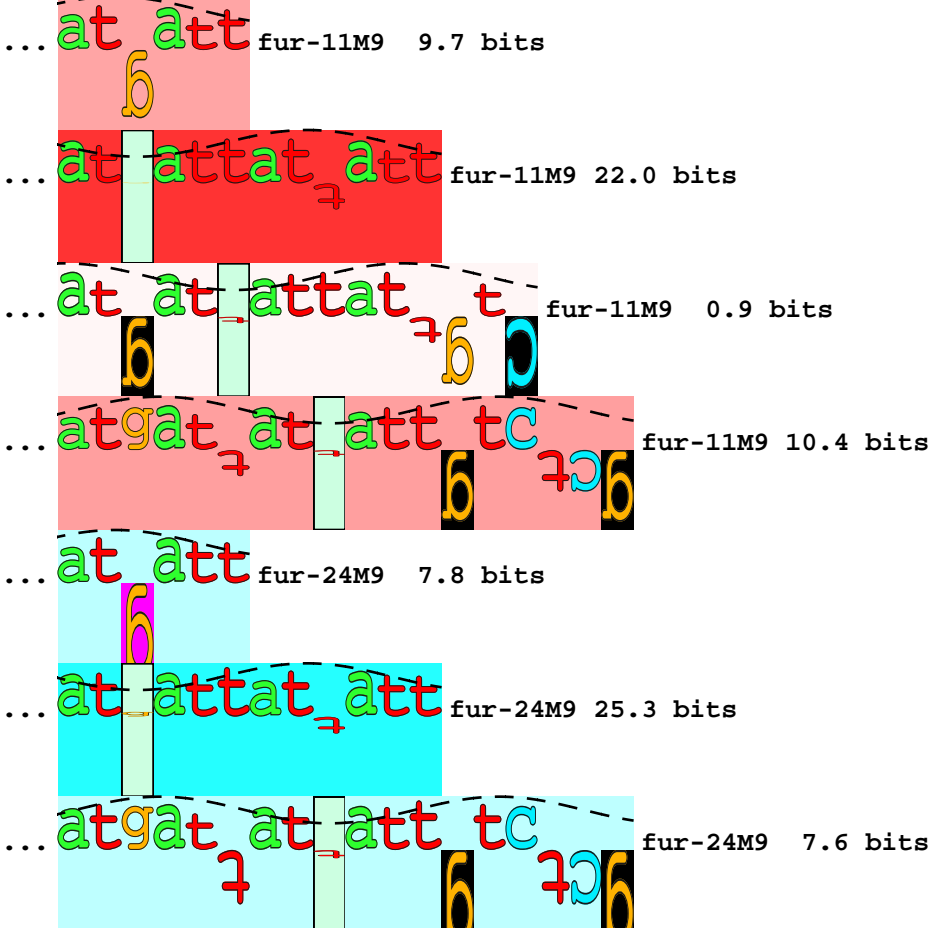
... a t a t t fur-11M9 6.2 bits



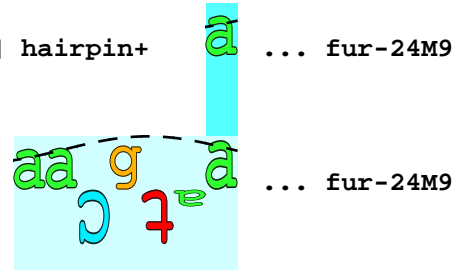




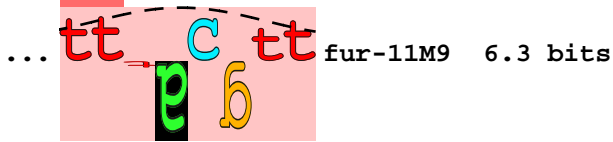
5' ^{*80} a t g a t t a t t a t t g t c t c g c g c g a 3' ^{*90}
 ...)-) odd52.ryhB 68.5 bits
 ... ---c-----c Fur consensus.2.3.9.10.13.19
 ... -----c-----a---] Fur consensus.3.13.17



[-----] hairpin+ ... fur-24M9



... tt fur-11M9 16.1 bits



... tt fur-24M9 19.9 bits



5' a c g a g a a t g a t t a t t a t a a a g a t a a g a t a a c g c g a 3' odd58.fhuA 77.5 bits

... a a at att fur-11M9 6.3 bits

... a g a a a t a t t a t a t fur-11M9 16.1 bits

... a g a a a t a t t a t a t fur-24M9 19.9 bits

... a a at att fur-24M9 5.4 bits

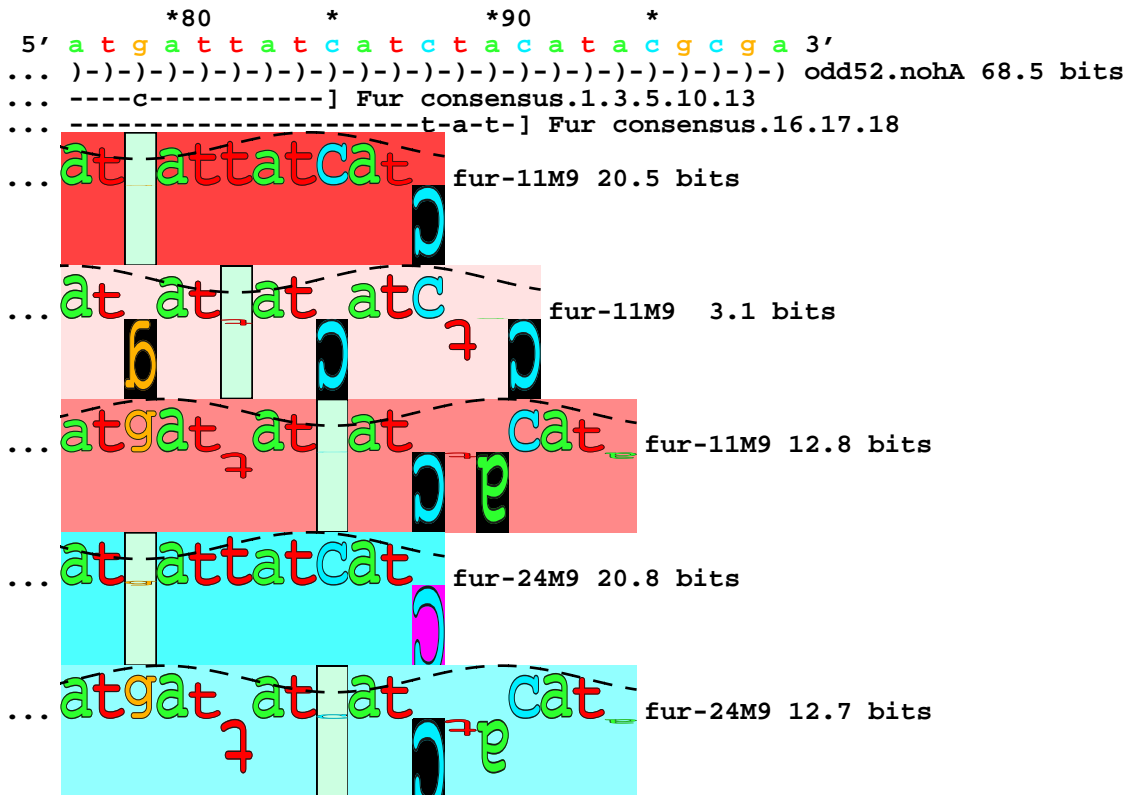
[---t---c---t---t-c Fur consensus.3.13.16.18.19



- 16 -
aatgat at at a at fur-11M9 11.6 bits

at ataa at a fur-11M9 1.5 bits

aatgat at at a at fur-24M9 10.6 bits



piece 7, oppA, oppA, config: linear, direction: +, begin: 1, end: 111

5' **g c t a t c g c g 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** 3' ... odd58.oppA

(---|---) Fur consensus.2.9.10.1

a t g t a a t a a t a t t fur-11M9 12.4 bits

b p p

a a t g a a a t a t t a c a ... fur-11M9

b p

a t g t a a t a a t a t t fur-24M9 9.6 bits

b p p

a a t g a a a t a t t a c a ... fur-24M9

b p

5' **a t t a a a g a a c g a t c g c g c g a a g c g c g a t c g t t c t t t a a** 3' ... odd58.oppA

(---|---) hairpin

[-----] hairpin **a** ... fur-11M9

[-----] hairpin+ **a** ... fur-24M9

... **t** fur-11M9 18.7 bits

... **t** fur-24M9 21.2 bits

5' **t t g t t a a t t a t t c t c a t t a c c a a t a a a g a a c g c g a** 3' ... odd58.oppA 77.5 bits

t g t a a t a t t t c a t t fur-11M9 18.7 bits

b c

... **t**_g **t**_â**a****a****t** **a****t****t** **t**_c**a****a****t** 20 -
fur-24M9 21.2 bits

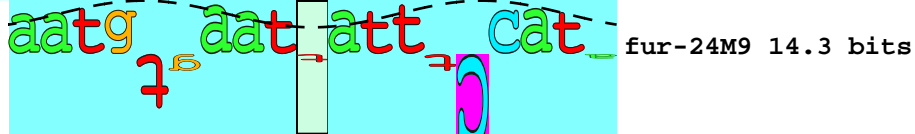
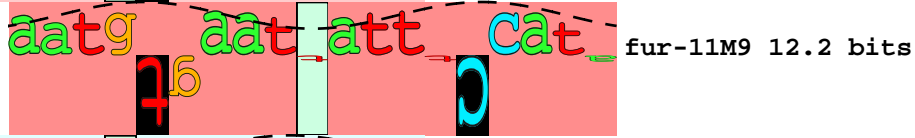
[-a-----a-----t-] Fur consensus.2.7.11.18

a**a****t** **a****t** **t** **a****t****t****a** **c****a** **t** fur-11M9 12.4 bits

a**a****t** **a****t** **t** **a****t****t****a** **c****a** **t** fur-24M9 9.6 bits

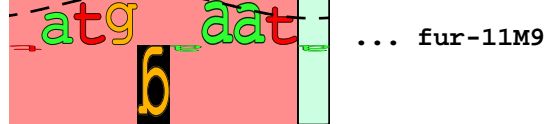
piece 8, gspC, gspC, config: linear, direction: +, begin: 1, end: 99

5' g c t a t c g c g a t t a t t t t t a a t g t g a a t t a t t t c c a t a c 3' ... odd52.gspC

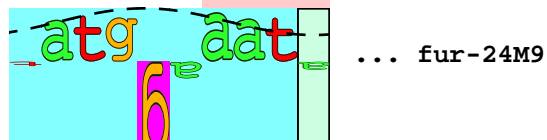


... 5' a a a c g a t c g c g c g a a g c g c g a t c g t t t g t a t g g a a a t a 3' ... odd52.gspC

[-----] hairpin



[-----] hairpin+



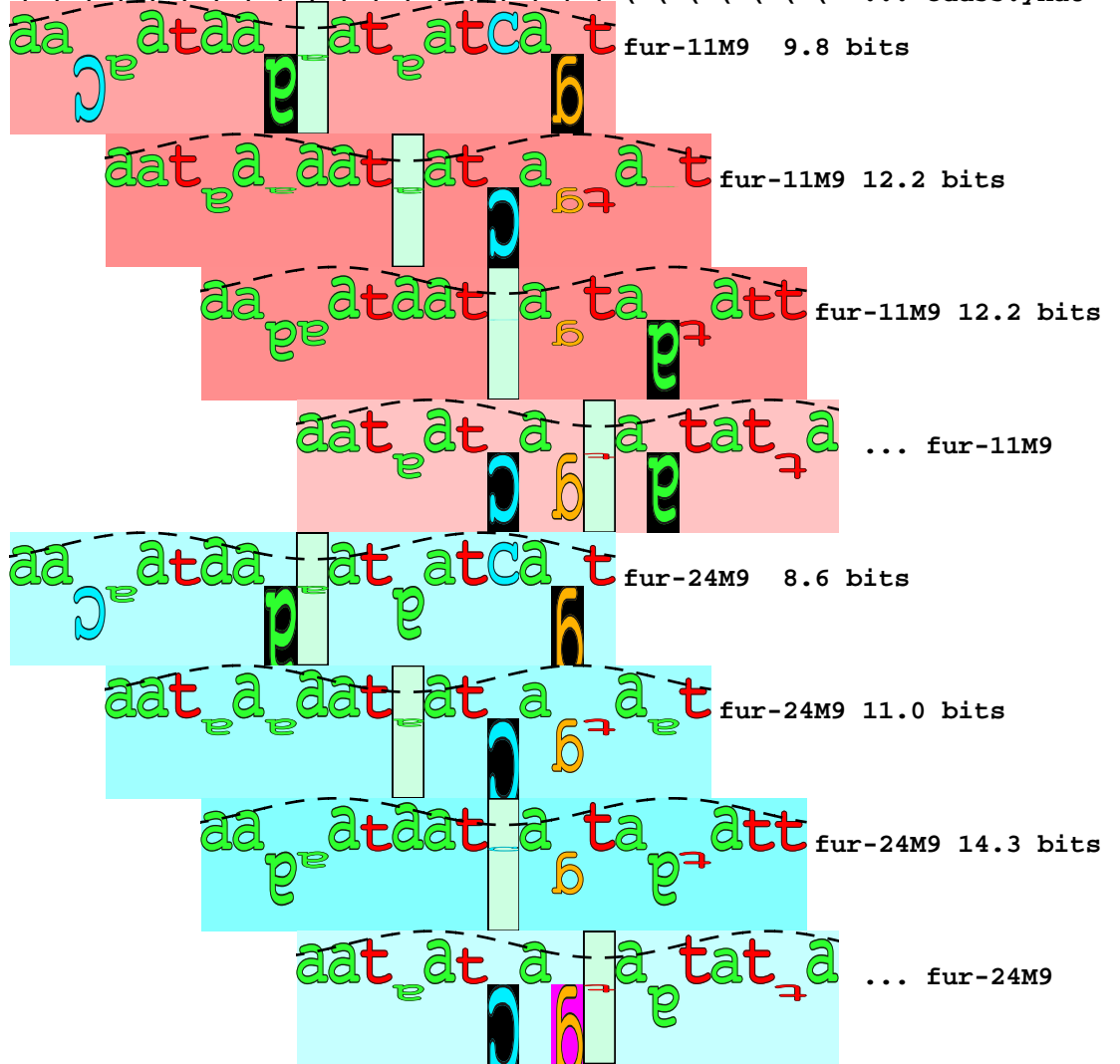
... 5' a t t c a c a t t a a a a a t a a t c g c g a 3' ... odd52.gspC 68.5 bits



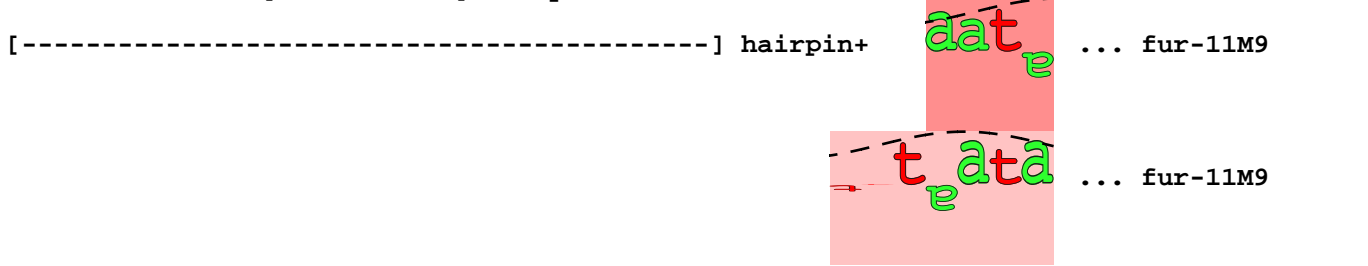


piece 9, yhaU, yhaU, config: linear, direction: +, begin: 1, end: 105

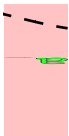
5' g c t a t c g c g g g t a a c a a t a a a a a t a a t c a g t a a t a t t a 3'
... odd55.yhaU



*40 * * *50 * * *60 * * *70 *
 5' a a t a g a c g a t c g c g c g a a g c g c g a t c g t c t a t t t a a t a 3'
 ... odd55.yhaU
 [-----] hairpin
 [-----] hairpin+



... fur-11M9 6.4 bits



... fur-11M9



... fur-24M9



... fur-24M9



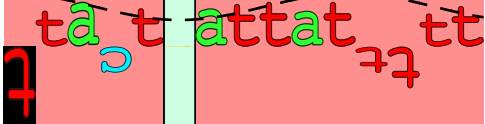
... fur-24M9

... fur-24M9 6.6 bits

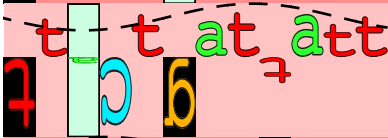


5' t t a c t g a t t a t t t t t a t t g t t a c c c g c g a 3' odd55.yhaU 73.0 bits
... a - - - - - a - - - - - c - - - - - c Fur consensus.1.2.5.13.14.19

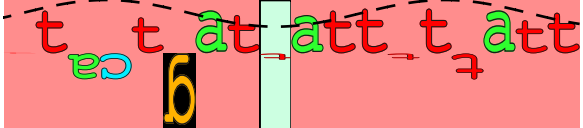
... tā t attat tt fur-11M9 12.2 bits



... t t at att fur-11M9 6.4 bits



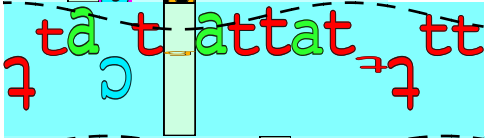
... t t at att t att fur-11M9 12.2 bits



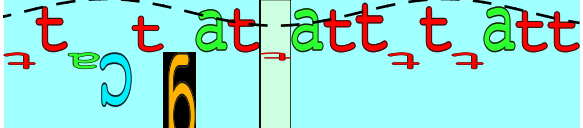
... t t at att fur-24M9 6.6 bits



... tā t attat tt fur-24M9 14.3 bits

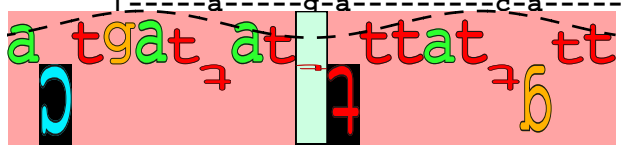


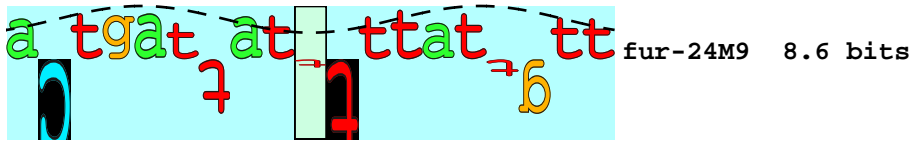
... t t at att t att fur-24M9 11.0 bits



[- - - - - a - - - - - g - a - - - - - c - a - - - - - t -] Fur consensus.4.7.8.13.14.18

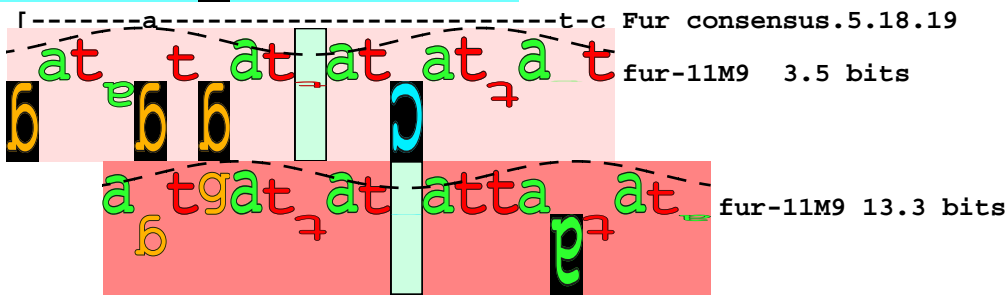
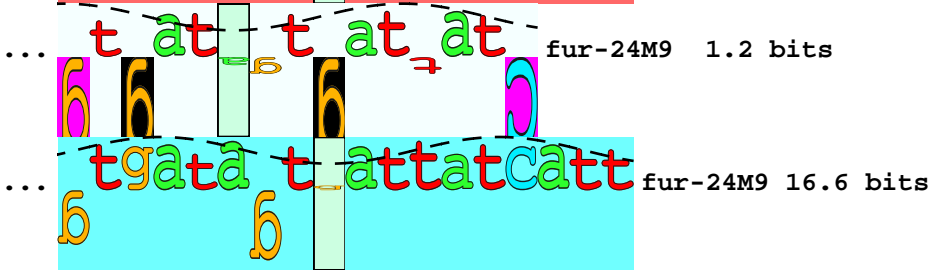
... a t g a t at ttat tt fur-11M9 9.8 bits







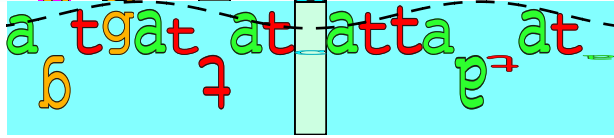
5' g t g a t a g t g a t t a t c a t t a a t a t a t c t g t g c g c g a 3'
...)-)...)...)...)...)...)...)...)...)...)...)...)...)...)...)...) odd58.yahA 77.5 bits
... a-----t-a-c-----| Fur consensus.1.4.5.10.11.13



at t at at at a t fur-24M9 0.7 bits



a t g a t at at a t fur-24M9 14.3 bits

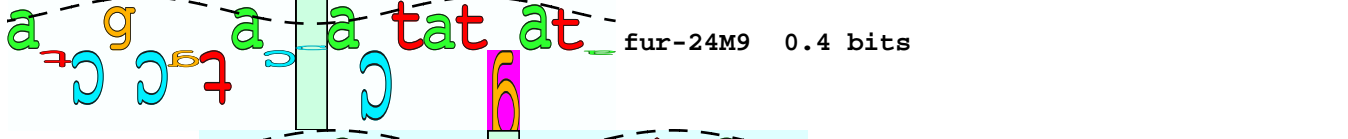
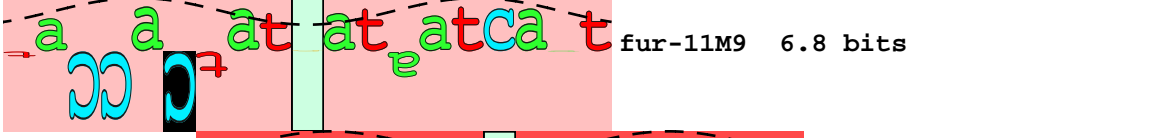
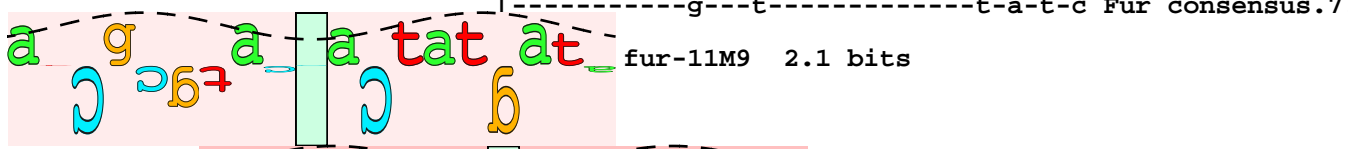


piece 11, fadD, fadD, config: linear, direction: +, begin: 1, end: 99

5' *g c t a t c g c g t a c c a c t a t g a t a a t c a a t a t c a t a t g g g* 3' ... odd52.fadD

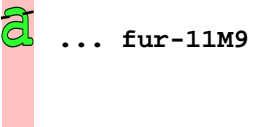
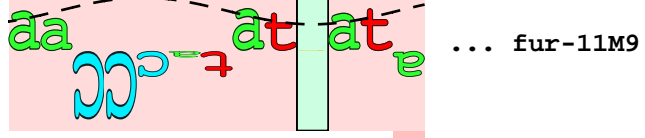
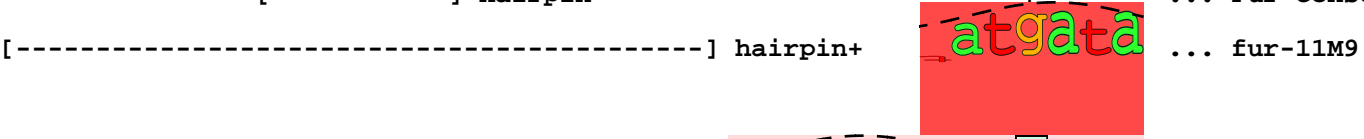
(--))))))))) ... Fur consensus.1.3.4.10.15

g---t-a-----t-----g---t-----t-a-t-c Fur consensus.7.9.16.1



... *t t a c g a t c g c g c g a a g c g c g a t c g t a a c c c a t a t g a t a* 3' ... odd52.fadD

[-----] hairpin



... **atgata** ... fur-24M9
... **a** ... fur-24M9

... **tt** fur-11M9 3.8 bits

5' t t g a t t a t c a t a g t g g t a c g c g a 3'
...)-) odd52.fadD 68.5 bits
... a-----t-a---c Fur consensus.5.16.17.19

... **t attatcat** fur-11M9 19.7 bits

... **t att** fur-11M9 3.8 bits

... **t gat at at t t** fur-11M9 6.8 bits

... **t attatcat** fur-24M9 23.0 bits

... **t gat at at t t** fur-24M9 3.8 bits

piece 13, exbB, exbB, config: linear, direction: +, begin: 1, end: 107

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

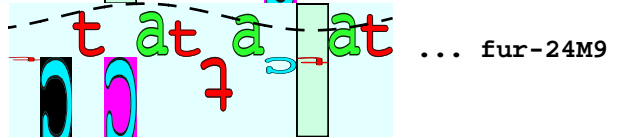
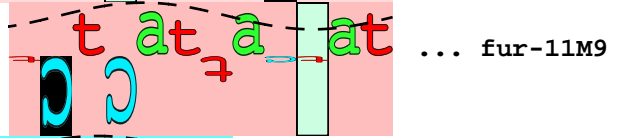
(-----) ... odd56.exbB

[-----] exbB Natural sequence

[-----] exbB Fur consensus marked on Eick-Helmer

[-----] Published Fur consensus

[-----] Fur consensus.5.7.8.11.1

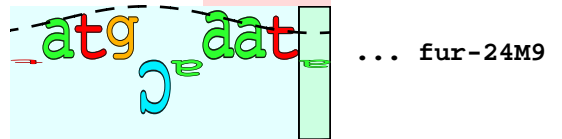
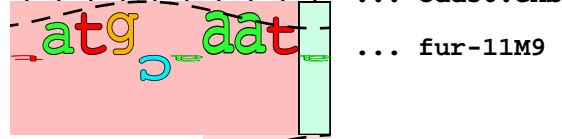


... *40 * * *50 * * *60 * * *70 * * 3'

... t t g c a t a c t g c c g c g c g a a g c g c g g c a g t a t g c a a a t a 3'

... (-----) ... odd56.exbB

... [-----] exbB Natural sequence



... **t** fur-11M9 4.0 bits

... **t** **cā** **t** fur-11M9 7.0 bits

... **t** fur-24M9 0.6 bits

... **t** **cā** **t** fur-24M9 3.2 bits

5' ^{*80} **g t a a t g a g a a c g a c t a t c a a t t c g a c g t c g t** ^{*} 3' odd56.exbB 74.5 bits

... **t a t a** fur-11M9 7.0 bits

... **tāat a a a t** fur-11M9 4.0 bits

... **t a t a** fur-24M9 3.2 bits

... **tāat a a a t** fur-24M9 0.6 bits

---] exbB Fur consensus marked on Eick-Helmerich/Brau
... **aatgā āā a tatcā t** fur-11M9 17.5 bits
... **aatgā āā a tatcā t** fur-24M9 18.9 bits

... -----] Fur consensus.5.8

a_tgataat_a ... fur-24M9

... attatcā t fur-11M9 18.0 bits

... aatga fur-24M9

... catt fur-11M9 19.8 bits

... catt fur-24M9 22.4 bits

... attatcā t fur-24M9 15.9 bits

5' t a a c c a a t a t c a t a t g a t a a t t t t a t c a t t t g 3' odd57.fhuF 76.0 bits
... -----] Fur consensus.10.12.15

... t_e a cā t fur-11M9 18.0 bits

... tāā_a tatCāt fur-11M9 19.8 bits

... t_p a cā_e t fur-24M9 15.9 bits

... tāā_p_a tatCāt fur-24M9 22.4 bits

a_a at at at tt fur-11M9 3.5 bits

