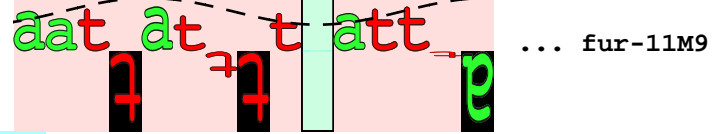
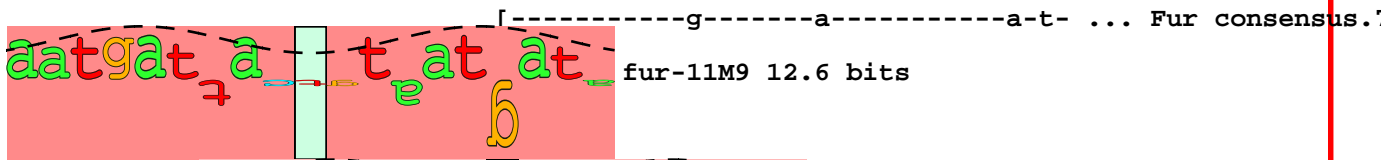
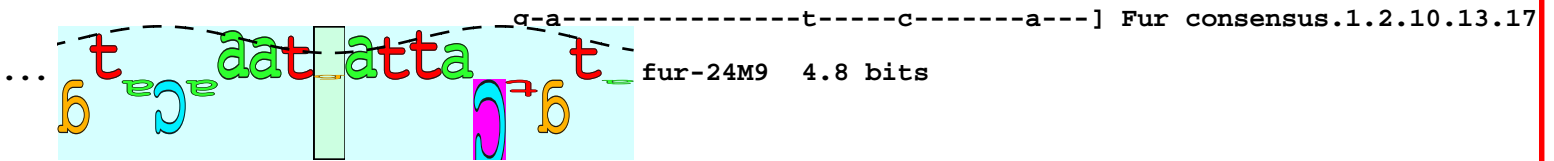
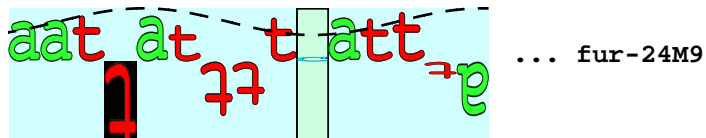


5' g t a c a a a t g a t t a c t g t a a t g a t a a t t a t t t t c a t t t a 3' ... odd64.yoeA





* *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

[-----] 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** **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 **g** **a** **t** **a** **a** **at** **at** **a** **t** fur-11M9 14.0 bits

aa **g** **a** **t** **a** **a** **t** **a** **t** **tc** **att** fur-11M9 17.2 bits

aat **a** **t** **att** **atc** **at** fur-11M9 10.5 bits

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

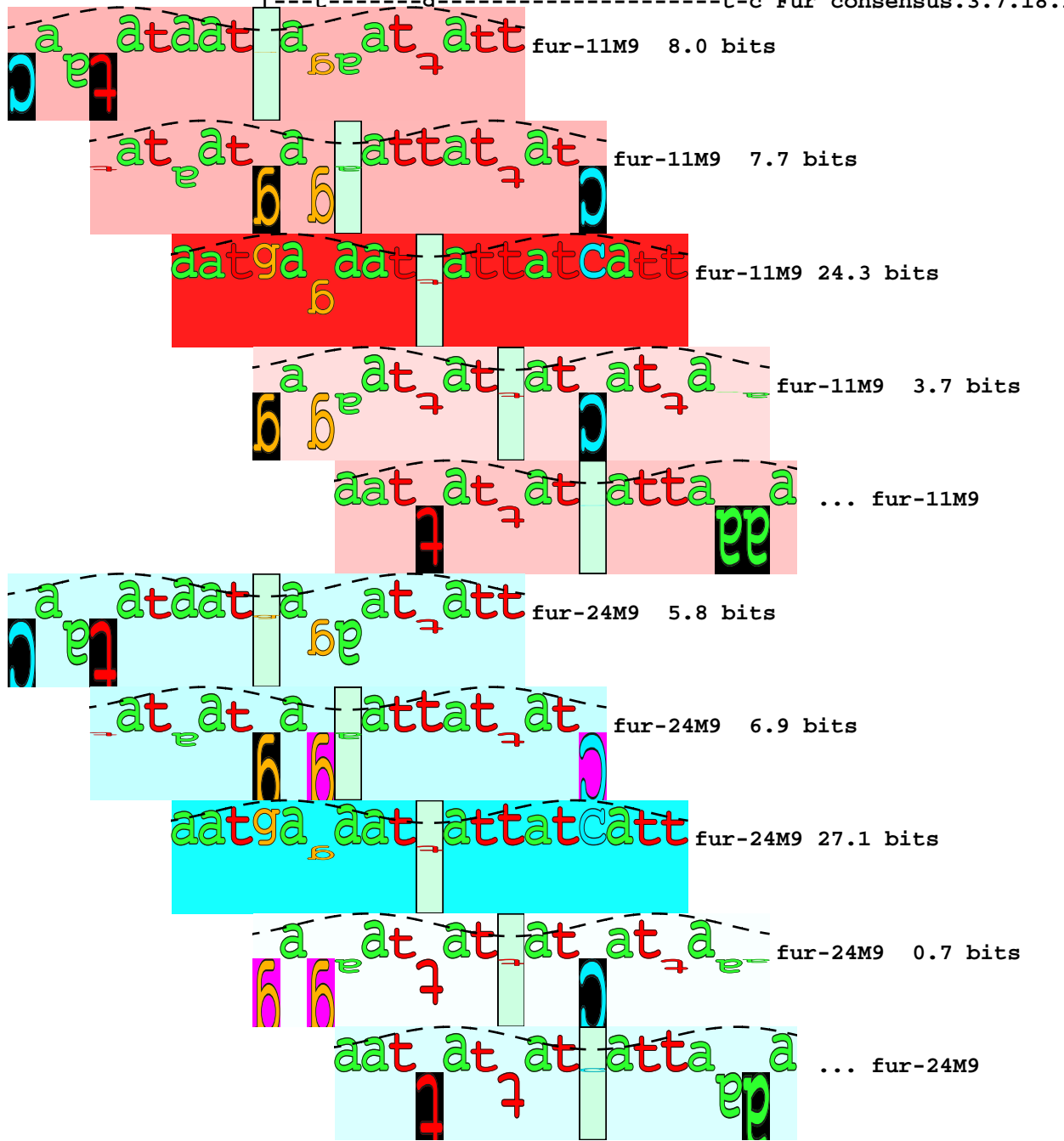
a a g a t d a a t a t t c a t t fur-24M9 20.1 bits

a a t a t 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

piece 3, gpmA, gpmA, config: linear, direction: +, begin: 1, end: 99

5' g c t a t c g c g c a a t a t a a t g a g a a t t a t t a t c a t t a a a a 3'
... odd52.gpmA
g-----t-t-----c-----] Fur consensus.1.9.10.13



*40 * * *50 * *60 * *70 *
5' g a a c g a t c g c g c g a a g c g c g a t t c t t t t a a t g a t a 3'
... odd52.gpmA

[-----] hairpin

[-----] hairpin

g-a-----t

... Fur consensus.1

... Fur consensus.7



... fur-11M9



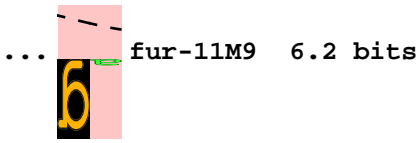
... fur-11M9



... fur-11M9



... fur-11M9



... fur-11M9 6.2 bits

... fur-11M9



... fur-24M9



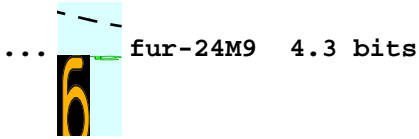
... fur-24M9



... 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'

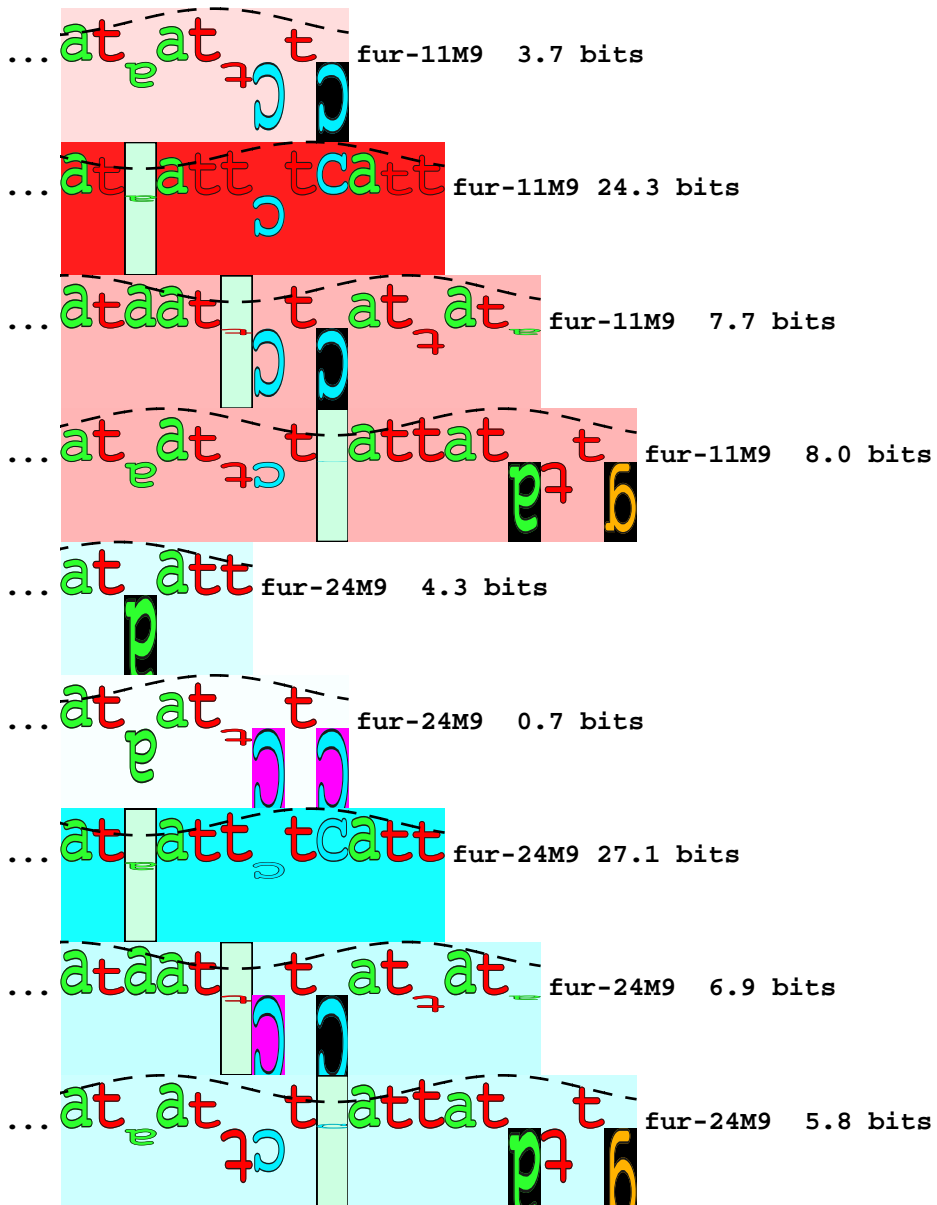
...)-) odd52.gpmA 68.5 bits

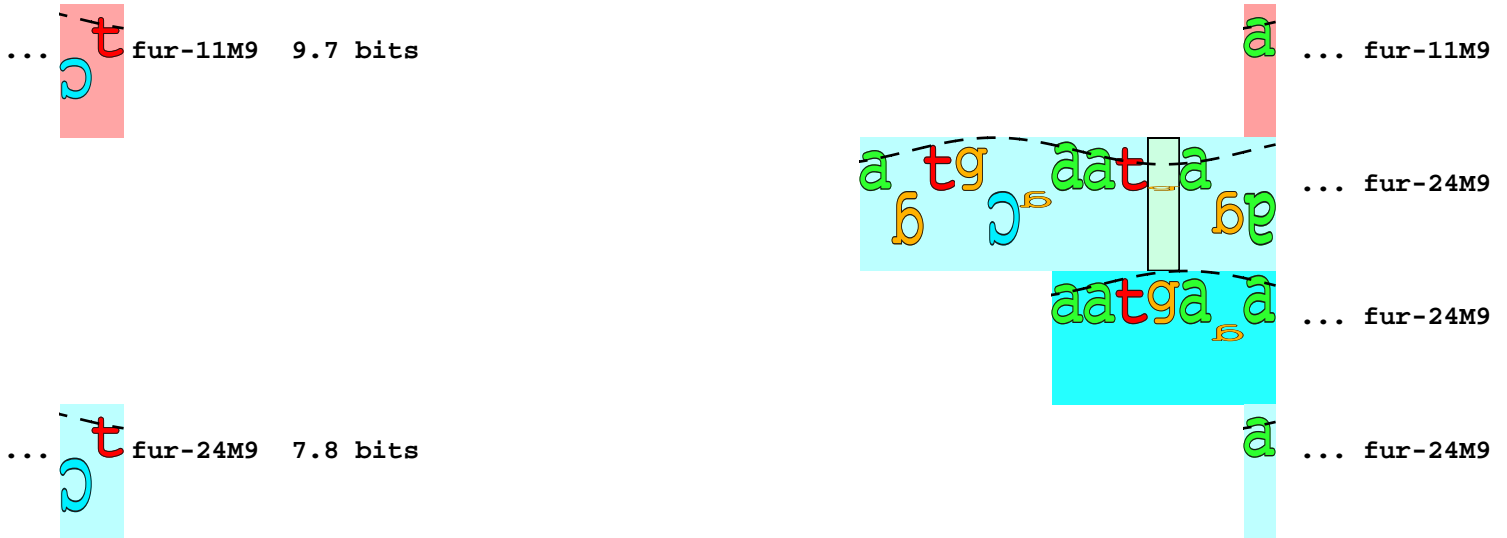
... ---c-----a---] Fur consensus.1.2.10.13.17

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

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





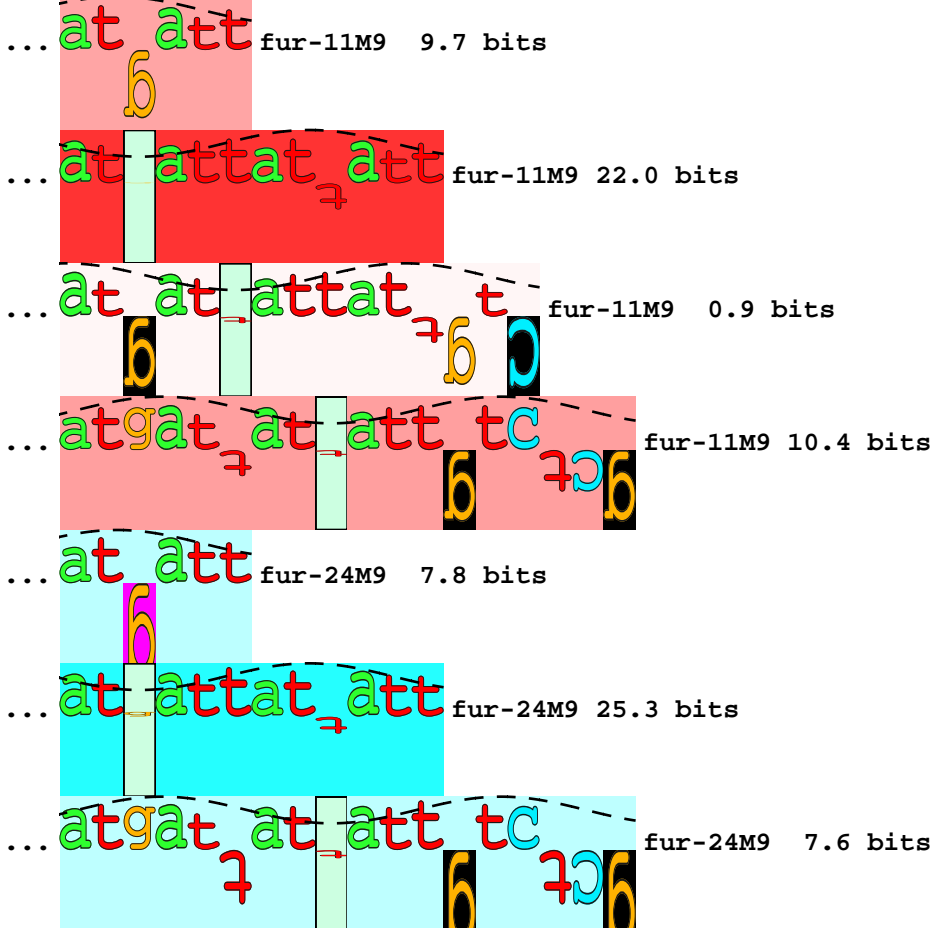


5' ^{*80} **a t g a t t a t t a t t g t c t c g c g c g a** ^{*} 3'

...)-) odd52.ryhB 68.5 bits

... -----c-----c Fur consensus.2.3.9.10.13.19

... -----c-----a----] Fur consensus.3.13.17

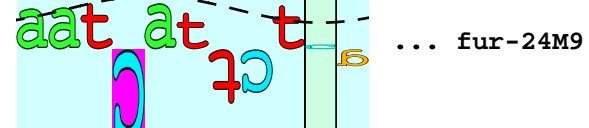
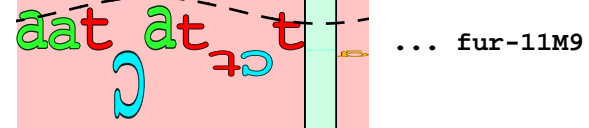
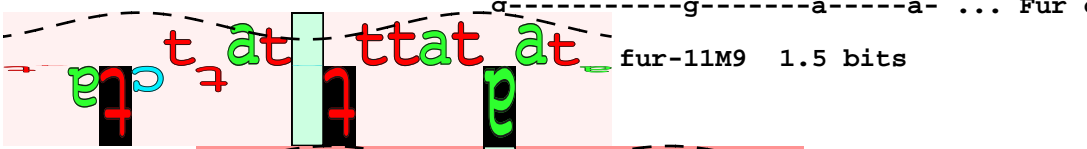


piece 5, fhuA, fhuA, config: linear, direction: +, begin: 1, end: 111

```

5' g c t a t c g c g t t a t c t t a t c t t t a t a a t a a t c a t t c t c g 3'
  (-----) Fur consensus.1.2.4.7
    g-a-a-g-t-a-a-g-a-a-g-a-a-a-] Fur consensus.1

```



```

    *40      *      *50      *      *60      *      *70      *
5' t t t a c g 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 g t a a 3'
... (-----) Fur consensus.1.7.11.14.17.18

```

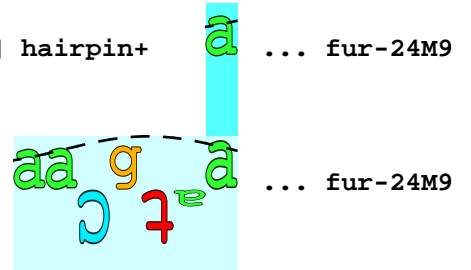


```

... ----a-t-] Fur consensus.1.7.11.14.17.18

```

[-----] 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 ga aat attat at fur-24M9 19.9 bits

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

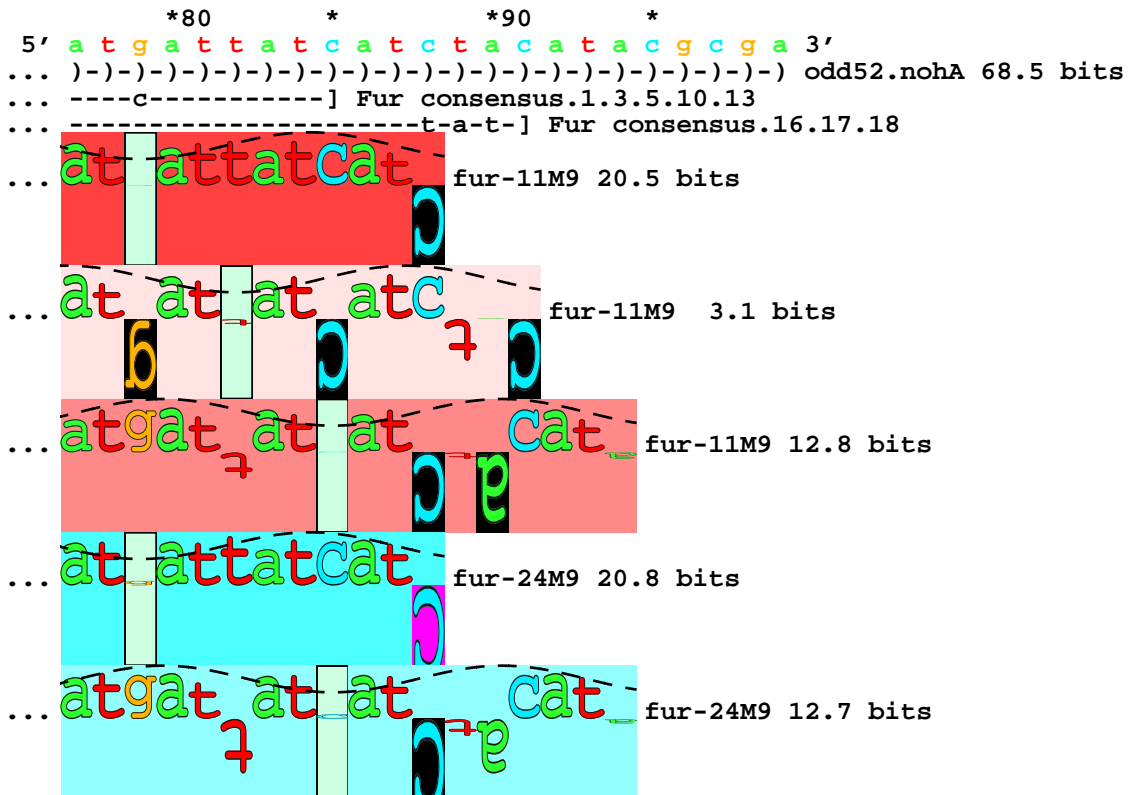
[---t---c---t---t-c Fur consensus.3.13.16.18.19



- 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



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

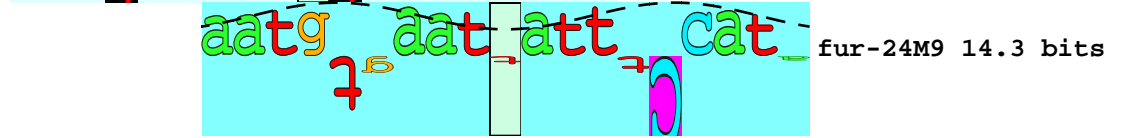
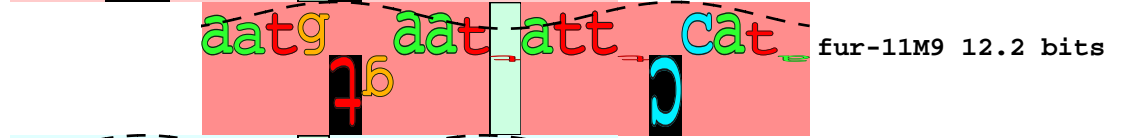
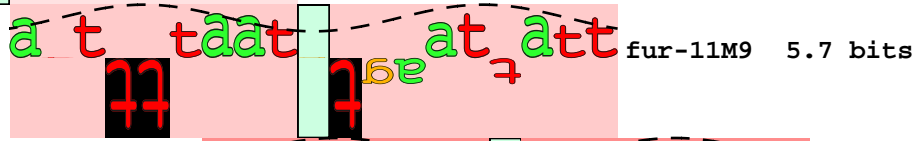
[-a-----a-----t-] Fur consensus.2.7.11.18

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

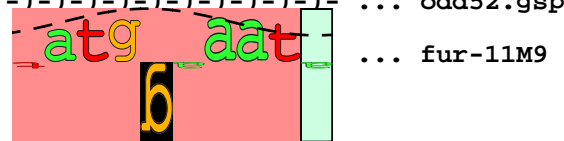
piece 8, gspC, gspC, config: linear, direction: +, begin: 1, end: 99

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

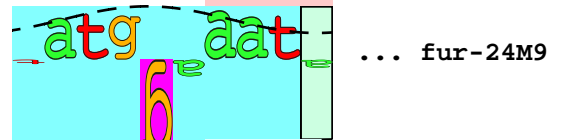


... 5' a a a c g a t c g c g c g a a a g c g c g a t c g t t t g t a t g g a a a t a 3' ... odd52.gspC

[-----] hairpin



[-----] hairpin+



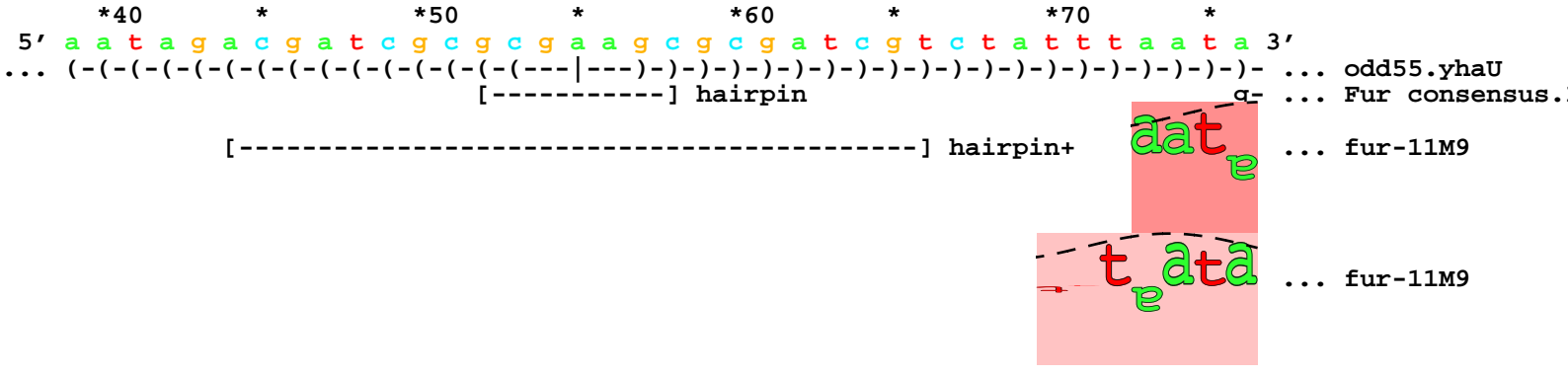
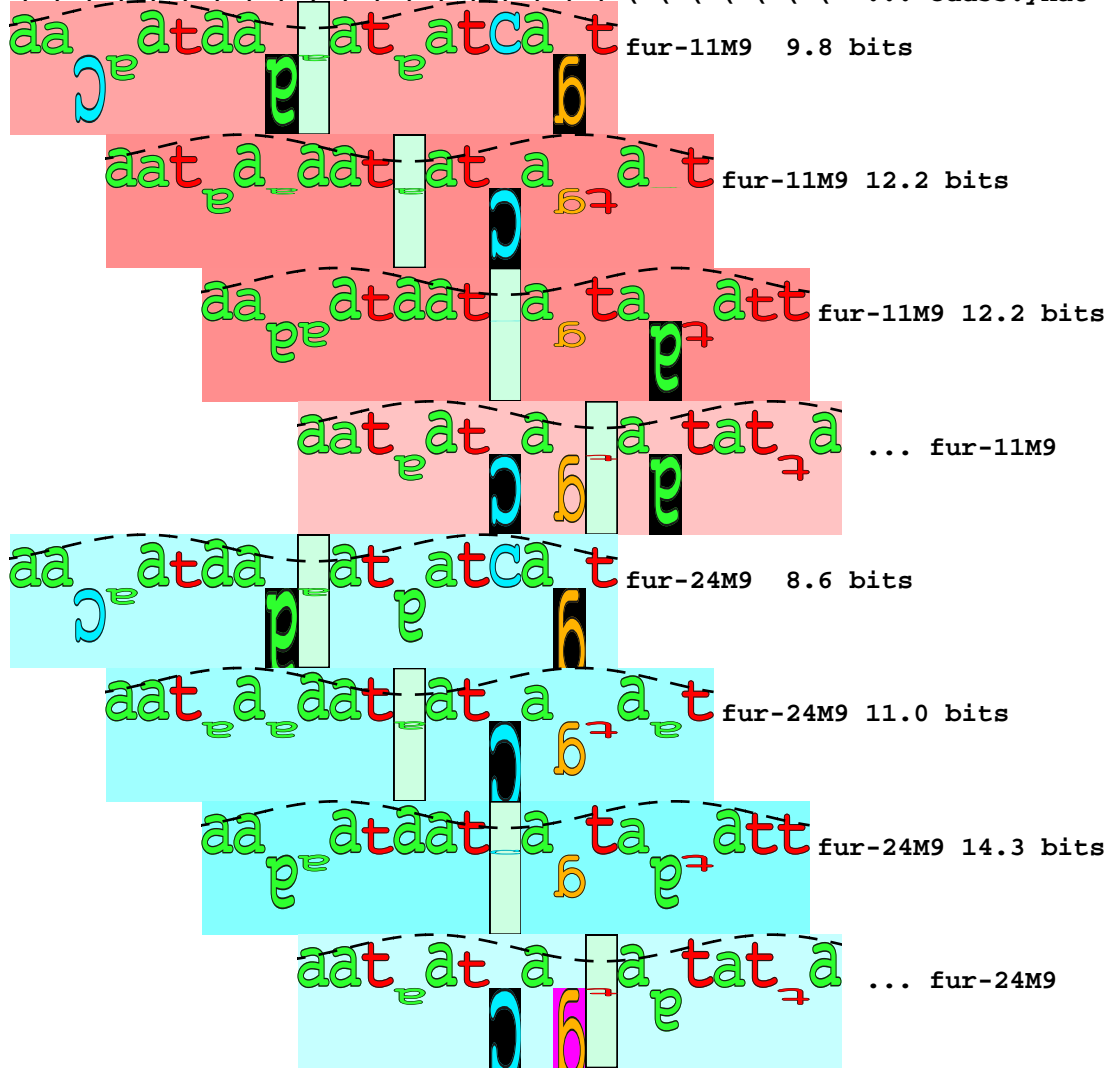
... 5' a t t c a c a t t a a a a a t a a t c g c g a 3' ... odd52.gspC 68.5 bits





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



... 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-a-----c Fur consensus.1.2.5.13.14.19

... t a t t a t t t t t fur-11M9 12.2 bits

... t t a t t fur-11M9 6.4 bits

... t t a t t t a t t fur-11M9 12.2 bits

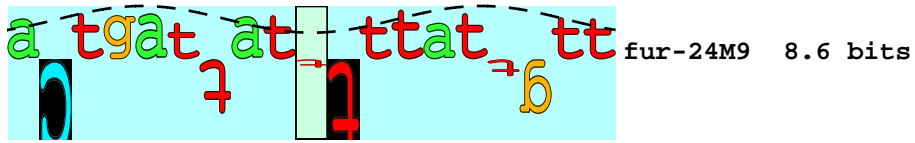
... t t a t t fur-24M9 6.6 bits

... t a t t a t t t t fur-24M9 14.3 bits

... t t a t t t a t t fur-24M9 11.0 bits

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

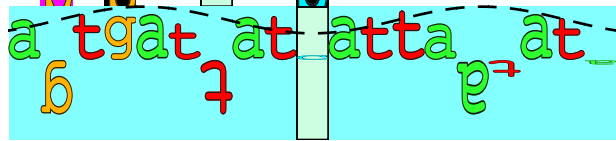
... a t g a t a t t a t t fur-11M9 9.8 bits



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



a tgat at atta at fur-24M9 14.3 bits



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
... Fur consensus.5.16.17.19

... t attatcat fur-11M9 19.7 bits

... t att fur-11M9 3.8 bits

... tgat at at t t fur-11M9 6.8 bits

... t attatcat fur-24M9 23.0 bits

... tgat 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'

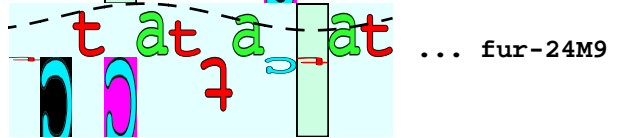
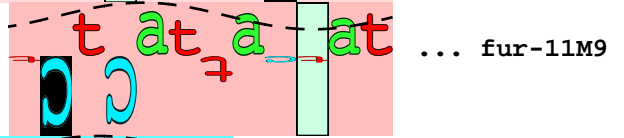
(-----) ... odd56.exbB

[-----] exbB Natural sequence

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

[-----] Published Fur consensus

[-----] Fur consensus.5.7.8.11.1

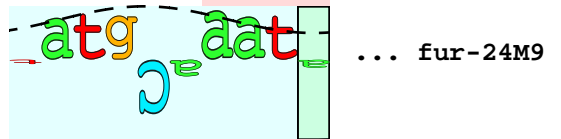
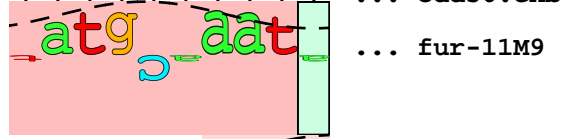


*40 * * *50 * * *60 * * *70 *

5' 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 cat fur-11M9 7.0 bits

... t fur-24M9 0.6 bits

... t cat fur-24M9 3.2 bits

5' 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 at a fur-11M9 7.0 bits

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

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

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

[-----] exbB Fur consensus marked on Eick-Helmerich/Brau

aatga aa a tatca t fur-11M9 17.5 bits

aatga aa a tatca t fur-24M9 18.9 bits

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

... fur-24M9

... fur-11M9 18.0 bits

... fur-24M9

... fur-11M9 19.8 bits

... fur-24M9 22.4 bits

... fur-24M9 15.9 bits

5' ^{*80} 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 t g 3'
...)-) odd57.fhuF 76.0 bits
... -----] Fur consensus.10.12.15

... fur-11M9 18.0 bits

... fur-11M9 19.8 bits

... fur-24M9 15.9 bits

... fur-24M9 22.4 bits

... fur-11M9 3.5 bits

