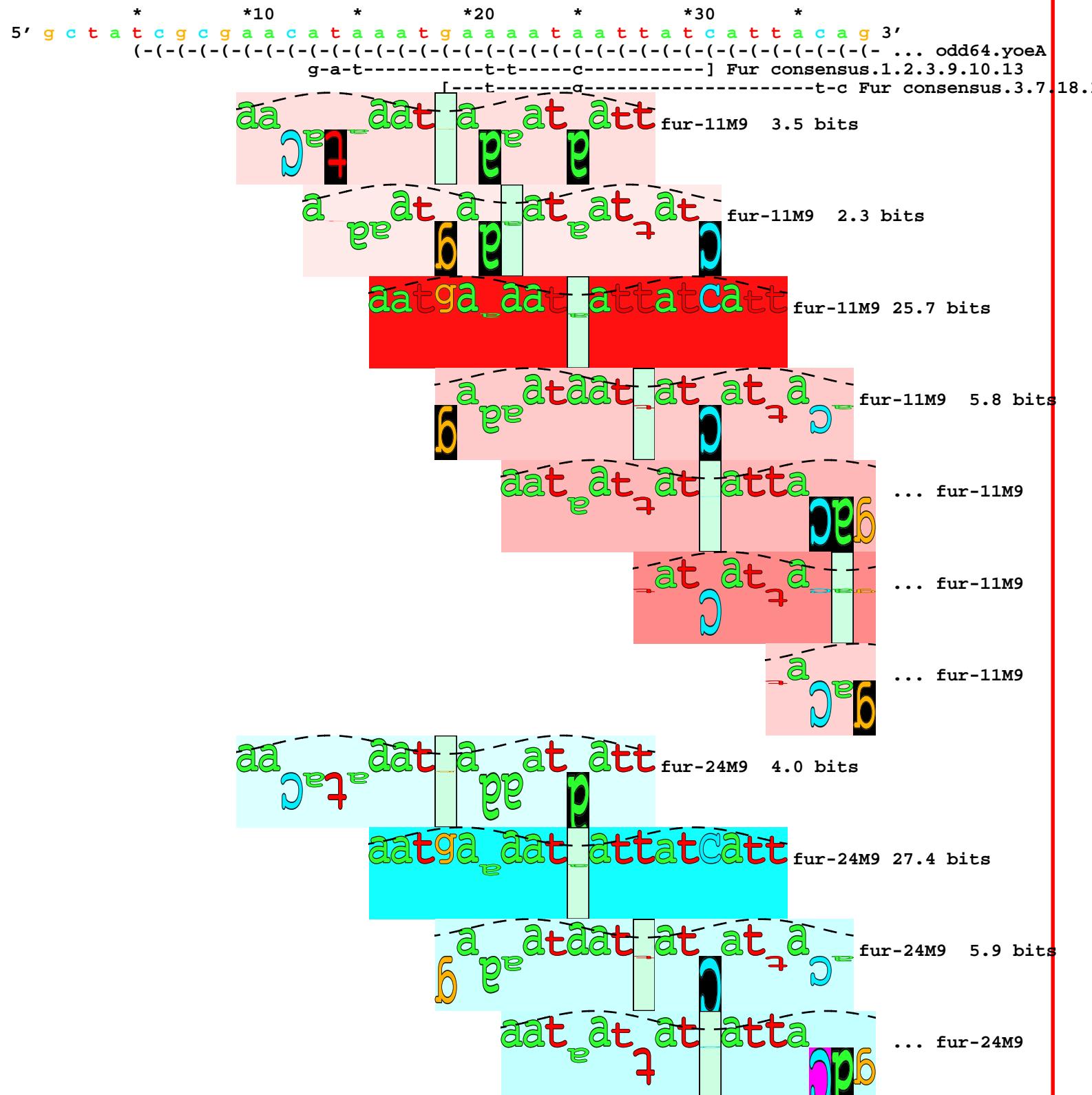
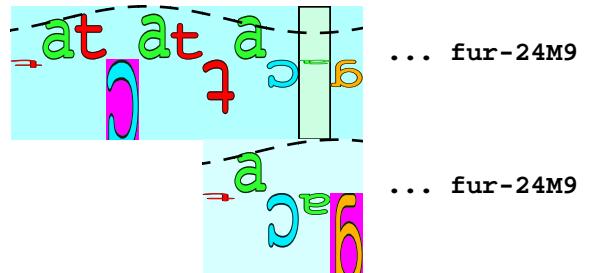


- 1 -

piece 1, yoeA, yoeA, config: linear, direction: +, begin: 1, end: 123





\*40 \* \* \*50 \* \* \*60 \* \* \*70 \*  
5' t a a t c a t t g t a c 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'  
... (-----) hairpin ... odd64.yoeA  
[ ----- ] hairpin ... fur-11M9

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

... t fur-11M9 7.7 bits

... t atCatt fur-11M9 12.6 bits

... taat att a t fur-11M9 5.0 bits

... t fur-24M9 6.9 bits

... t atCatt fur-24M9 9.0 bits

... taat att a t fur-24M9 4.7 bits

\*80 \* \* \*90 \* \* \*100 \* \* \*110



aat at t att tt ... fur-24M9

\* \*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

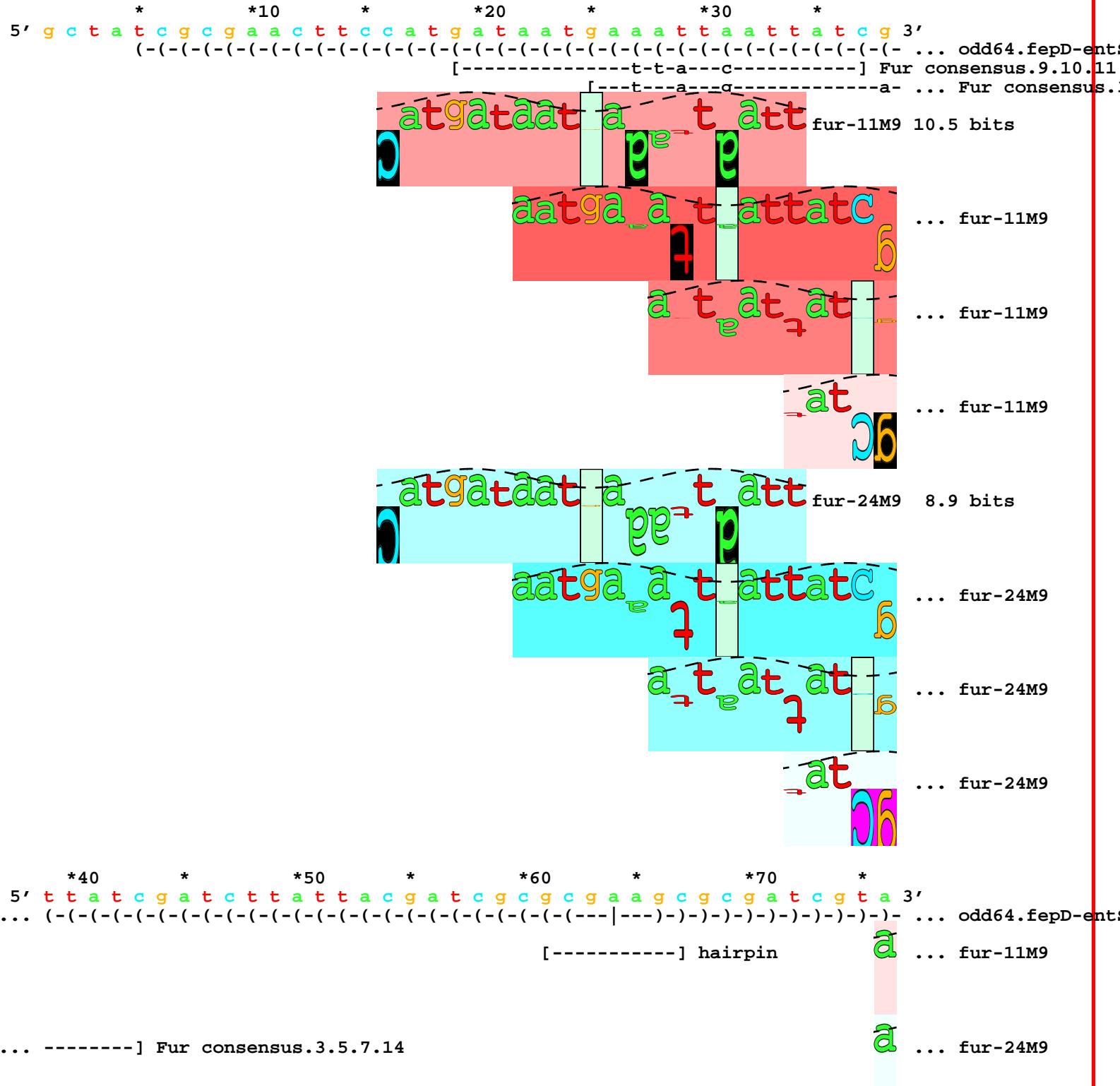
... t fur-11M9 2.3 bits

... tt fur-11M9 3.5 bits

... tt fur-24M9 4.0 bits

- 5 -

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



... 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 19.4 bits

... ttatc t fur-24M9 12.4 bits

... t at t t att fur-24M9 1.7 bits

5' \*80 \* \*90 \* \*100 \* \*110  
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 c a t g g a 3'  
... )-) ... odd64.fepD-ents

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

... at a a at a at fur-24M9 1.7 bits

[-----t-----t-----c-----t-----a----] Fur consensus.6.10.13.15.17  
[-----q-----t-----a----] Fur consensus.7.9.11

a gataaa at at a t fur-11M9 14.0 bits

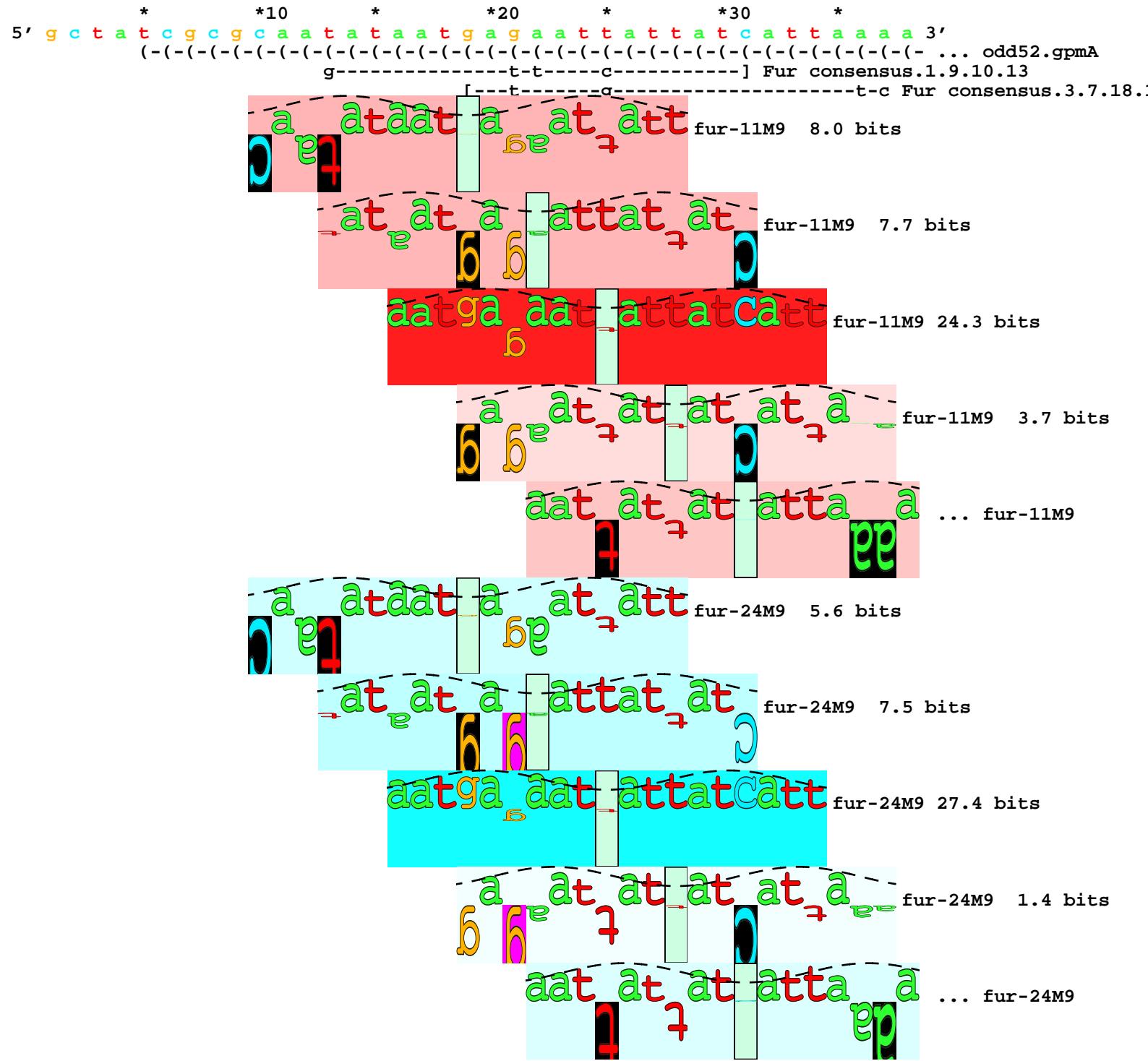
aa gataat a t t catt fur-11M9 17.2 bits

aat a t attatcat fur-11M9 10.5 bits

gat~~aa~~<sup>at</sup>~~at~~<sup>a</sup>~~t~~ fur-24M9 12.4 bits  
aa gat~~aa~~<sup>at</sup>~~at~~<sup>a</sup>~~t~~<sup>t</sup>catt fur-24M9 19.4 bits  
aat~~a~~<sup>t</sup>~~attat~~<sup>c</sup>at fur-24M9 8.9 bits

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

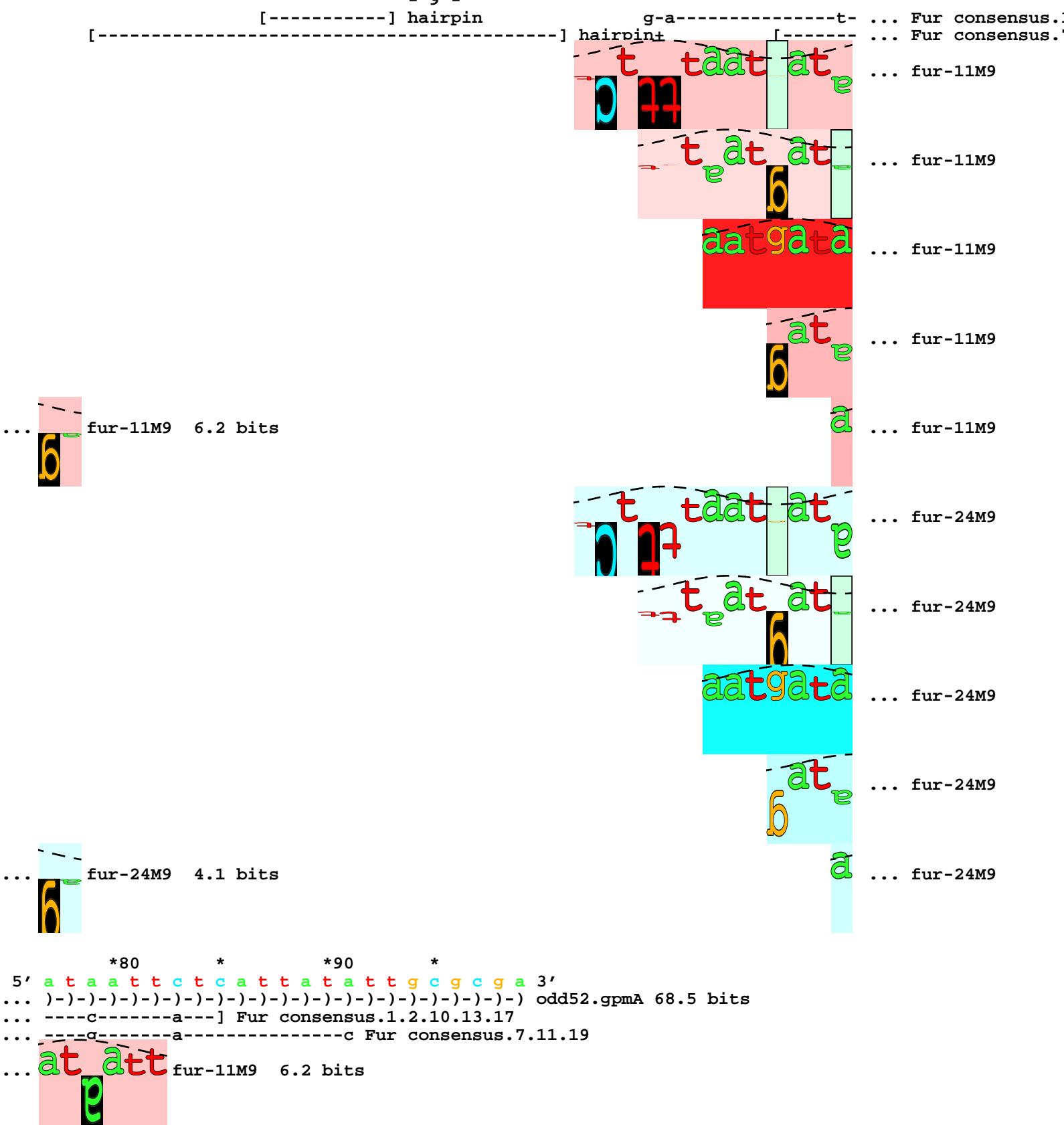
piece 3, gpmA, gpmA, config: linear, direction: +, begin: 1, end: 99

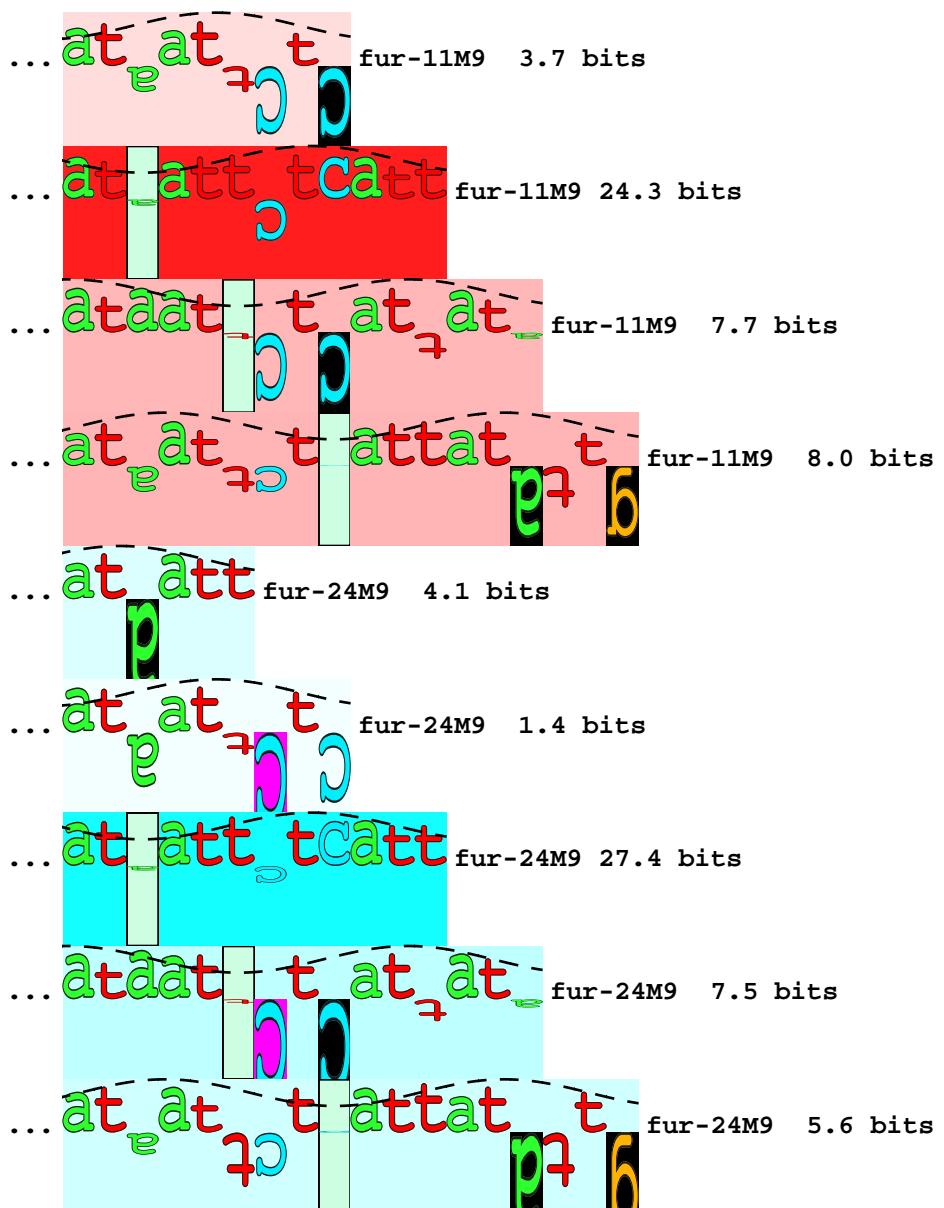


\*40 \*50 \*60 \*70 \*80  
5' g a a c g a t c g c g c a a g c g a t c g t t c t t t t a a t g a t a 3'  
... (-(-(-(-(-(-(-(-(-(-(-|---) ... odd52.gpmA

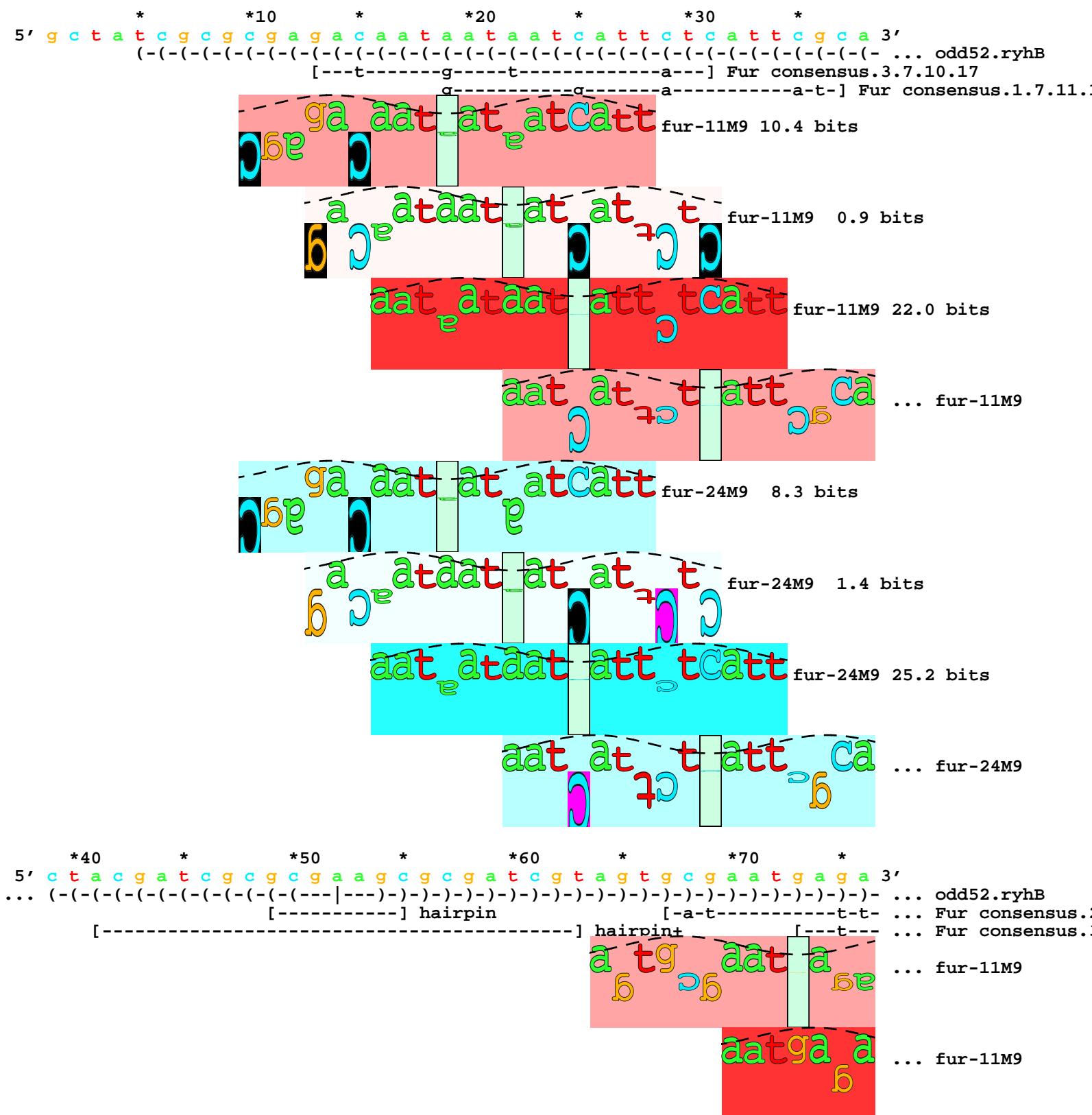
- 9 -

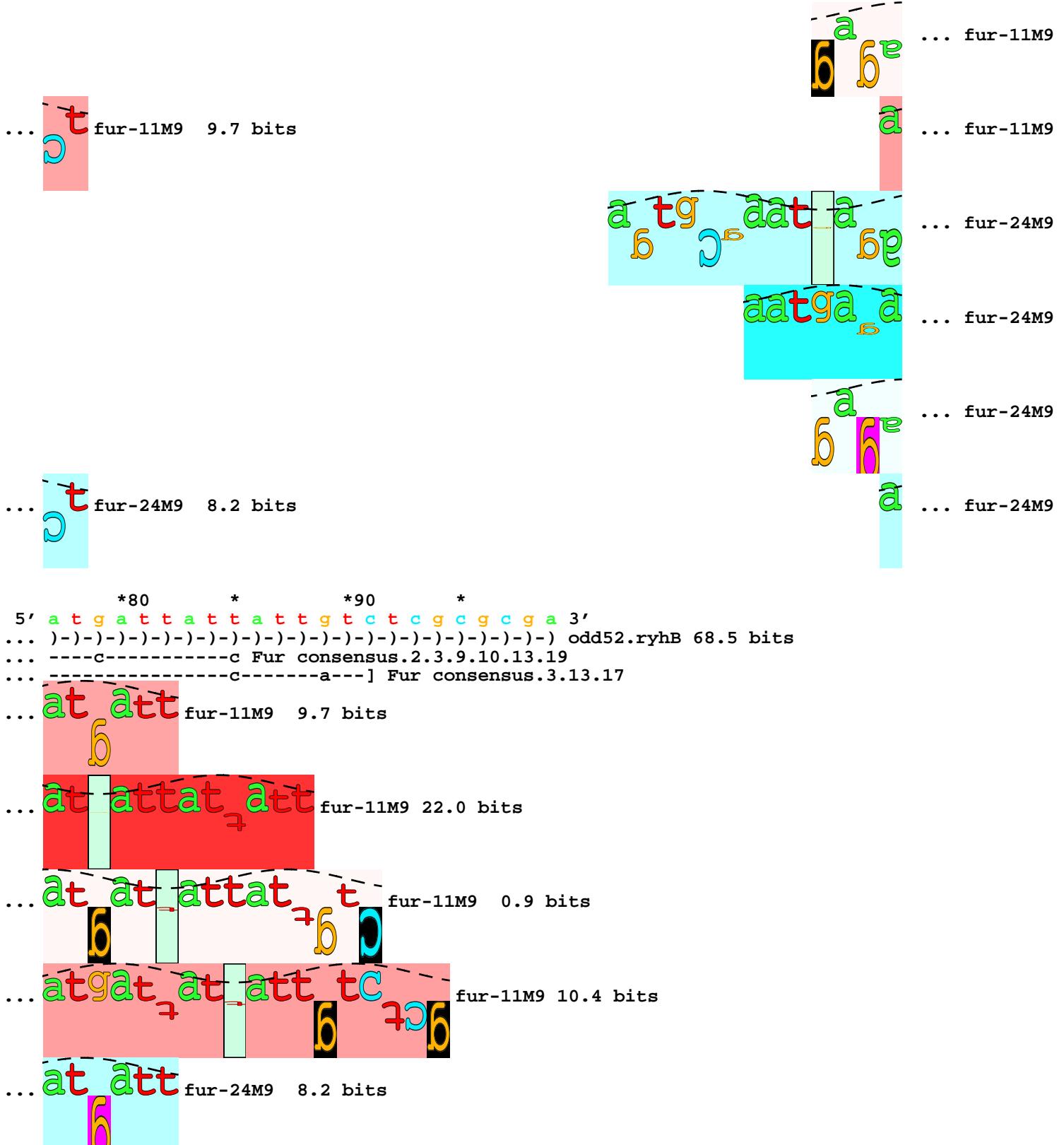
[-----] hairpin





piece 4, ryhB, ryhB, config: linear, direction: +, begin: 1, end: 99



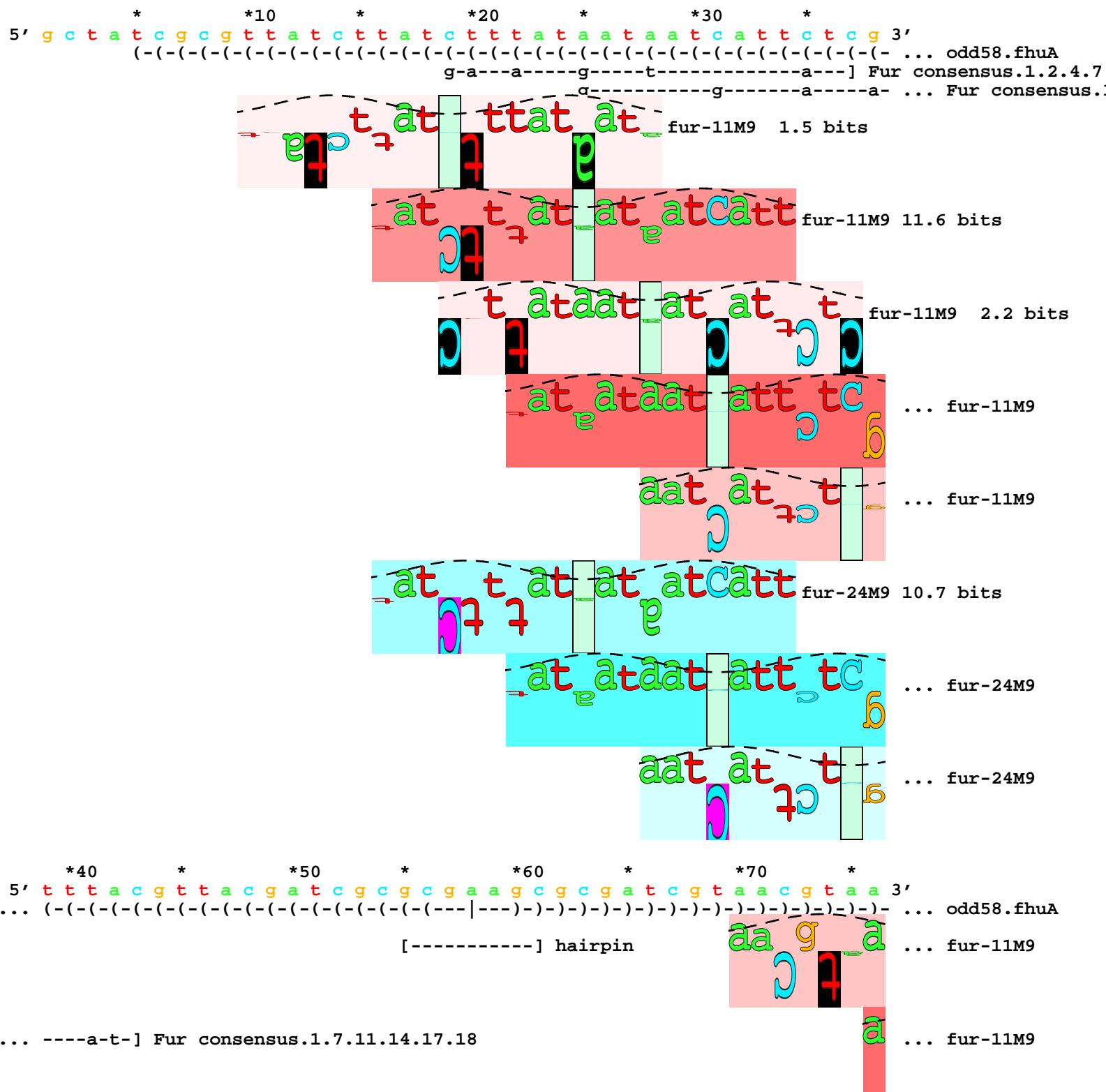


... at attat att fur-24M9 25.2 bits  
... at at attat t fur-24M9 1.4 bits  
... atgat at att tc fur-24M9 8.3 bits

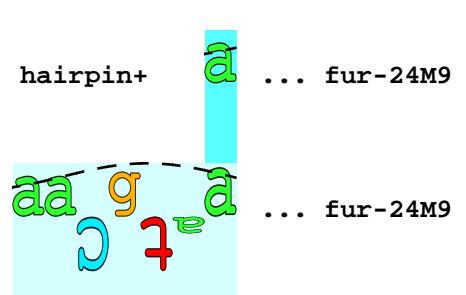
The diagram illustrates three DNA sequence fragments, each with a highlighted region and a fur-24M9 score. The first fragment has a score of 25.2 bits and shows a green highlighted region spanning from the second 't' to the end of the sequence. The second fragment has a score of 1.4 bits and shows a green highlighted region spanning from the third 't' to the end of the sequence. The third fragment has a score of 8.3 bits and shows a green highlighted region spanning from the fourth 't' to the end of the sequence. The letters in the sequences are colored: 'a' is red, 't' is green, 'g' is blue, 'c' is orange, and 'n' is black.

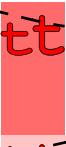
- 14 -

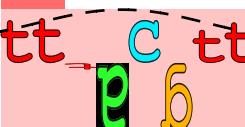
piece 5, fhuA, fhuA, config: linear, direction: +, begin: 1, end: 111



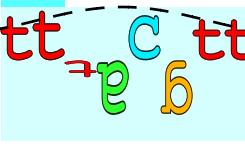
[-----] hairpin+  ... fur-24M9



...  fur-11M9 16.1 bits

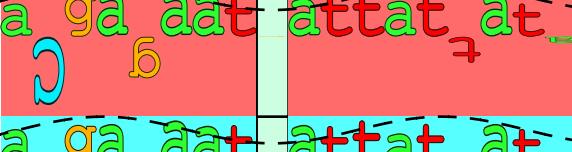
...  fur-11M9 6.3 bits

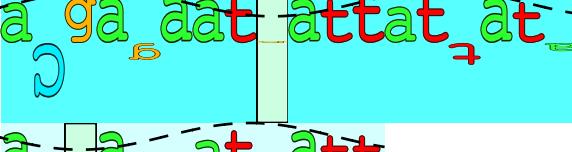
...  fur-24M9 19.5 bits

...  fur-24M9 4.9 bits

5' \*80 \* \* \*90 \* \* \*100 \* \* \*110  
a c g a g a a t g a t t a t a a a g a t a a a g a t a a c g c g a 3'  
... )-) odd58.fhuA 77.5 bits

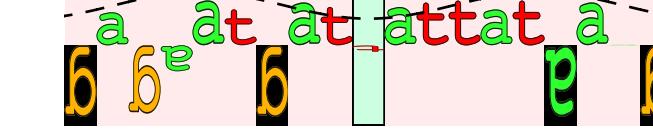
...  fur-11M9 6.3 bits

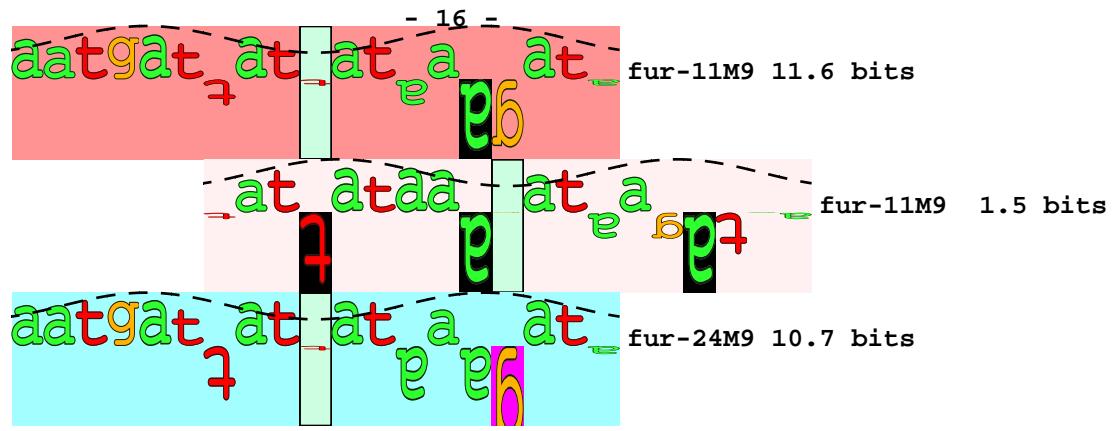
...  fur-11M9 16.1 bits

...  fur-24M9 19.5 bits

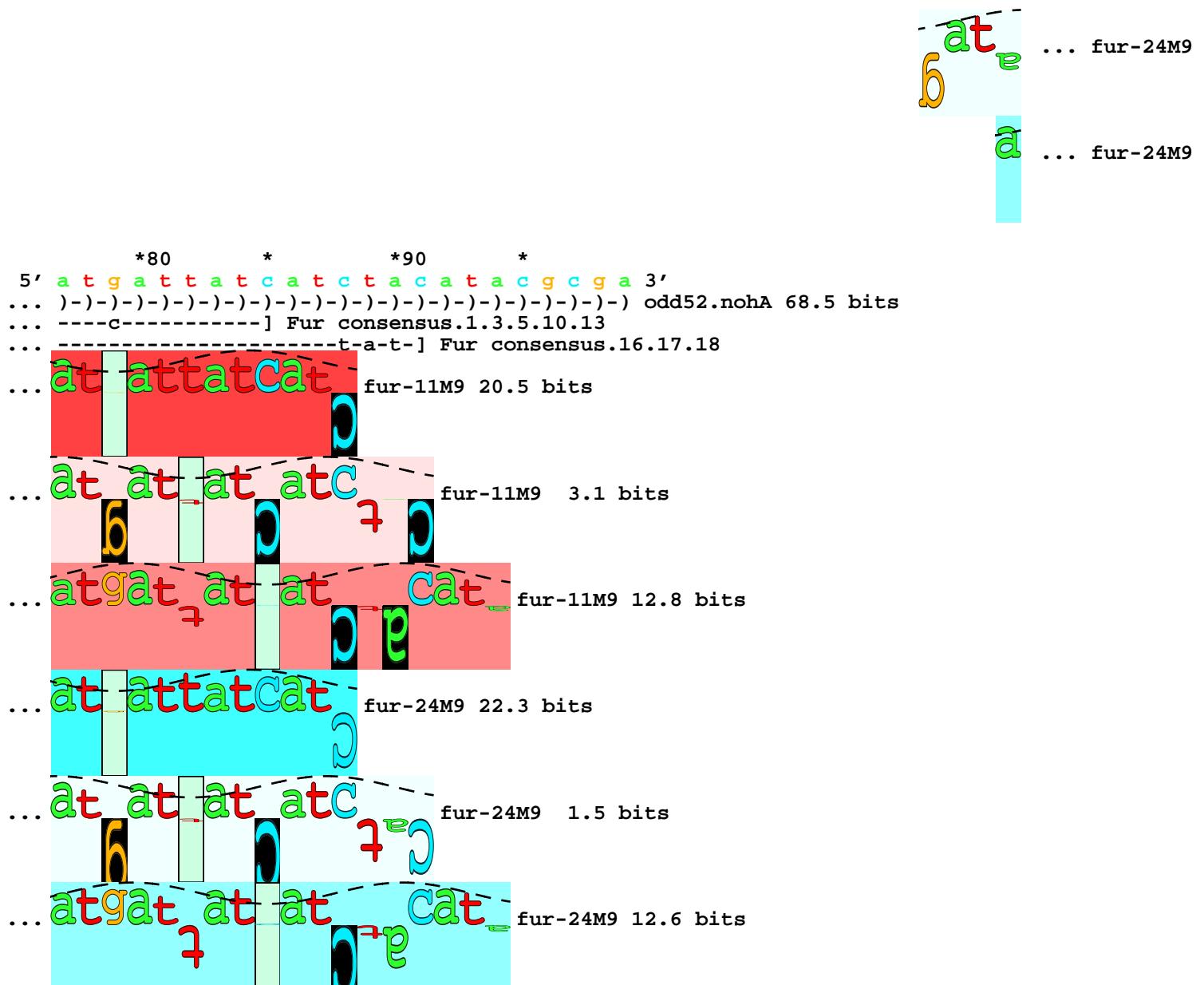
...  fur-24M9 4.9 bits

Fur consensus.3.13.16.18.19

...  fur-11M9 2.2 bits

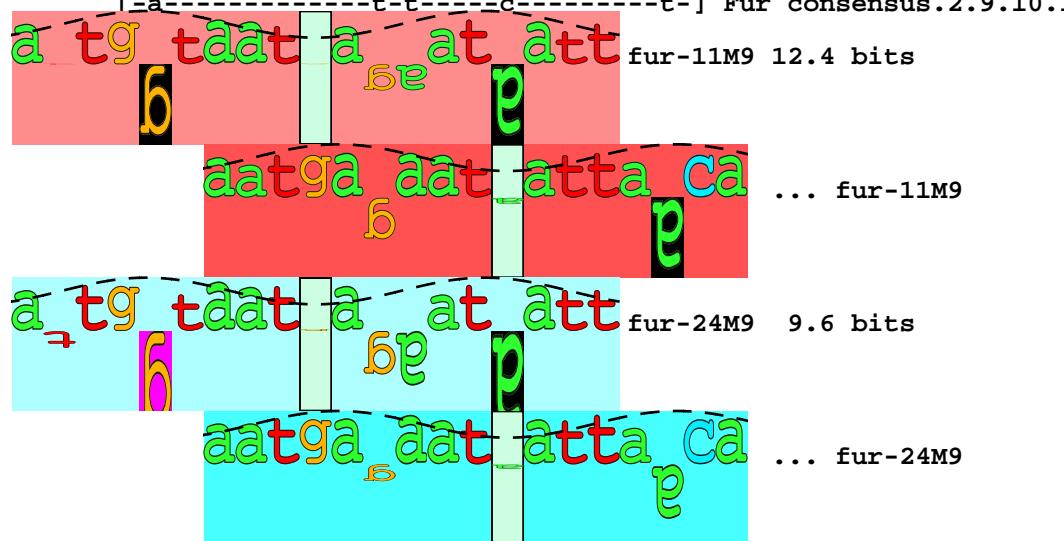






piece 7, oppA, oppA, config: linear, direction: +, begin: 1, end: 111

5' \* \*10 \* \*20 \* \*30 \*  
 g c t a t c a g c g t t c 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



\*40 \* \*50 \* \*60 \* \*70 \*  
 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 a a 3'  
 ... (-----) odd58.oppA  
 [-----] hairpin

[-----] hairpin+ ... fur-11M9  
 [-----] hairpin+ ... fur-24M9

... t fur-11M9 18.7 bits

... t fur-24M9 21.5 bits

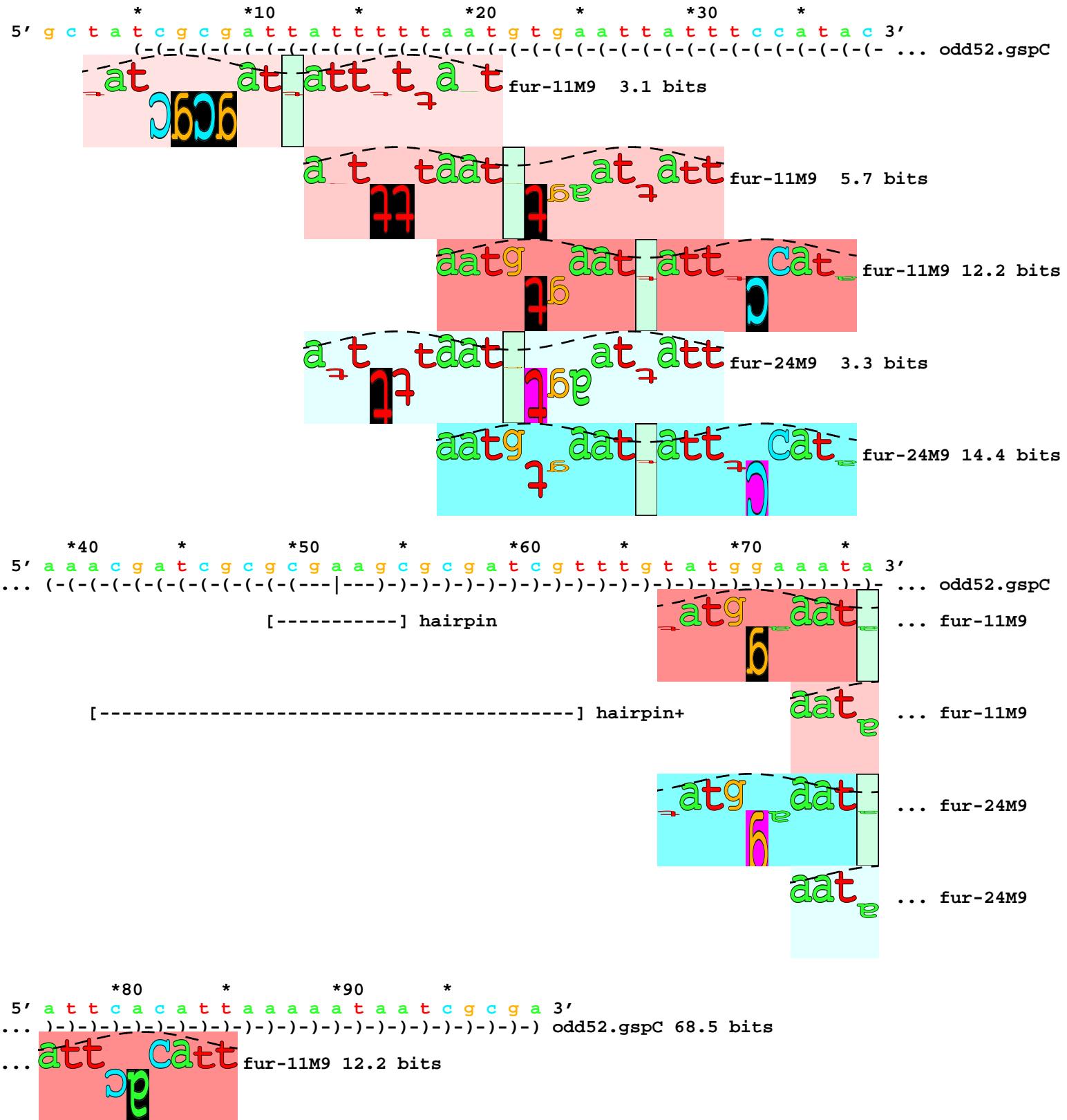
\*80 \* \*90 \* \*100 \* \*110  
 5' t t g t t a a t t a t t c a t t a c c a a t a a a g a a c g c g a 3'  
 ... (-----) odd58.oppA 77.5 bits  
 ... t g t a a t t a t t c a t t fur-11M9 18.7 bits

... tg t~~aa~~<sup>t</sup>att<sup>t</sup>catt<sup>t</sup> 20 -  
fur-24M9 21.5 bits

[ -a-----a-----a-----t-] Fur consensus.2.7.11.18  
aat at t atta ca t fur-11M9 12.4 bits

aat at t atta ca t fur-24M9 9.6 bits

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



... at  atta a t fur-11M9 5.7 bits

... att  catt fur-24M9 14.4 bits

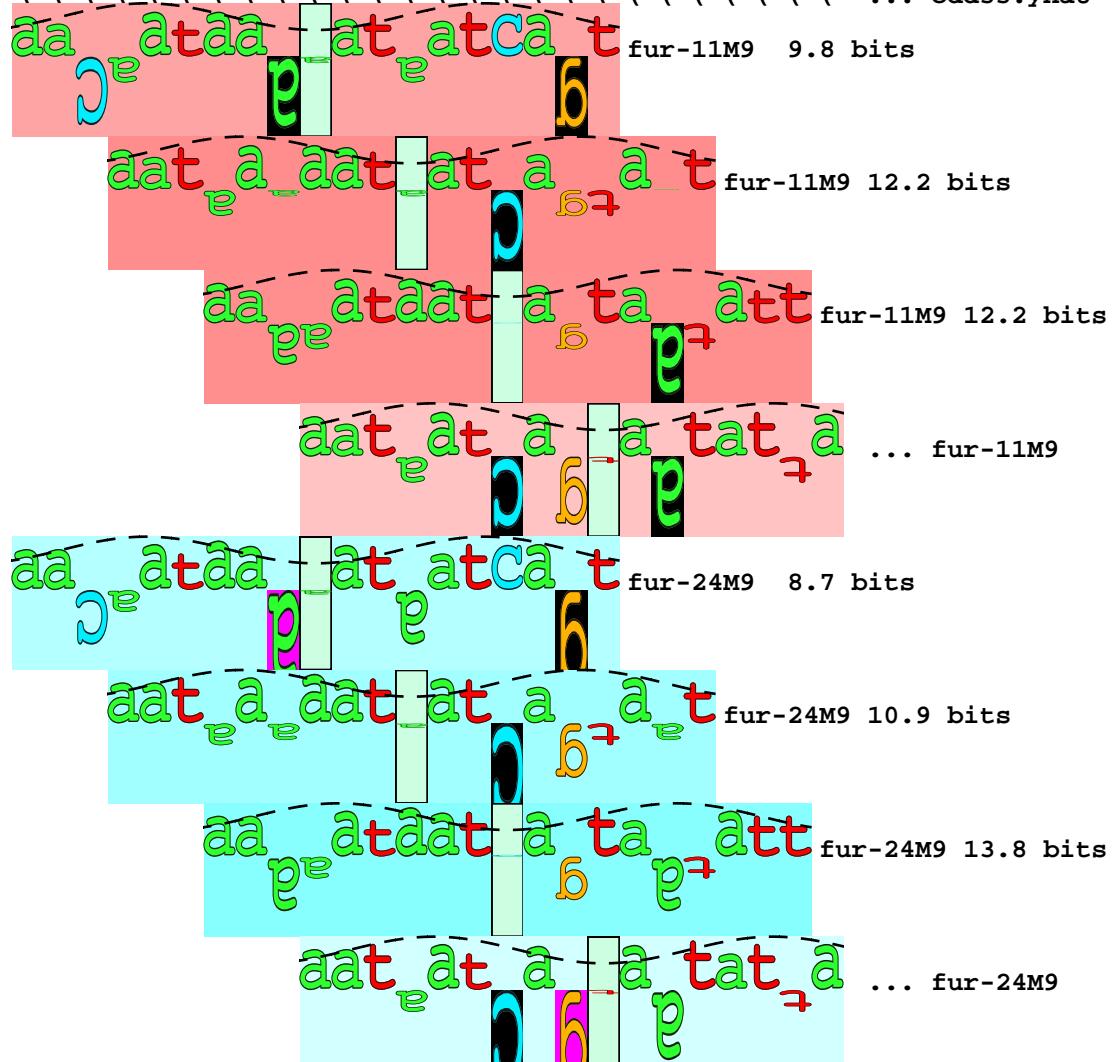
... at  atta a p a t fur-24M9 3.3 bits

- 23 -

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

\* \*10 \* \*20 \* \*30 \*

5' g c t a t c g c g g g t a a c a a t a a a a a a t a a t c a g t a a t a t a t a 3'  
 $\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---}(\text{---})))))))))))))))))$  ... 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 a a t a 3'  
 $\dots (\text{---}))))))))))))))))))))$  ... odd55.yhaU

[-----] hairpin

... Fur consensus.1

[-----] hairpin+

... fur-11M9  
 ... fur-11M9

... fur-11M9 6.4 bits

â ... fur-11M9

t atâ ... fur-24M9

dat ... fur-24M9

â ... fur-24M9

... fur-24M9 5.2 bits

\*80 \* \* \* \* \*100 \*  
5' t t a c t g a t t a 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

ta 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 5.2 bits

ta t attat tt fur-24M9 13.8 bits

t t at att t att fur-24M9 10.9 bits

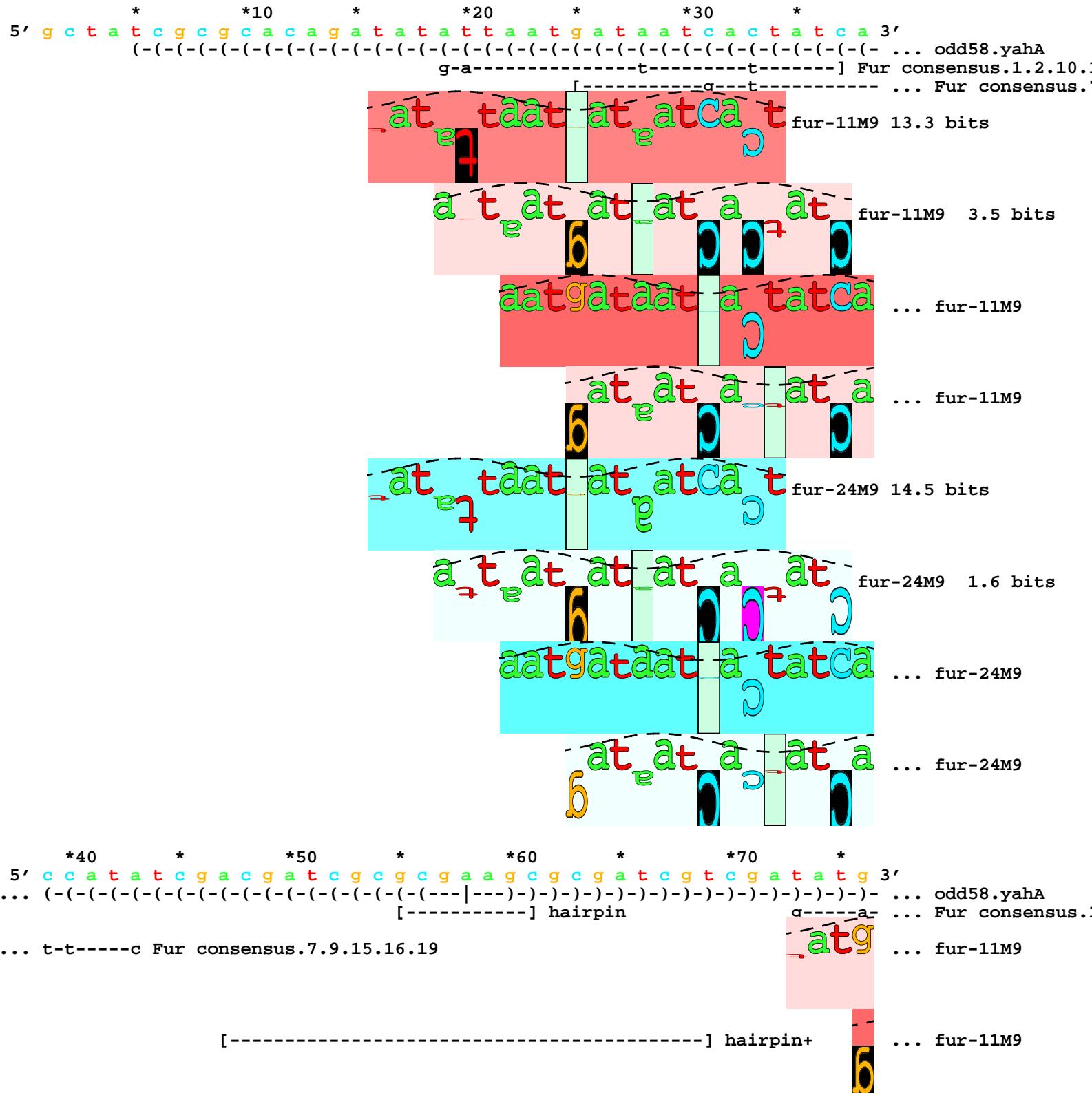
a t gat at ttat tt ] Fur consensus.4.7.8.13.14.18

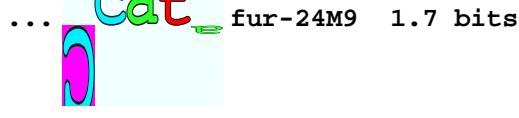
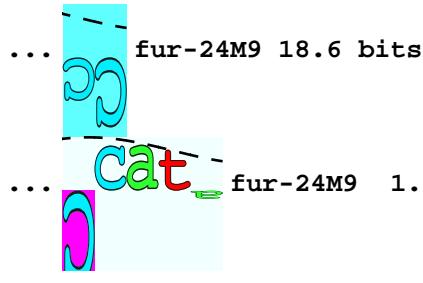
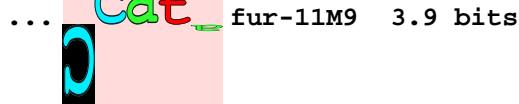
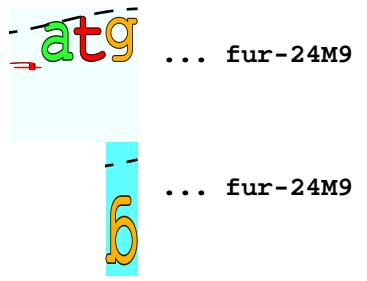
c a t gat at ttat tt fur-11M9 9.8 bits

a tgat at ttat tt  
0 7 2 6 fur-24M9 8.7 bits

- 26 -

piece 10, yahA, yahA, config: linear, direction: +, begin: 1, end: 111





5' \*80 \* \* \*90 \* \* \*100 \* \* \*110  
gt g a t a g t g a t t a t c a t t a 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

... t at t at at at fur-11M9 3.9 bits



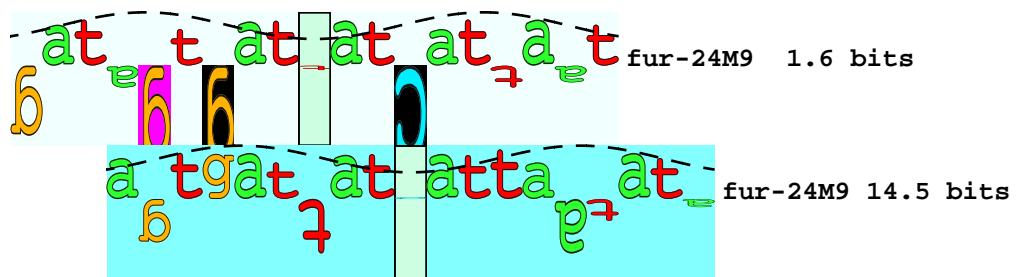
... t at t at at at fur-24M9 1.7 bits



... at t at at at at a t Fur consensus.5.18.19

... b e b b fur-11M9 3.5 bits

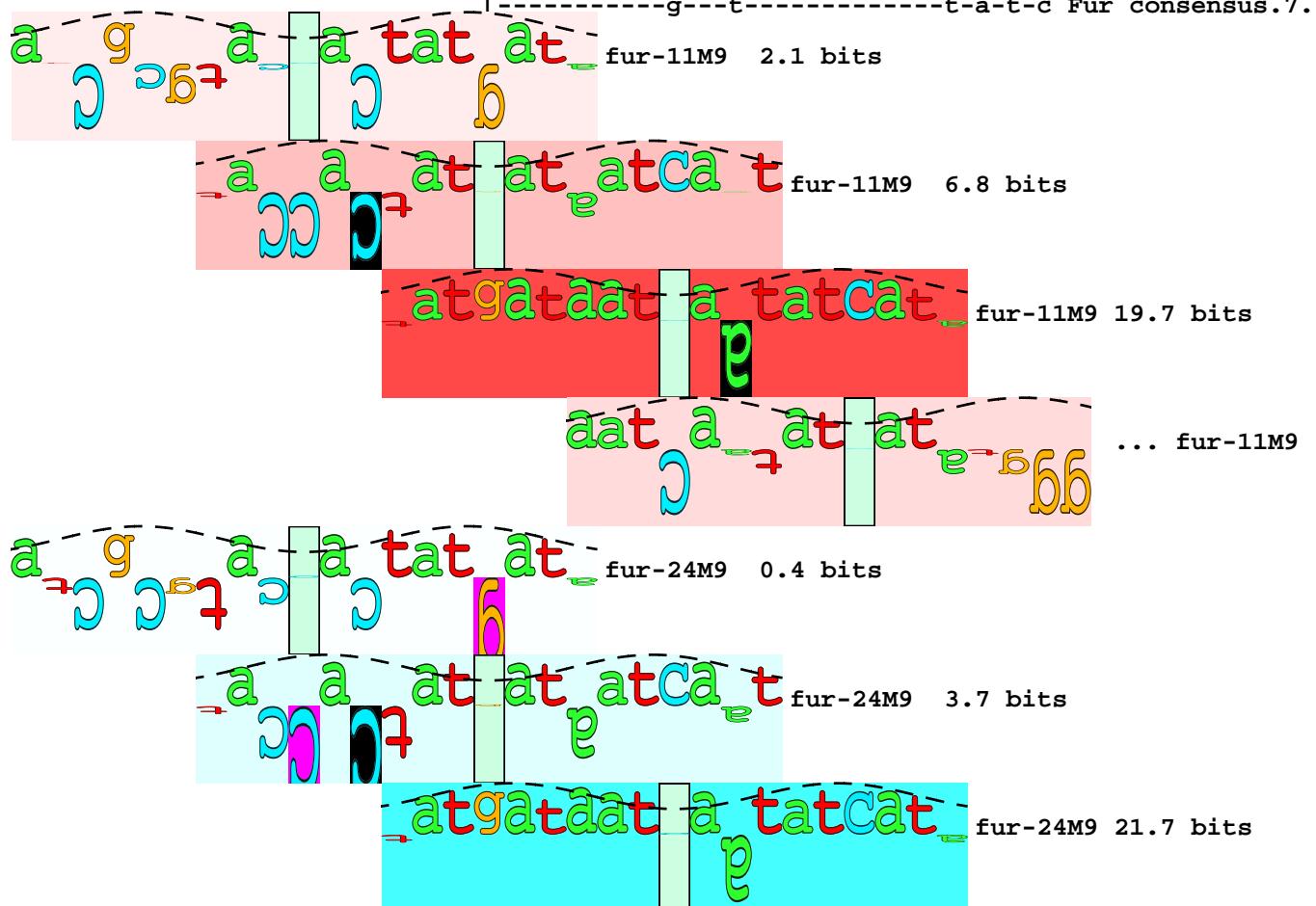
... a t g a t a t atta a t fur-11M9 13.3 bits



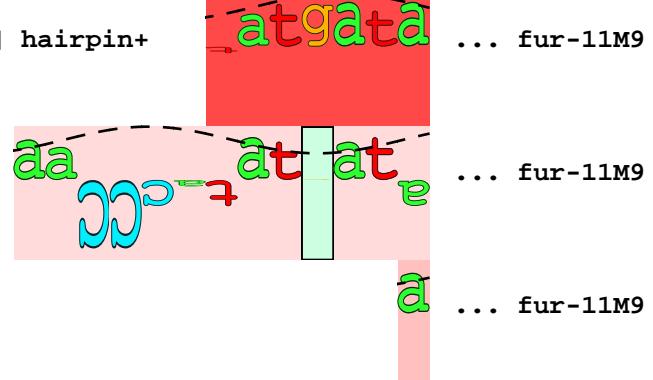
- 29 -

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

\* \*10 \*20 \*30 \*  
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  
g---t-a-----t-----t-----t-----] Fur consensus.1.3.4.10.15  
g-----t-----t-a-t-c Fur consensus.7.9.16.1



\*40 \* \* \*50 \* \* \*60 \* \* \*70 \*  
5' 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 ] hairpin+ [-----] ... Fur consensus.1.3.4.10.15  
[-----] ... fur-11M9



atgata ... fur-24M9  
â ... fur-24M9

... tt fur-11M9 3.8 bits

\*80 \* \* \*90 \*  
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

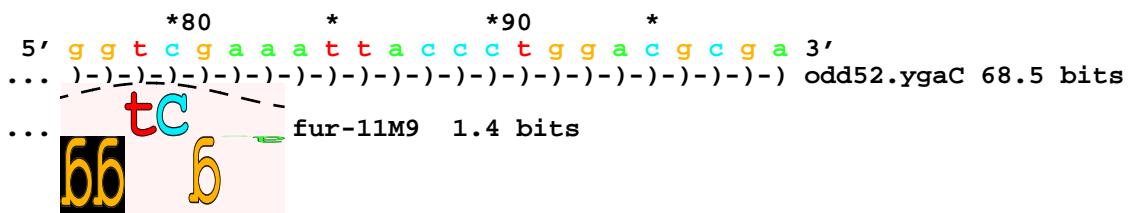
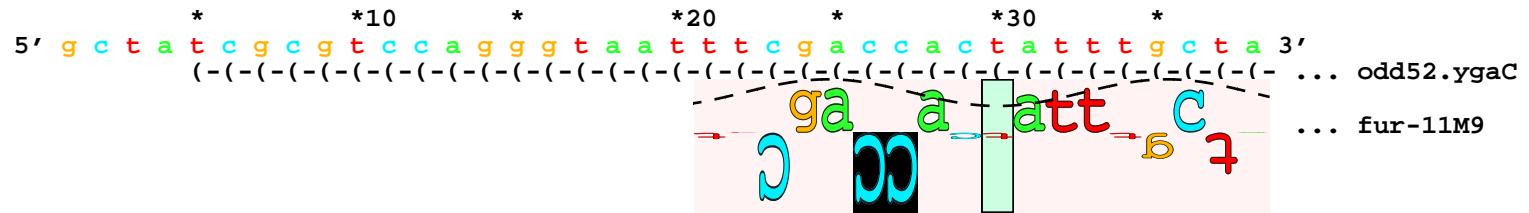
tgat at at t b bb fur-11M9 6.8 bits

t attatCat fur-24M9 21.7 bits

tgat at at t b bb fur-24M9 3.7 bits

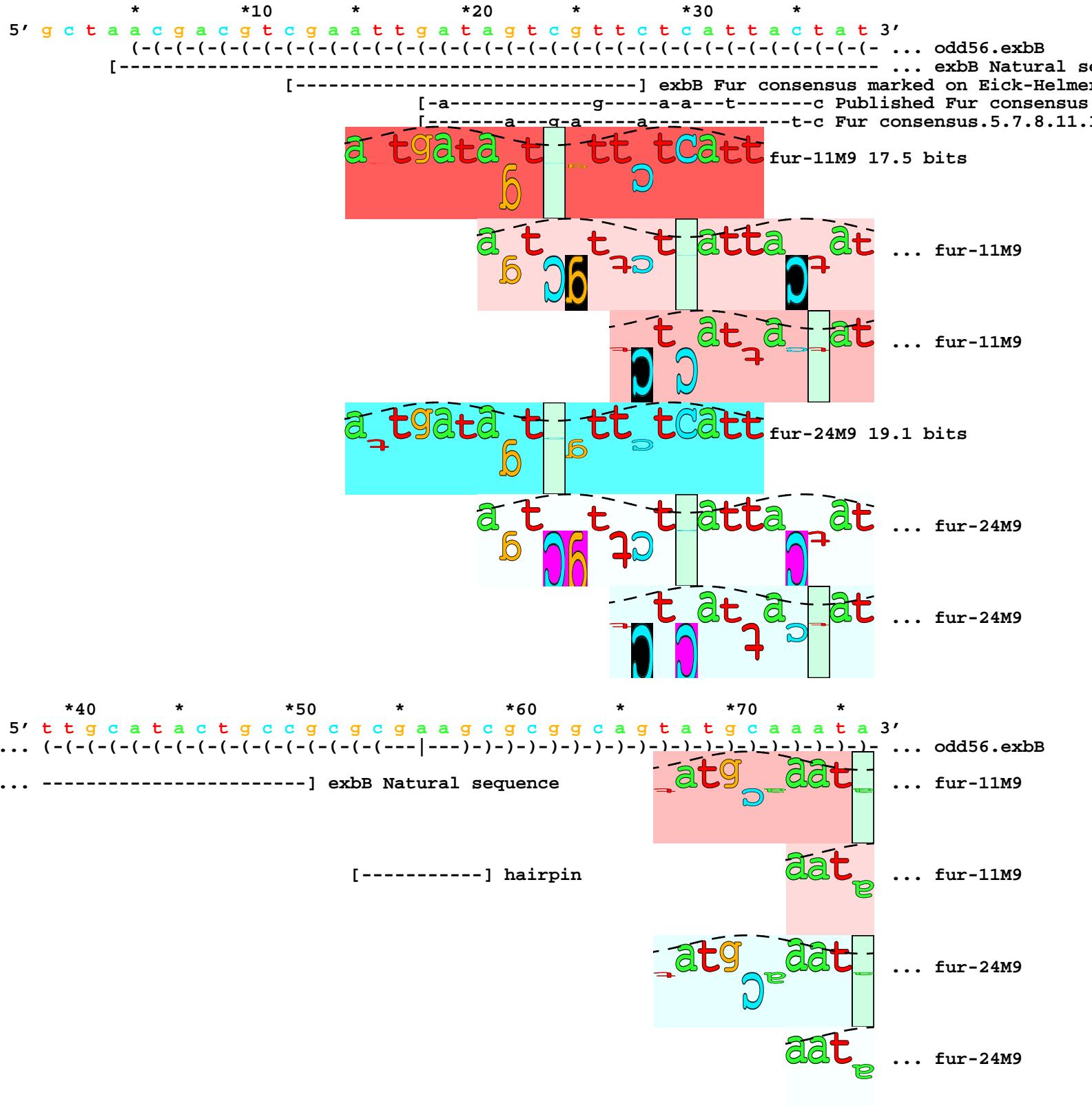
- 31 -

piece 12, ygaC, ygaC, config: linear, direction: +, begin: 1, end: 99

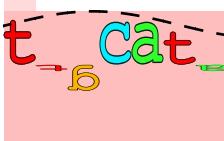


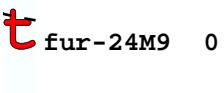
- 32 -

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



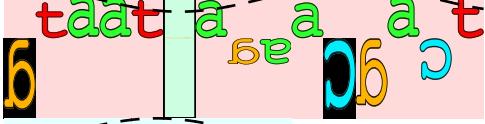
...  fur-11M9 4.0 bits

...  fur-11M9 7.0 bits

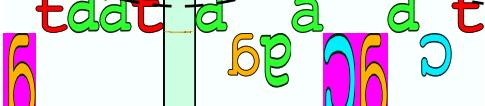
...  fur-24M9 0.8 bits

...  fur-24M9 2.8 bits

5' \*80 \* \*90 \* \*100 \*  
... 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'  
...  fur-11M9 7.0 bits

...  fur-11M9 4.0 bits

...  fur-24M9 2.8 bits

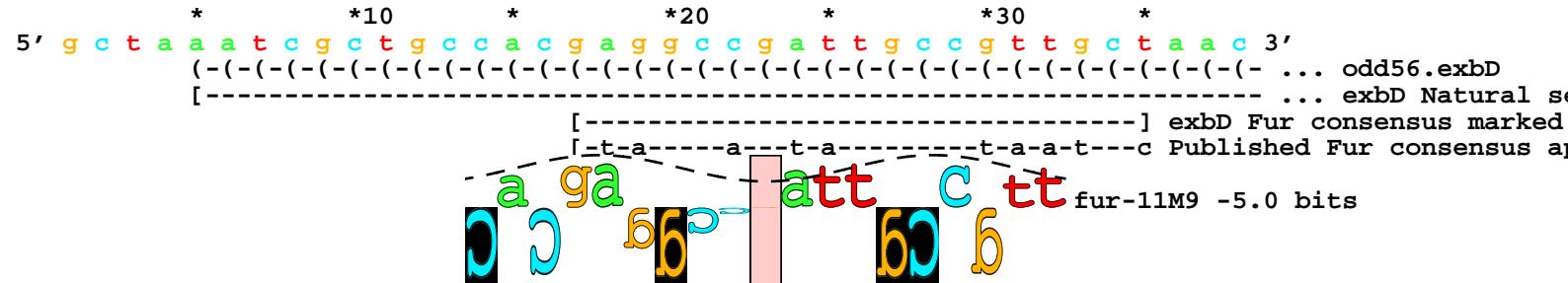
...  fur-24M9 0.8 bits

-----] 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 19.1 bits

piece 14, exbD, exbD, config: linear, direction: +, begin: 1, end: 107



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

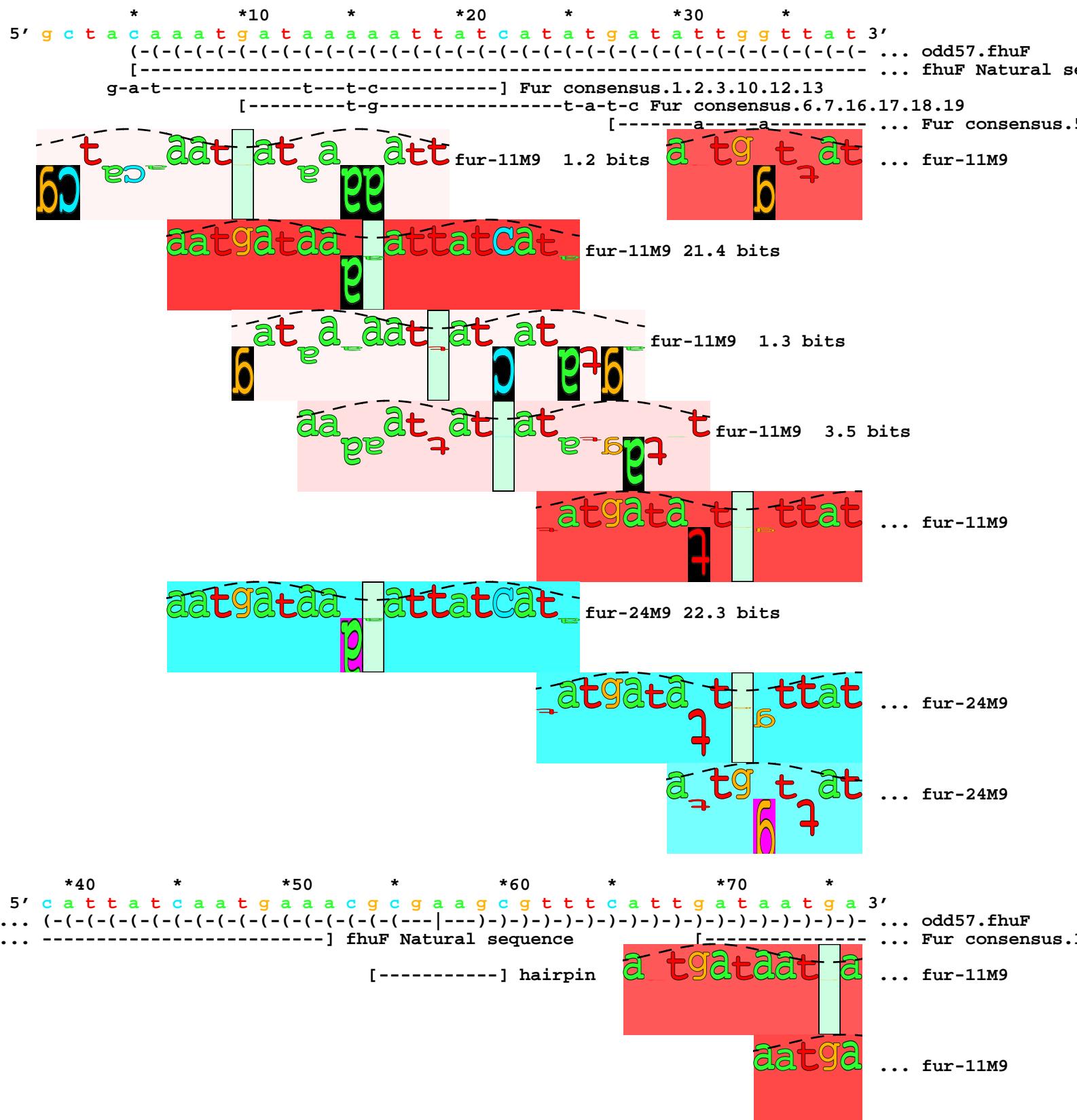
5' a g a g c t t c t g c g a c g c g a a g c g t c g c a g a a g c t c t g t t 3'  
... (- odd56.exbD  
... -----] exbD Natural sequence  
[-----] hairpin  
[-----] ... exbD Natural sequence

\*80 \*90 \*100 \*

5' a g c a a c g g c a a t c g g c c t c g t g g c a g c g a t t 3'  
... ) - odd56.exbD 74.5 bits  
[-----] exbD Fur consensus marked on Eick-Helmerich/Braun figure 1  
[-----] fur-11M9 -5.0 bits  
... -----] exbD Natural sequence

... ) - odd56.exbD 74.5 bits  
[-----] exbD Fur consensus marked on Eick-Helmerich/Braun figure 1  
[-----] fur-11M9 -5.0 bits  
... -----] exbD Natural sequence

piece 15, fhuF, fhuF, config: linear, direction: +, begin: 1, end: 109



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

a  ... fur-24M9

...  fur-11M9 18.0 bits

a  ... fur-24M9

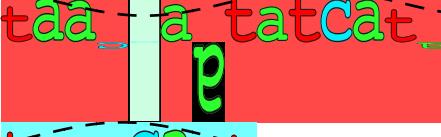
...  fur-11M9 19.8 bits

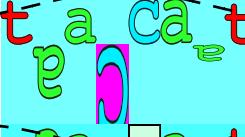
...  fur-24M9 20.8 bits

...  fur-24M9 16.1 bits

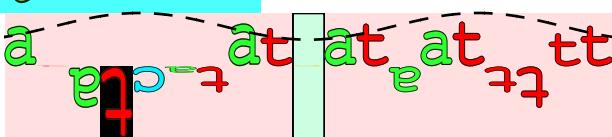
\*80 \* \* \*90 \* \* \*100 \*  
5' t a a c c a a t a t c a t a t g a t a a t t t t t t a t c a t t t g 3'  
... )-) odd57.fhuF 76.0 bits  
... -----] Fur consensus.10.12.15

...  fur-11M9 18.0 bits

...  fur-11M9 19.8 bits

...  fur-24M9 16.1 bits

...  fur-24M9 20.8 bits

a  fur-11M9 3.5 bits

