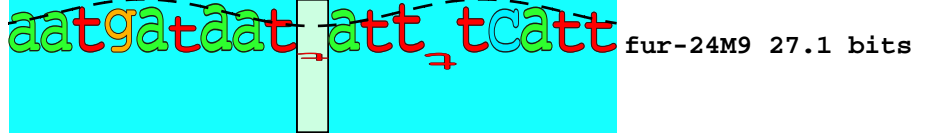
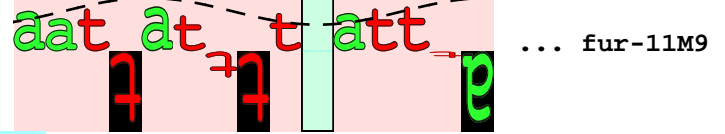
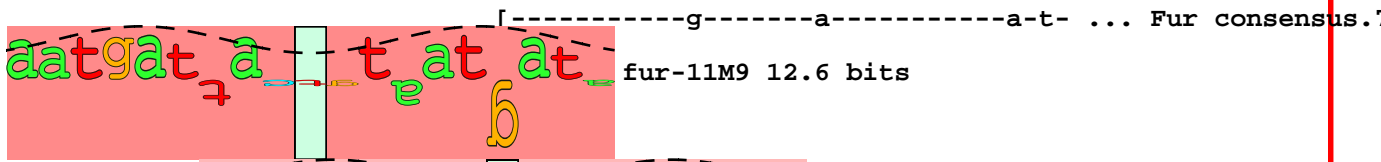
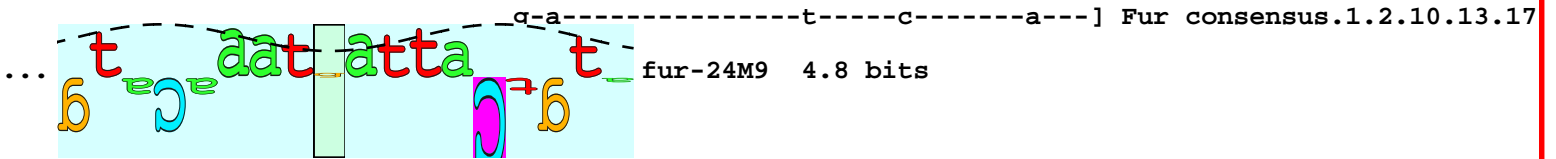
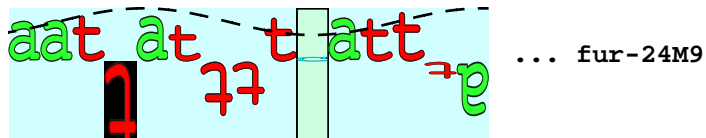


\*80 \* \*90 \* \*100 \* \*110

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 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

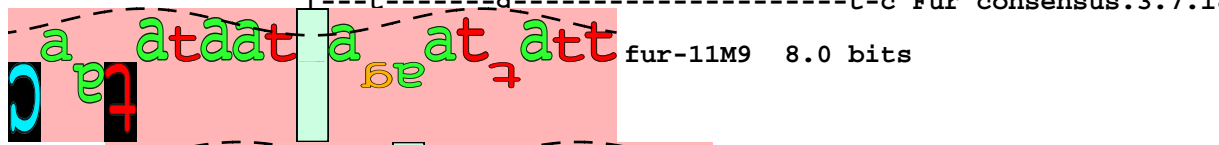
a a g a t d a a t a t t c a t t fur-24M9 20.1 bits

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

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  
-----t-c----- Fur consensus.3.7.18.1



... \*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 c g 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

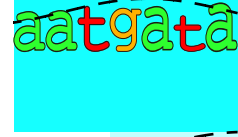
... fur-11M9



... fur-24M9



... fur-24M9



... fur-24M9



... fur-24M9

... fur-24M9 4.3 bits

... fur-24M9

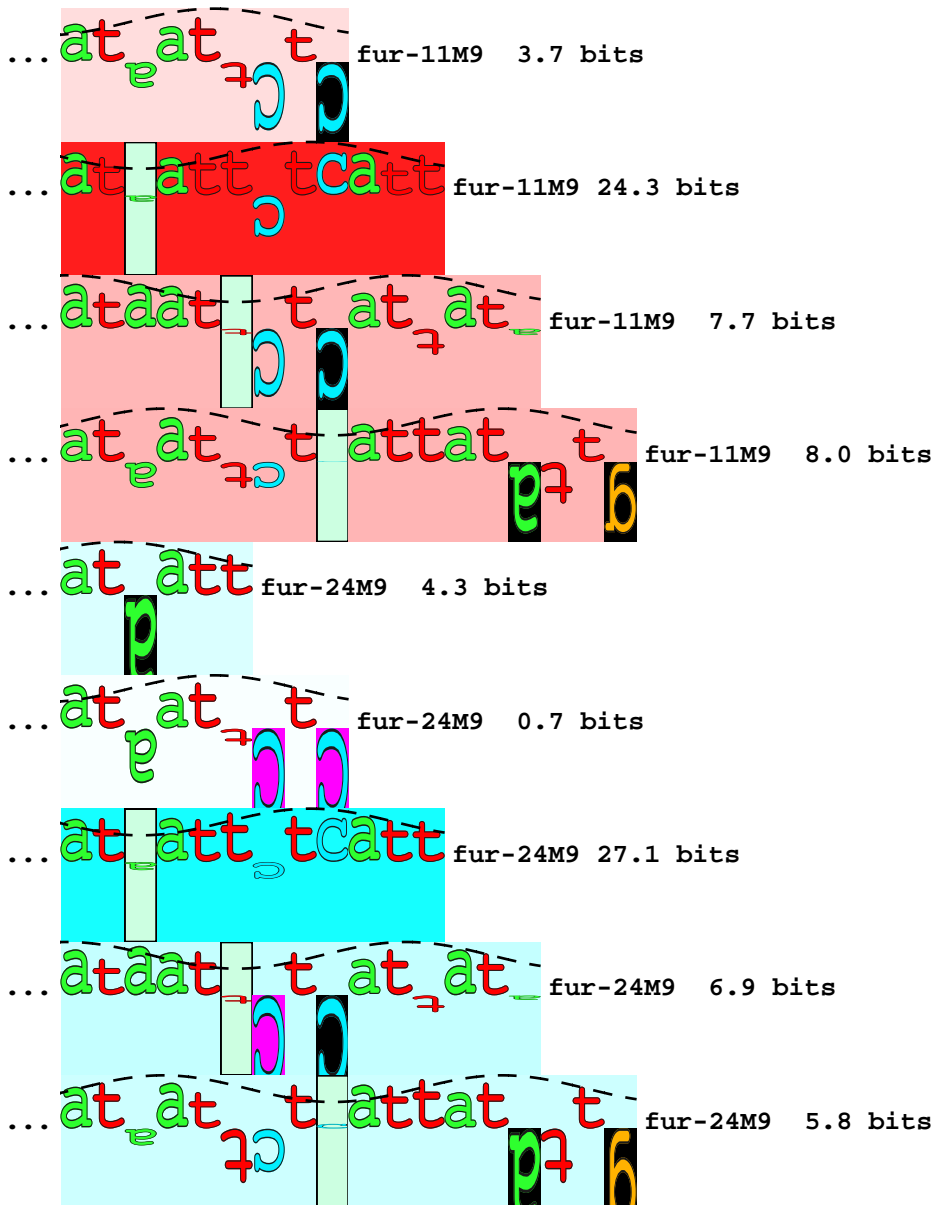
5' a t a a t t c t c a t t a t a t t g c g c g a 3'

... )-) odd52.gpmA 68.5 bits

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

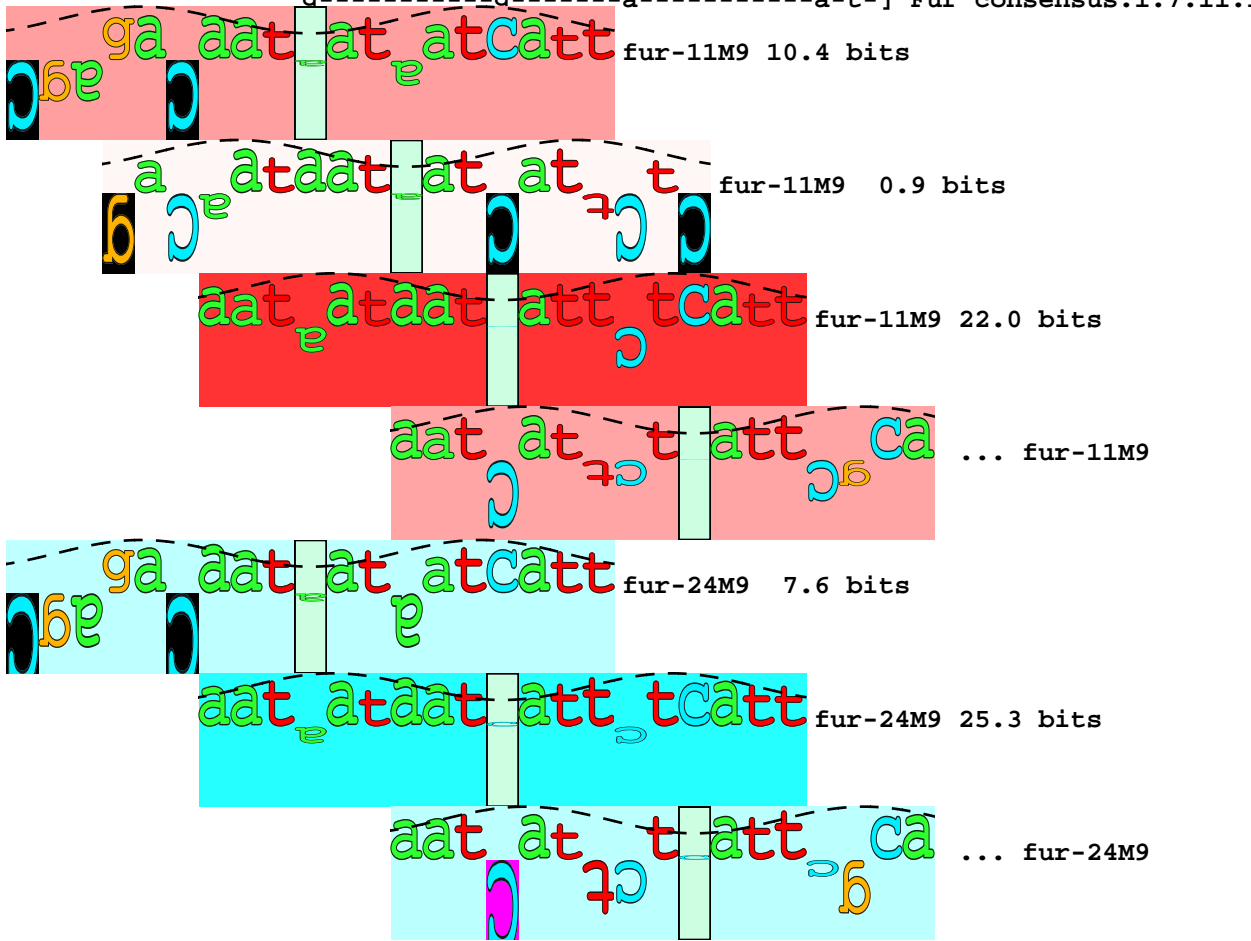
... ---g-----a-----c Fur consensus.7.11.19

... at att fur-11M9 6.2 bits

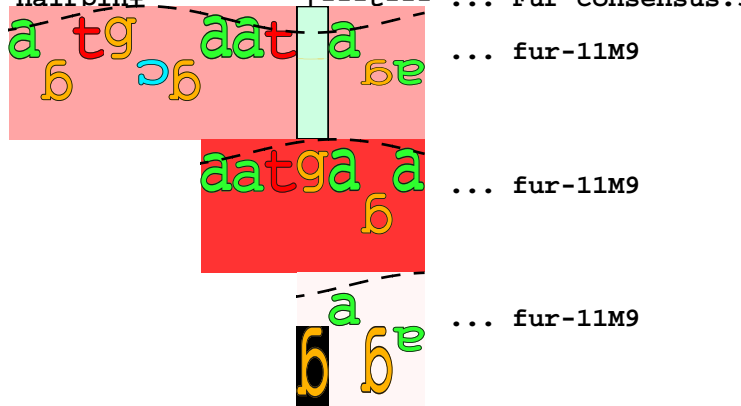


piece 4, ryhB, ryhB, config: linear, direction: +, begin: 1, end: 99

5' g c t a t c g c g c g a g a c a a t a a t a a t c a t t c t c a t t c g c a 3'  
(--( ... odd52.ryhB  
[---t-----g-----t-----a---] Fur consensus.3.7.10.17  
-----a-t-] Fur consensus.1.7.11.18




\*40 \* \* \* \* \*  
5' 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 g t g c g a a t g a g a 3'  
... (--( ... odd52.ryhB  
[-----] hairpin [-----] hairpin [-a-t-----t-t- ... Fur consensus.2  
-----] hairpin [---t- ... Fur consensus.3




...  fur-11M9 9.7 bits ... fur-11M9

... fur-24M9



... fur-24M9

... fur-24M9



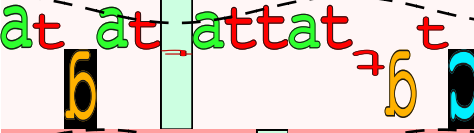
... fur-24M9

...  fur-24M9 7.8 bits ... fur-24M9

5' <sup>\*80</sup> a t g a t t a t t a t t g t c t c g c g c g a 3' <sup>\*90</sup>  
 ... )-) odd52.ryhB 68.5 bits  
 ... ---c-----c Fur consensus.2.3.9.10.13.19  
 ... -----c-----a---] Fur consensus.3.13.17


...  fur-11M9 9.7 bits

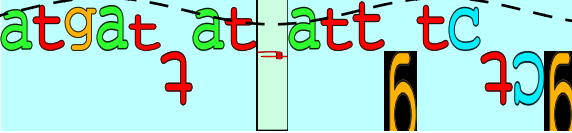
...  fur-11M9 22.0 bits

...  fur-11M9 0.9 bits

...  fur-11M9 10.4 bits

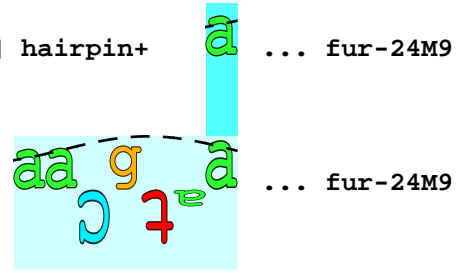
...  fur-24M9 7.8 bits

...  fur-24M9 25.3 bits

...  fur-24M9 7.6 bits



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



... tt fur-11M9 16.1 bits



... tt fur-24M9 19.9 bits



5' acgagaaatgattattataaagataagataaacgcga 3' odd58.fhuA 77.5 bits

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

... a ga aat attat at fur-11M9 16.1 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



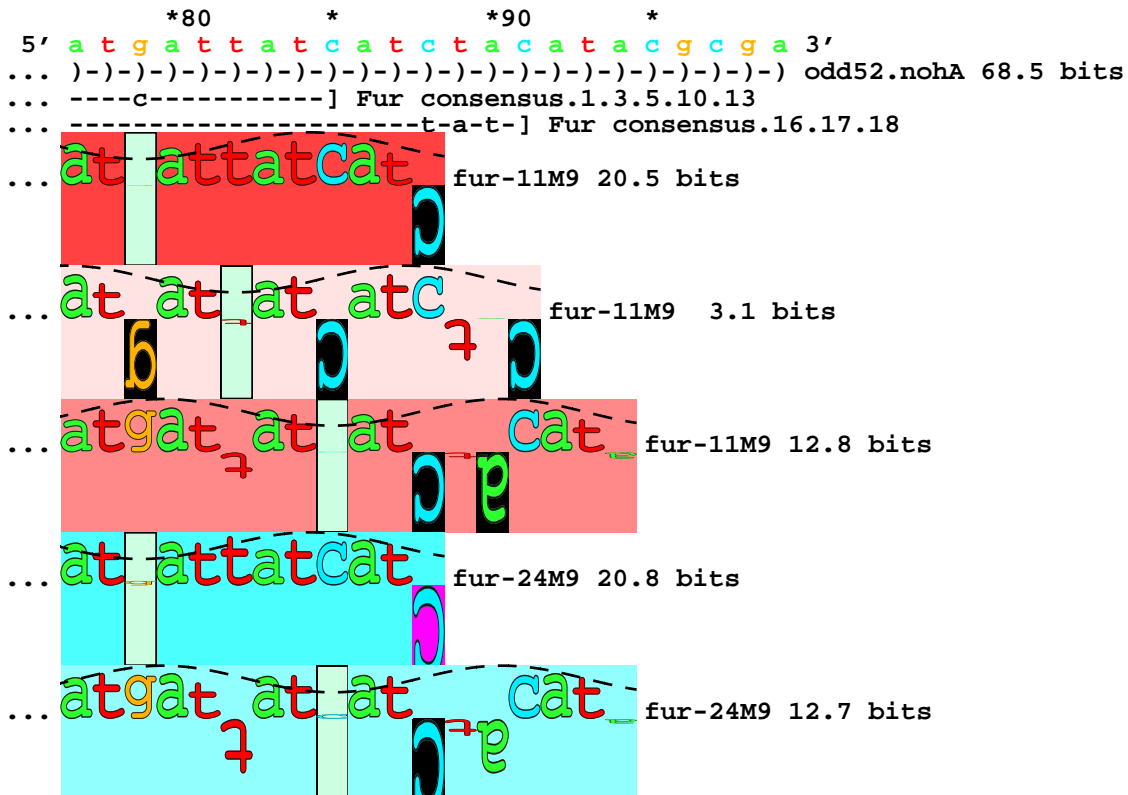
- 16 -  
aatgat at at a at fur-11M9 11.6 bits

at ataa at a fur-11M9 1.5 bits

aatgat at at a at fur-24M9 10.6 bits

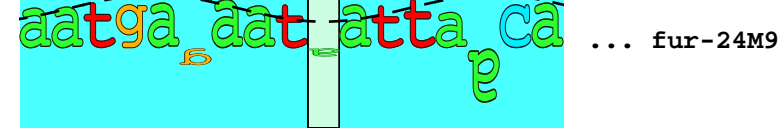
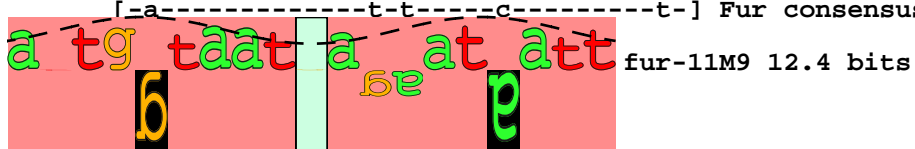




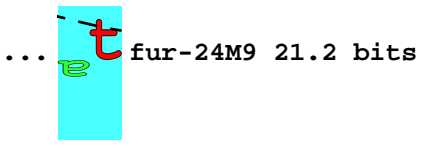
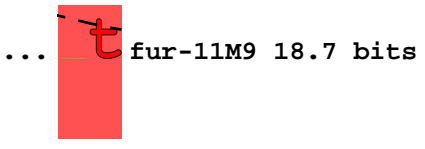
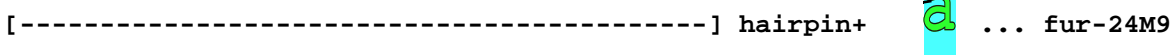


piece 7, oppA, oppA, config: linear, direction: +, begin: 1, end: 111

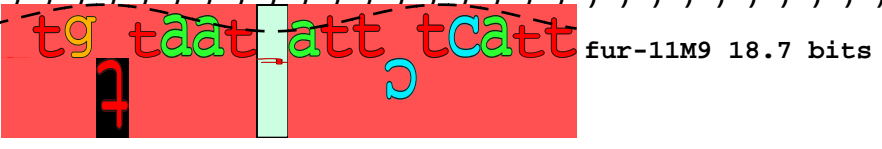
5' g c t a t c g c g t t c t t t a t t g g t a a t g a g a a t a a t t a a c a 3'  
... odd58.oppA



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



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**<sub>g</sub> **t**<sub>â</sub>**a****a****t** **a****t****t** **t**<sub>c</sub>**a****a****t** 20 -  
fur-24M9 21.2 bits

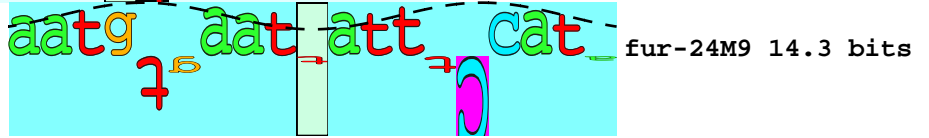
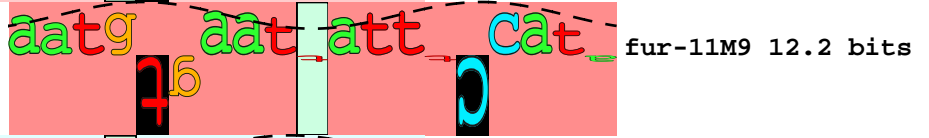
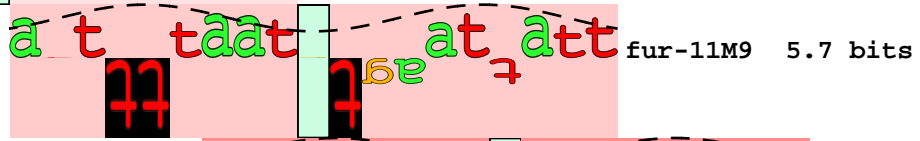
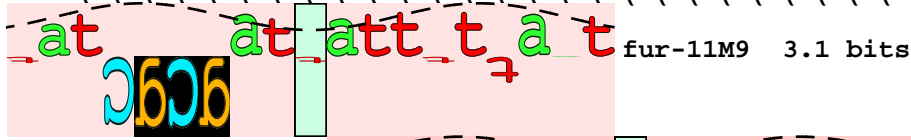
[-a-----a-----t-] Fur consensus.2.7.11.18

**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

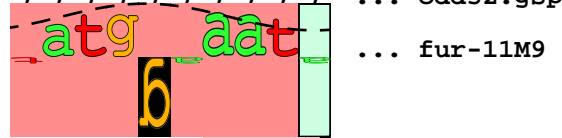
piece 8, gspC, gspC, config: linear, direction: +, begin: 1, end: 99

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

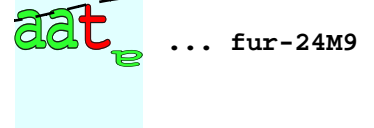
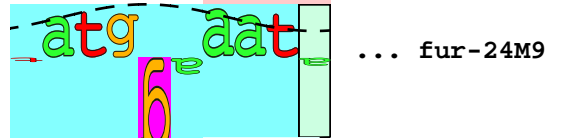
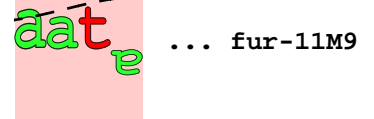


... 5' a a a c g a t c g c g c g a a g c g c g a t c g t t t g t a t g g a a a t a 3' ... odd52.gspC

[-----] hairpin



[-----] hairpin+



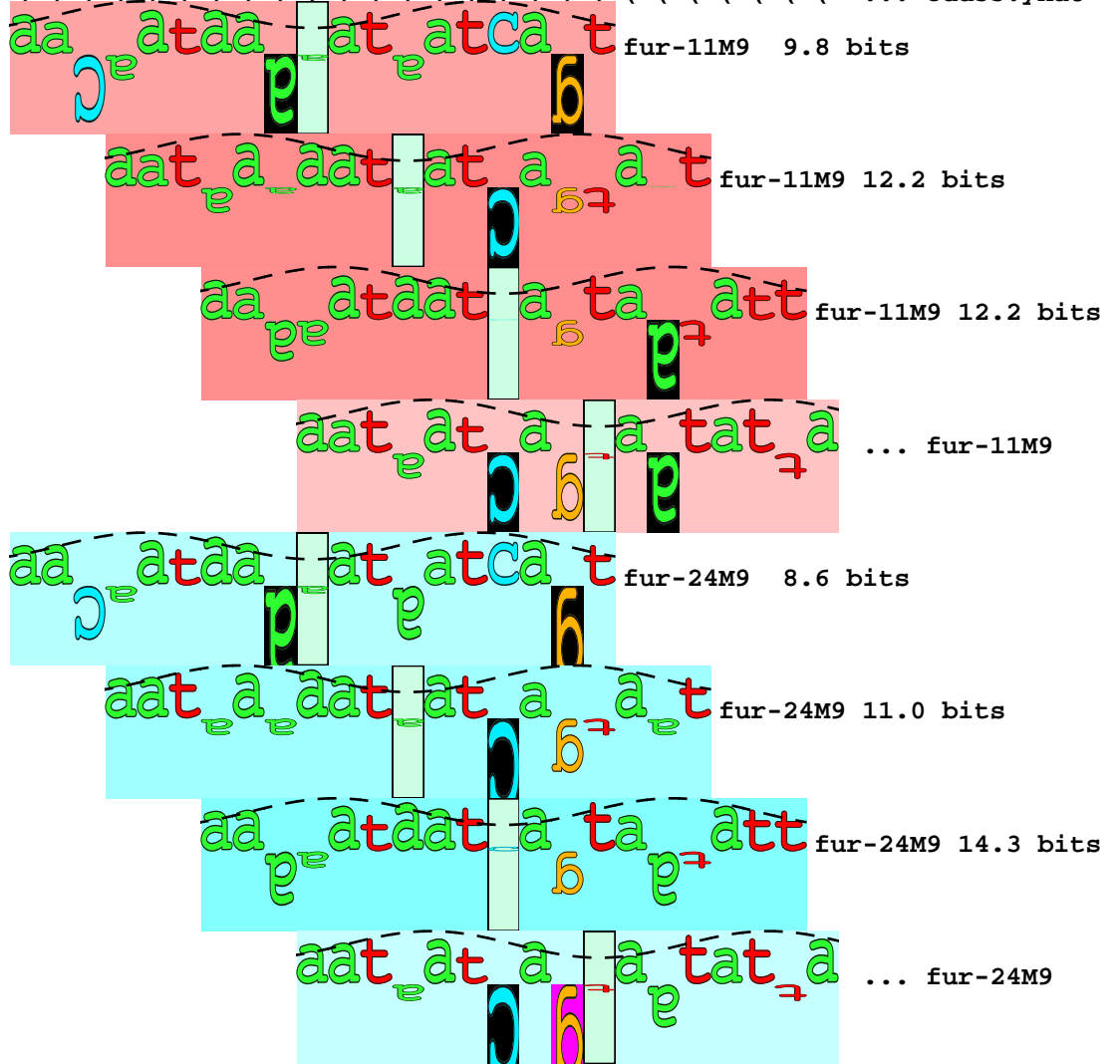
... 5' a t t c a c a t t a a a a a t a a t c g c g a 3' ... odd52.gspC 68.5 bits



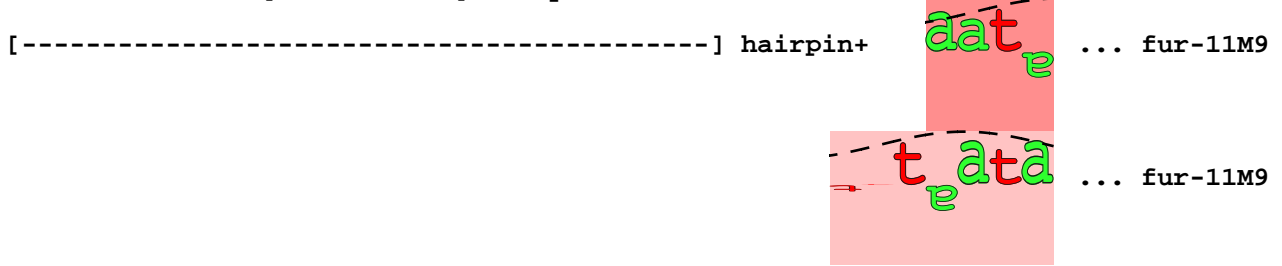


piece 9, yhaU, yhaU, config: linear, direction: +, begin: 1, end: 105

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  
 ... Fur consensus...



... fur-11M9 6.4 bits

... fur-11M9

t atā

... fur-24M9

aat

... fur-24M9

ā

... 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

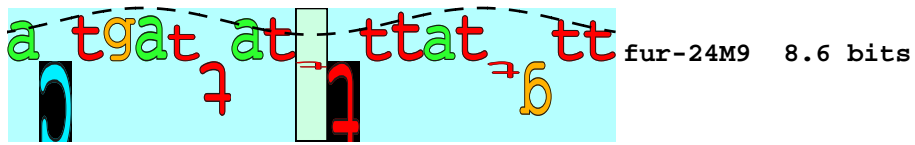
... t t at att t att fur-11M9 12.2 bits

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

... tā t attat tt fur-24M9 14.3 bits

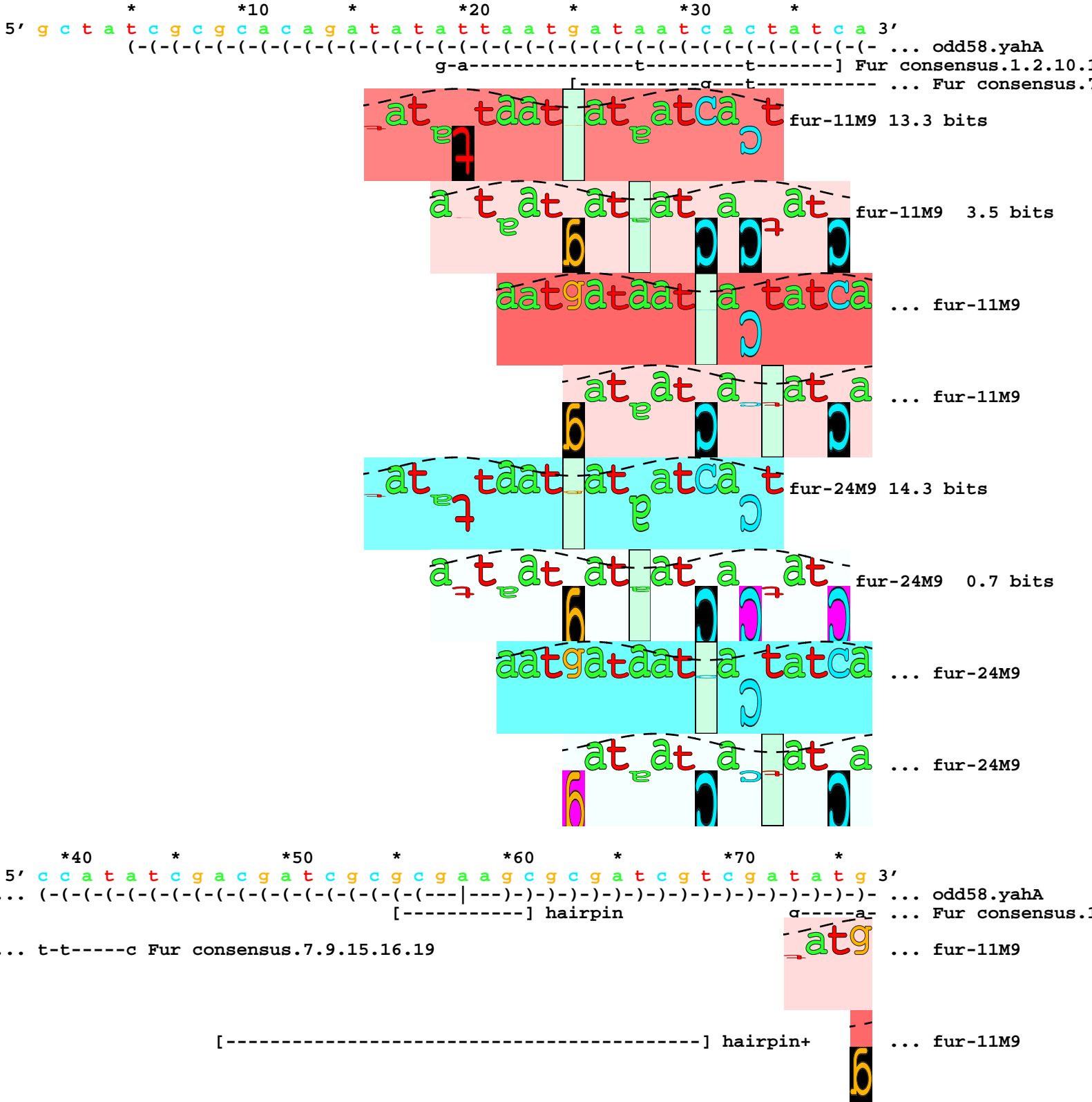
... t t at att t att fur-24M9 11.0 bits

[- - - 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



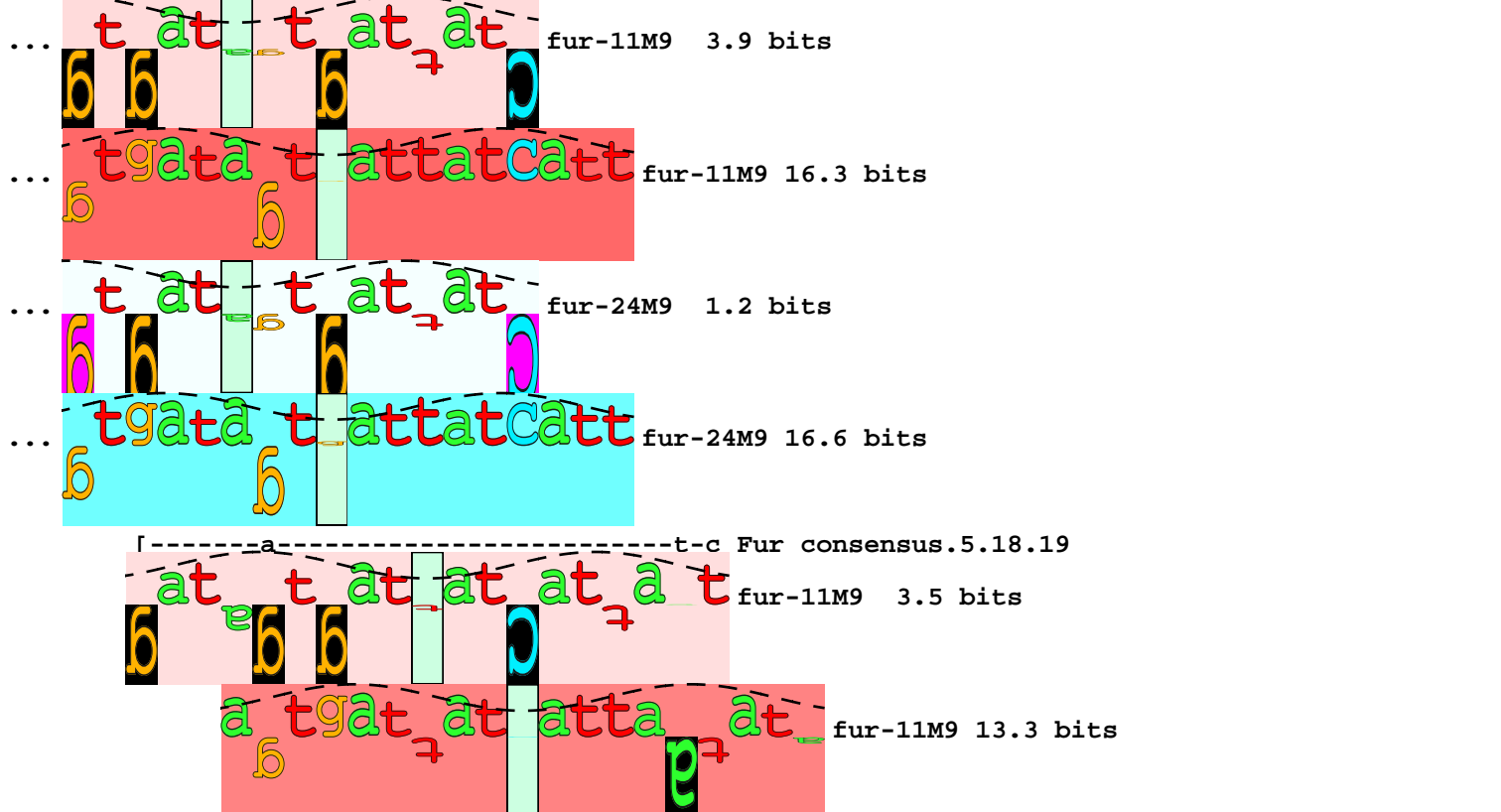


piece 10, yahA, yahA, config: linear, direction: +, begin: 1, end: 111





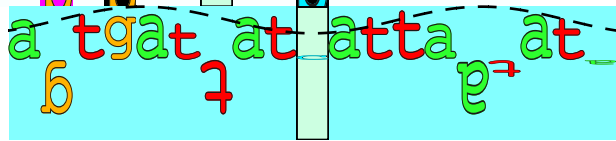
5' g t g a t a g t g a t t a t c a t t a a t a t a t c t g t g c g c g a 3'  
 ... )-) odd58.yahA 77.5 bits  
 ... a-----t-a-c-----| Fur consensus.1.4.5.10.11.13



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



a 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  
 ... 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 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'

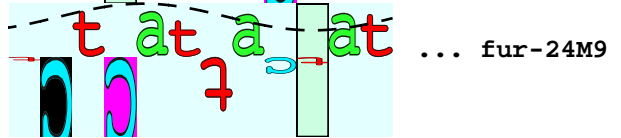
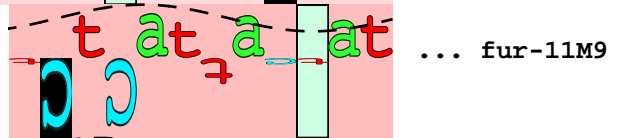
(-----) ... odd56.exbB

[-----] exbB Natural sequence

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

[-----] Published Fur consensus

[-----] Fur consensus.5.7.8.11.1

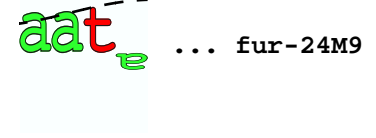
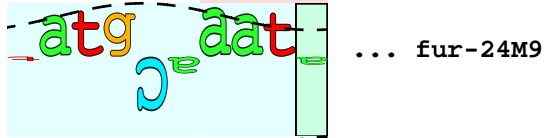
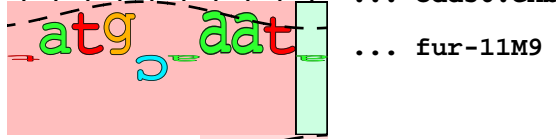


\*40 \* \* \*50 \* \* \*60 \* \* \*70 \*

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

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\_e 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\_e a cā\_e t fur-24M9 15.9 bits

... tāā\_a\_p tatcāt fur-24M9 22.4 bits

a at at at tt fur-11M9 3.5 bits

