

# Functional lability of RNA-dependent RNA polymerases in animals: Supplementary Data

Natalia Pinzón, Stéphanie Bertrand, Lucie Subirana, Isabelle Busseau, Hector Escrivá and Hervé Seitz

## Contents

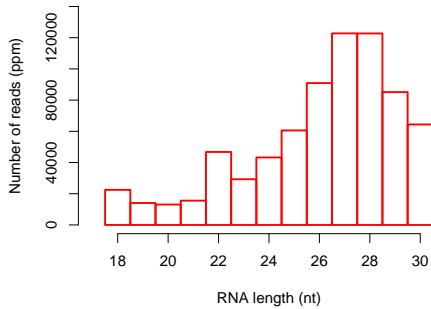
<b>1</b>	<b>Genomic reads not matching abundant ncRNAs</b>	<b>3</b>
1.1	Libraries #1 (total 5' monophosphorylated small RNAs)	3
1.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	9
1.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	15
1.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	21
<b>2</b>	<b>pre-miRNA hairpin-matching reads</b>	<b>27</b>
2.1	Libraries #1 (total 5' monophosphorylated small RNAs)	27
2.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	39
2.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	51
2.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	63
<b>3</b>	<b>Transcriptome-matching reads (excluding pre-miRNA and abundant ncRNA-matching reads)</b>	<b>75</b>
3.1	Libraries #1 (total 5' monophosphorylated small RNAs)	75
3.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	87
3.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	99
3.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	111
<b>4</b>	<b>Reads matching RNAs with long ORF's</b>	<b>123</b>
4.1	Libraries #1 (total 5' monophosphorylated small RNAs)	123
4.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	135
4.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	147
4.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	159
<b>5</b>	<b>Extragenomic and extratranscriptomic reads</b>	<b>171</b>
5.1	Libraries #1 (total 5' monophosphorylated small RNAs)	171
5.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	177
5.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	183
5.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	189
<b>6</b>	<b>Analysis of <i>Cænorhabditis elegans</i> data [Gu et al., 2009] with the same method</b>	<b>195</b>
6.1	Genomic reads not matching abundant ncRNAs	195
6.2	pre-miRNA hairpin-matching reads	198
6.3	Transcriptome-matching reads (excluding pre-miRNA and abundant ncRNA-matching reads)	204
6.4	Reads matching RNAs with long ORF's	210
6.5	Extragenomic and extratranscriptomic reads	216
6.6	Extragenomic reads matching the transcriptome	219
<b>7</b>	<b>Extragenomic and extratranscriptomic reads matching the <i>Staphylococcus aureus</i> genome</b>	<b>225</b>
7.1	Libraries #1 (total 5' monophosphorylated small RNAs)	225
7.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	231
7.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	237
7.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	243

<b>8</b>	<b>Extragenomic and extratranscriptomic reads matching the <i>Vibrio alginolyticus</i> genome</b>	<b>249</b>
8.1	Libraries #1 (total 5' monophosphorylated small RNAs)	249
8.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	255
8.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	261
8.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	267
<b>9</b>	<b>Extragenomic and extratranscriptomic reads matching the <i>Vibrio anguillarum</i> genome</b>	<b>273</b>
9.1	Libraries #1 (total 5' monophosphorylated small RNAs)	273
9.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	279
9.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	285
9.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	291
<b>10</b>	<b>Extragenomic and extratranscriptomic reads matching the ATCV1 genome</b>	<b>297</b>
10.1	Libraries #1 (total 5' monophosphorylated small RNAs)	297
10.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	303
10.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	309
10.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	315
<b>11</b>	<b>Extragenomic and extratranscriptomic reads matching extragenomic contig #18690</b>	<b>321</b>
11.1	Libraries #1 (total 5' monophosphorylated small RNAs)	321
11.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	327
11.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	333
11.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	339
<b>12</b>	<b>Extragenomic and extratranscriptomic reads matching extragenomic contig #7601</b>	<b>345</b>
12.1	Libraries #1 (total 5' monophosphorylated small RNAs)	345
12.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	351
12.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	357
12.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	363
<b>13</b>	<b>Extragenomic and extratranscriptomic reads matching extragenomic contig #38312</b>	<b>369</b>
13.1	Libraries #1 (total 5' monophosphorylated small RNAs)	369
13.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	375
13.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	381
13.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	387
<b>14</b>	<b>Extragenomic and extratranscriptomic reads matching extragenomic contig #3365</b>	<b>393</b>
14.1	Libraries #1 (total 5' monophosphorylated small RNAs)	393
14.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	399
14.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	405
14.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	411
<b>15</b>	<b>Extragenomic and extratranscriptomic reads matching extragenomic contig #10883</b>	<b>417</b>
15.1	Libraries #1 (total 5' monophosphorylated small RNAs)	417
15.2	Libraries #2 (3' modified, 5' monophosphorylated small RNAs)	423
15.3	Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)	429
15.4	Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)	435

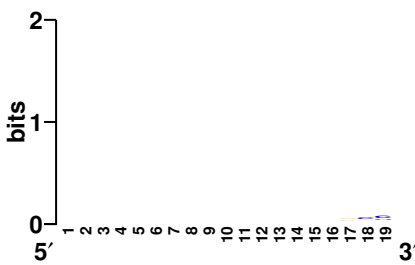
# 1 Genomic reads not matching abundant ncRNAs

## 1.1 Libraries #1 (total 5' monophosphorylated small RNAs)

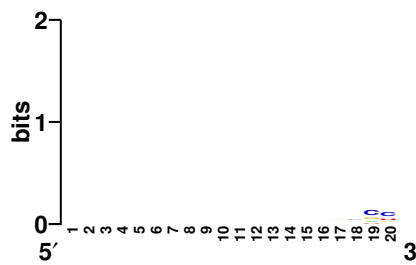
Embryo 8h, library 1:



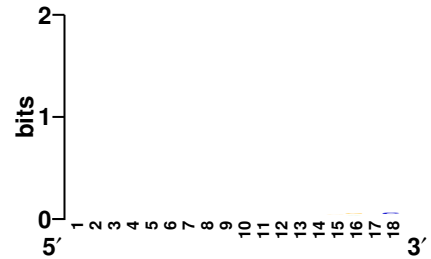
19-mers:



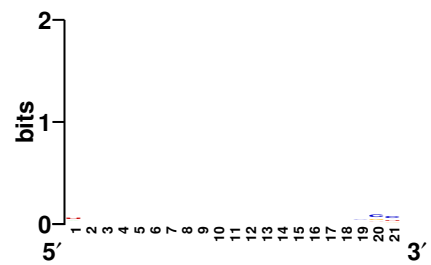
20-mers:



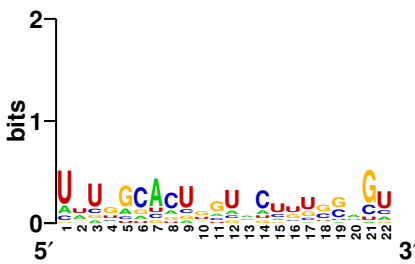
18-mers:



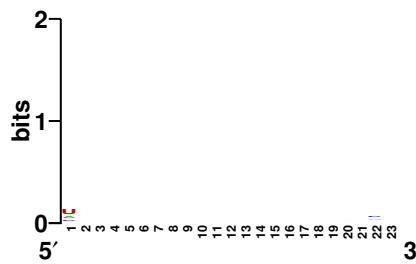
21-mers:



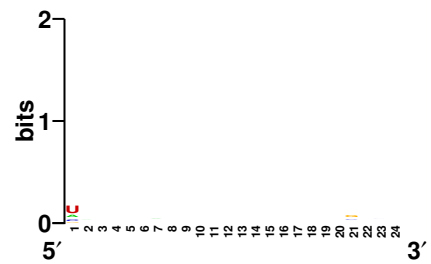
22-mers:



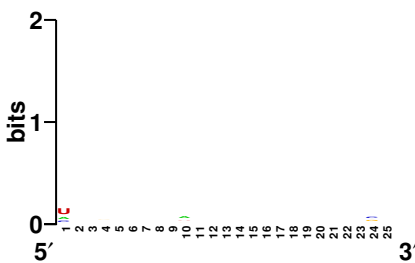
23-mers:



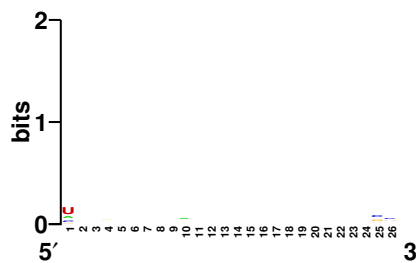
24-mers:



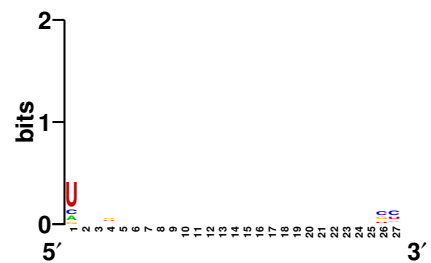
25-mers:



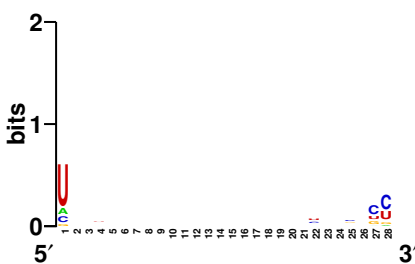
26-mers:



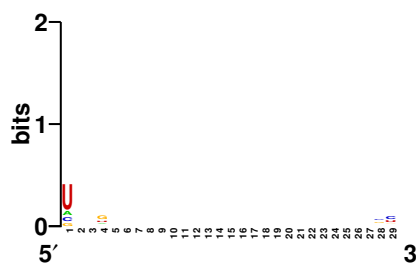
27-mers:



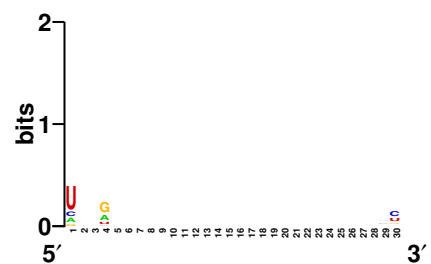
28-mers:



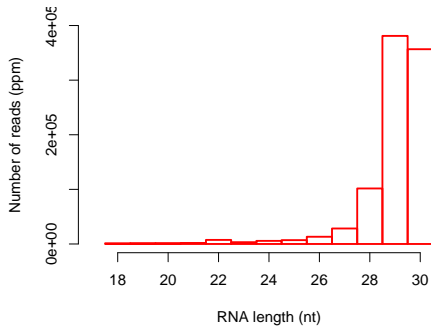
29-mers:



30-mers:



Embryo 15h, library 1:



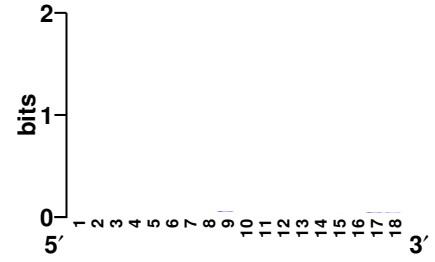
19-mers:



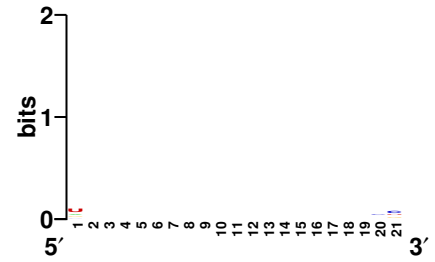
20-mers:



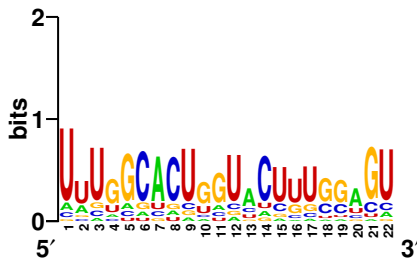
18-mers:



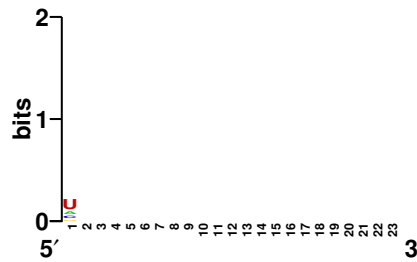
21-mers:



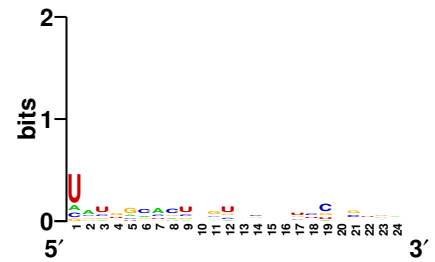
22-mers:



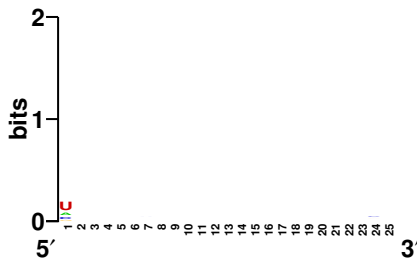
23-mers:



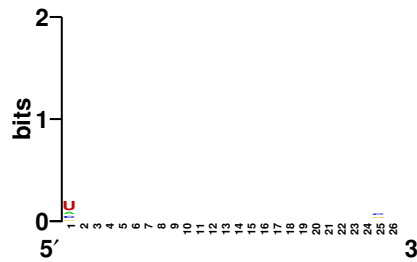
24-mers:



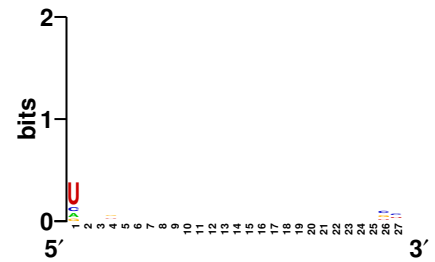
25-mers:



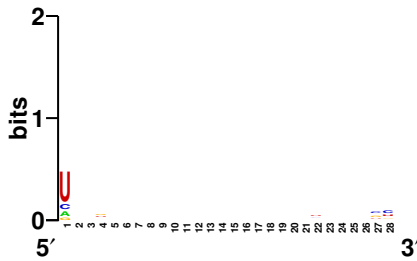
26-mers:



27-mers:



28-mers:



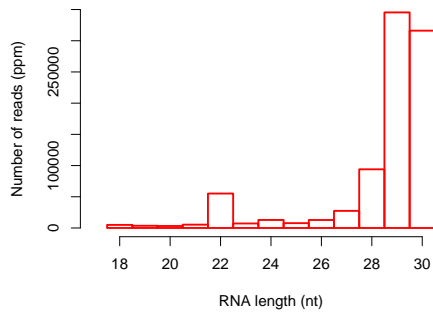
29-mers:



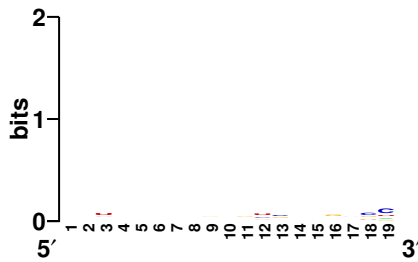
30-mers:



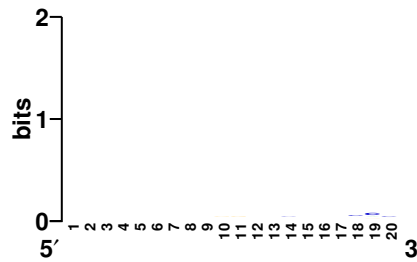
Embryo 36h, library 1:



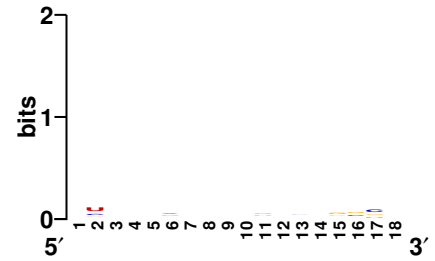
19-mers:



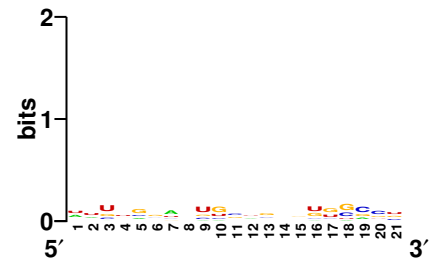
20-mers:



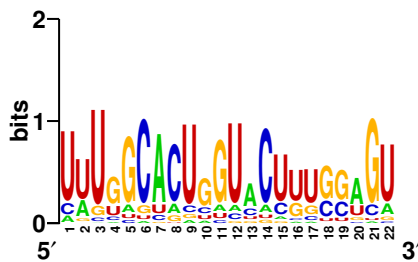
18-mers:



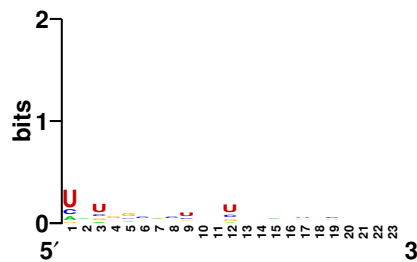
21-mers:



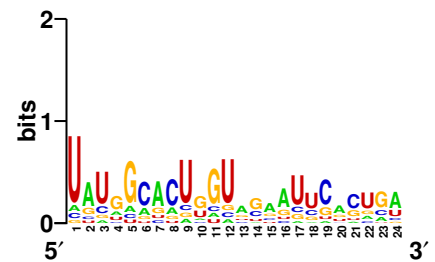
22-mers:



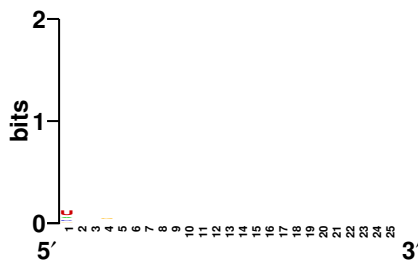
23-mers:



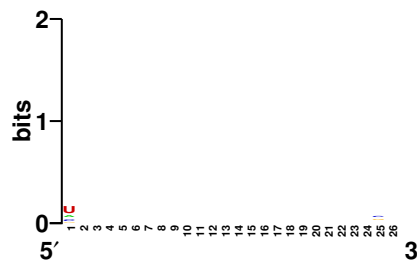
24-mers:



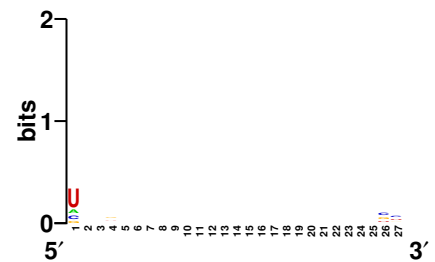
25-mers:



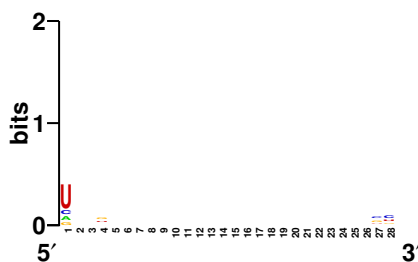
26-mers:



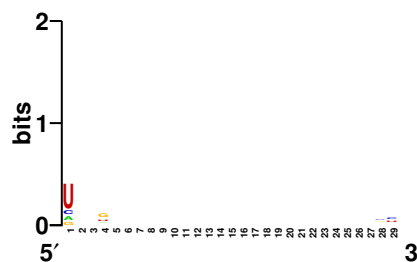
27-mers:



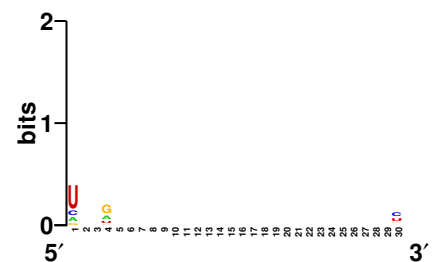
28-mers:



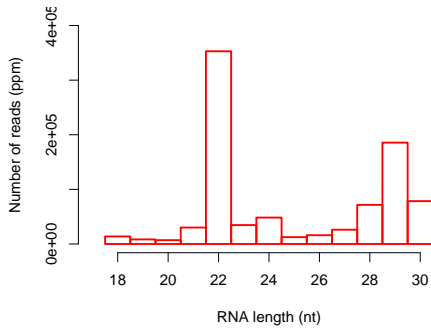
29-mers:



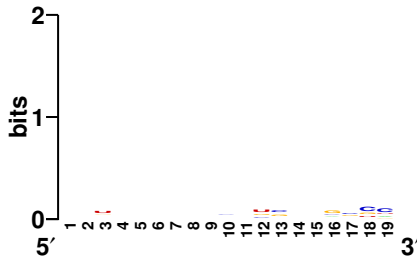
30-mers:



Embryo 60h, library 1:



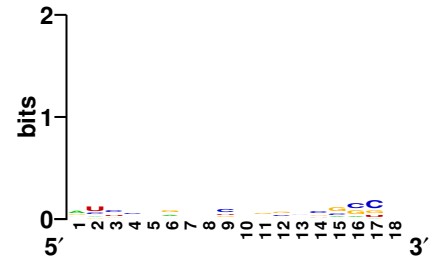
19-mers:



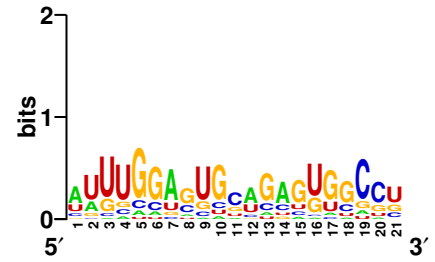
20-mers:



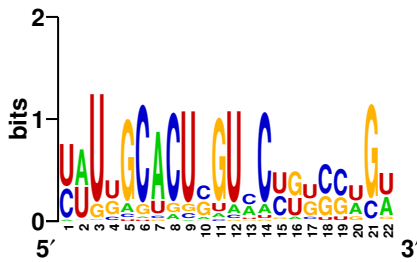
18-mers:



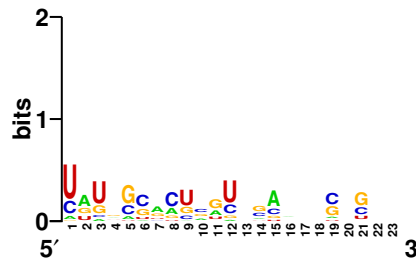
21-mers:



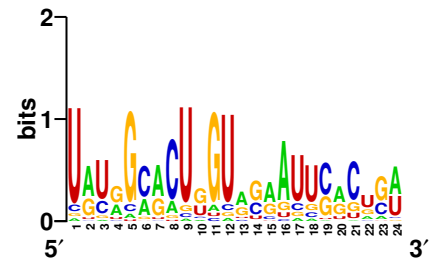
22-mers:



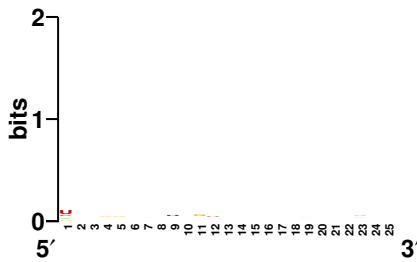
23-mers:



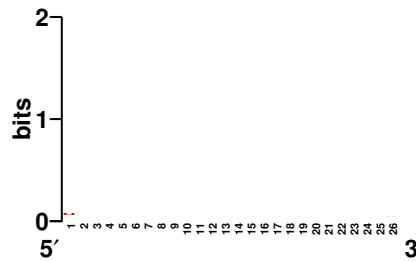
24-mers:



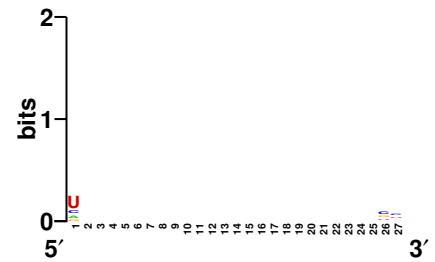
25-mers:



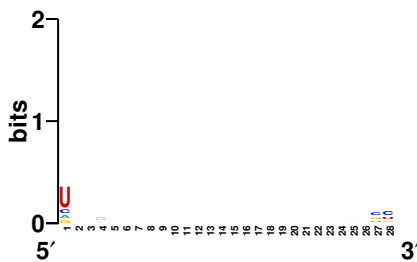
26-mers:



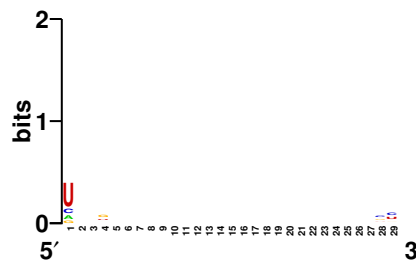
27-mers:



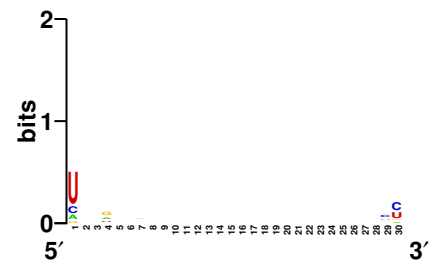
28-mers:



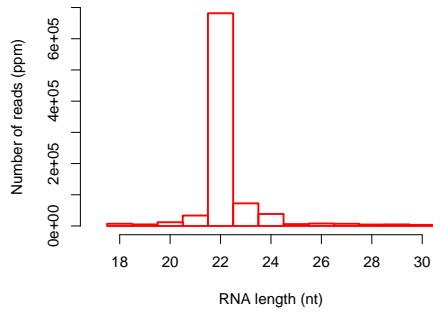
29-mers:



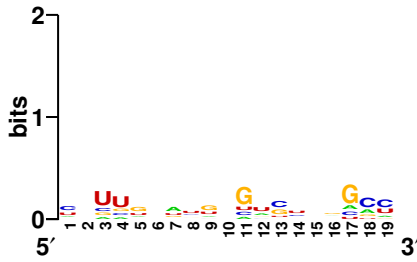
30-mers:



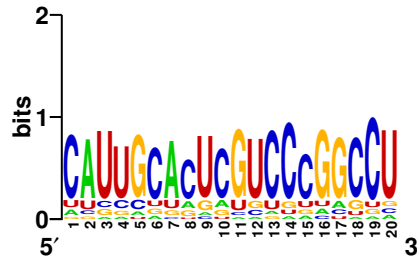
Adult female, library 1:



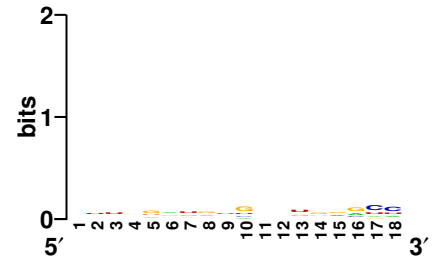
19-mers:



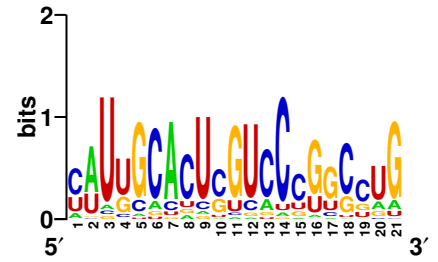
20-mers:



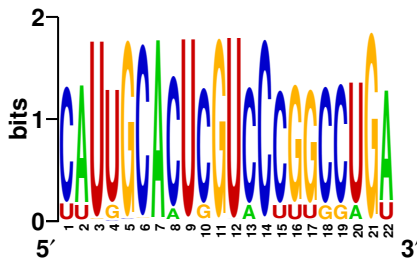
18-mers:



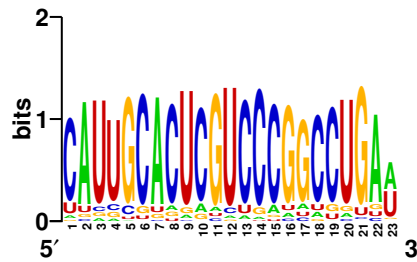
21-mers:



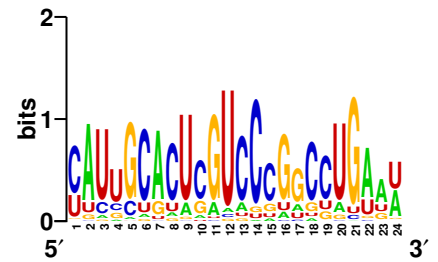
22-mers:



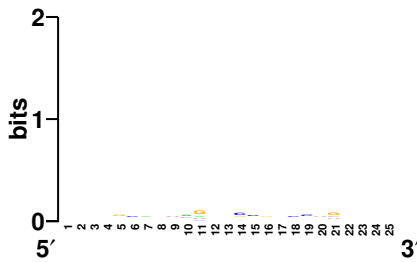
23-mers:



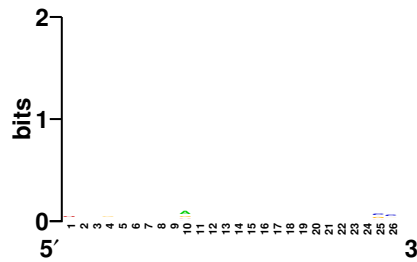
24-mers:



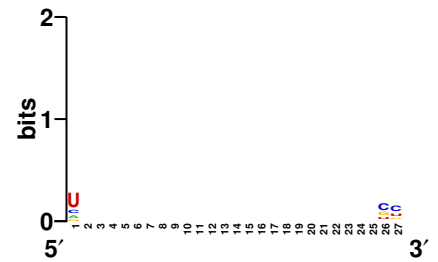
25-mers:



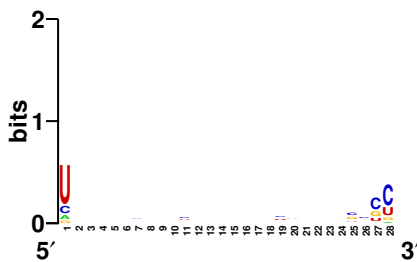
26-mers:



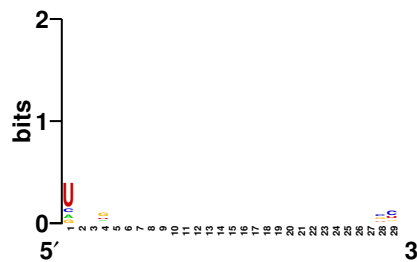
27-mers:



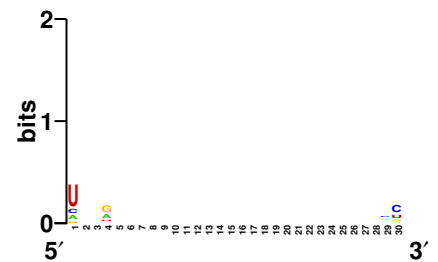
28-mers:



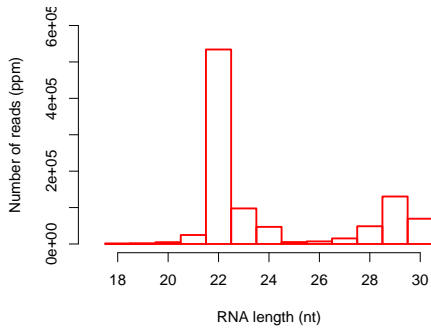
29-mers:



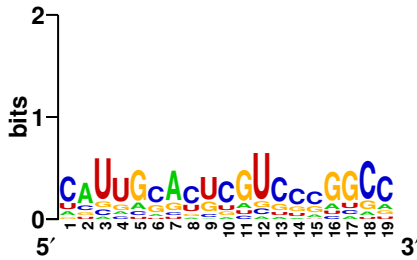
30-mers:



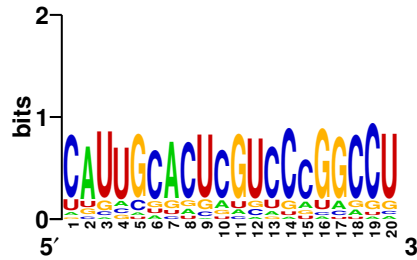
Adult male, library 1:



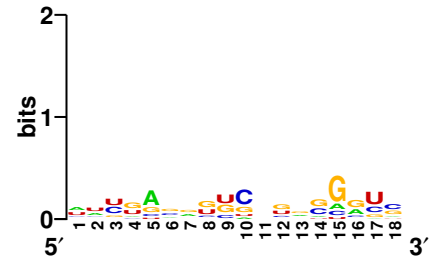
19-mers:



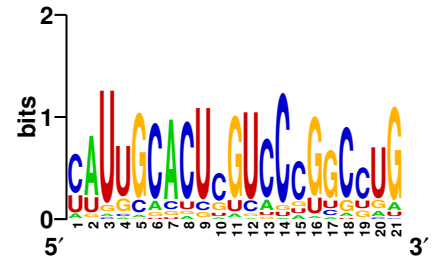
20-mers:



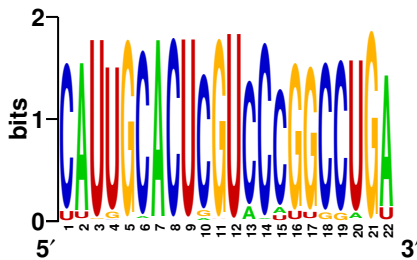
18-mers:



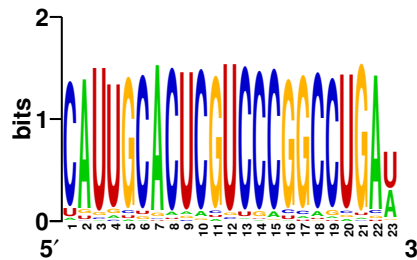
21-mers:



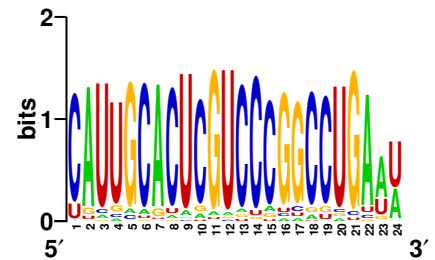
22-mers:



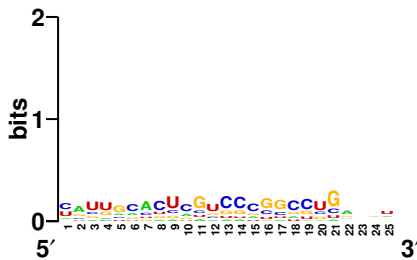
23-mers:



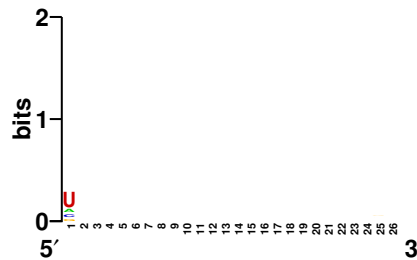
24-mers:



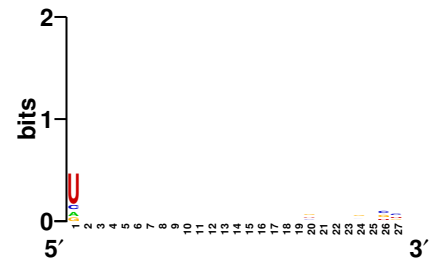
25-mers:



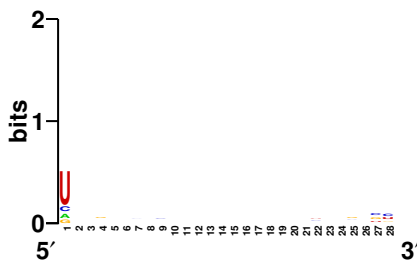
26-mers:



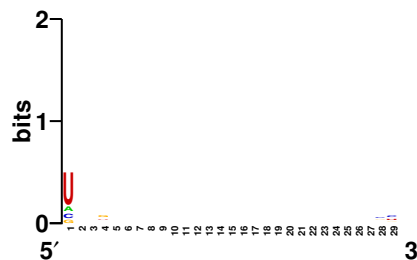
27-mers:



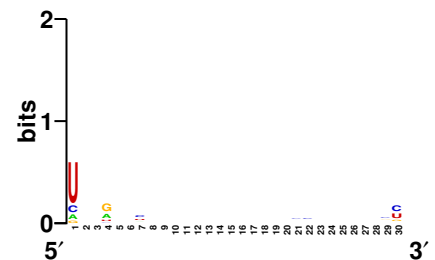
28-mers:



29-mers:



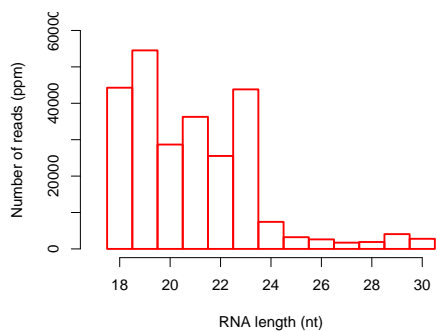
30-mers:



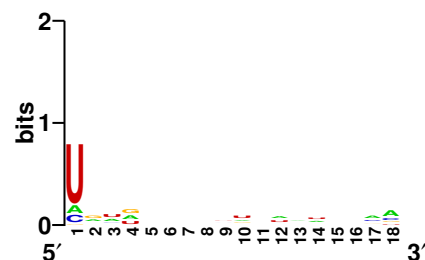


## 1.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

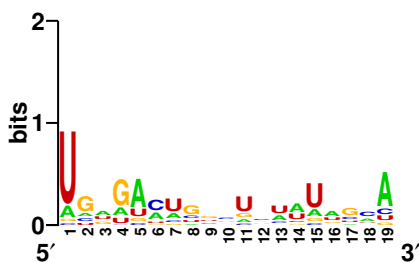
Embryo 8h, library 2:



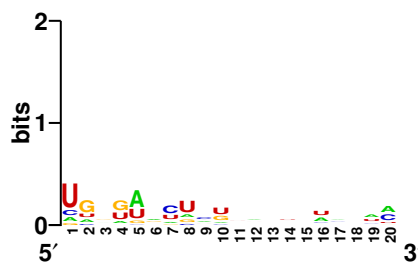
18-mers:



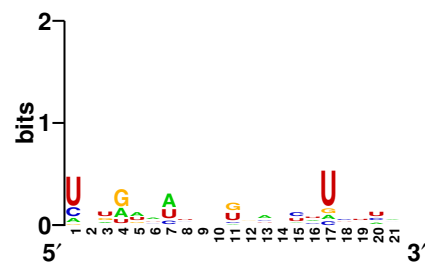
19-mers:



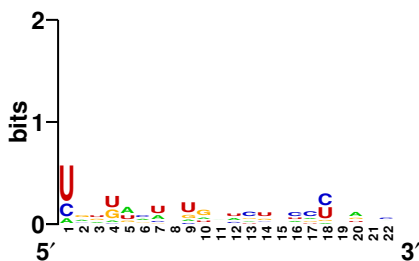
20-mers:



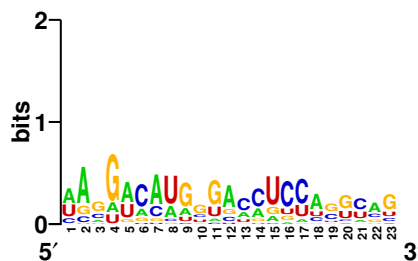
21-mers:



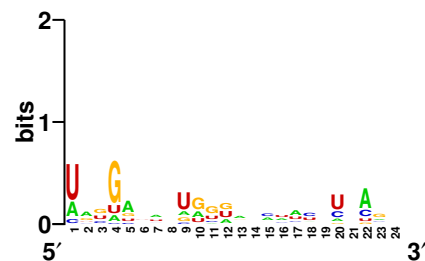
22-mers:



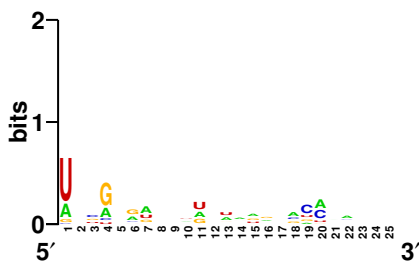
23-mers:



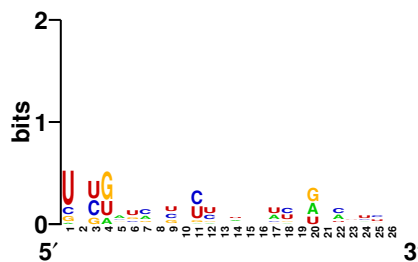
24-mers:



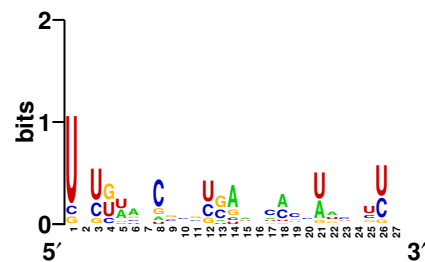
25-mers:



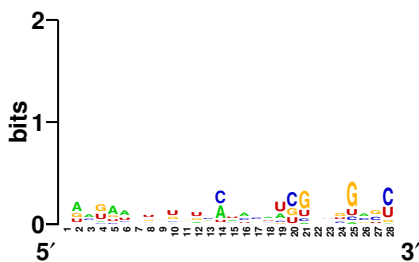
26-mers:



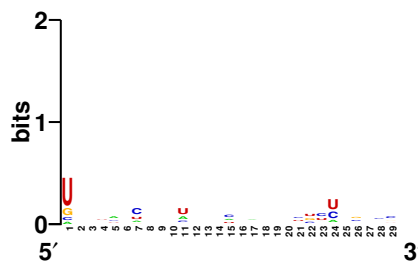
27-mers:



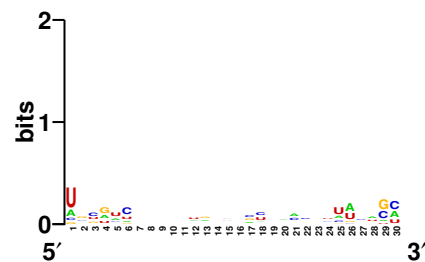
28-mers:



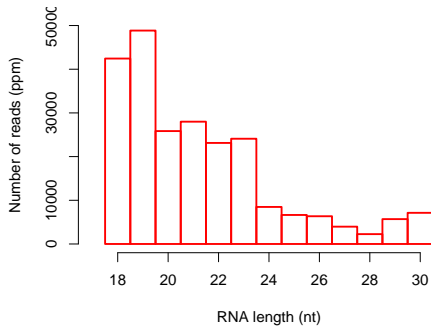
29-mers:



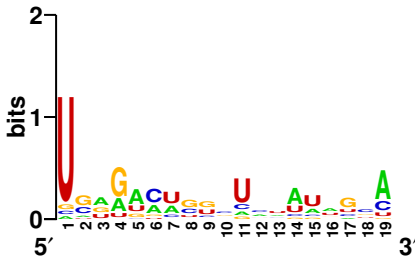
30-mers:



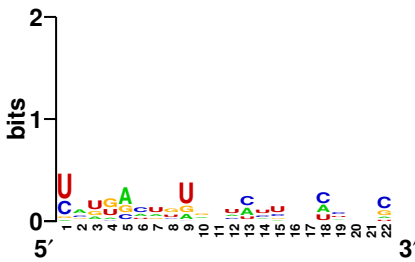
Embryo 15h, library 2:



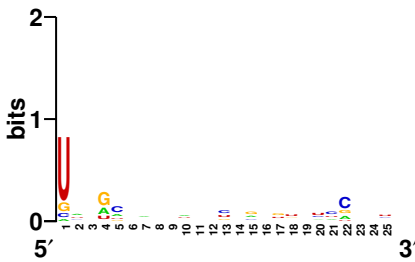
19-mers:



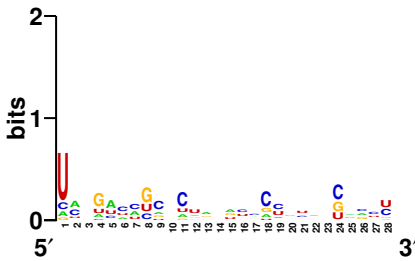
22-mers:



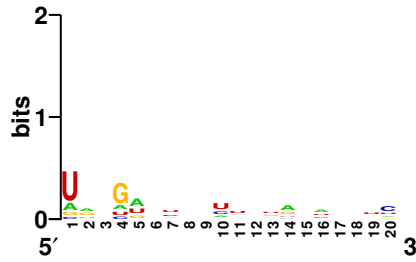
25-mers:



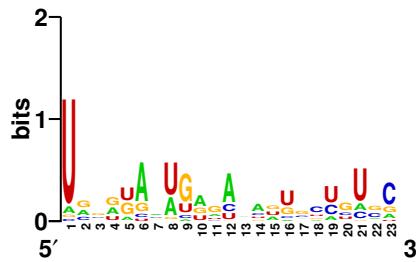
28-mers:



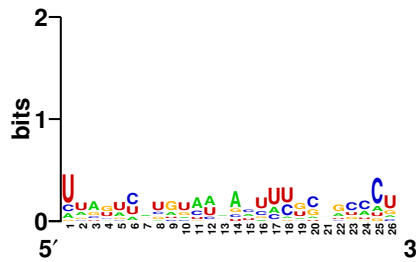
20-mers:



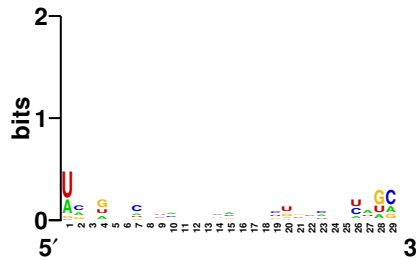
23-mers:



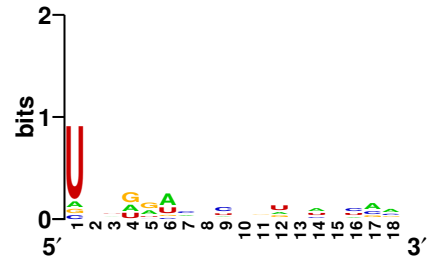
26-mers:



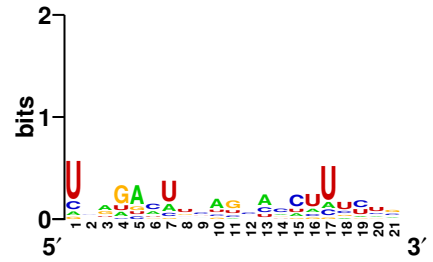
29-mers:



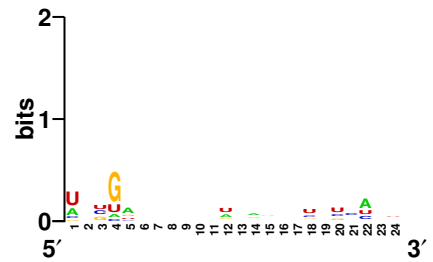
18-mers:



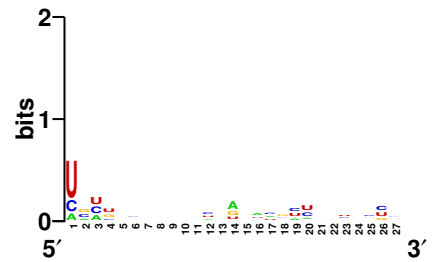
21-mers:



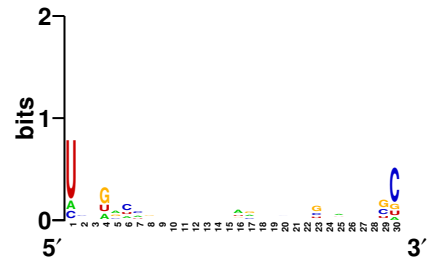
24-mers:



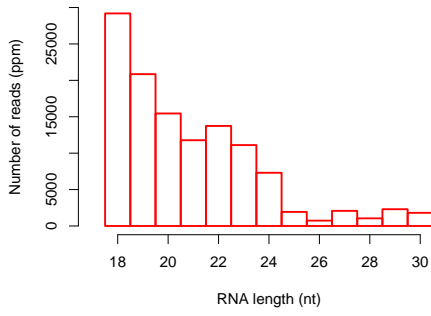
27-mers:



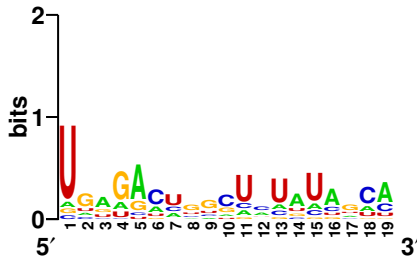
30-mers:



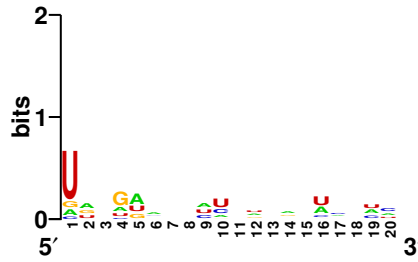
Embryo 36h, library 2:



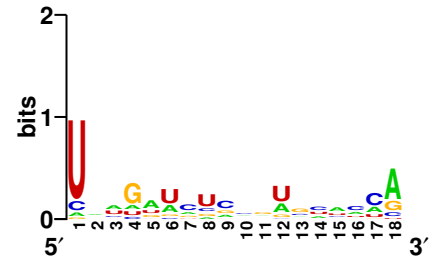
19-mers:



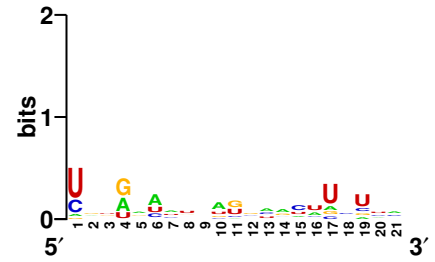
20-mers:



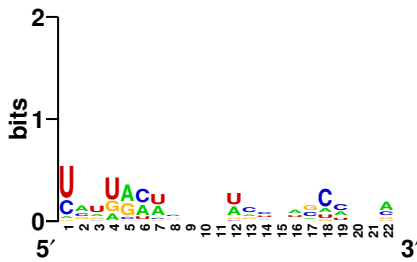
18-mers:



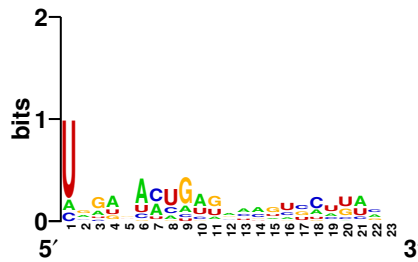
21-mers:



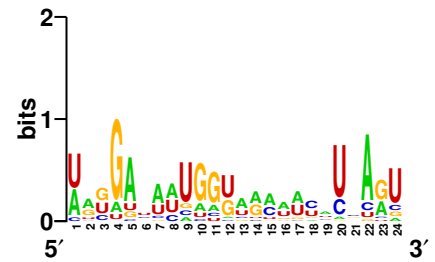
22-mers:



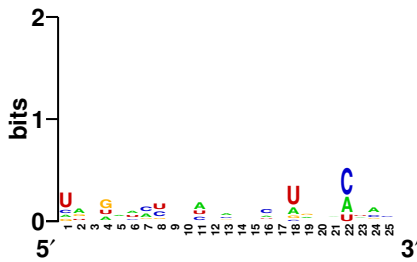
23-mers:



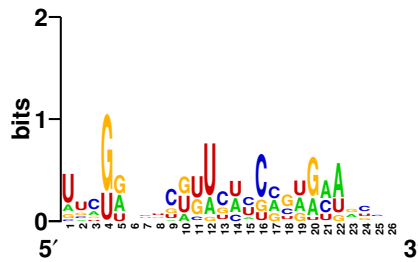
24-mers:



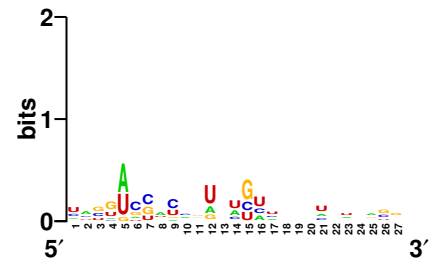
25-mers:



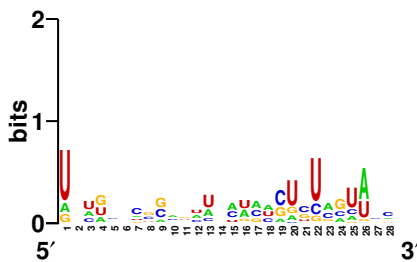
26-mers:



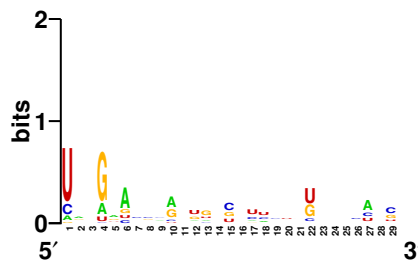
27-mers:



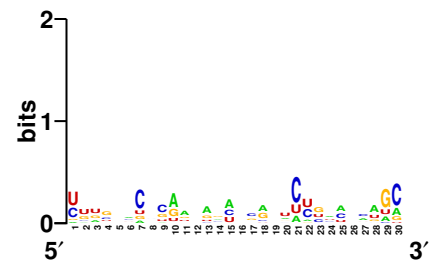
28-mers:



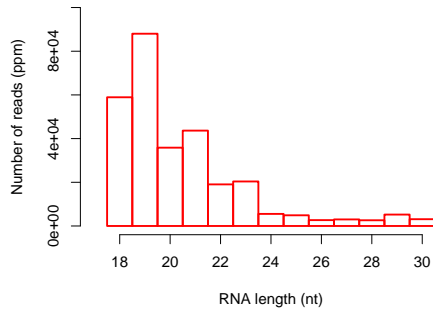
29-mers:



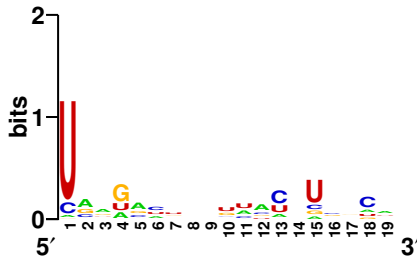
30-mers:



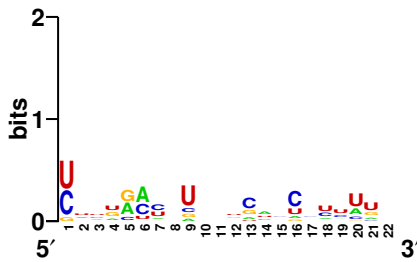
Embryo 60h, library 2:



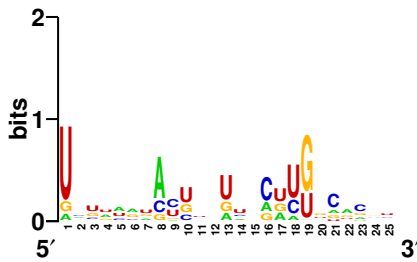
19-mers:



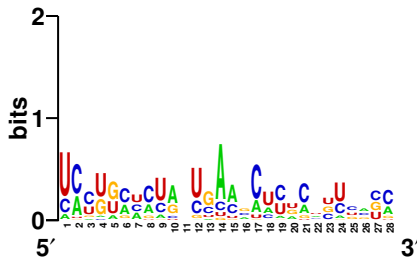
22-mers:



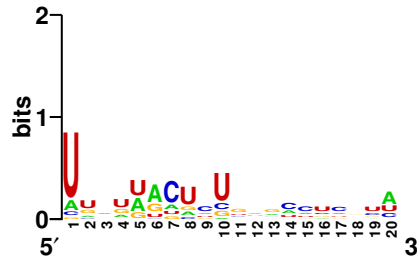
25-mers:



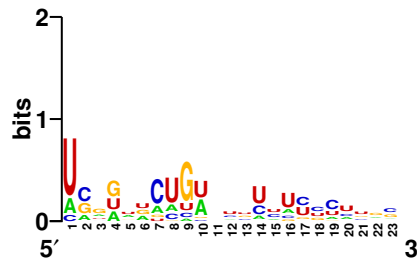
28-mers:



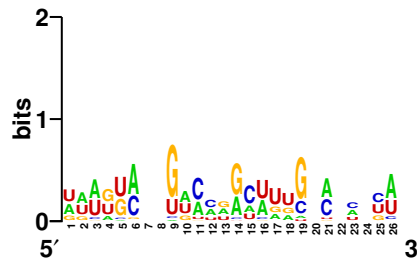
20-mers:



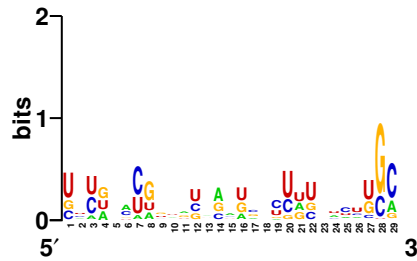
23-mers:



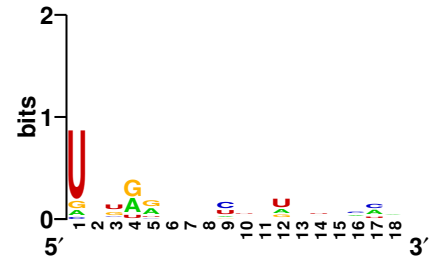
26-mers:



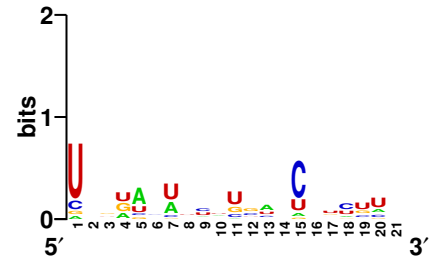
29-mers:



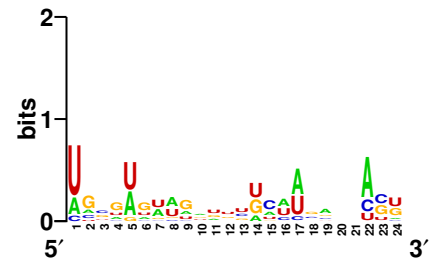
18-mers:



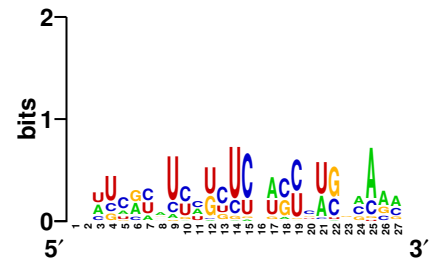
21-mers:



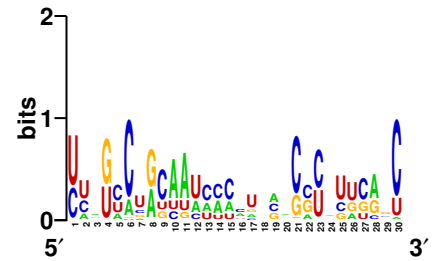
24-mers:



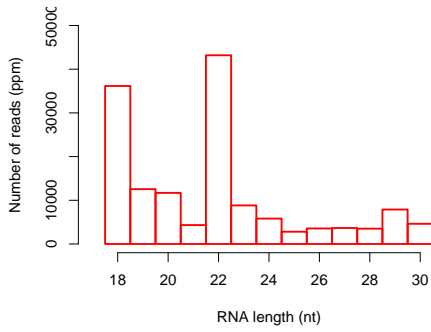
27-mers:



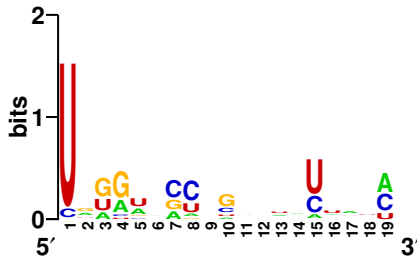
30-mers:



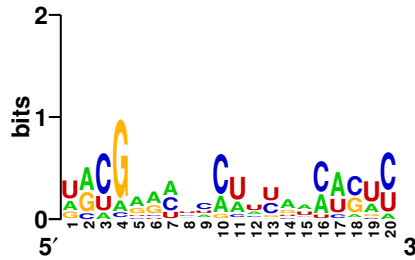
Adult female, library 2:



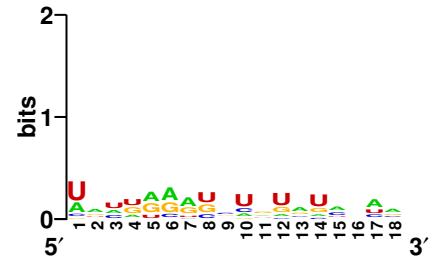
19-mers:



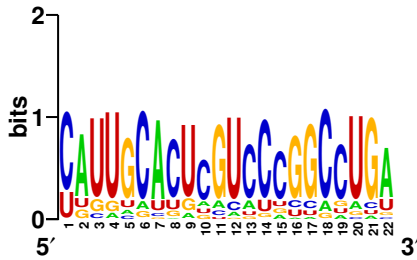
20-mers:



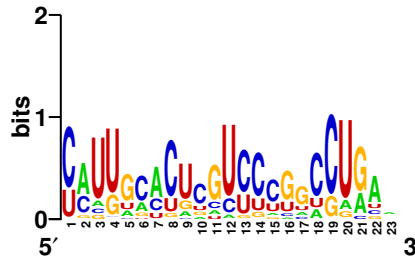
18-mers:



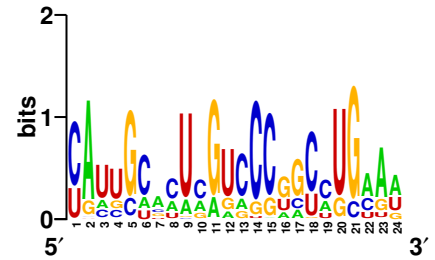
22-mers:



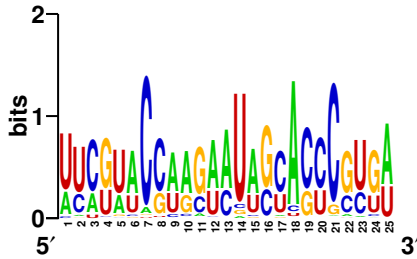
23-mers:



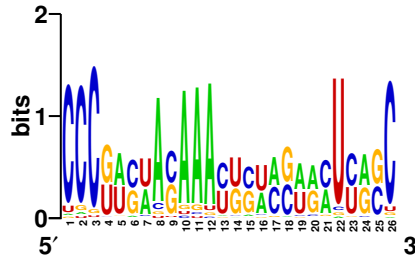
24-mers:



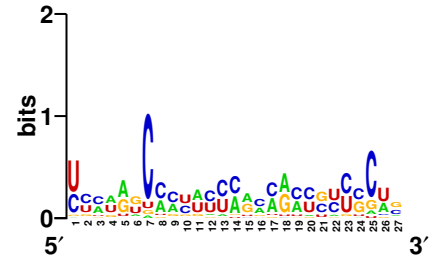
25-mers:



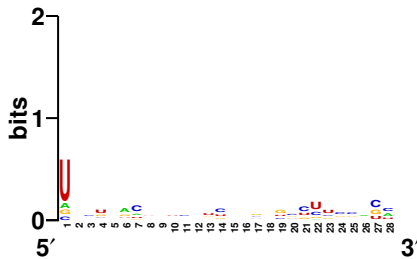
26-mers:



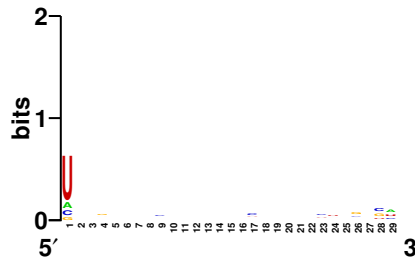
27-mers:



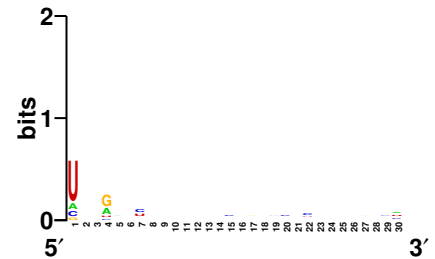
28-mers:



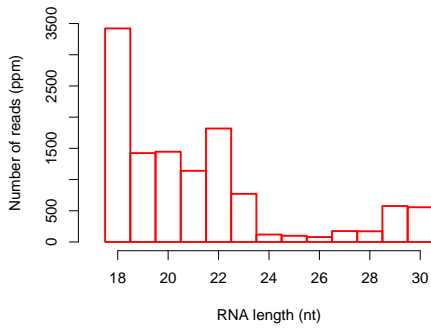
29-mers:



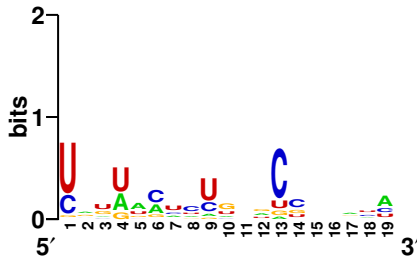
30-mers:



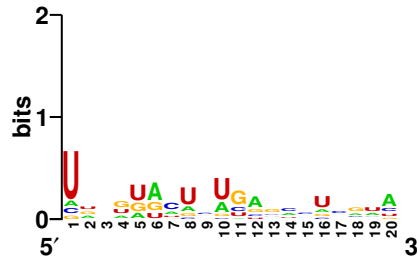
Adult male, library 2:



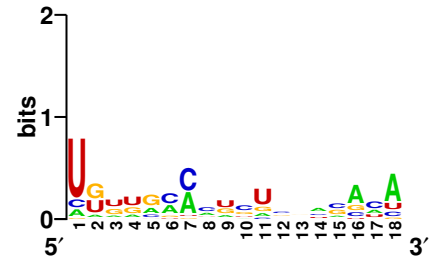
19-mers:



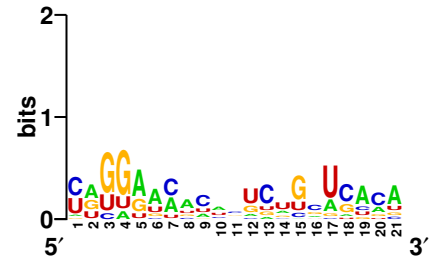
20-mers:



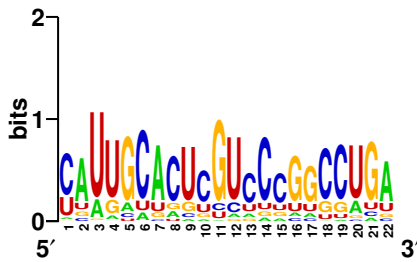
18-mers:



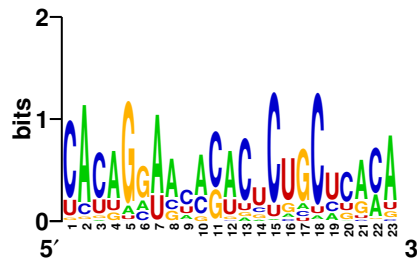
21-mers:



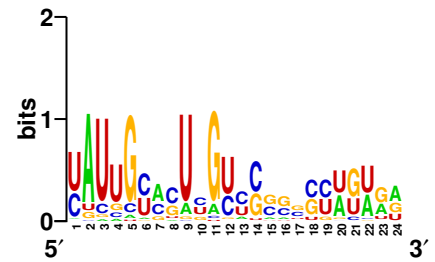
22-mers:



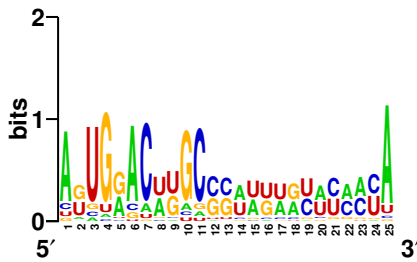
23-mers:



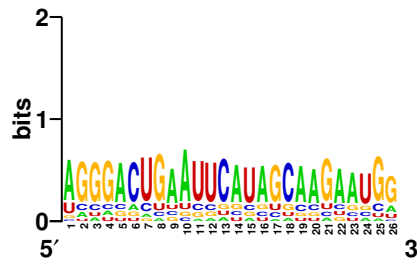
24-mers:



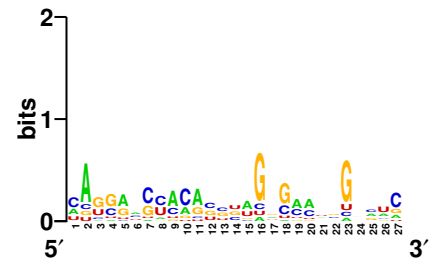
25-mers:



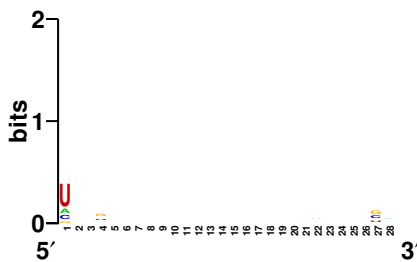
26-mers:



27-mers:



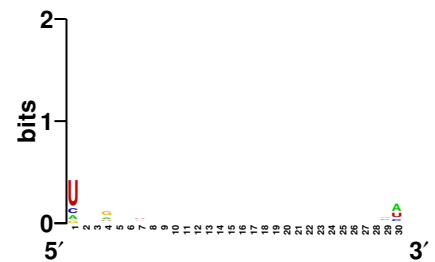
28-mers:



29-mers:



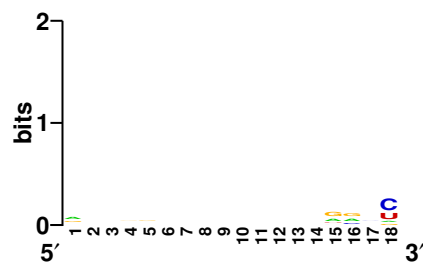
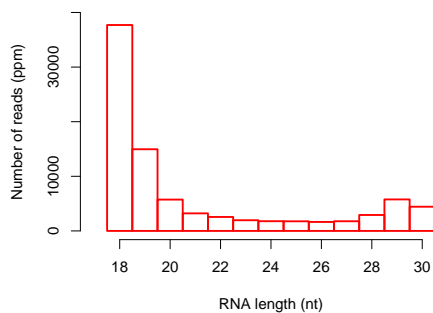
30-mers:



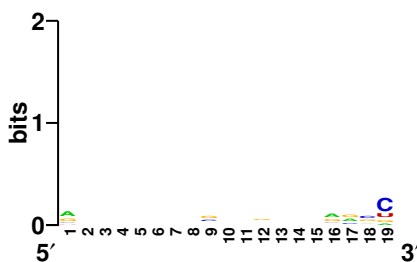
### 1.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 3:

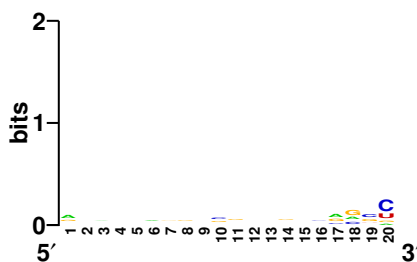
18-mers:



19-mers:



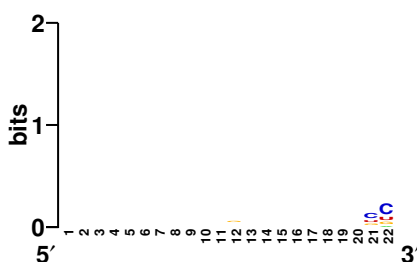
20-mers:



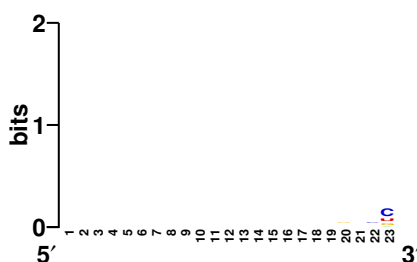
21-mers:



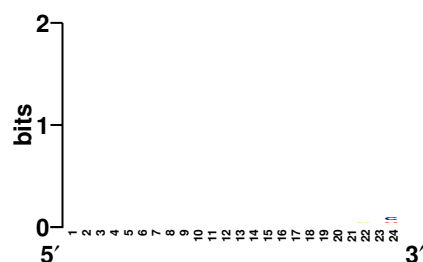
22-mers:



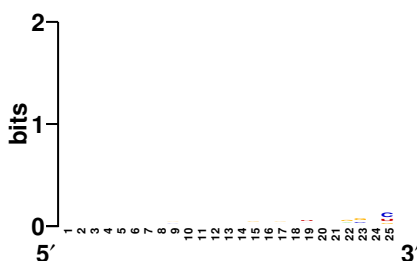
23-mers:



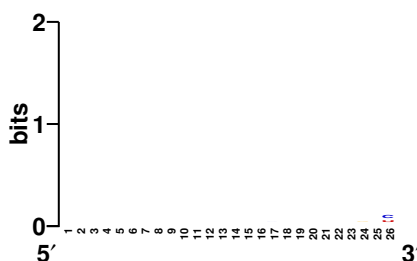
24-mers:



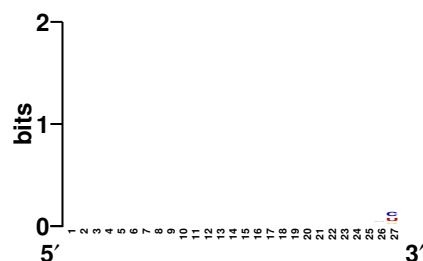
25-mers:



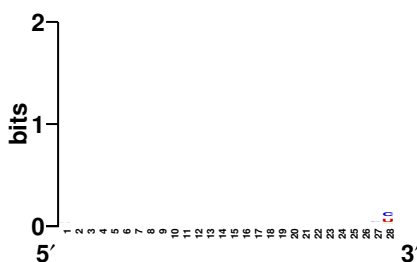
26-mers:



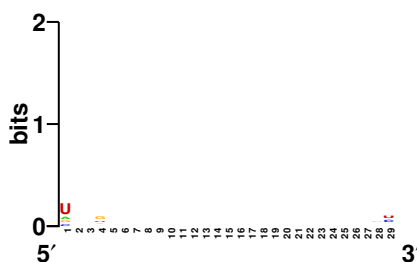
27-mers:



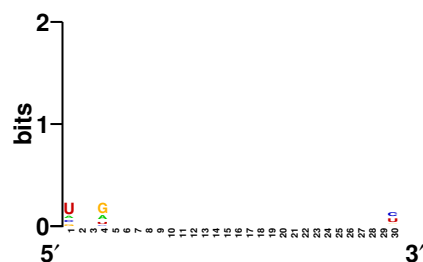
28-mers:



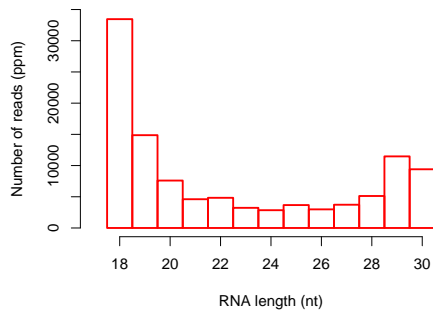
29-mers:



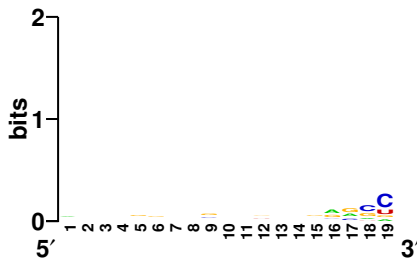
30-mers:



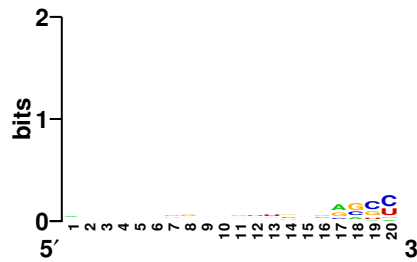
Embryo 15h, library 3:



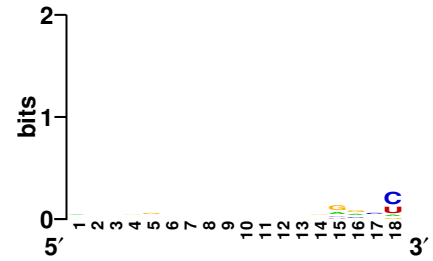
19-mers:



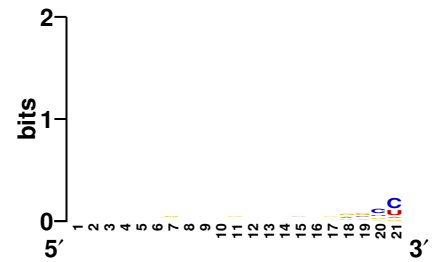
20-mers:



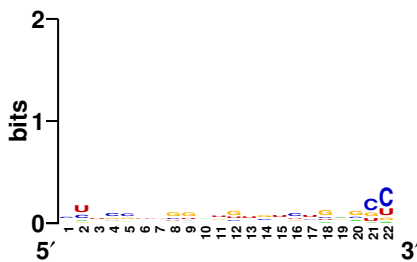
18-mers:



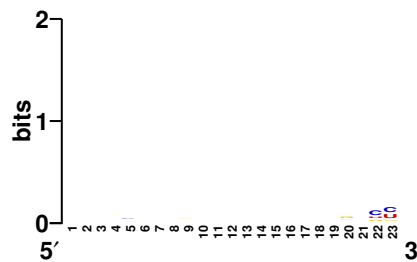
21-mers:



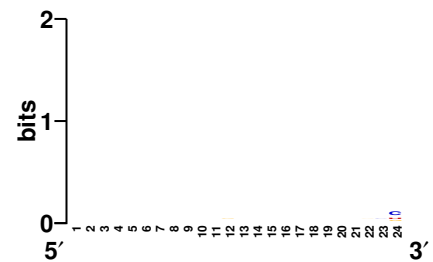
22-mers:



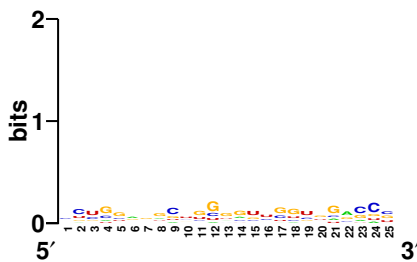
23-mers:



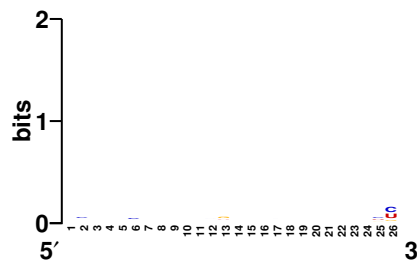
24-mers:



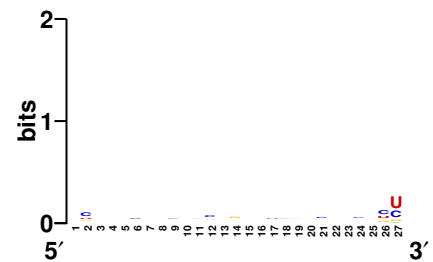
25-mers:



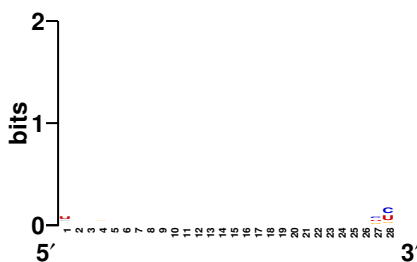
26-mers:



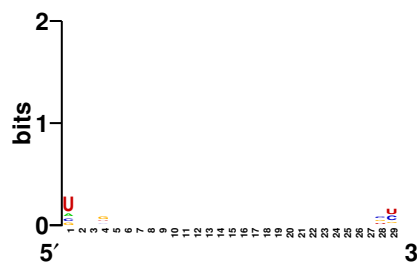
27-mers:



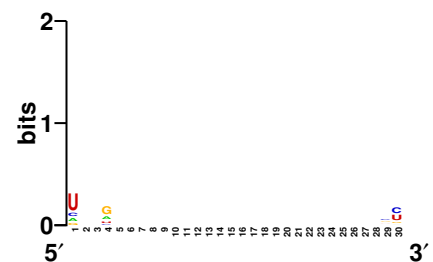
28-mers:



29-mers:

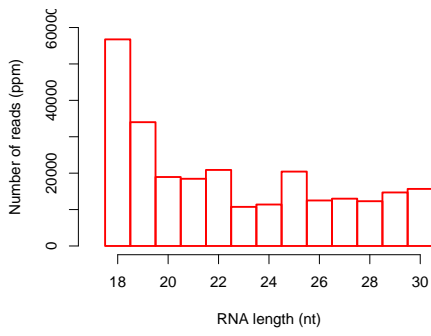


30-mers:

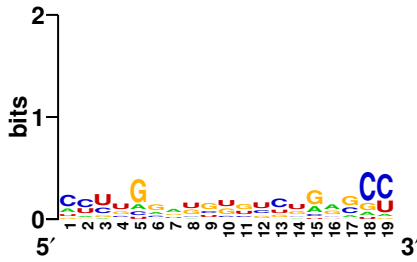




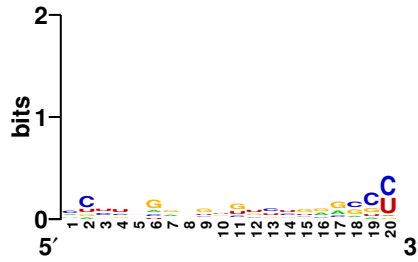
Embryo 36h, library 3:



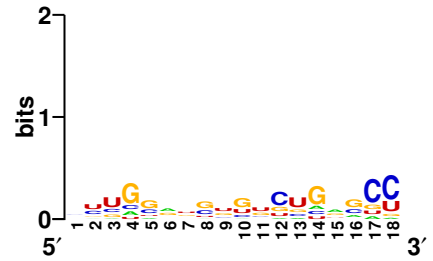
19-mers:



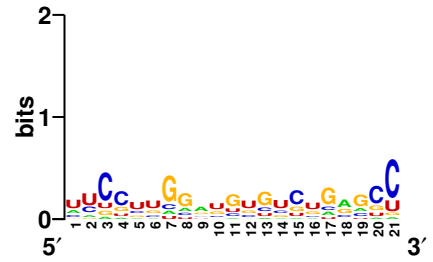
20-mers:



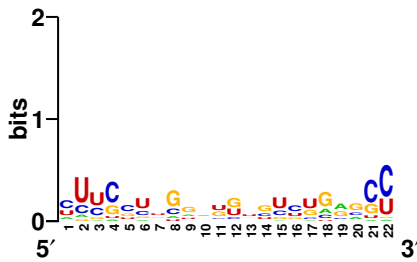
18-mers:



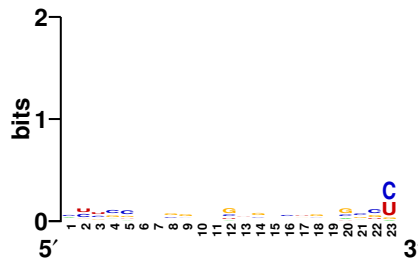
21-mers:



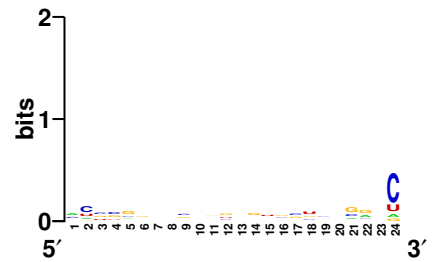
22-mers:



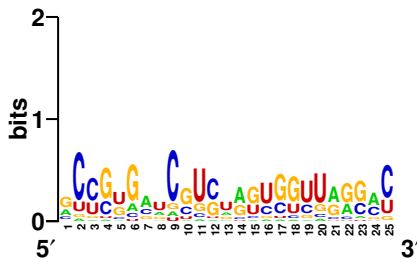
23-mers:



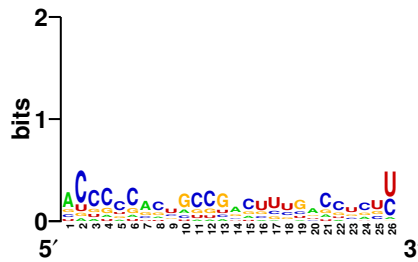
24-mers:



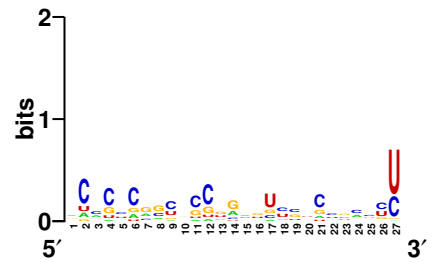
25-mers:



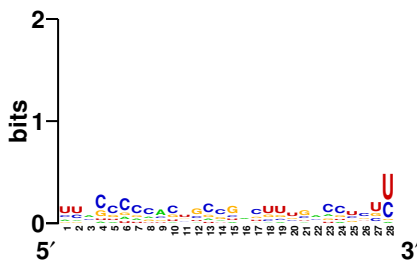
26-mers:



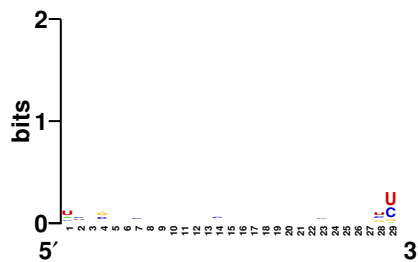
27-mers:



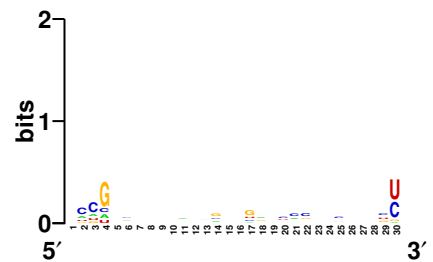
28-mers:



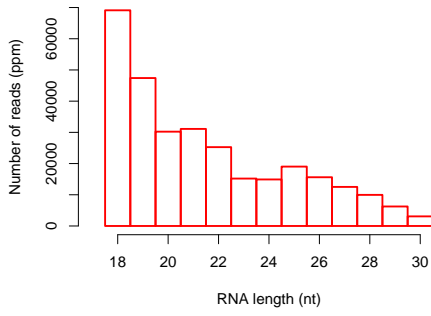
29-mers:



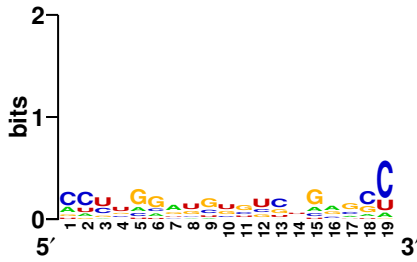
30-mers:



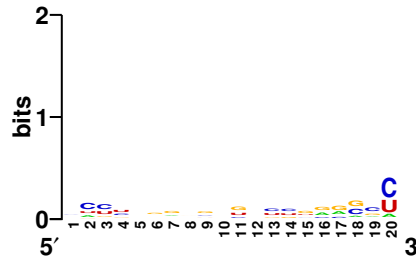
Embryo 60h, library 3:



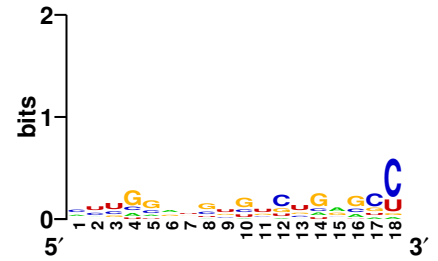
19-mers:



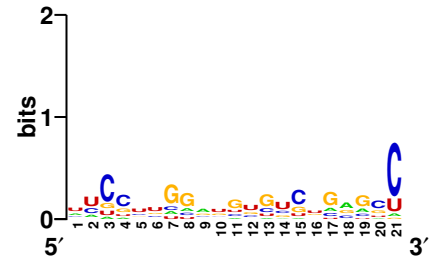
20-mers:



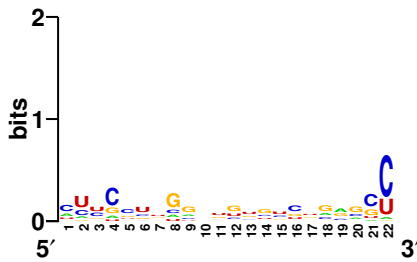
18-mers:



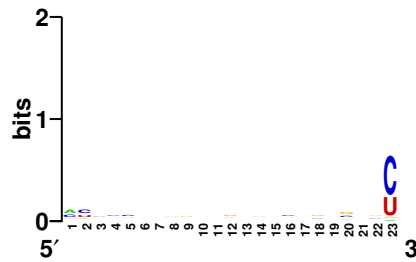
21-mers:



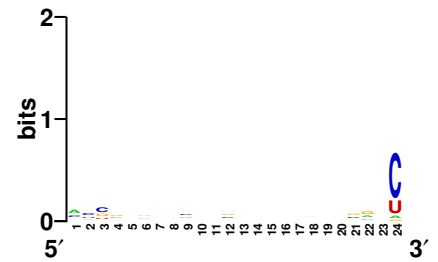
22-mers:



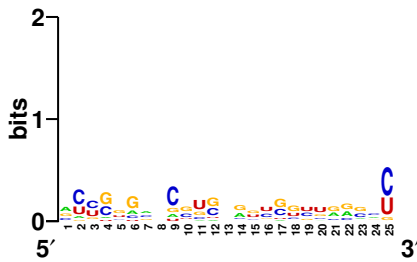
23-mers:



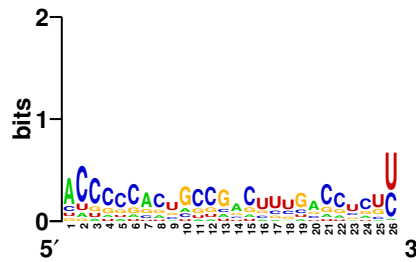
24-mers:



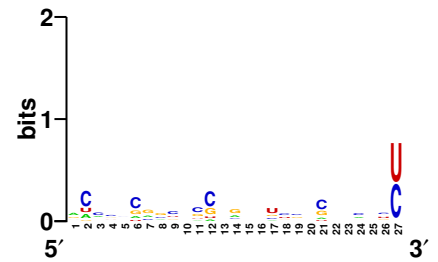
25-mers:



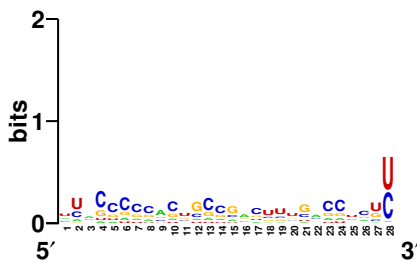
26-mers:



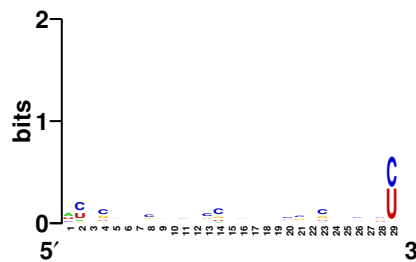
27-mers:



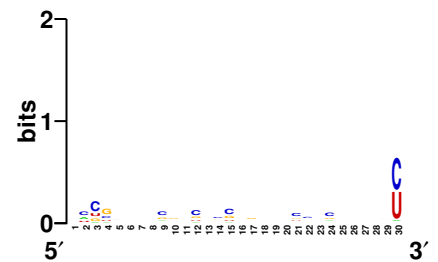
28-mers:



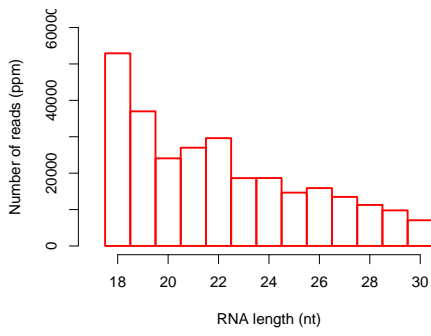
29-mers:



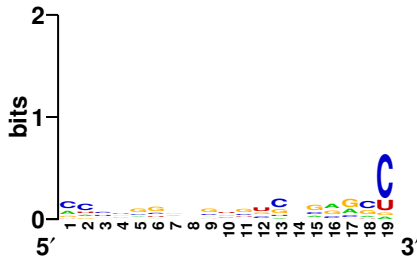
30-mers:



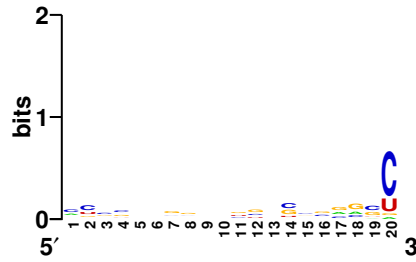
Adult female, library 3:



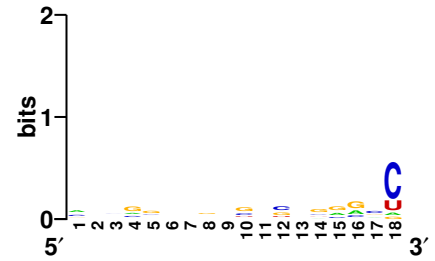
19-mers:



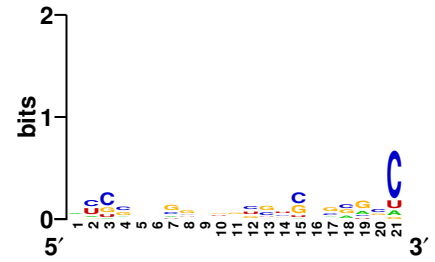
20-mers:



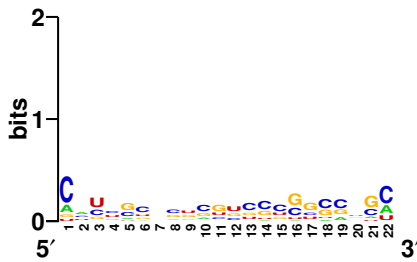
18-mers:



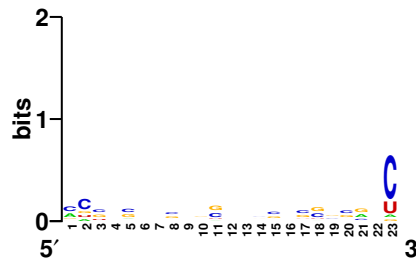
21-mers:



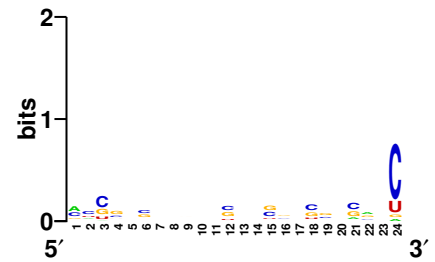
22-mers:



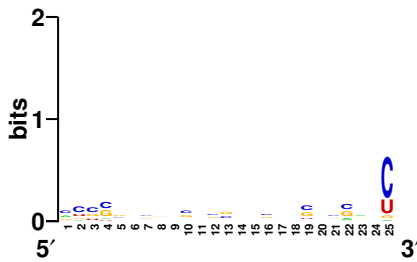
23-mers:



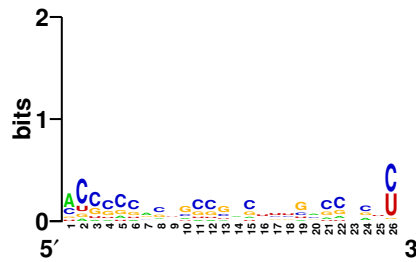
24-mers:



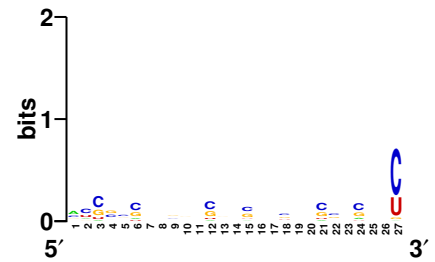
25-mers:



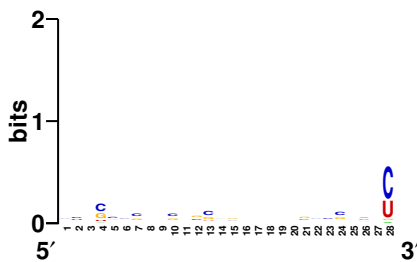
26-mers:



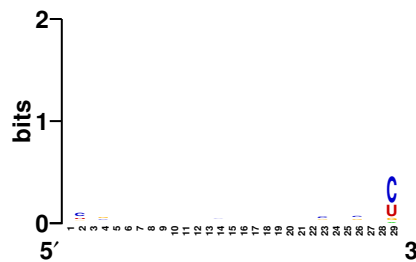
27-mers:



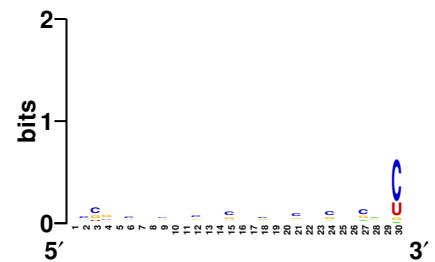
28-mers:



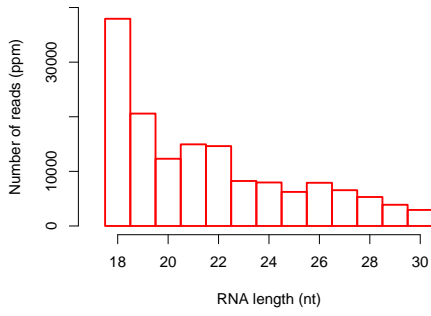
29-mers:



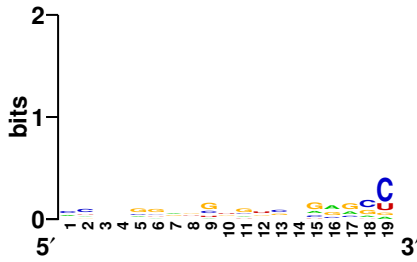
30-mers:



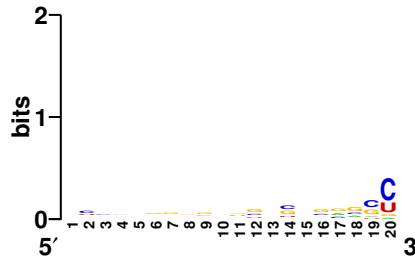
Adult male, library 3:



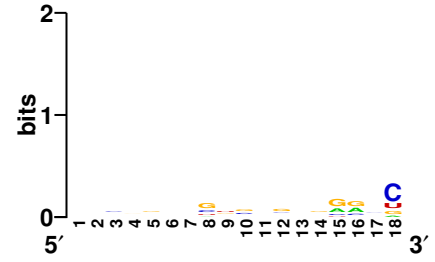
19-mers:



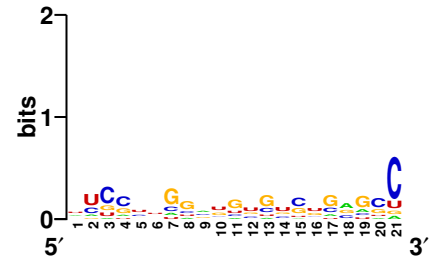
20-mers:



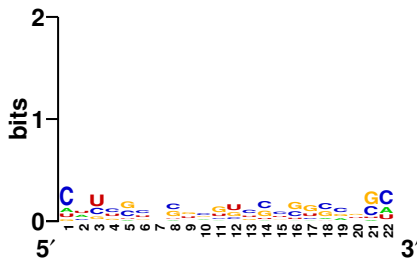
18-mers:



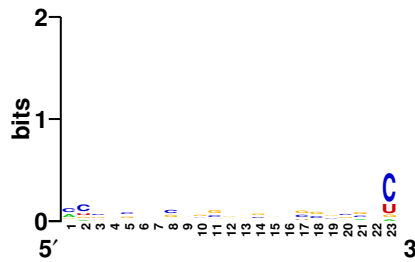
21-mers:



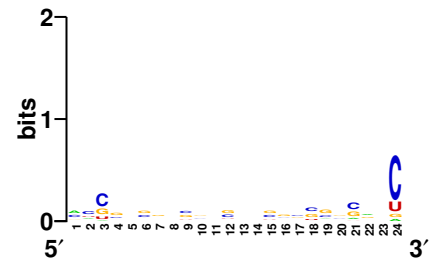
22-mers:



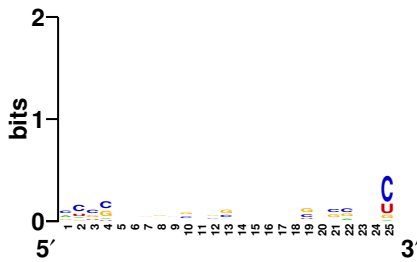
23-mers:



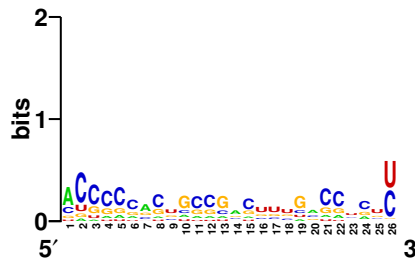
24-mers:



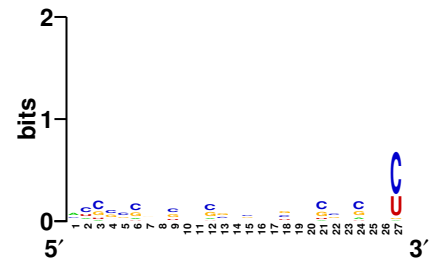
25-mers:



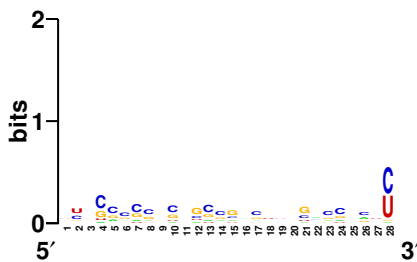
26-mers:



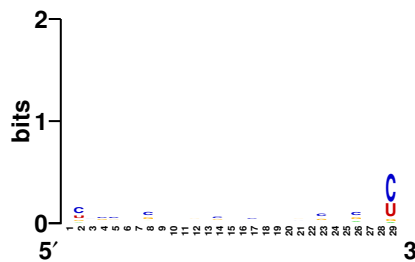
27-mers:



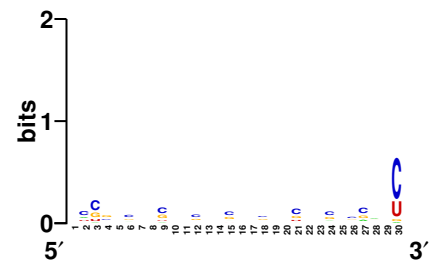
28-mers:



29-mers:



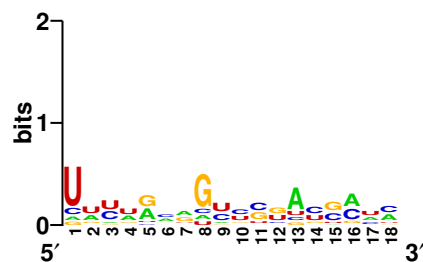
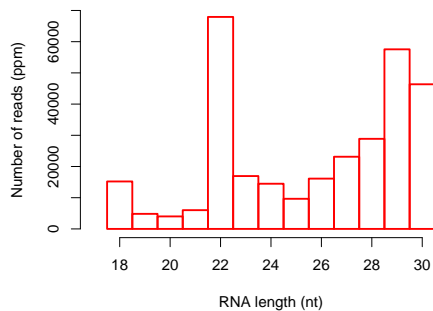
30-mers:



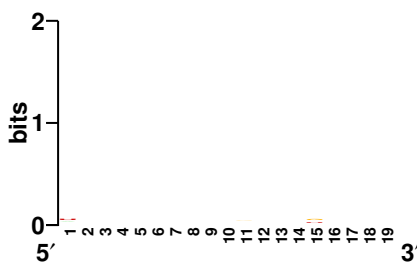
# 1.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 4:

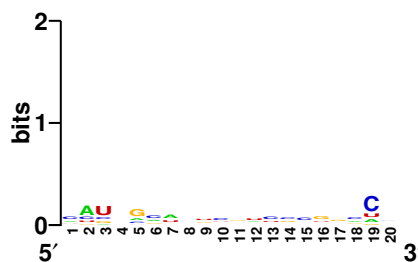
18-mers:



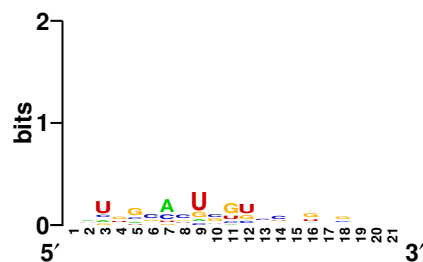
19-mers:



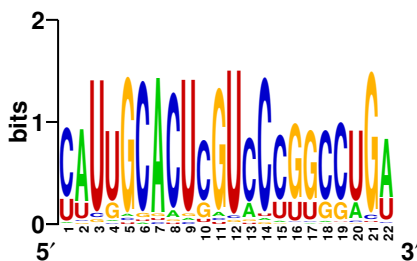
20-mers:



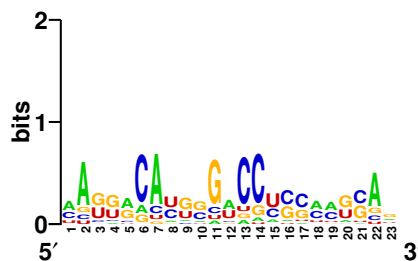
21-mers:



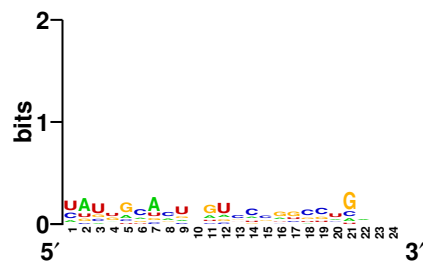
22-mers:



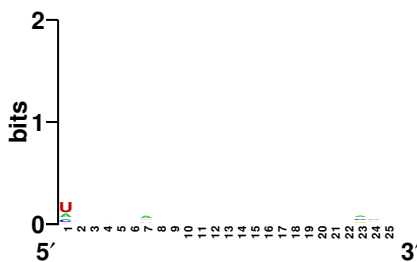
23-mers:



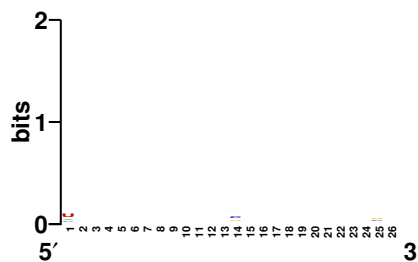
24-mers:



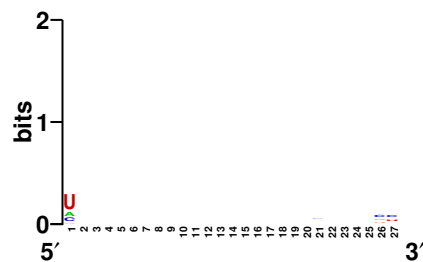
25-mers:



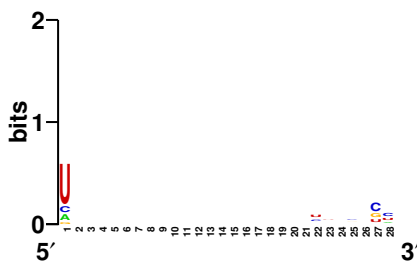
26-mers:



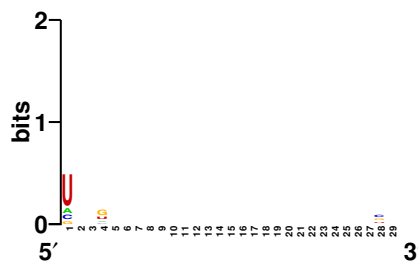
27-mers:



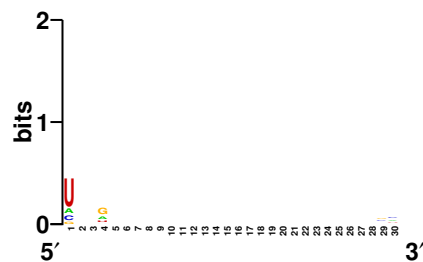
28-mers:



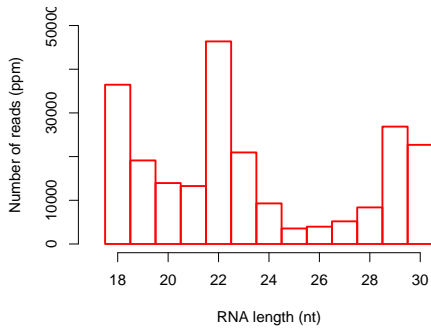
29-mers:



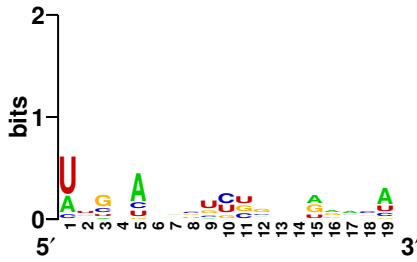
30-mers:



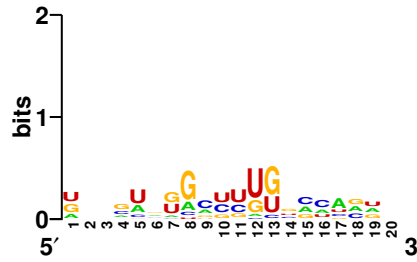
Embryo 15h, library 4:



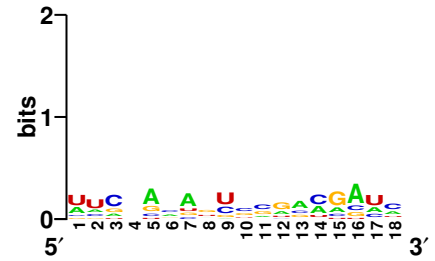
19-mers:



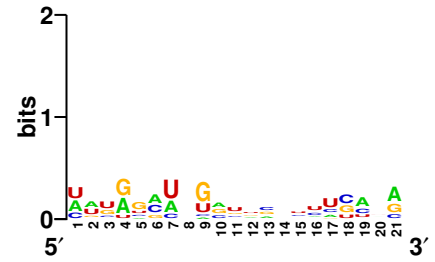
20-mers:



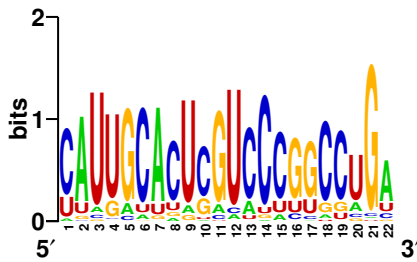
18-mers:



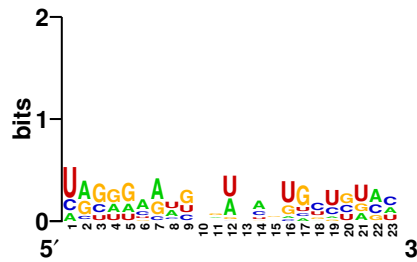
21-mers:



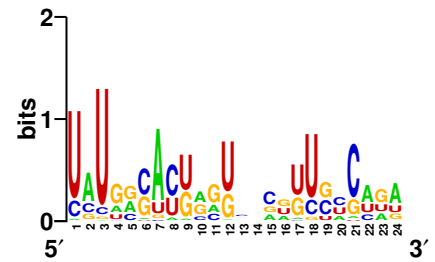
22-mers:



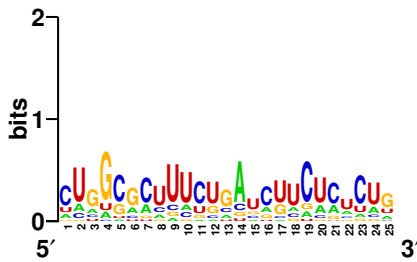
23-mers:



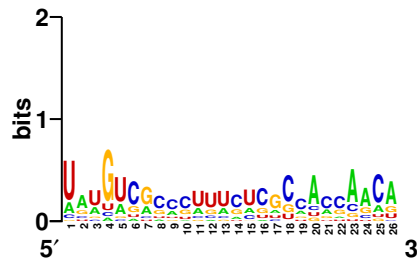
24-mers:



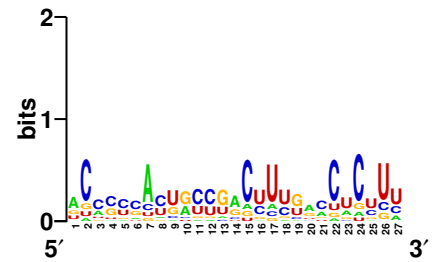
25-mers:



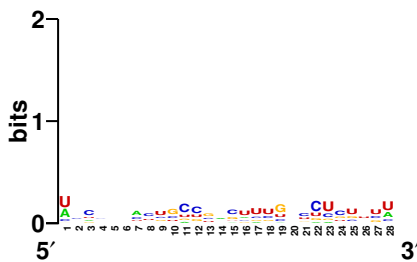
26-mers:



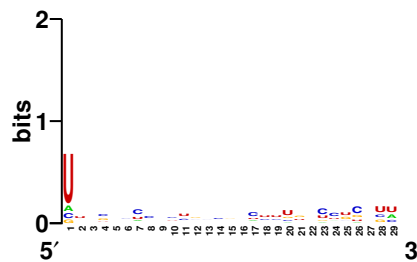
27-mers:



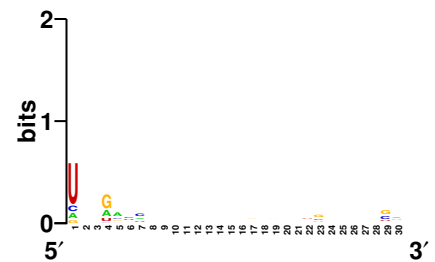
28-mers:



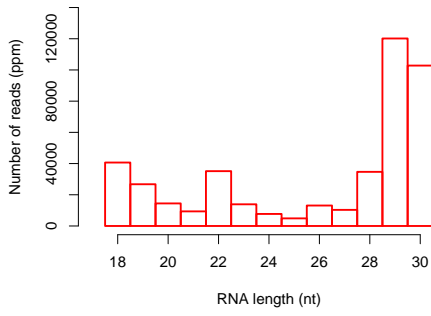
29-mers:



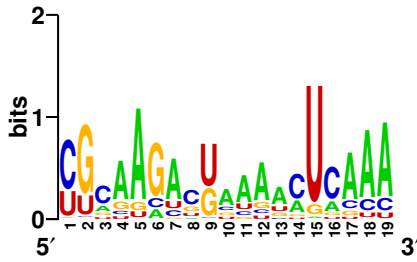
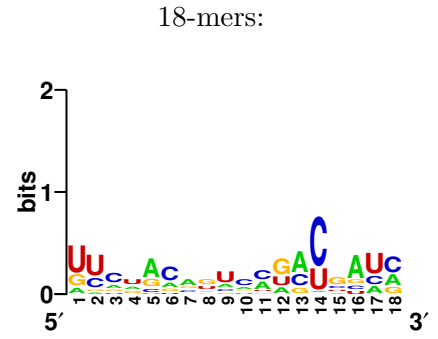
30-mers:



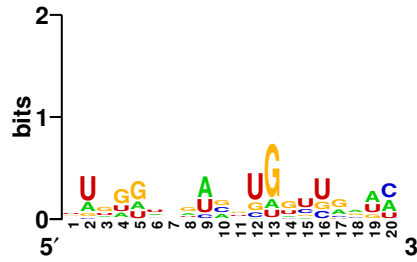
Embryo 36h, library 4:



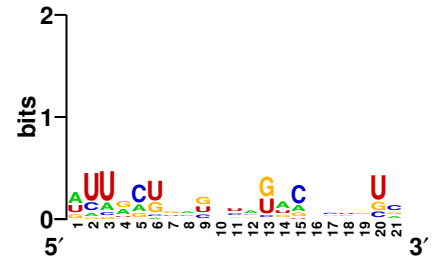
18-mers:



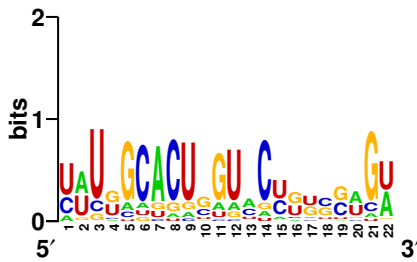
20-mers:



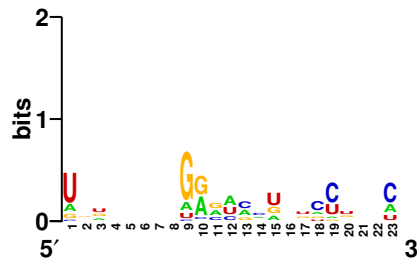
21-mers:



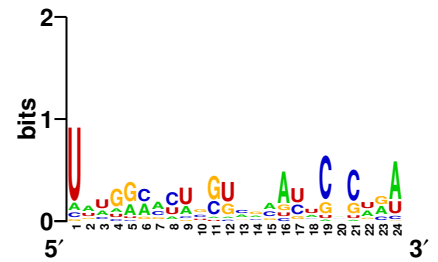
22-mers:



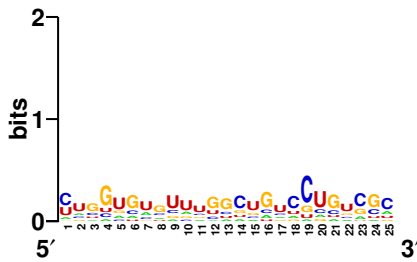
23-mers:



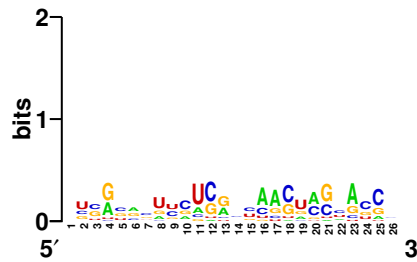
24-mers:



25-mers:



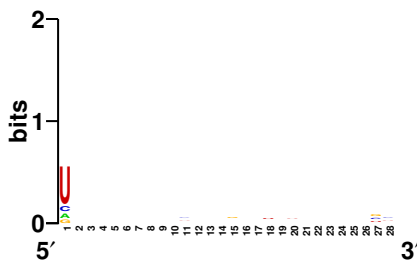
26-mers:



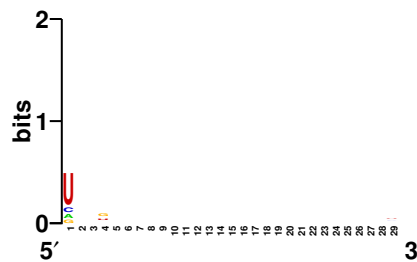
27-mers:



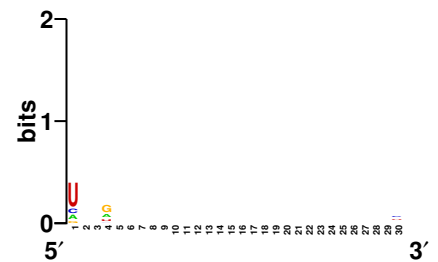
28-mers:



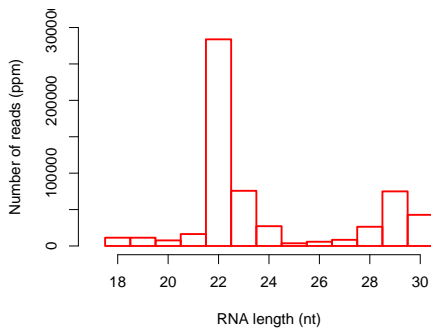
29-mers:



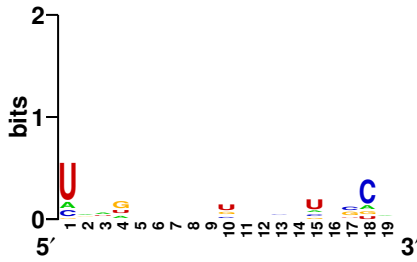
30-mers:



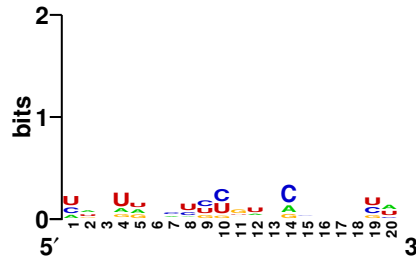
Embryo 60h, library 4:



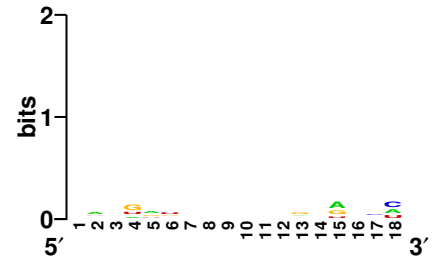
19-mers:



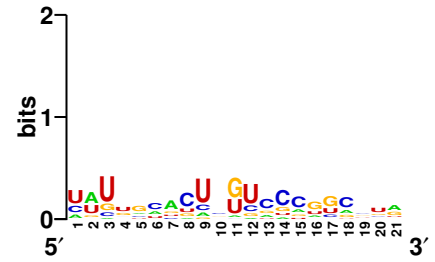
20-mers:



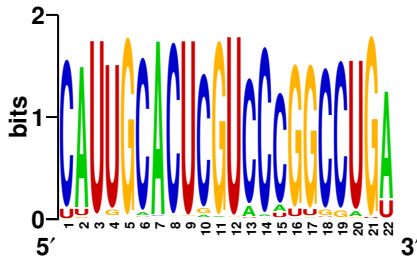
18-mers:



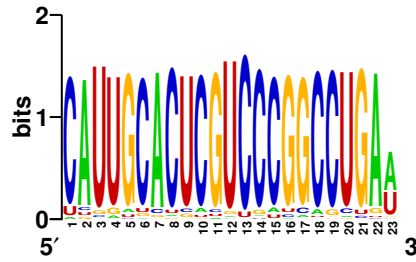
21-mers:



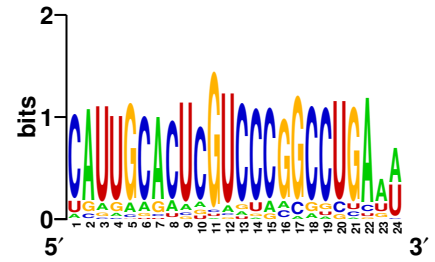
22-mers:



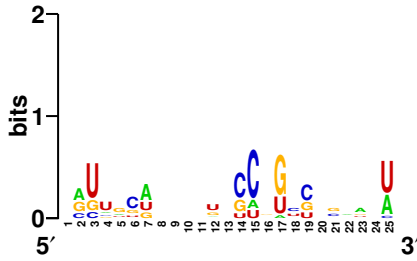
23-mers:



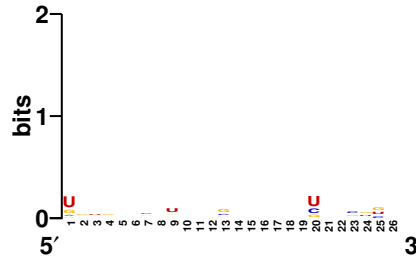
24-mers:



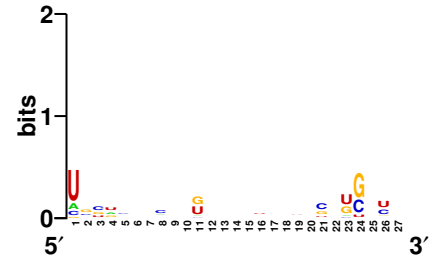
25-mers:



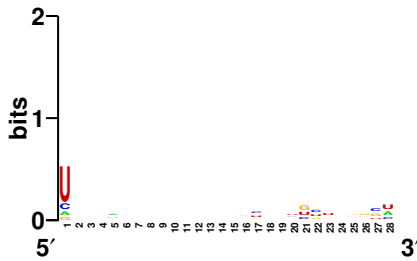
26-mers:



27-mers:



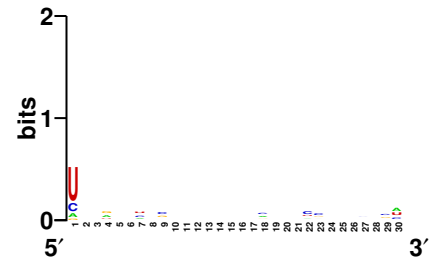
28-mers:



29-mers:

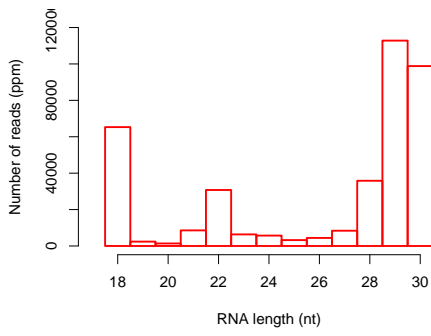


30-mers:

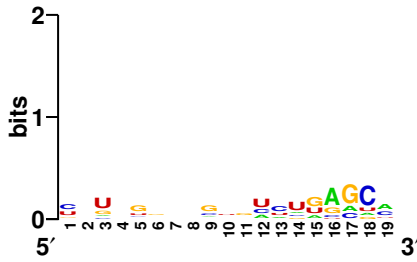




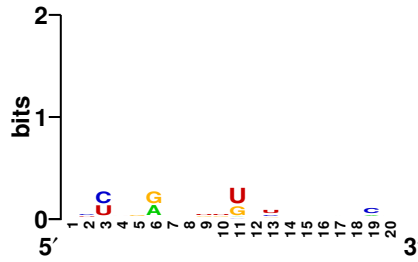
Adult female, library 4:



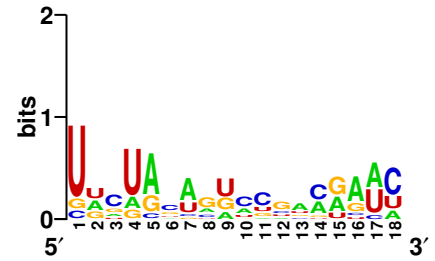
19-mers:



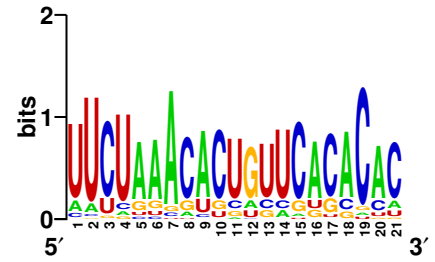
20-mers:



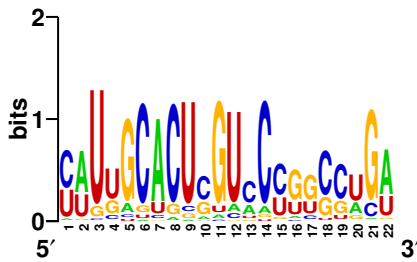
18-mers:



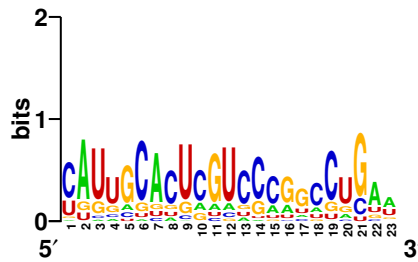
21-mers:



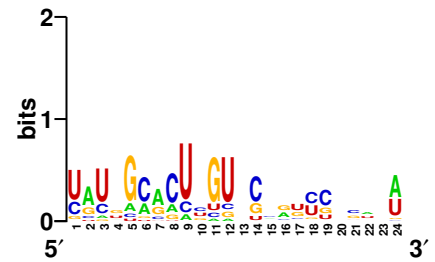
22-mers:



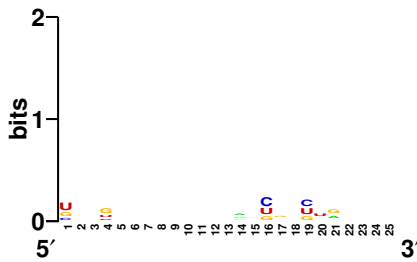
23-mers:



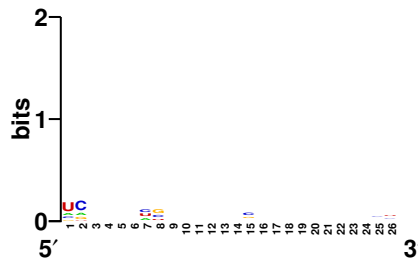
24-mers:



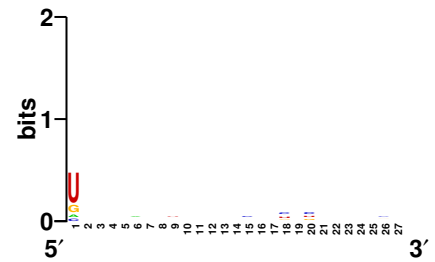
25-mers:



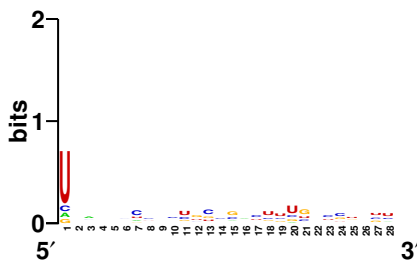
26-mers:



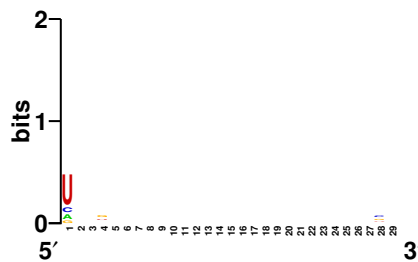
27-mers:



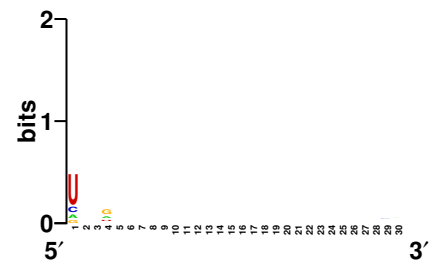
28-mers:



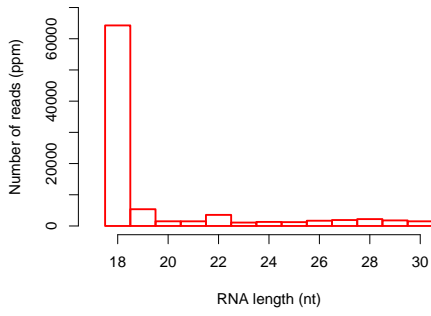
29-mers:



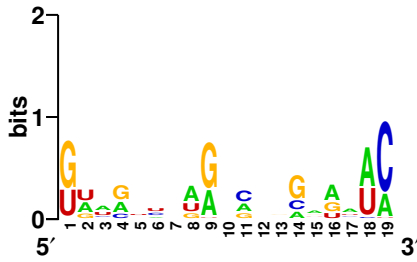
30-mers:



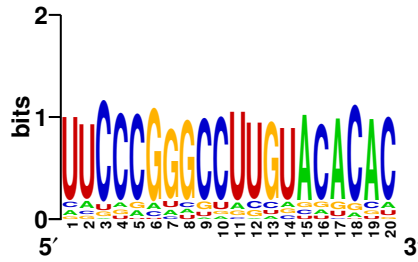
Adult male, library 4:



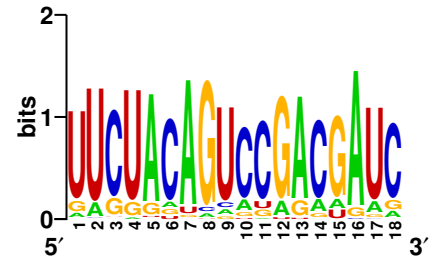
19-mers:



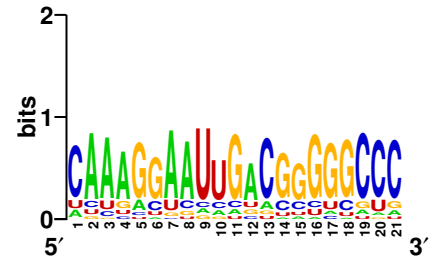
20-mers:



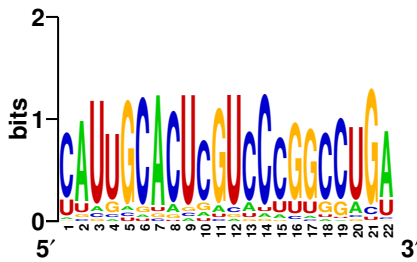
18-mers:



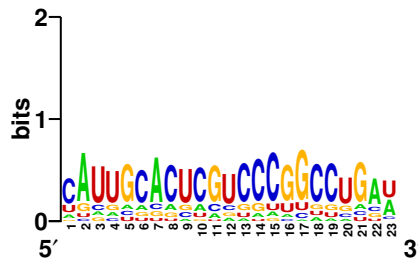
21-mers:



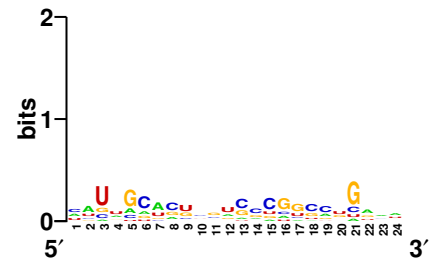
22-mers:



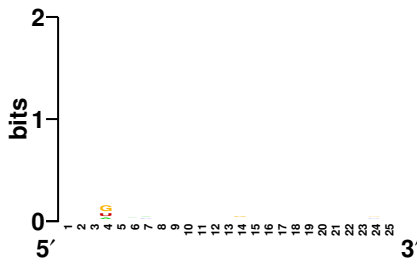
23-mers:



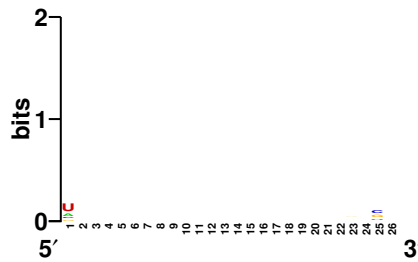
24-mers:



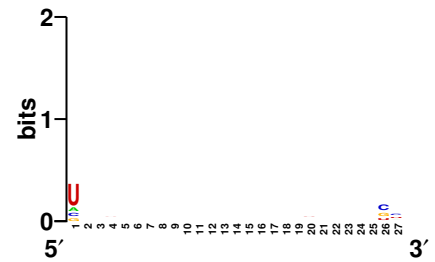
25-mers:



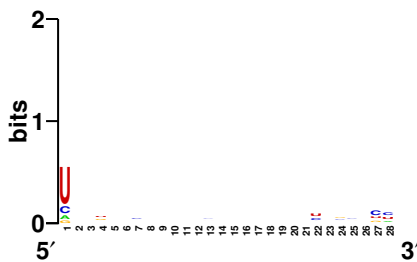
26-mers:



27-mers:



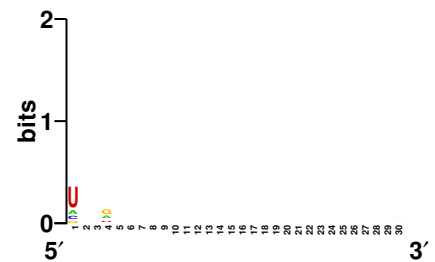
28-mers:



29-mers:



30-mers:



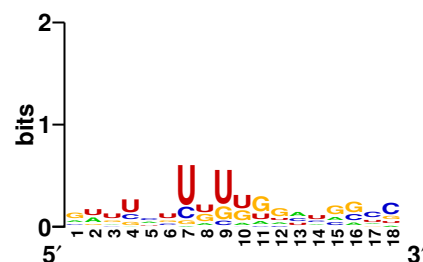
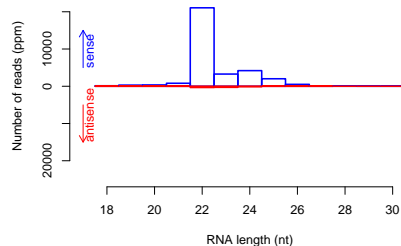
## 2 pre-miRNA hairpin-matching reads

### 2.1 Libraries #1 (total 5' monophosphorylated small RNAs)

Embryo 8h, library 1:

Sense reads:

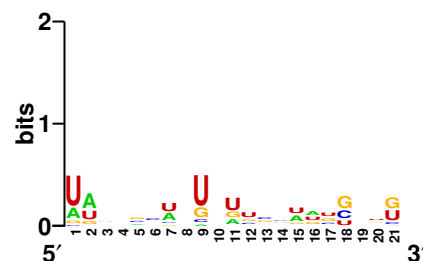
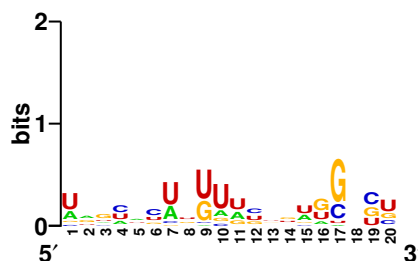
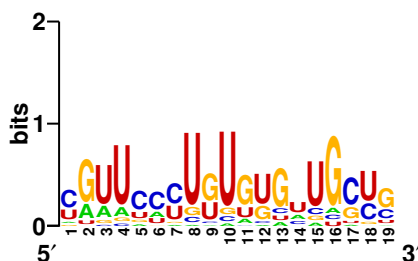
18-mers:



19-mers:

20-mers:

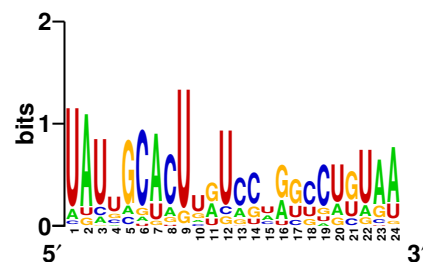
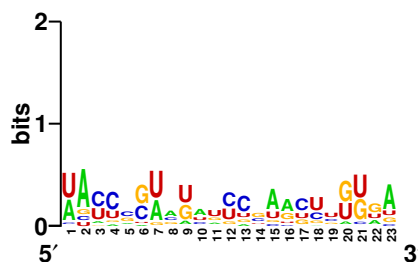
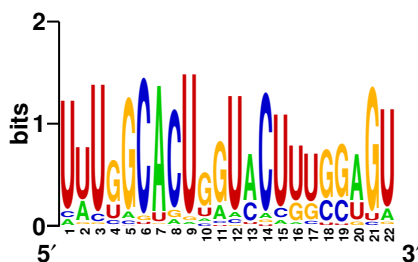
21-mers:



22-mers:

23-mers:

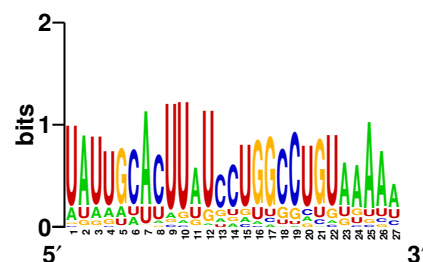
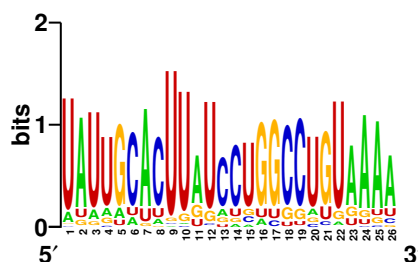
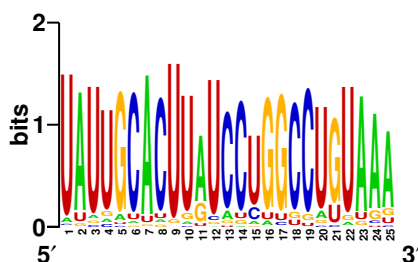
24-mers:



25-mers:

26-mers:

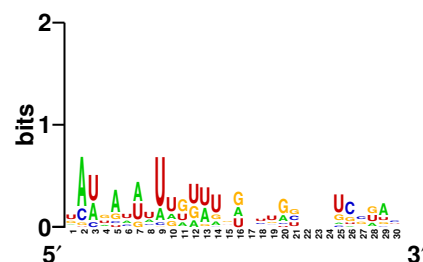
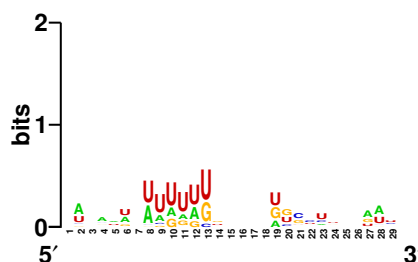
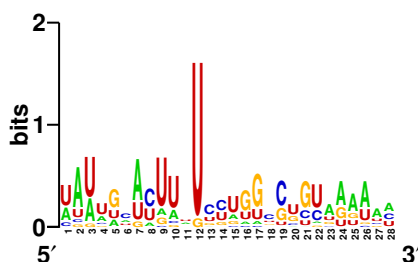
27-mers:



28-mers:

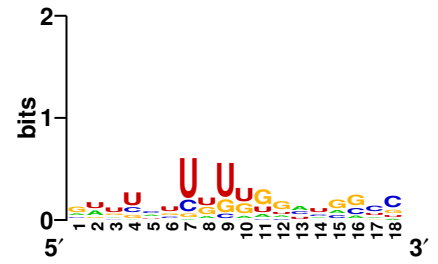
29-mers:

30-mers:

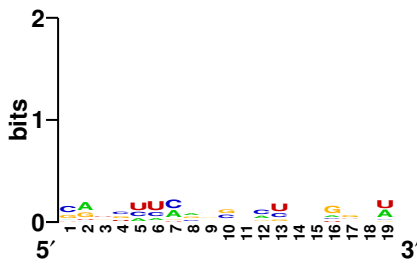


Antisense reads:

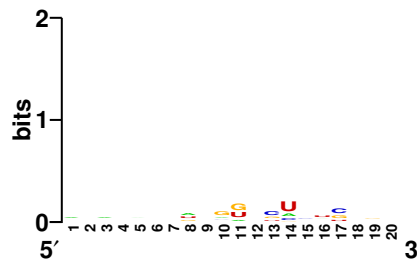
18-mers:



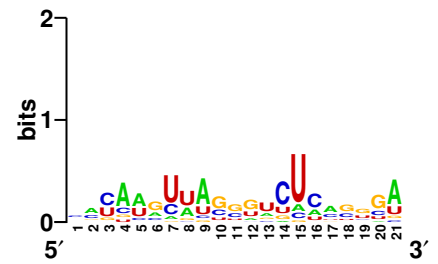
19-mers:



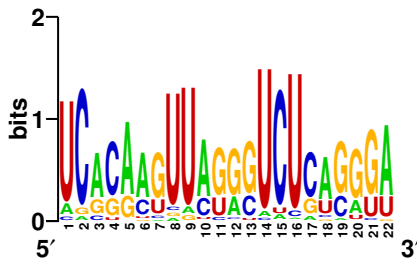
20-mers:



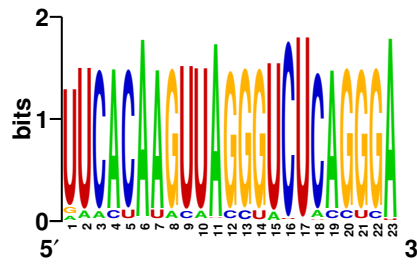
21-mers:



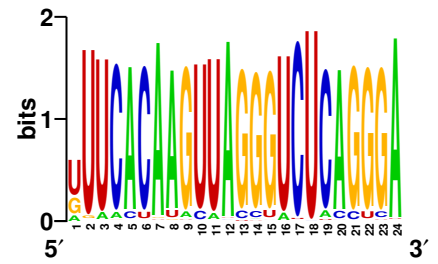
22-mers:



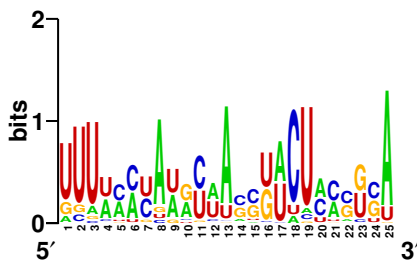
23-mers:



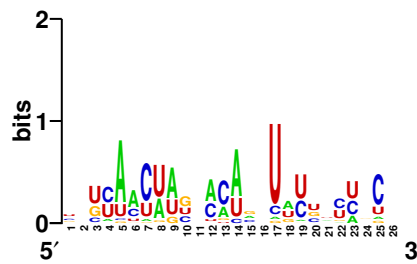
24-mers:



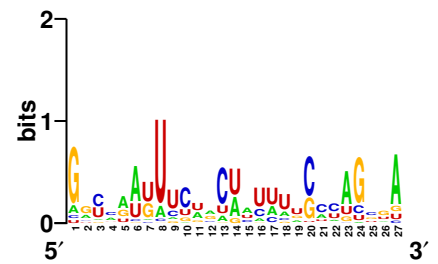
25-mers:



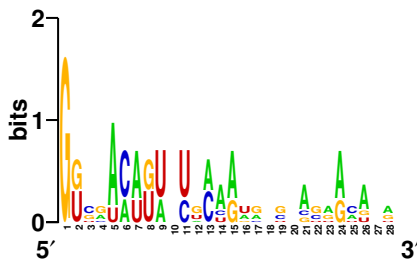
26-mers:



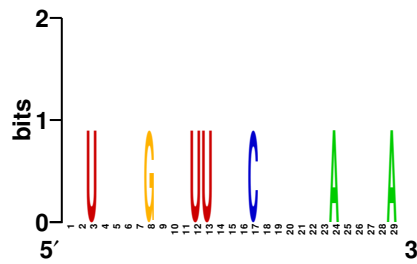
27-mers:



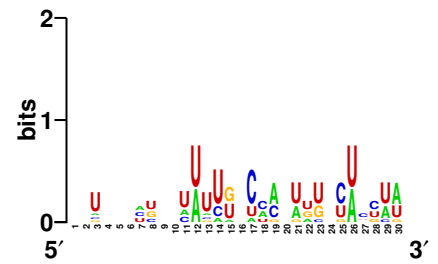
28-mers:



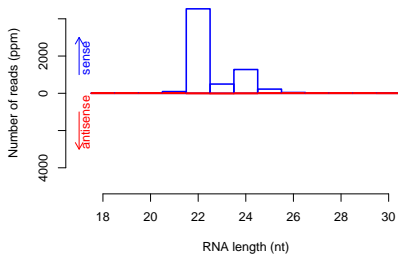
29-mers:



30-mers:

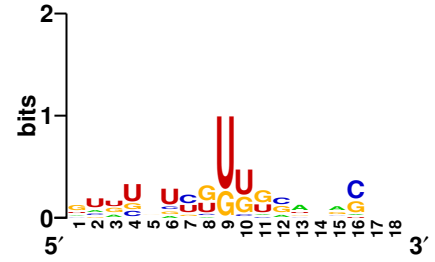


Embryo 15h, library 1:

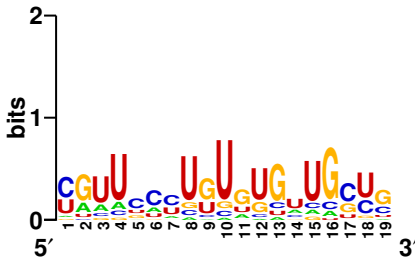


Sense reads:

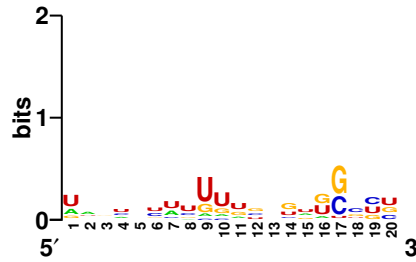
18-mers:



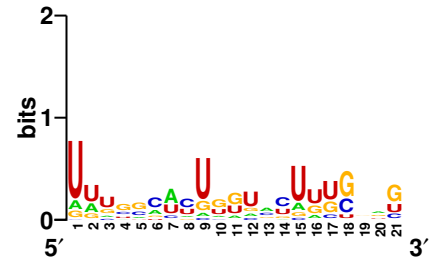
19-mers:



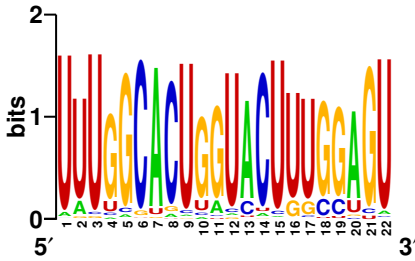
20-mers:



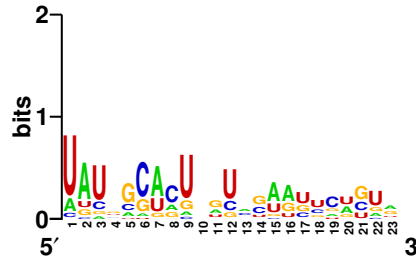
21-mers:



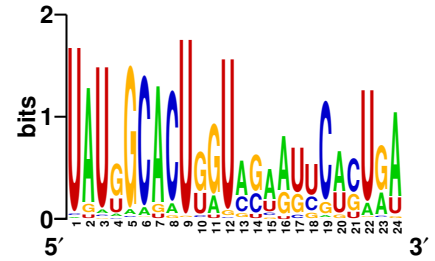
22-mers:



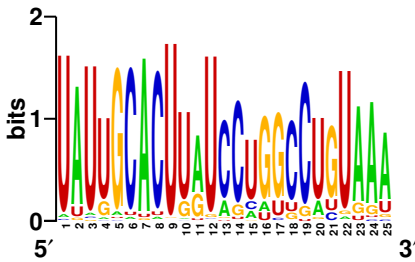
23-mers:



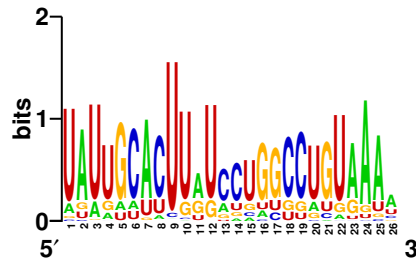
24-mers:



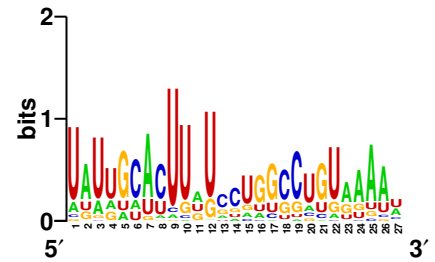
25-mers:



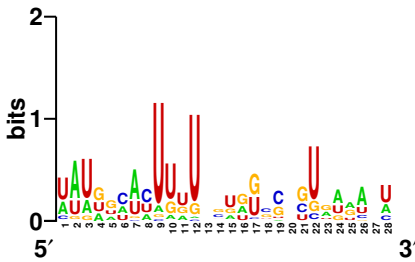
26-mers:



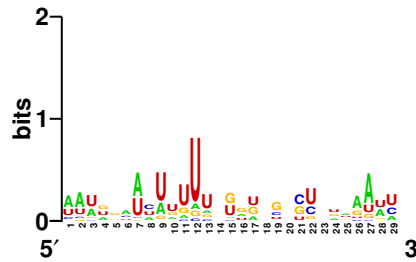
27-mers:



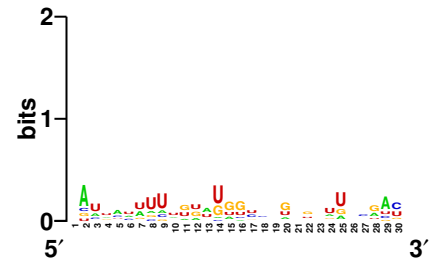
28-mers:



29-mers:

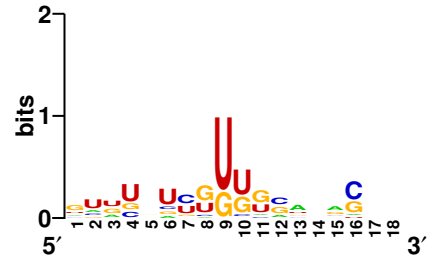


30-mers:

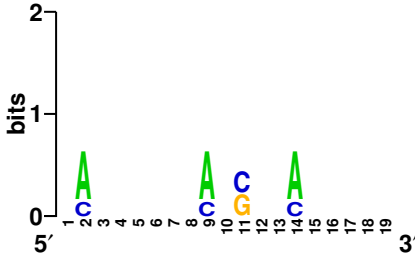


Antisense reads:

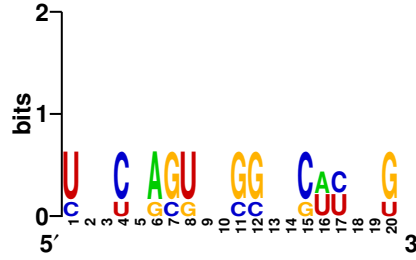
18-mers:



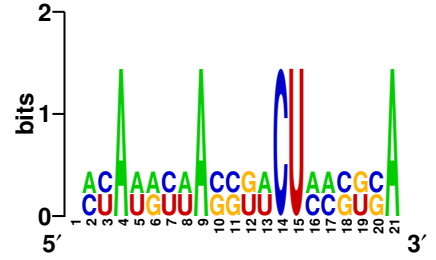
19-mers:



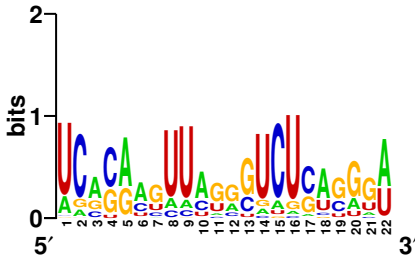
20-mers:



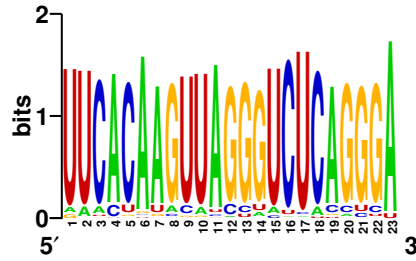
21-mers:



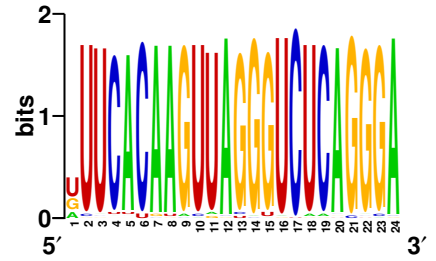
22-mers:



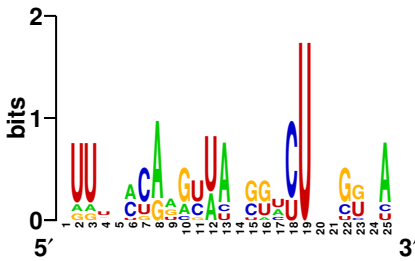
23-mers:



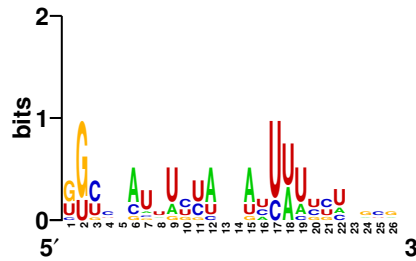
24-mers:



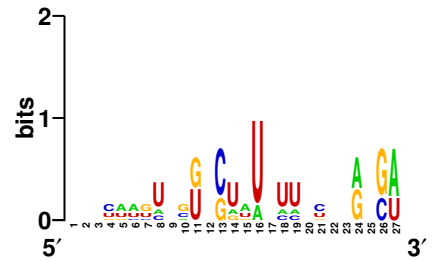
25-mers:



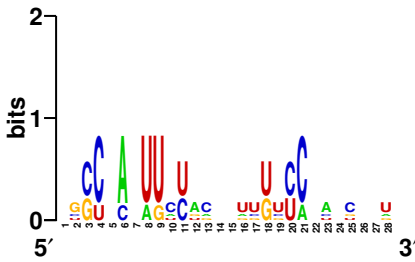
26-mers:



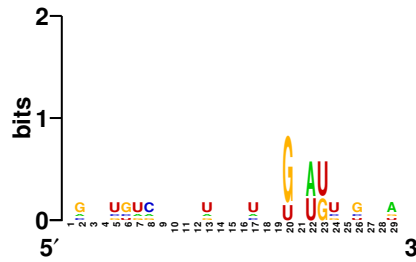
27-mers:



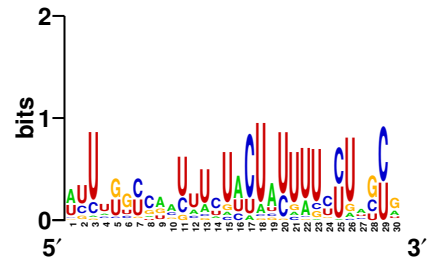
28-mers:



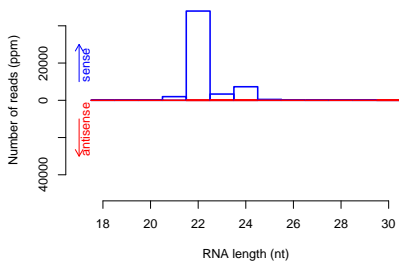
29-mers:



30-mers:

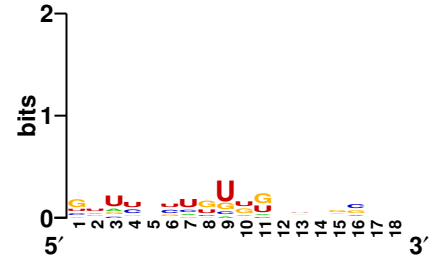


Embryo 36h, library 1:

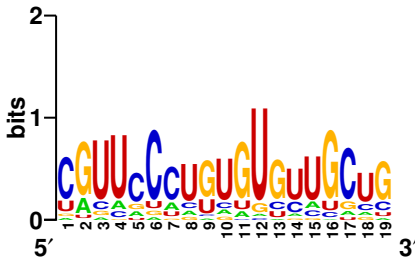


Sense reads:

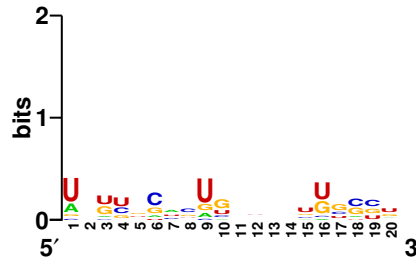
18-mers:



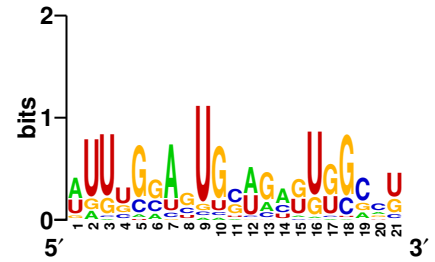
19-mers:



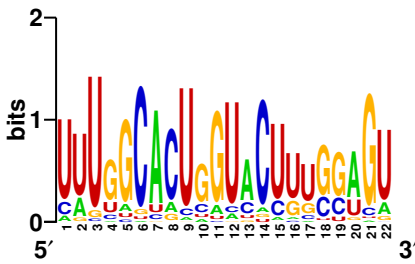
20-mers:



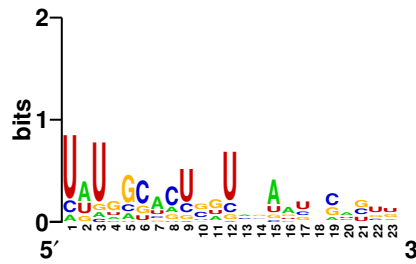
21-mers:



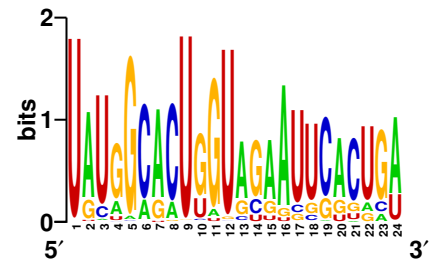
22-mers:



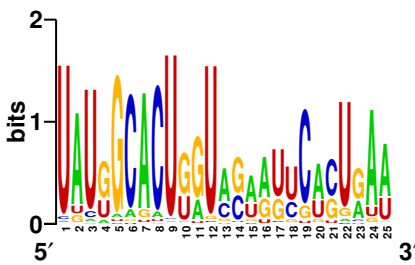
23-mers:



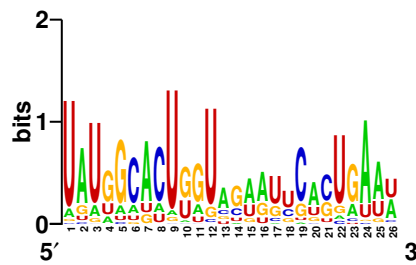
24-mers:



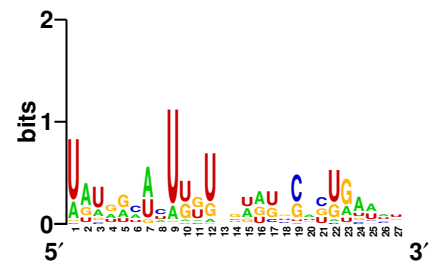
25-mers:



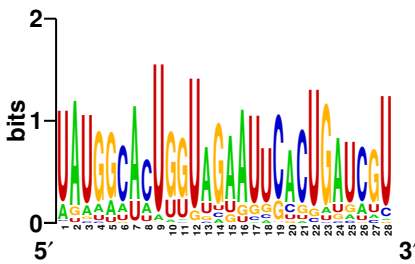
26-mers:



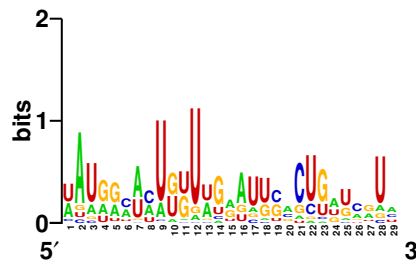
27-mers:



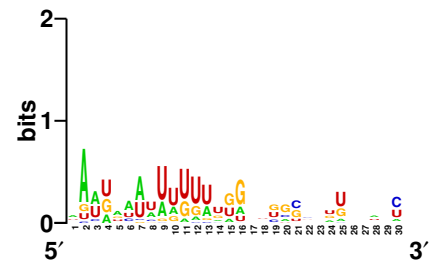
28-mers:



29-mers:

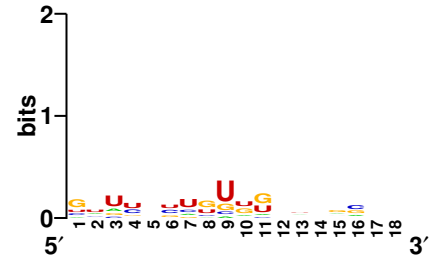


30-mers:

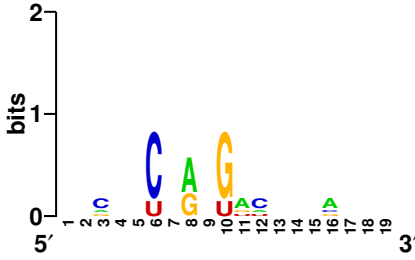


Antisense reads:

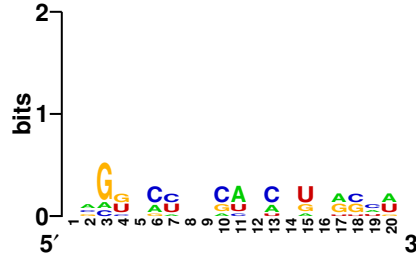
18-mers:



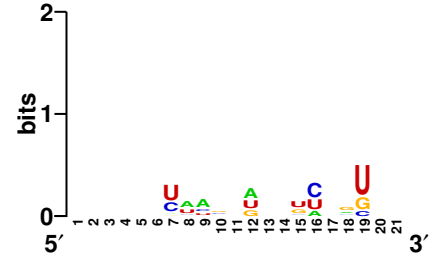
19-mers:



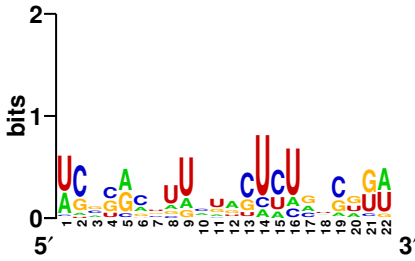
20-mers:



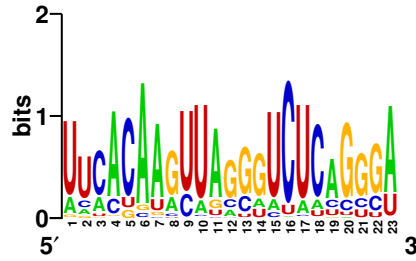
21-mers:



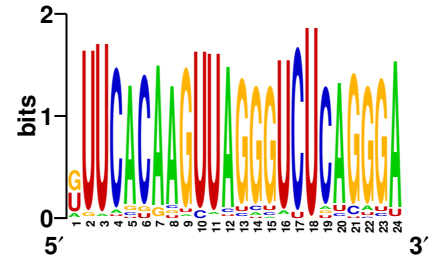
22-mers:



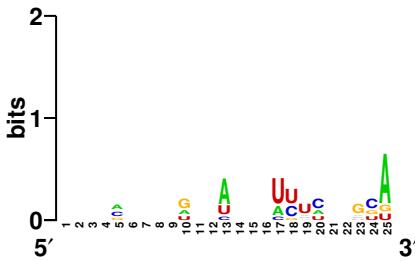
23-mers:



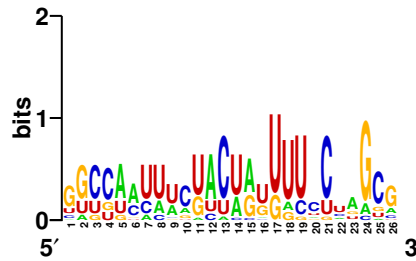
24-mers:



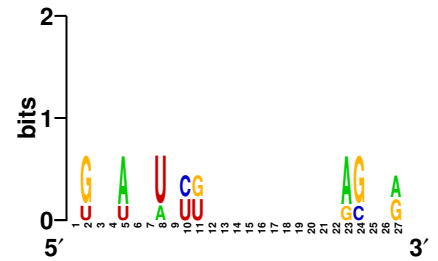
25-mers:



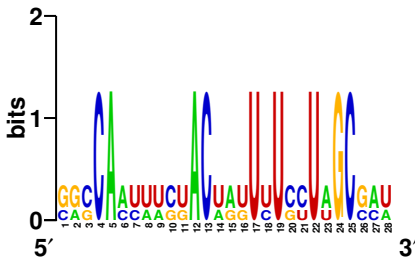
26-mers:



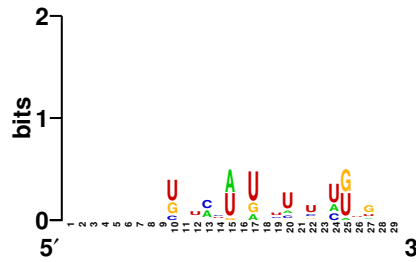
27-mers:



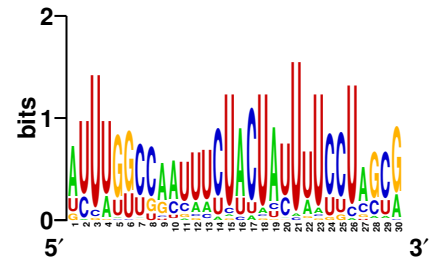
28-mers:



29-mers:



30-mers:

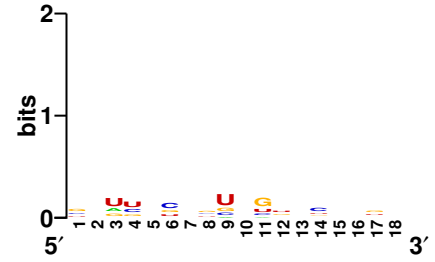
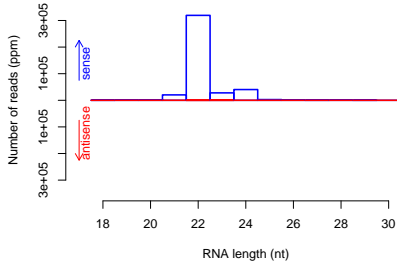




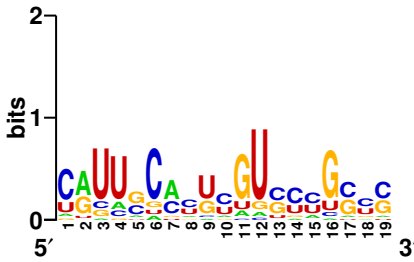
Embryo 60h, library 1:

Sense reads:

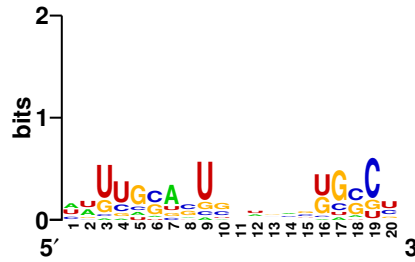
18-mers:



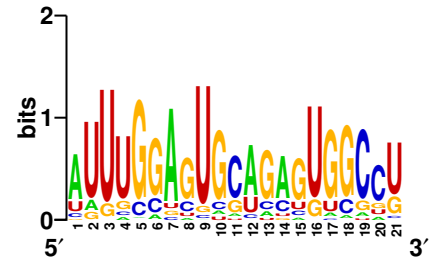
19-mers:



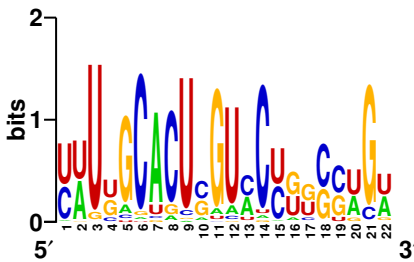
20-mers:



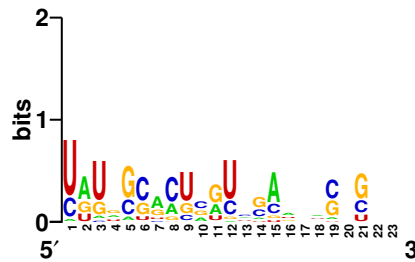
21-mers:



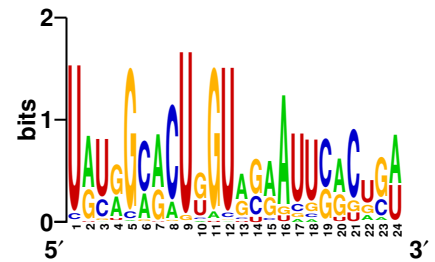
22-mers:



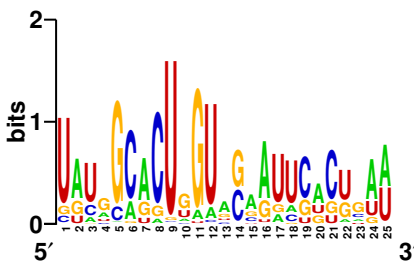
23-mers:



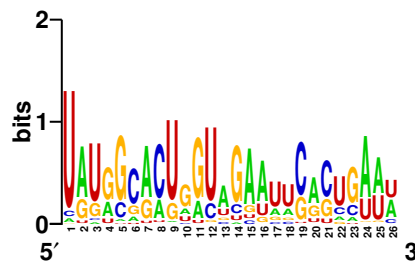
24-mers:



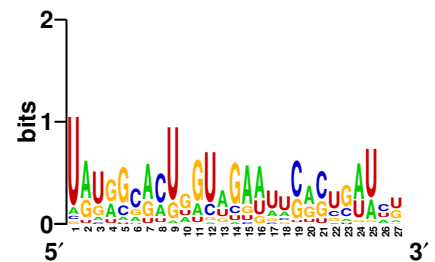
25-mers:



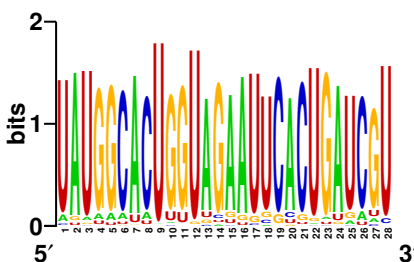
26-mers:



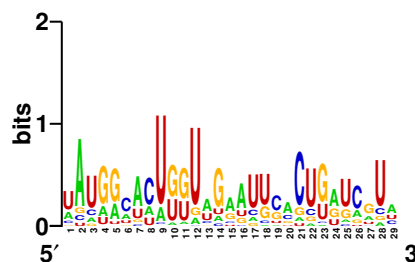
27-mers:



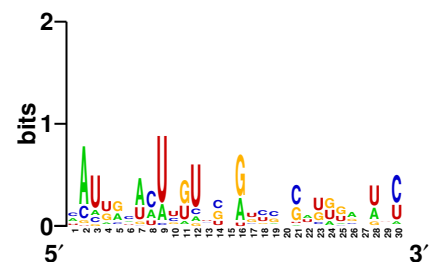
28-mers:



29-mers:

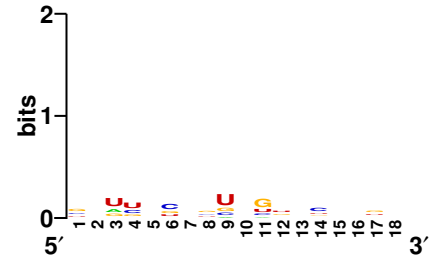


30-mers:

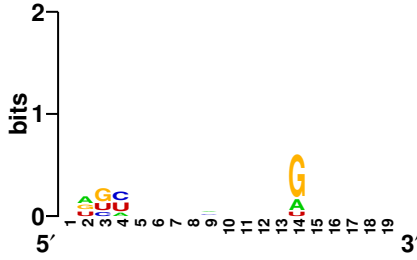


Antisense reads:

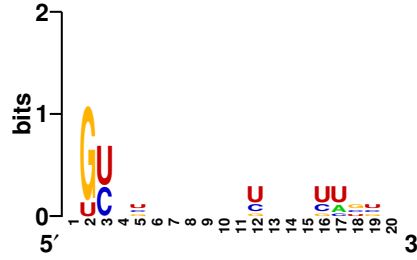
18-mers:



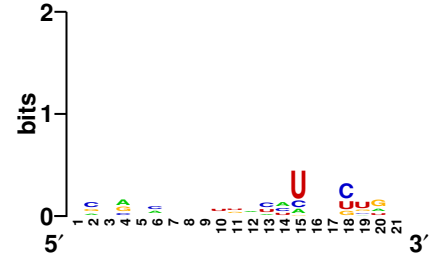
19-mers:



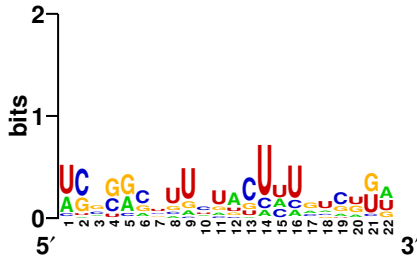
20-mers:



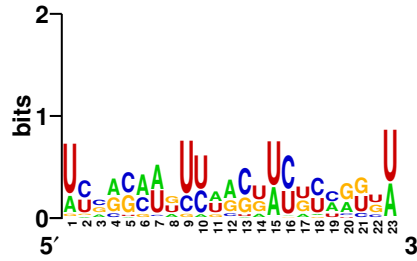
21-mers:



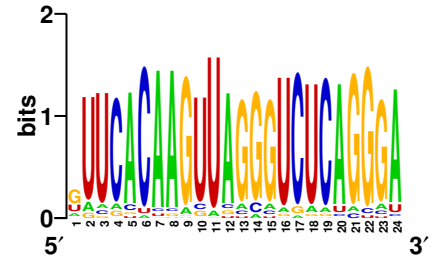
22-mers:



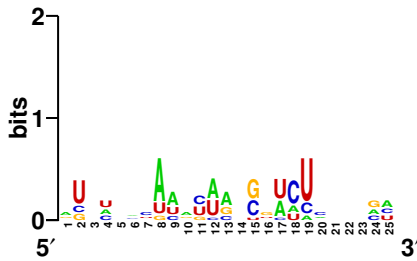
23-mers:



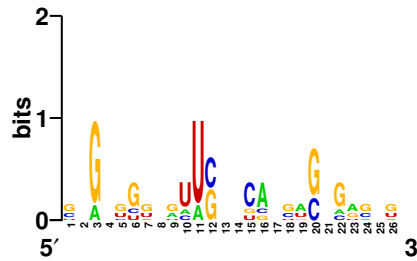
24-mers:



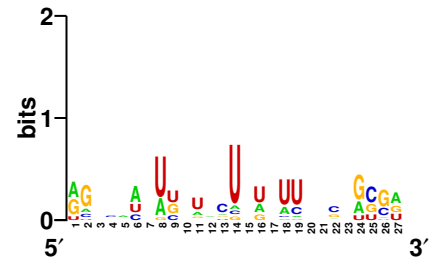
25-mers:



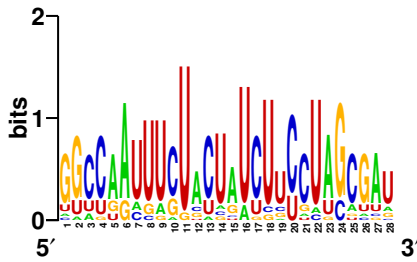
26-mers:



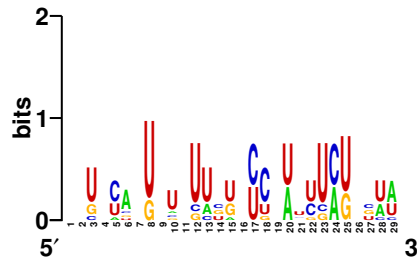
27-mers:



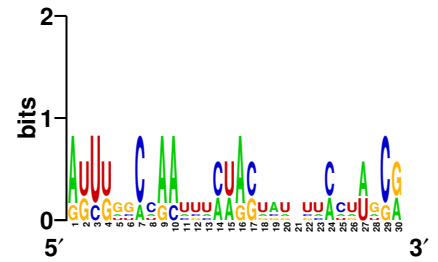
28-mers:



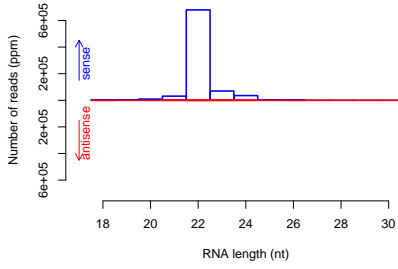
29-mers:



30-mers:

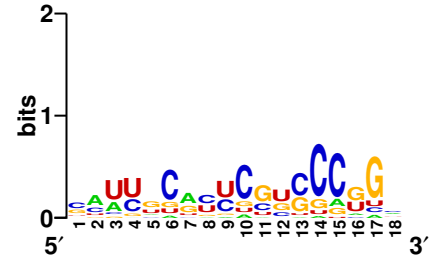


Adult female, library 1:

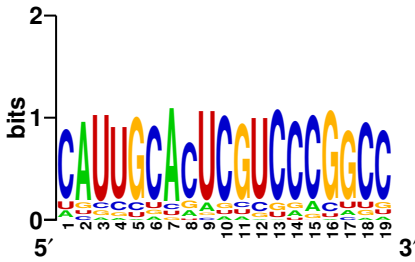


Sense reads:

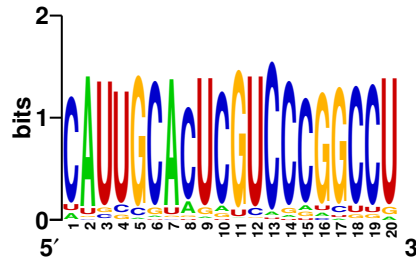
18-mers:



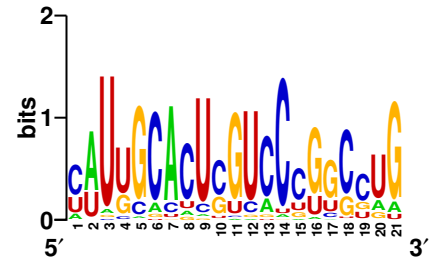
19-mers:



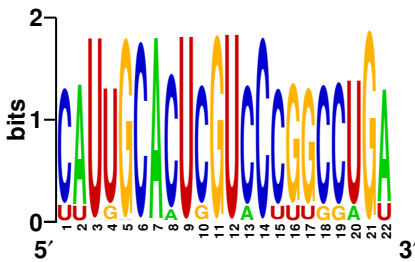
20-mers:



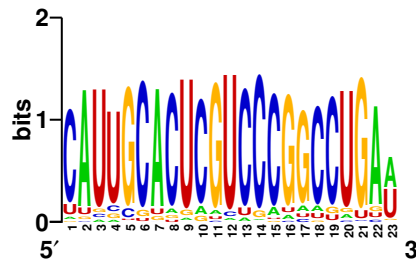
21-mers:



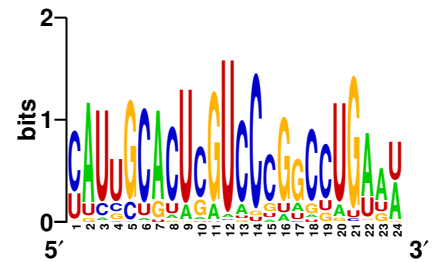
22-mers:



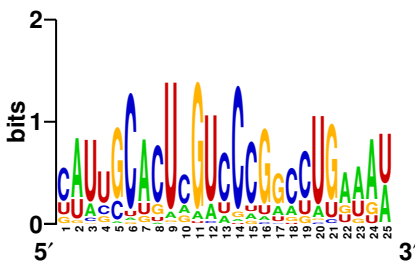
23-mers:



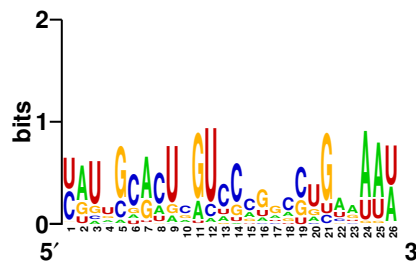
24-mers:



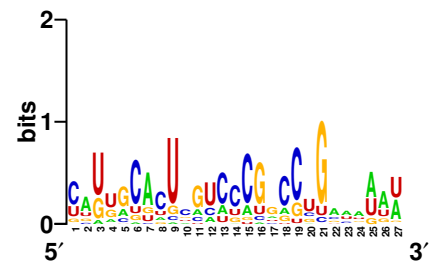
25-mers:



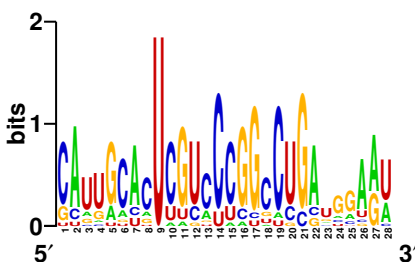
26-mers:



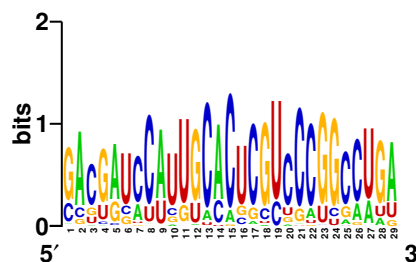
27-mers:



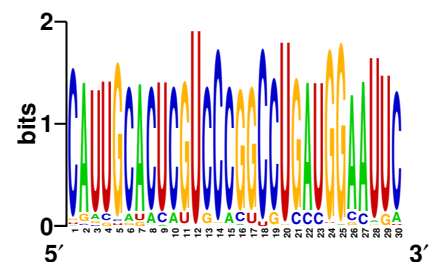
28-mers:



29-mers:

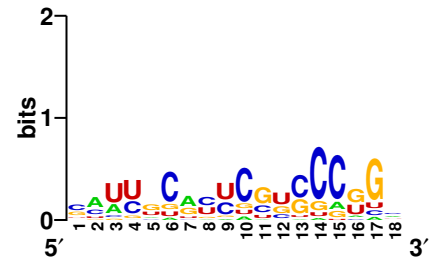


30-mers:

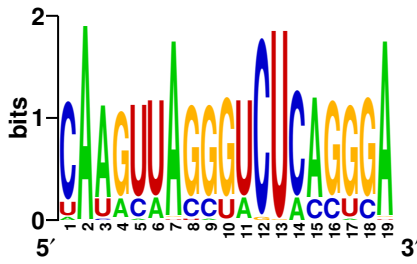


Antisense reads:

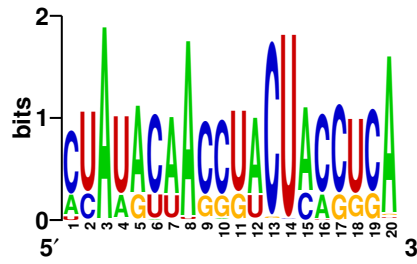
18-mers:



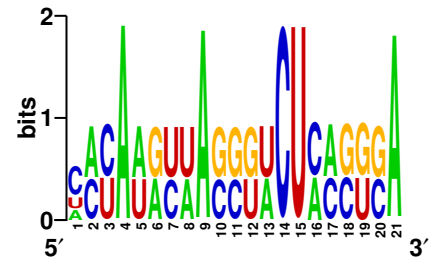
19-mers:



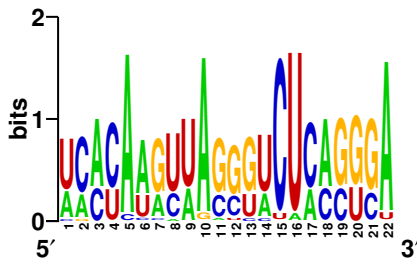
20-mers:



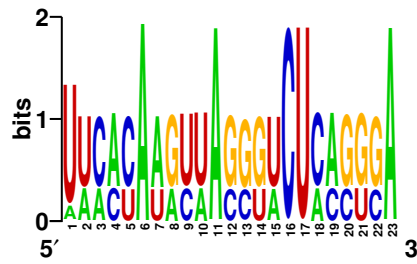
21-mers:



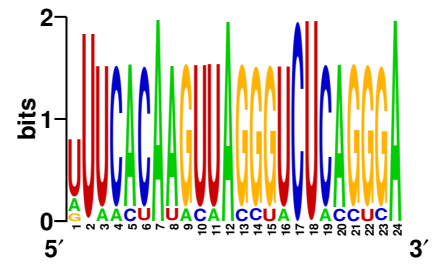
22-mers:



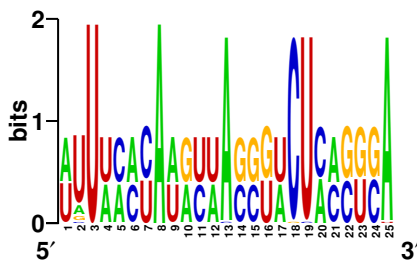
23-mers:



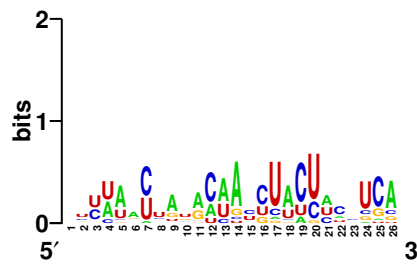
24-mers:



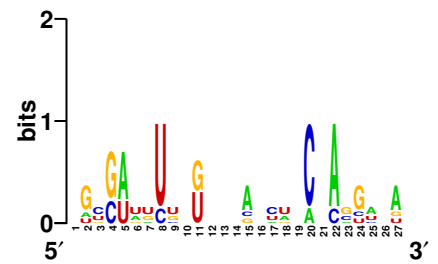
25-mers:



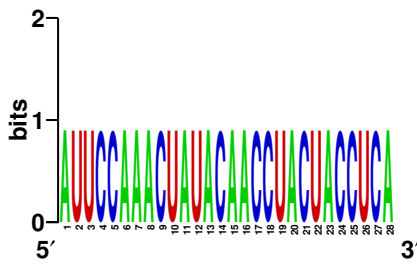
26-mers:



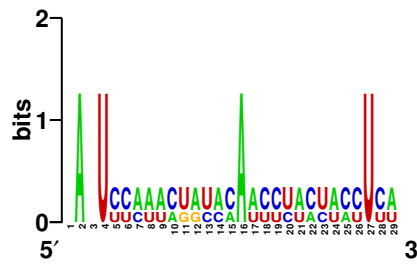
27-mers:



28-mers:



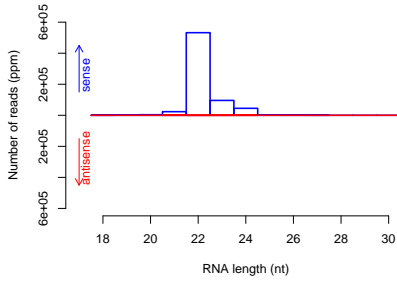
29-mers:



30-mers:

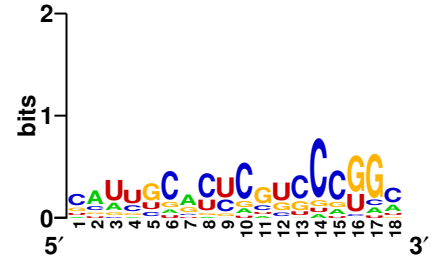
(no read)

Adult male, library 1:

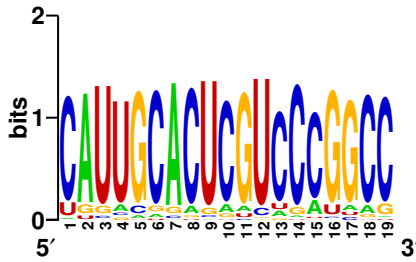


Sense reads:

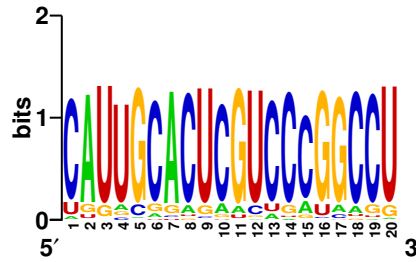
18-mers:



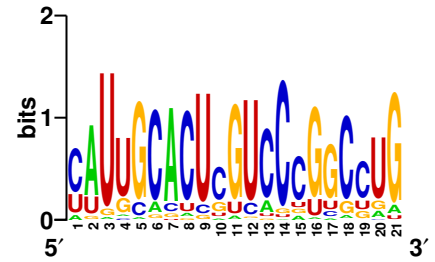
19-mers:



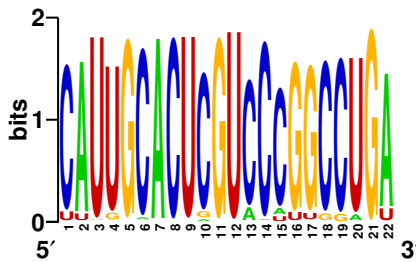
20-mers:



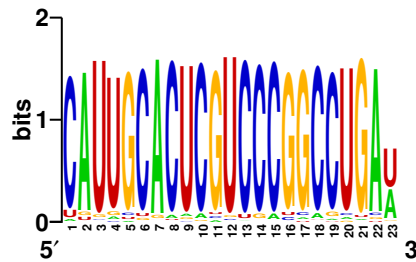
21-mers:



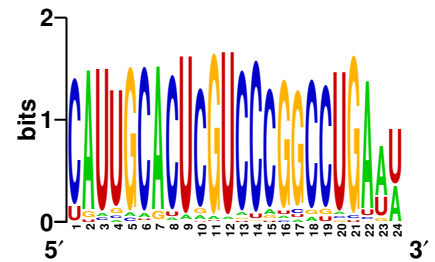
22-mers:



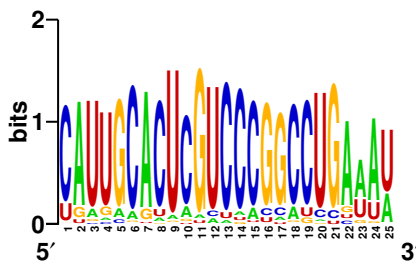
23-mers:



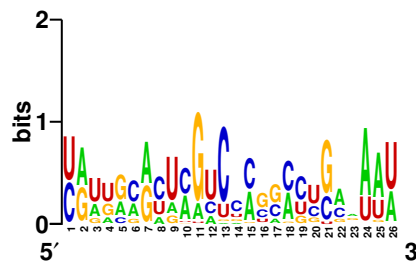
24-mers:



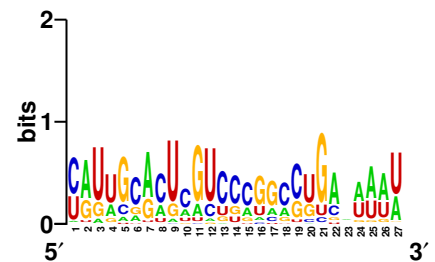
25-mers:



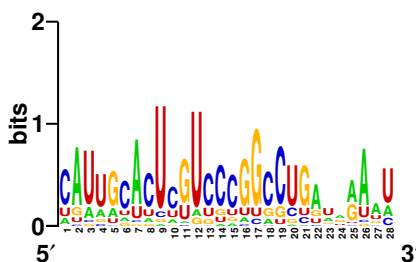
26-mers:



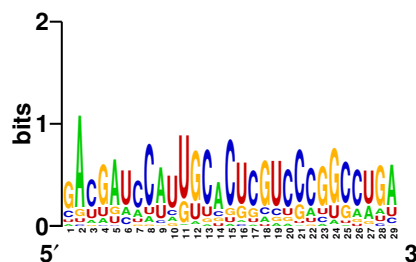
27-mers:



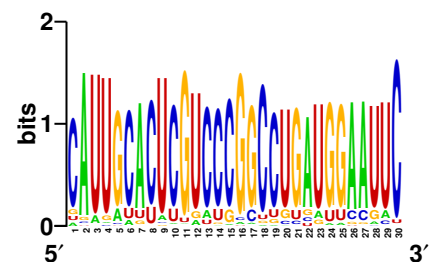
28-mers:



29-mers:

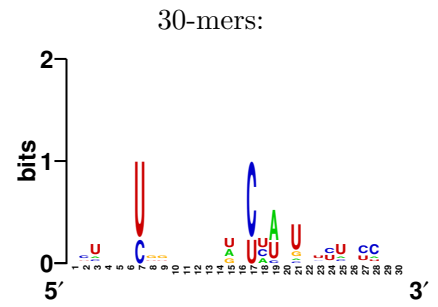
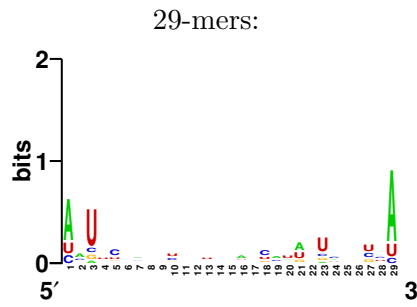
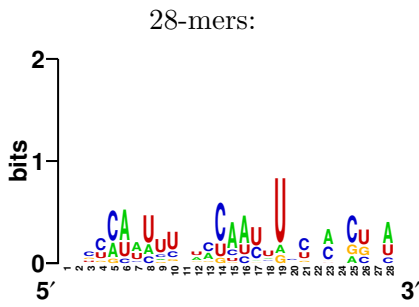
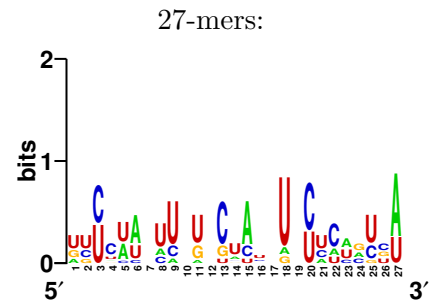
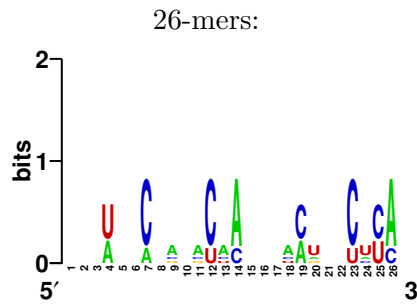
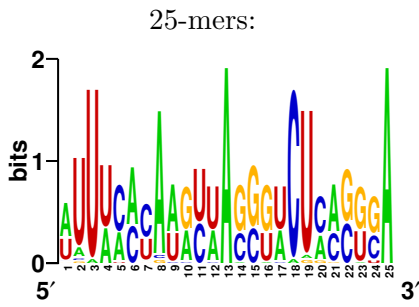
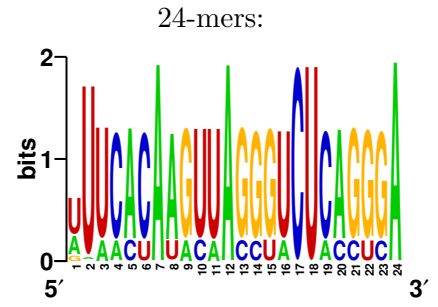
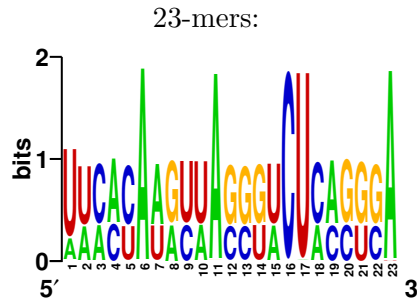
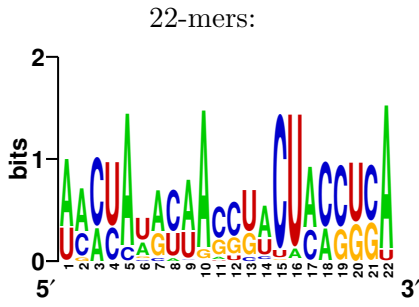
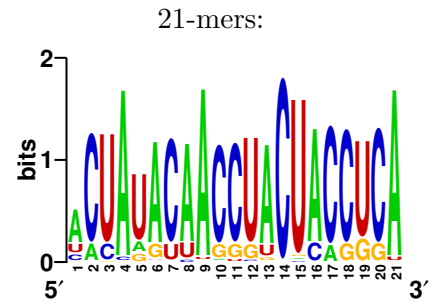
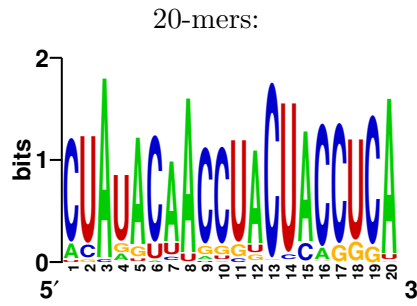
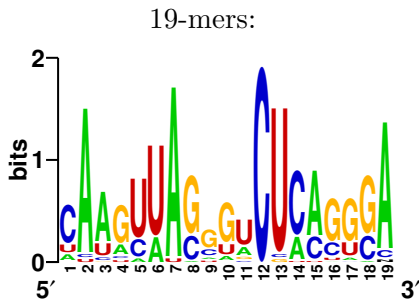
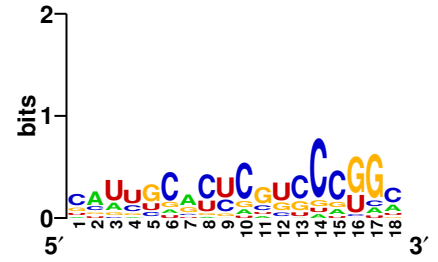


30-mers:



Antisense reads:

18-mers:

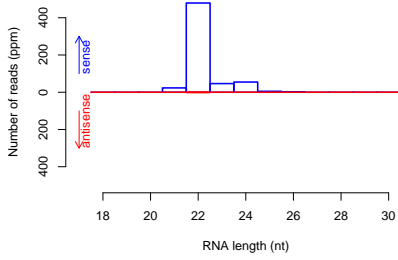


## 2.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

Embryo 8h, library 2:

Sense reads:

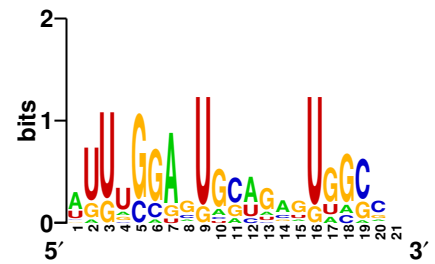
18-mers:



19-mers:

20-mers:

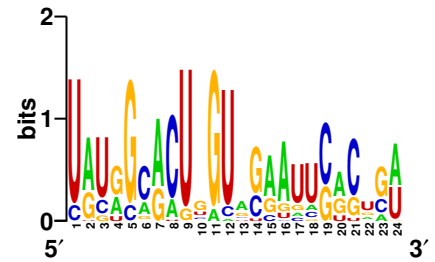
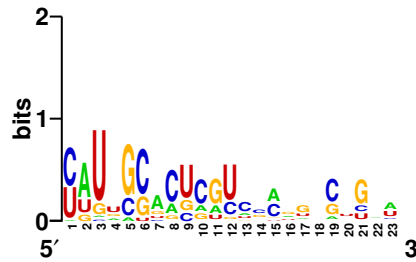
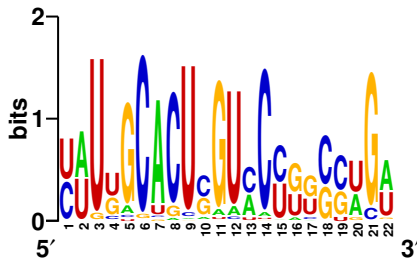
(no read)  
21-mers:



(no read)  
22-mers:

(no read)  
23-mers:

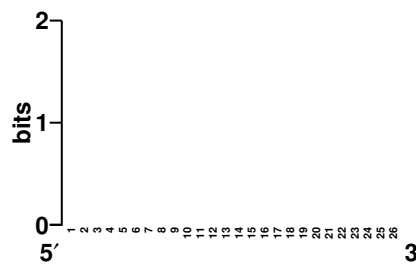
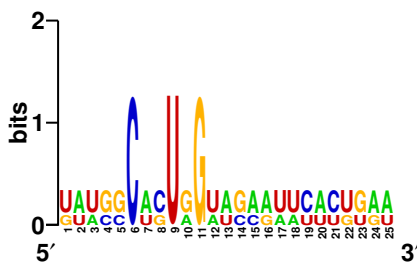
24-mers:



25-mers:

26-mers:

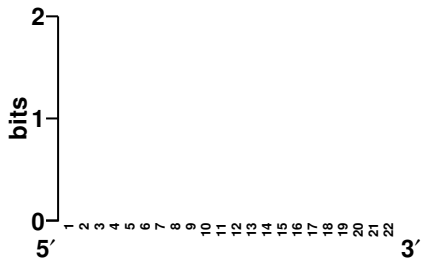
27-mers:



28-mers:  
(no read)

29-mers:  
(no read)

(no read)  
30-mers:  
(no read)



19-mers:  
(no read)  
22-mers:

Antisense reads: 18-mers:  
(no read)  
20-mers:  
(no read)  
21-mers:  
(no read)  
23-mers:  
24-mers:

25-mers:  
(no read)  
28-mers:  
(no read)

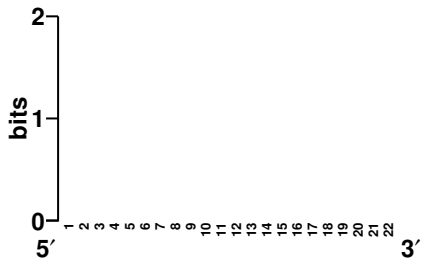
(no read) (no read)  
26-mers:  
(no read) (no read)  
27-mers:  
(no read) (no read)  
29-mers:  
(no read) (no read)  
30-mers:  
(no read)





	Antisense reads:	18-mers:
		(no read)
19-mers:	20-mers:	21-mers:
(no read)	(no read)	(no read)
22-mers:	23-mers:	24-mers:
(no read)	(no read)	(no read)
25-mers:	26-mers:	27-mers:
(no read)	(no read)	(no read)
28-mers:	29-mers:	30-mers:
(no read)	(no read)	(no read)





19-mers:  
 (no read)  
 22-mers:

Antisense reads: 18-mers:  
 (no read)  
 20-mers:  
 (no read)  
 21-mers:  
 (no read)  
 23-mers:  
 24-mers:

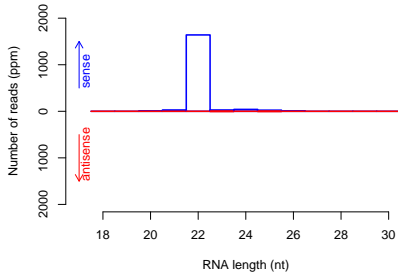
25-mers:  
 (no read)  
 28-mers:  
 (no read)

(no read) (no read)  
 26-mers:  
 (no read) (no read)  
 27-mers:  
 (no read) (no read)  
 29-mers:  
 (no read) (no read)  
 30-mers:  
 (no read) (no read)

Embryo 60h, library 2:

Sense reads:

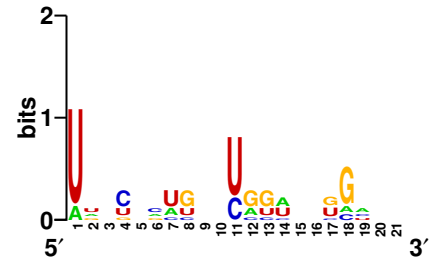
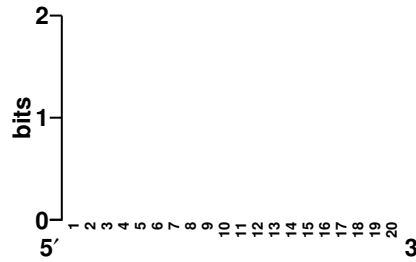
18-mers:



19-mers:

20-mers:

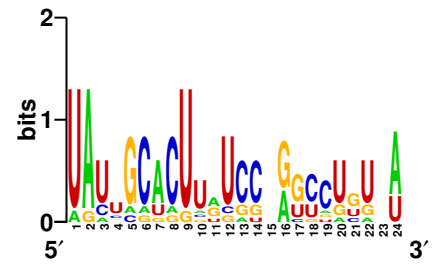
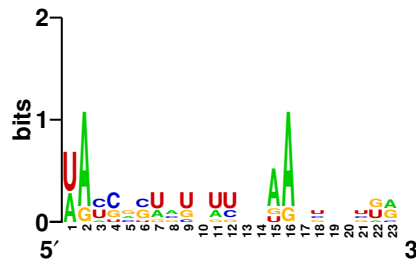
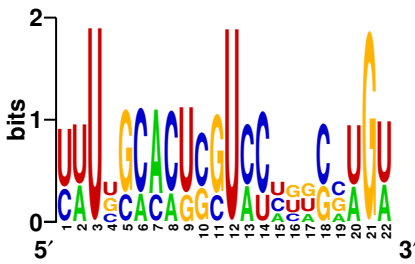
(no read)  
21-mers:



(no read)  
22-mers:

23-mers:

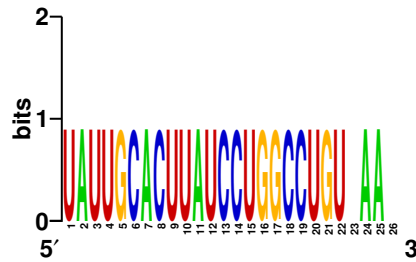
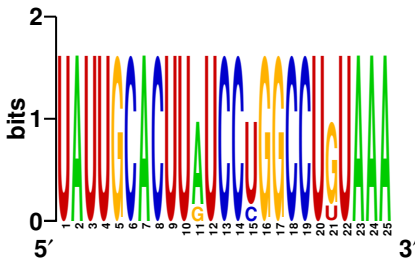
24-mers:



25-mers:

26-mers:

27-mers:



28-mers:  
(no read)

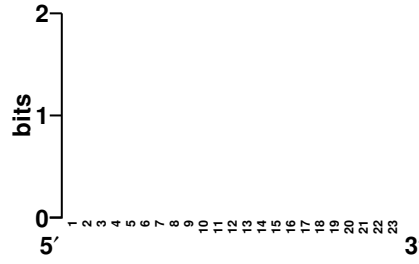
29-mers:  
(no read)

(no read)  
30-mers:  
(no read)

19-mers:  
(no read)  
22-mers:

Antisense reads:  
20-mers:  
(no read)  
23-mers:

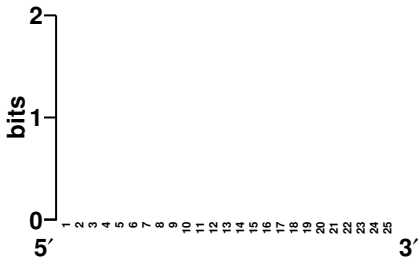
18-mers:  
(no read)  
21-mers:  
(no read)  
24-mers:



(no read)  
25-mers:

26-mers:

(no read)  
27-mers:

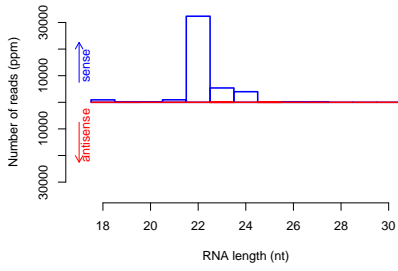


28-mers:  
(no read)

(no read)  
29-mers:  
(no read)

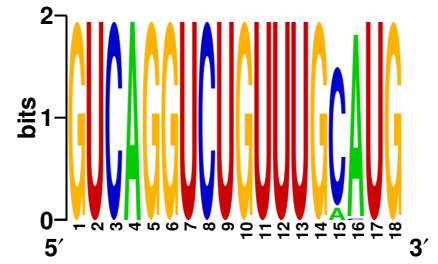
(no read)  
30-mers:  
(no read)

Adult female, library 2:

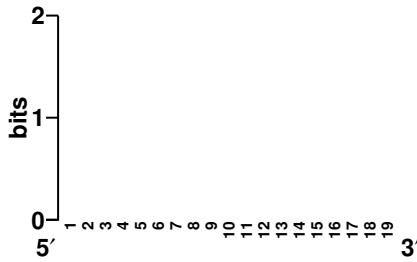


Sense reads:

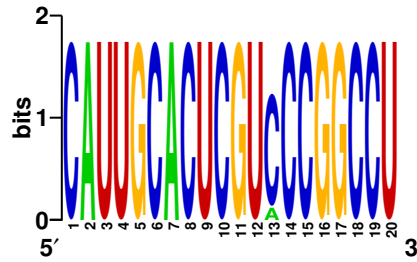
18-mers:



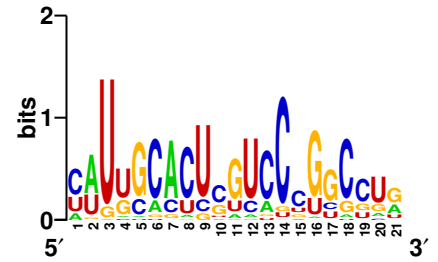
19-mers:



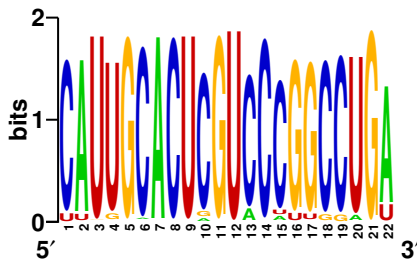
20-mers:



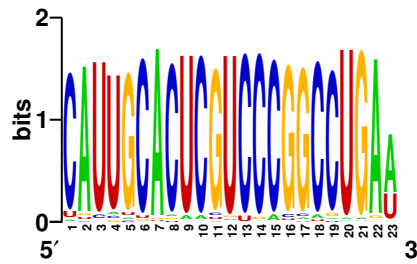
21-mers:



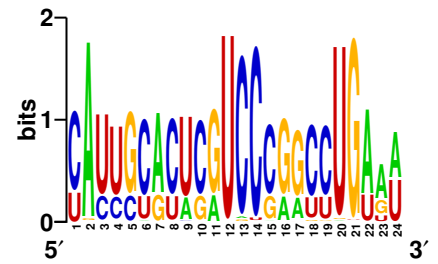
22-mers:



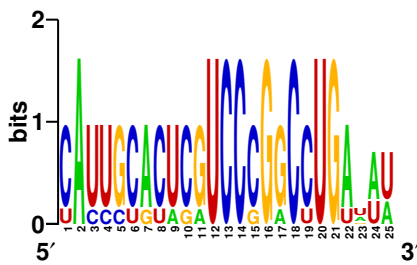
23-mers:



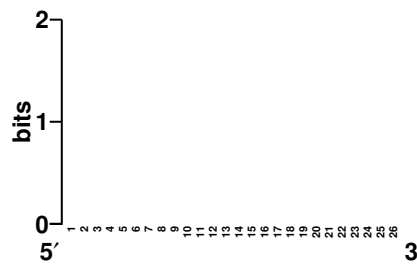
24-mers:



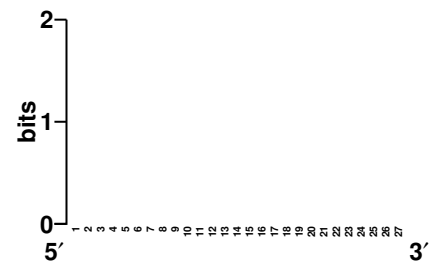
25-mers:



26-mers:



27-mers:



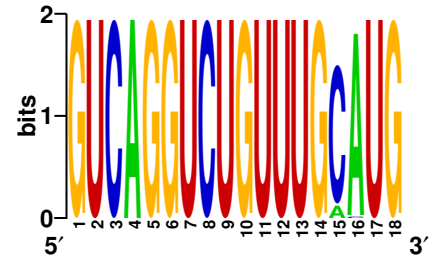
28-mers:  
(no read)

29-mers:  
(no read)

30-mers:  
(no read)

Antisense reads:

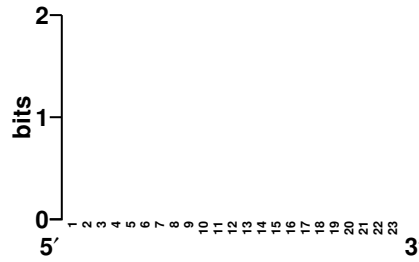
18-mers:



19-mers:  
(no read)  
22-mers:

20-mers:  
(no read)  
23-mers:

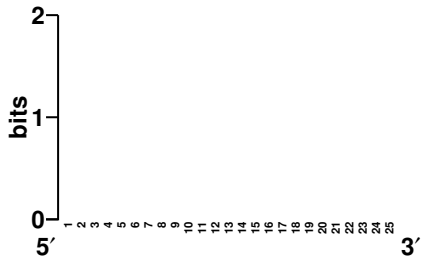
21-mers:  
(no read)  
24-mers:



(no read)  
25-mers:

26-mers:

(no read)  
27-mers:



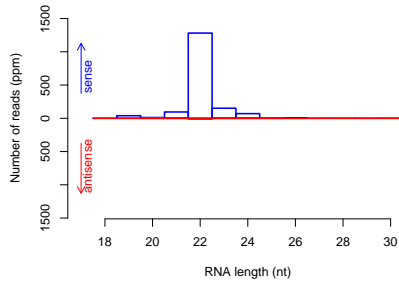
28-mers:  
(no read)

(no read)  
29-mers:  
(no read)

(no read)  
30-mers:  
(no read)



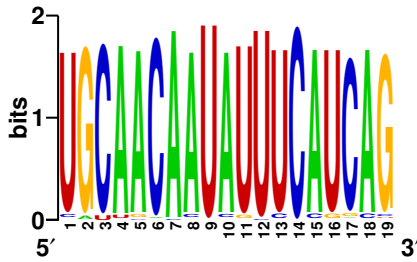
Adult male, library 2:



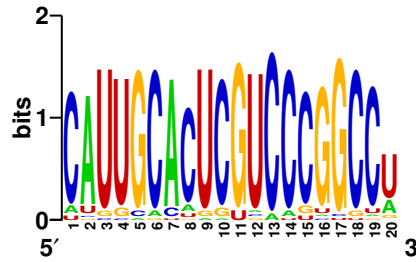
Sense reads:

18-mers:

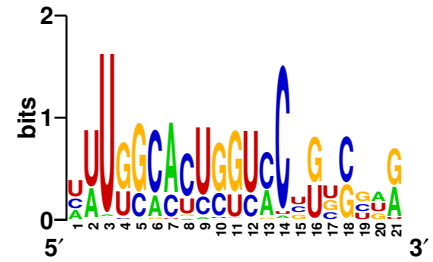
19-mers:



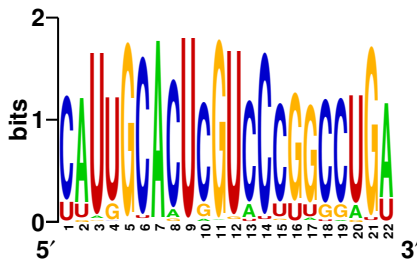
20-mers:



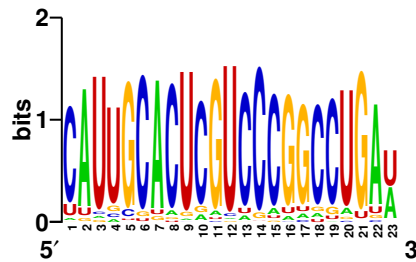
(no read)  
21-mers:



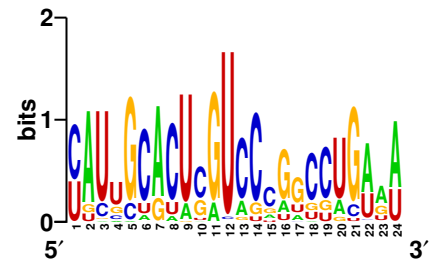
22-mers:



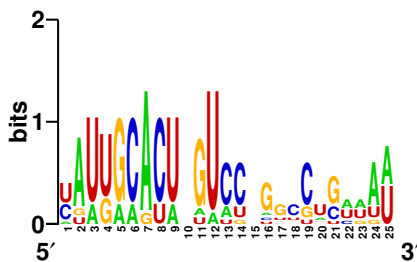
23-mers:



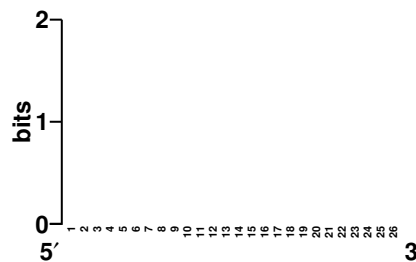
24-mers:



25-mers:



26-mers:



27-mers:

28-mers:  
(no read)

29-mers:  
(no read)

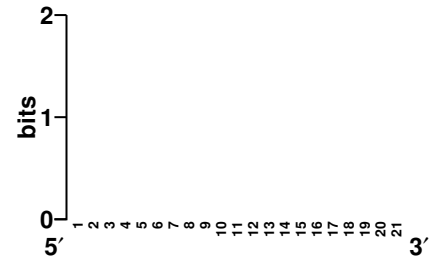
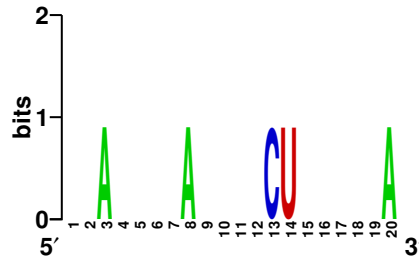
(no read)  
30-mers:  
(no read)

Antisense reads:

19-mers:

20-mers:

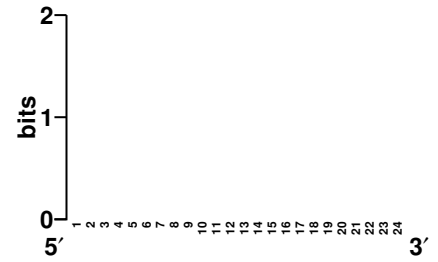
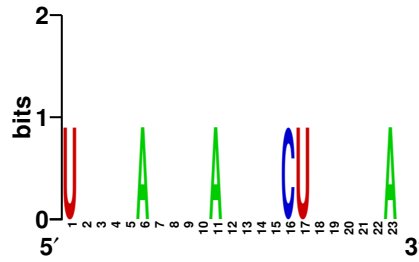
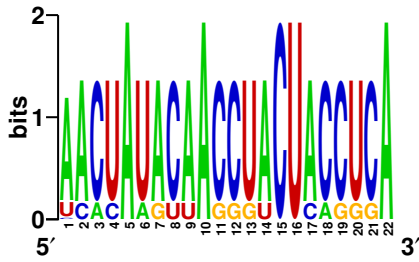
18-mers:  
(no read)  
21-mers:



(no read)  
22-mers:

23-mers:

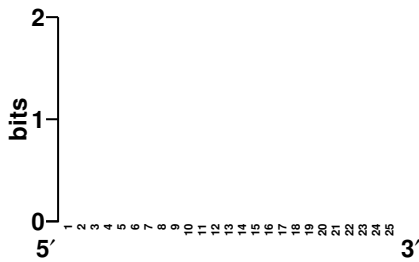
24-mers:



25-mers:

26-mers:

27-mers:



28-mers:  
(no read)

(no read)  
29-mers:  
(no read)

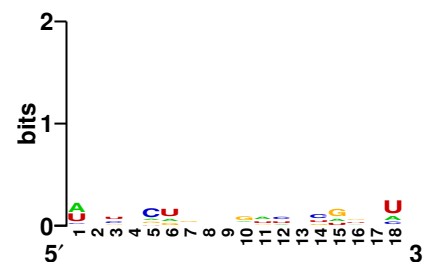
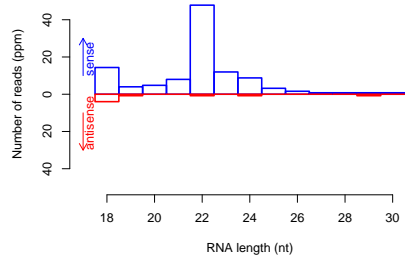
(no read)  
30-mers:  
(no read)

## 2.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 3:

Sense reads:

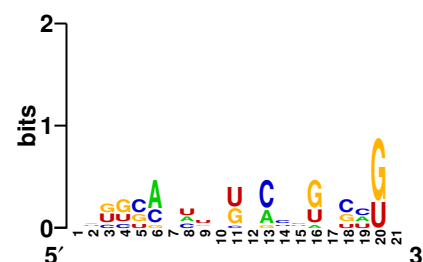
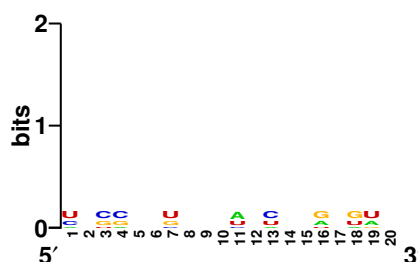
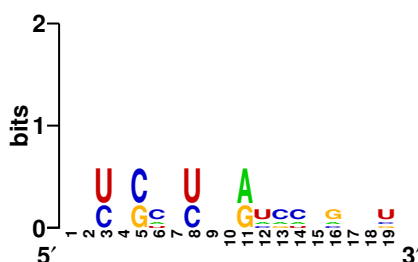
18-mers:



19-mers:

20-mers:

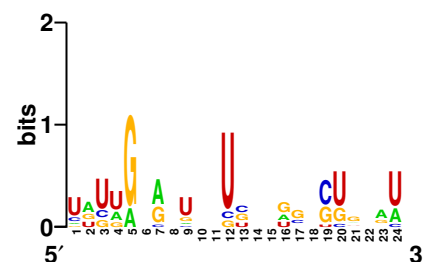
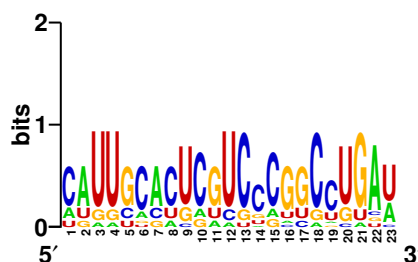
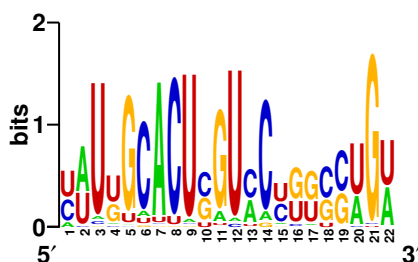
21-mers:



22-mers:

23-mers:

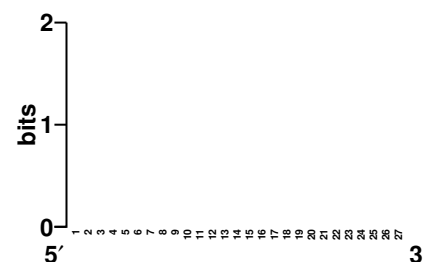
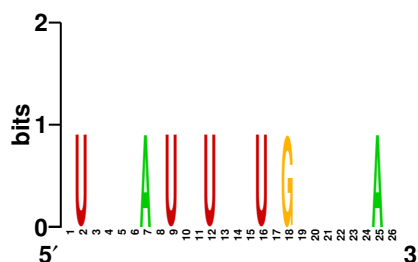
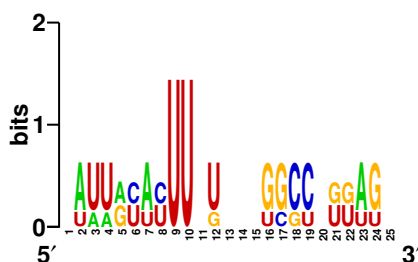
24-mers:



25-mers:

26-mers:

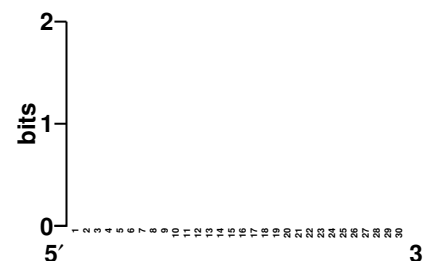
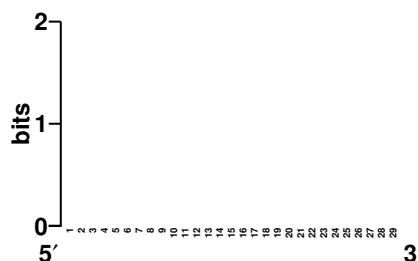
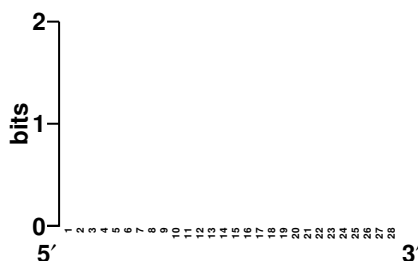
27-mers:



28-mers:

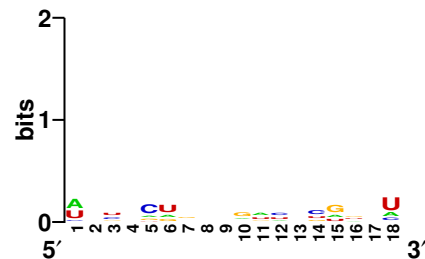
29-mers:

30-mers:

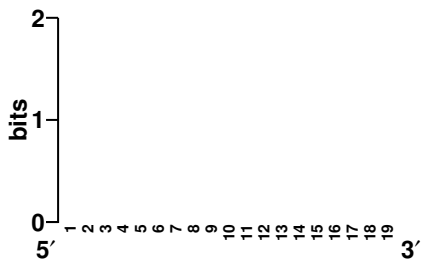


Antisense reads:

18-mers:



19-mers:



20-mers:

(no read)

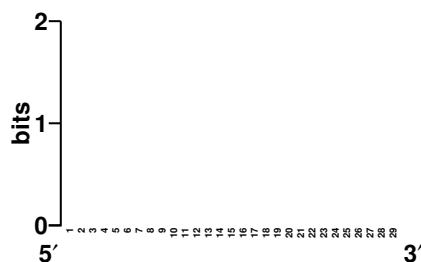
23-mers:

(no read)

26-mers:

(no read)

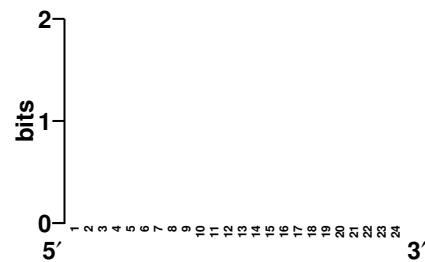
29-mers:



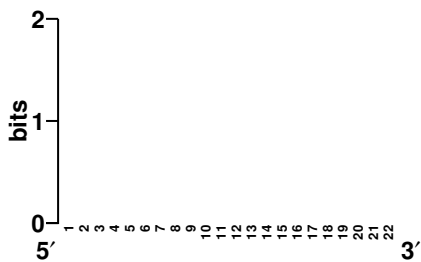
21-mers:

(no read)

24-mers:



22-mers:



25-mers:

(no read)

28-mers:

(no read)

27-mers:

(no read)

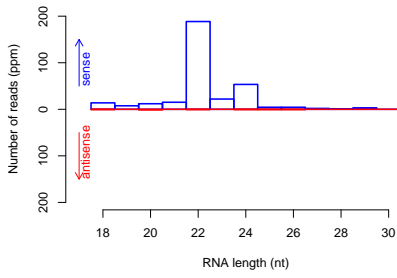
30-mers:

(no read)

Embryo 15h, library 3:

Sense reads:

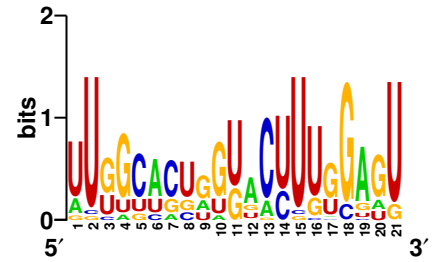
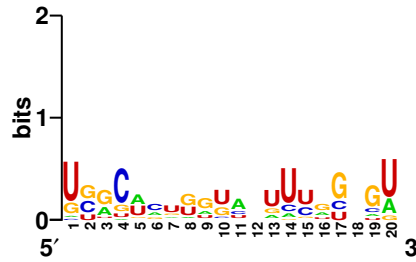
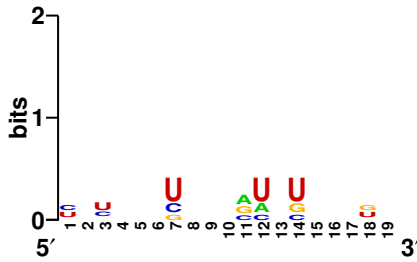
18-mers:



19-mers:

20-mers:

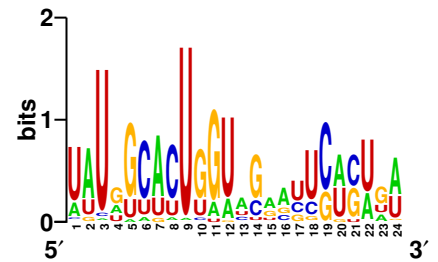
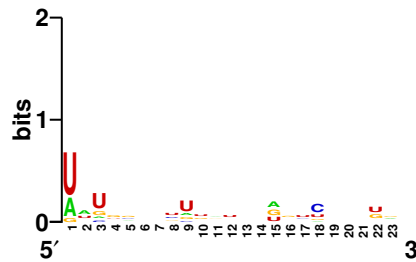
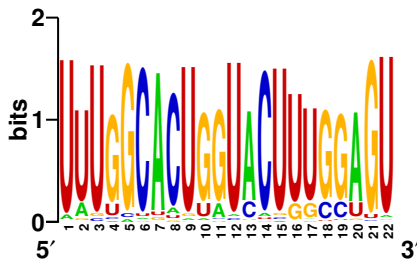
21-mers:



22-mers:

23-mers:

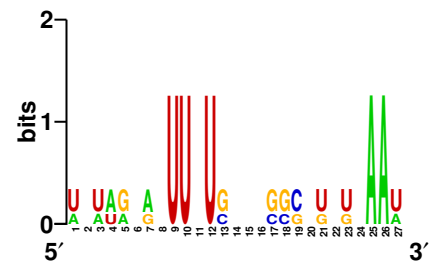
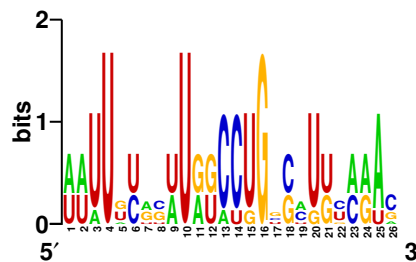
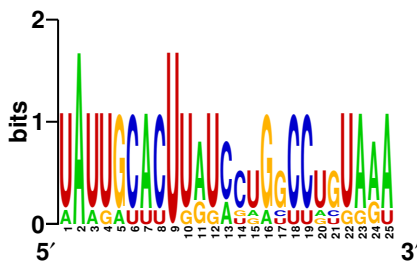
24-mers:



25-mers:

26-mers:

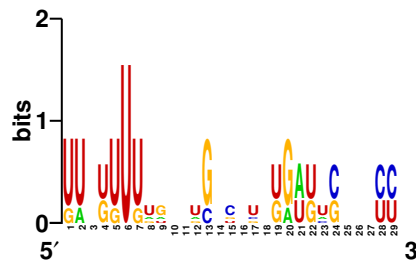
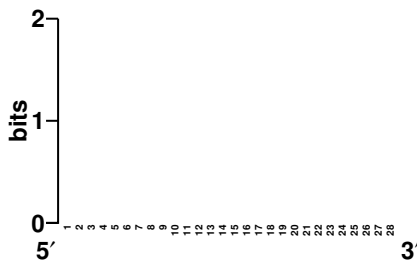
27-mers:



28-mers:

29-mers:

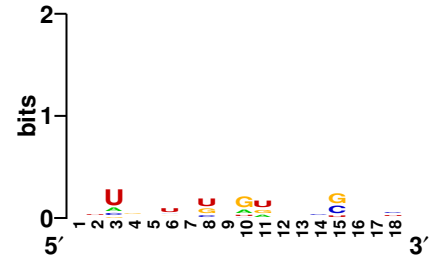
30-mers:



(no read)

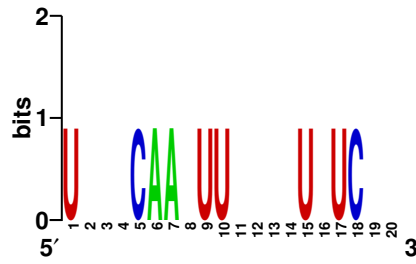
Antisense reads:

18-mers:



19-mers:

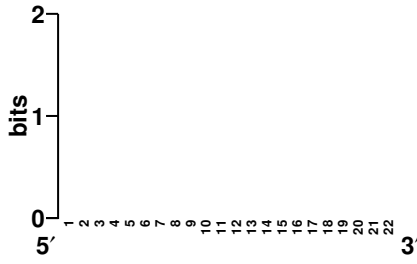
20-mers:



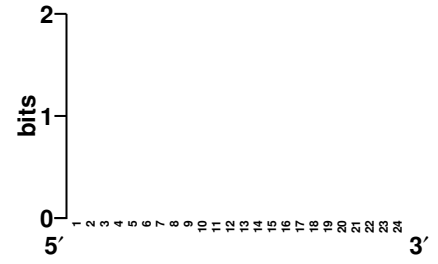
21-mers:

(no read)  
22-mers:

23-mers:

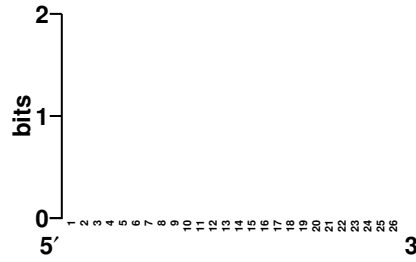
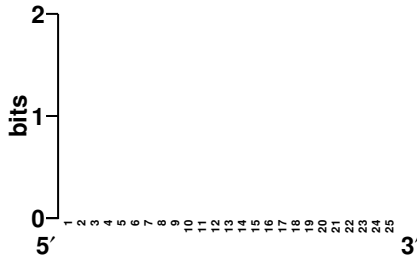


(no read)  
24-mers:



25-mers:

(no read)  
26-mers:



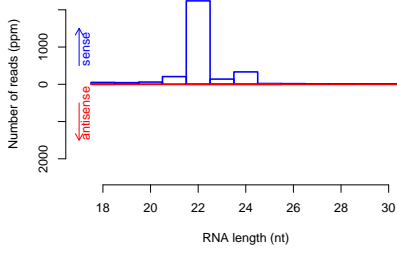
27-mers:

28-mers:  
(no read)

29-mers:  
(no read)

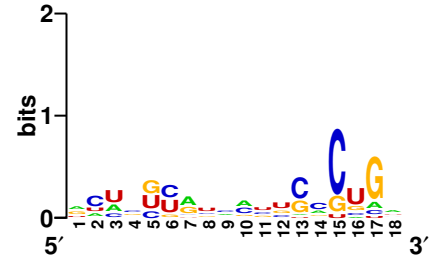
(no read)  
30-mers:  
(no read)

Embryo 36h, library 3:

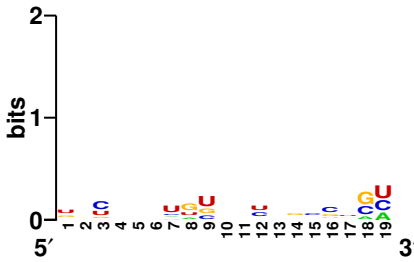


Sense reads:

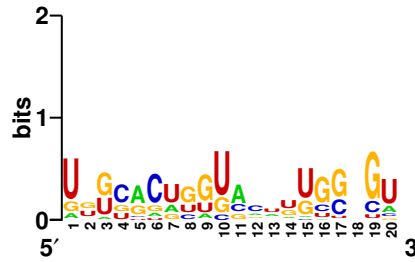
18-mers:



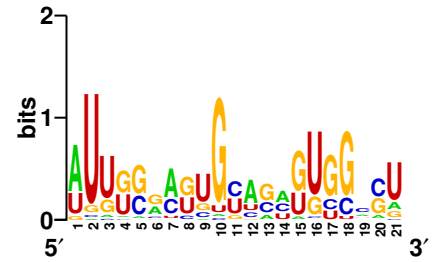
19-mers:



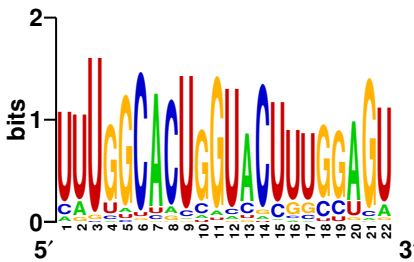
20-mers:



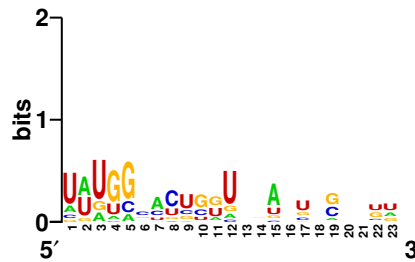
21-mers:



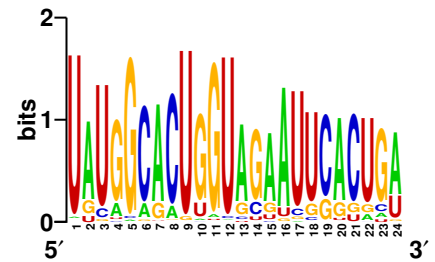
22-mers:



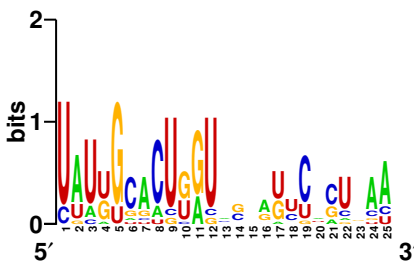
23-mers:



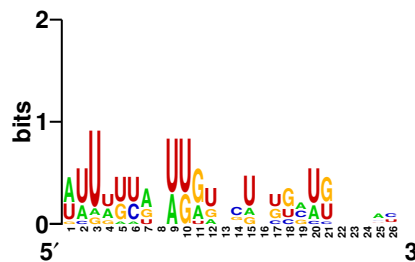
24-mers:



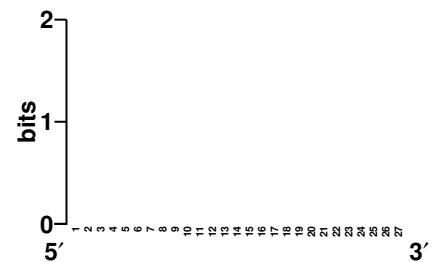
25-mers:



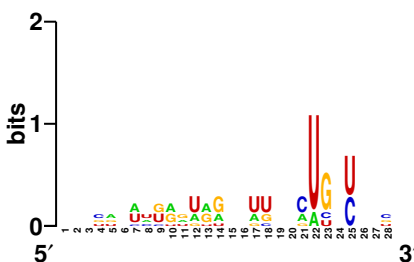
26-mers:



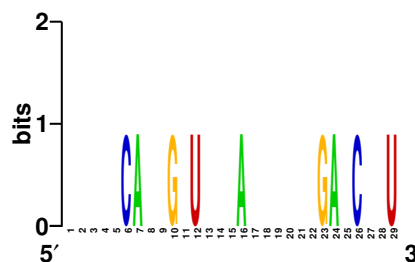
27-mers:



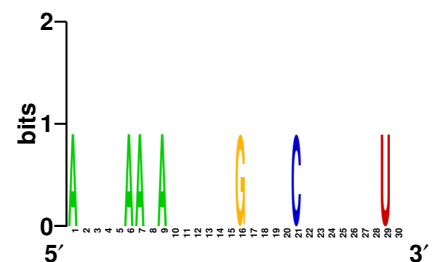
28-mers:



29-mers:



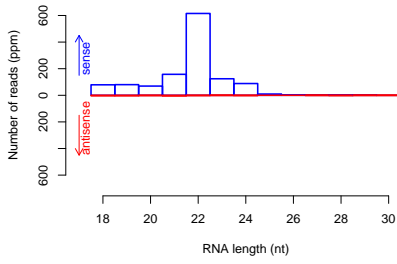
30-mers:





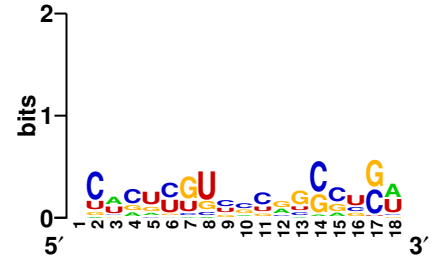


Embryo 60h, library 3:

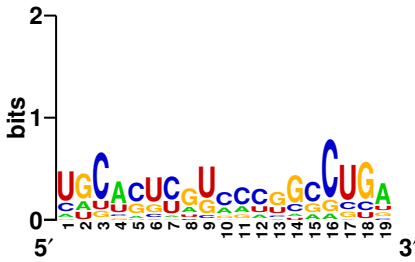


Sense reads:

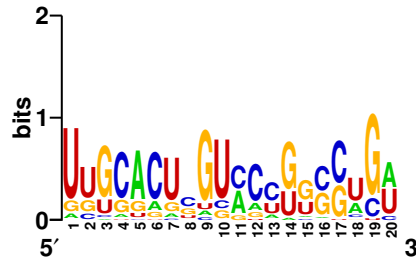
18-mers:



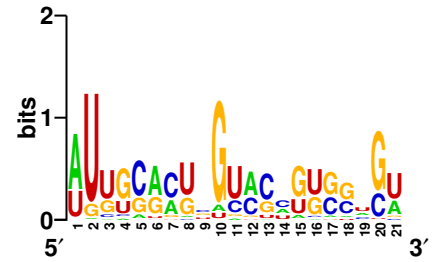
19-mers:



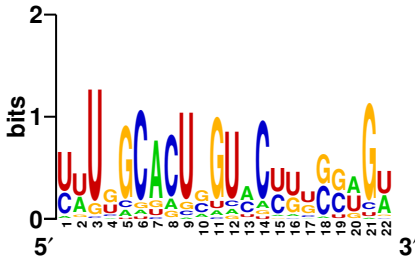
20-mers:



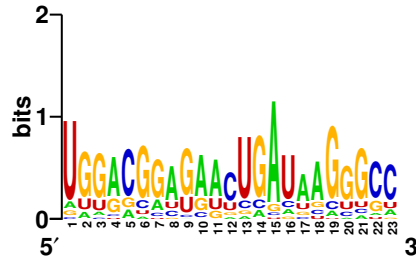
21-mers:



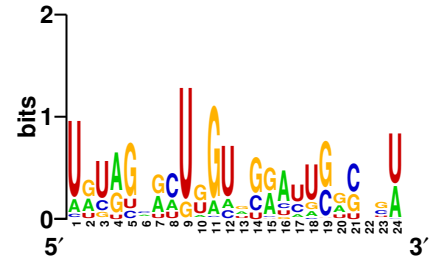
22-mers:



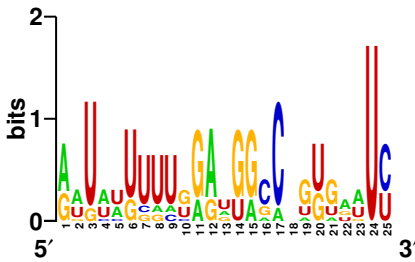
23-mers:



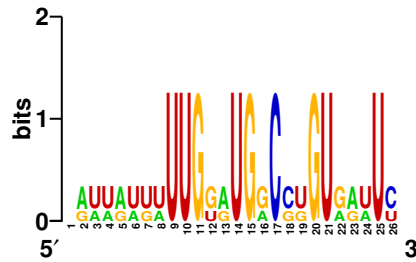
24-mers:



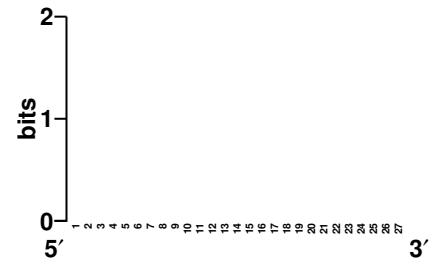
25-mers:



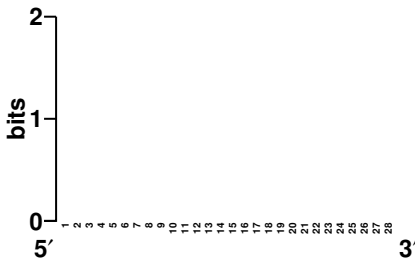
26-mers:



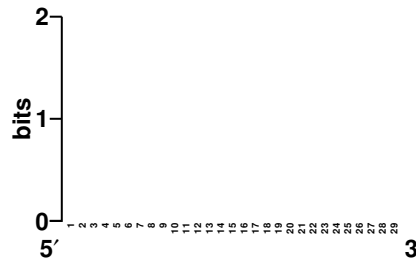
27-mers:



28-mers:



29-mers:

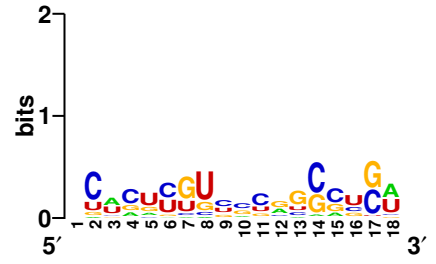


30-mers:

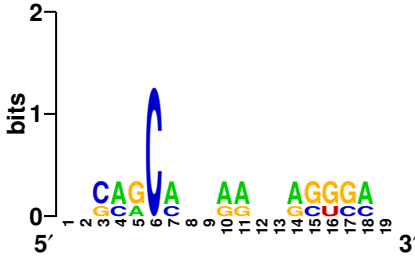
(no read)

Antisense reads:

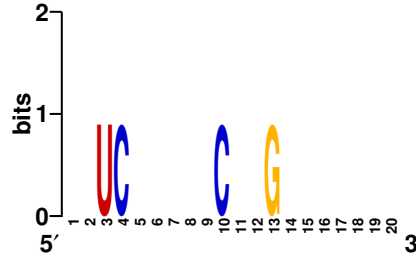
18-mers:



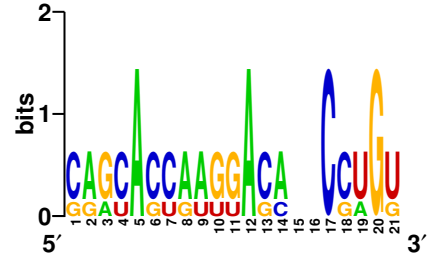
19-mers:



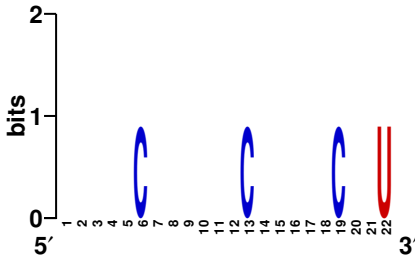
20-mers:



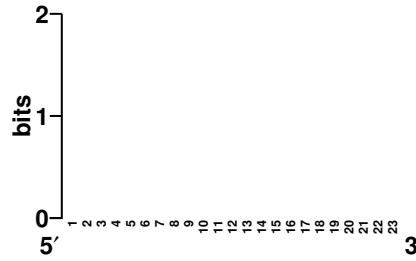
21-mers:



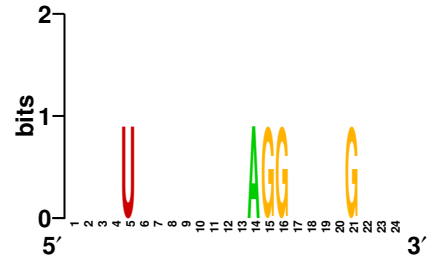
22-mers:



23-mers:



24-mers:



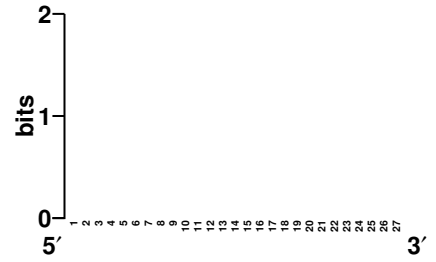
25-mers:



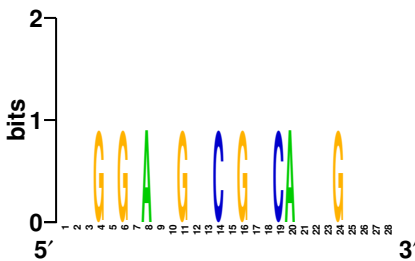
26-mers:



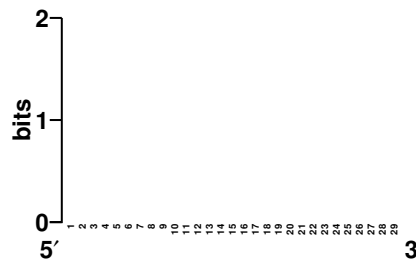
27-mers:



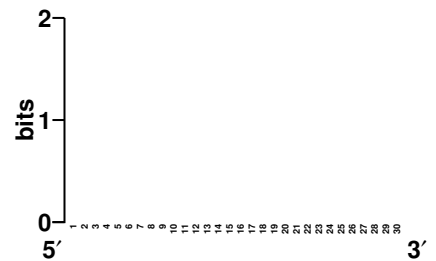
(no read)  
28-mers:



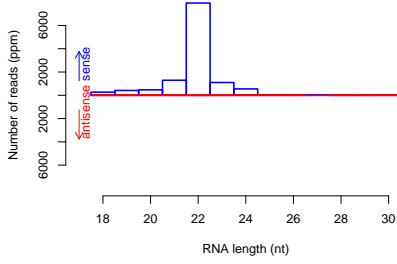
(no read)  
29-mers:



30-mers:

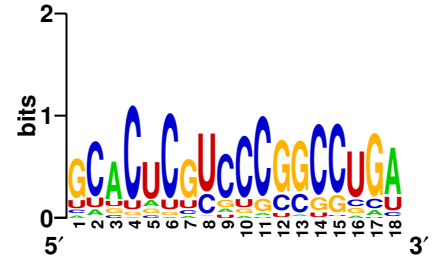


Adult female, library 3:

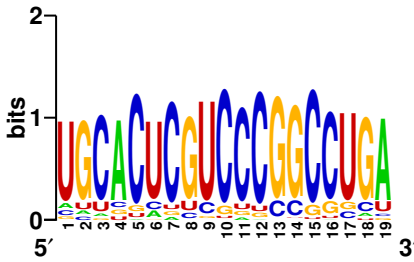


Sense reads:

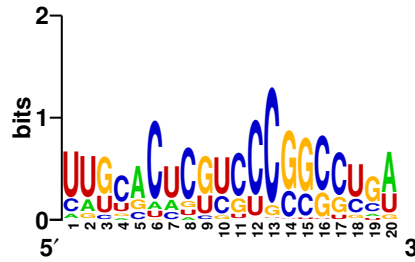
18-mers:



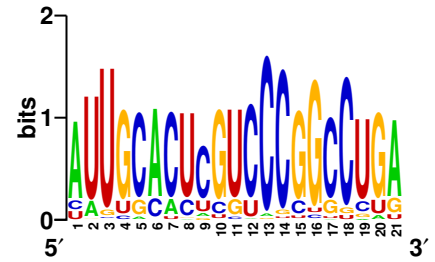
19-mers:



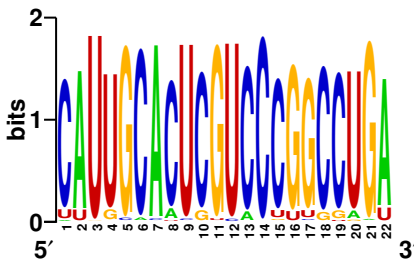
20-mers:



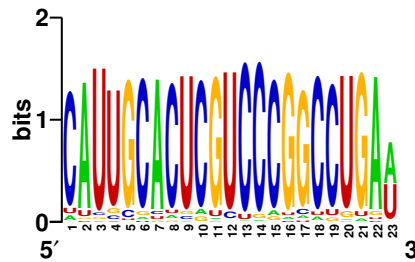
21-mers:



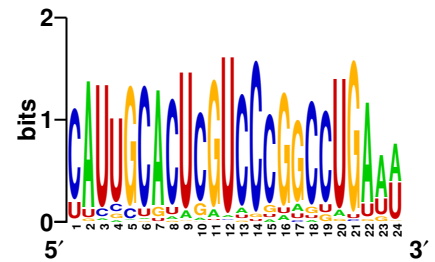
22-mers:



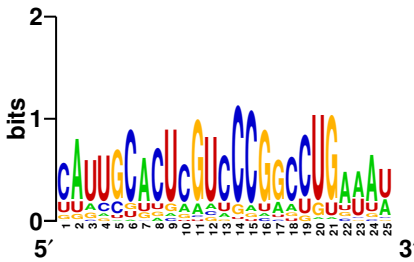
23-mers:



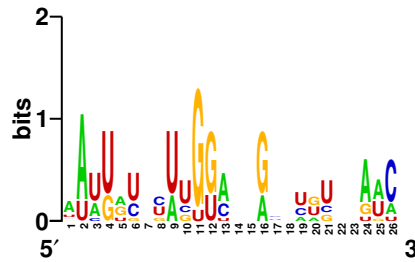
24-mers:



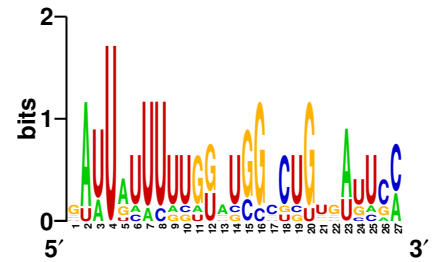
25-mers:



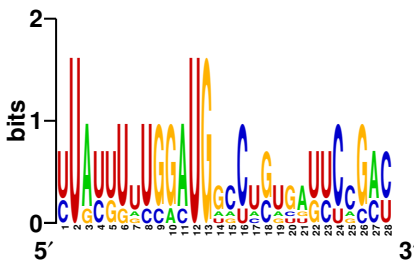
26-mers:



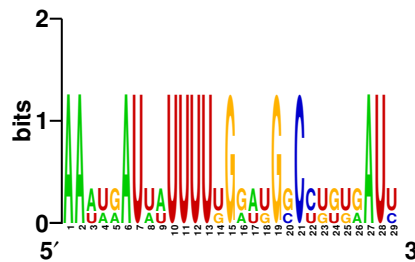
27-mers:



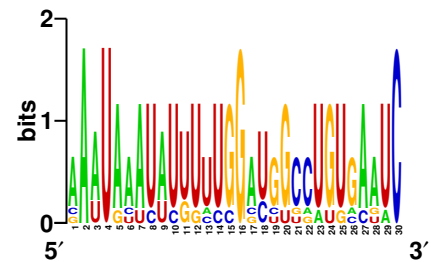
28-mers:



29-mers:

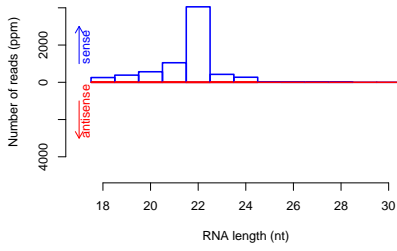


30-mers:



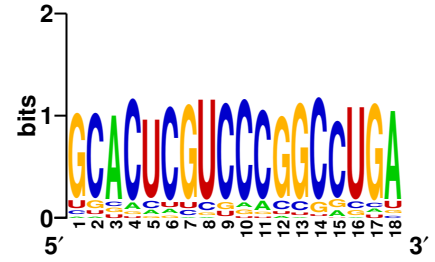


Adult male, library 3:

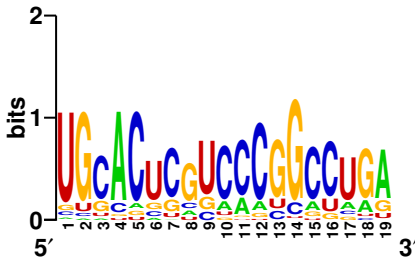


Sense reads:

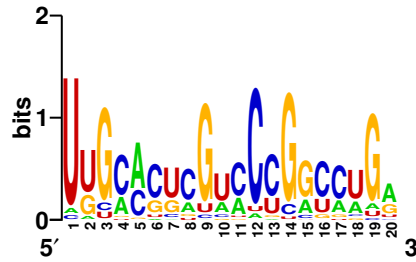
18-mers:



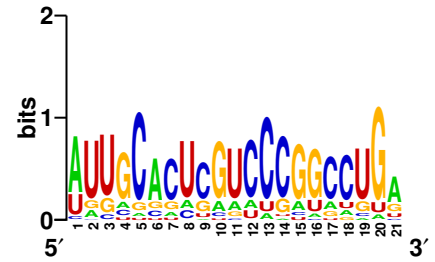
19-mers:



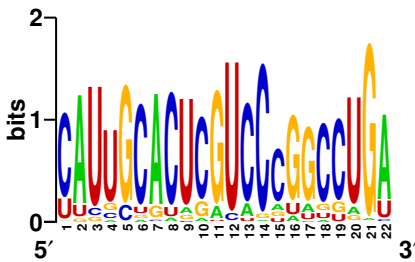
20-mers:



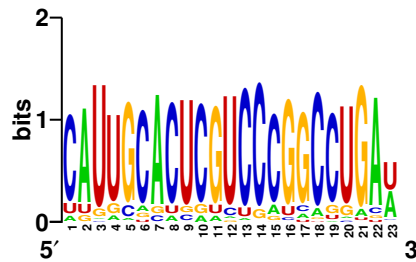
21-mers:



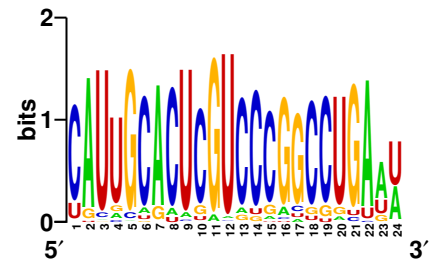
22-mers:



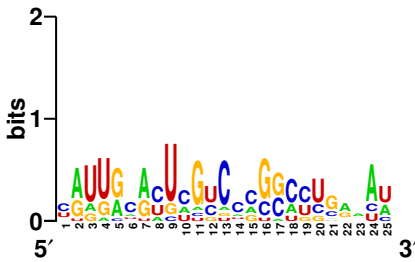
23-mers:



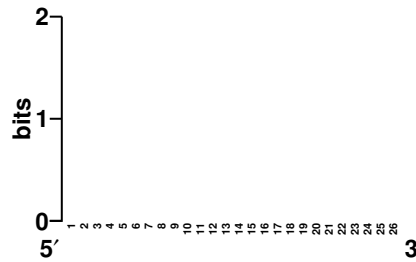
24-mers:



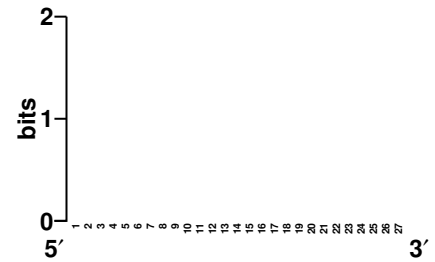
25-mers:



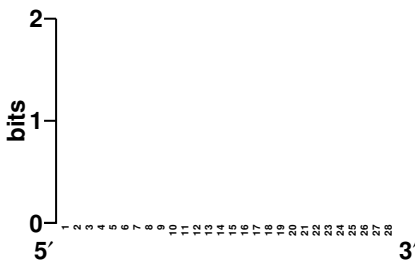
26-mers:



27-mers:



28-mers:



29-mers:

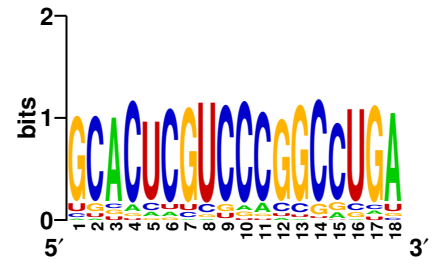
(no read)

30-mers:

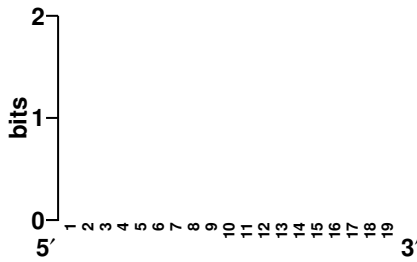
(no read)

Antisense reads:

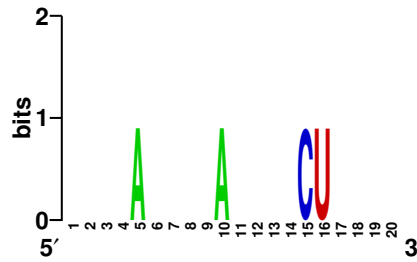
18-mers:



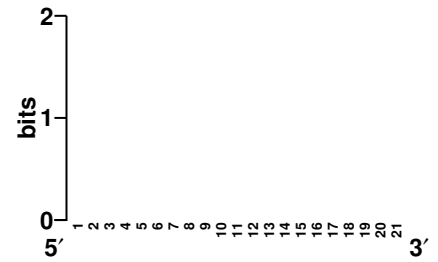
19-mers:



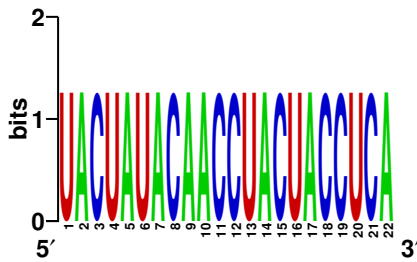
20-mers:



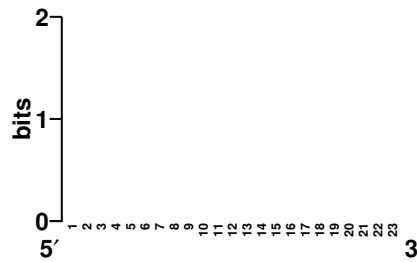
21-mers:



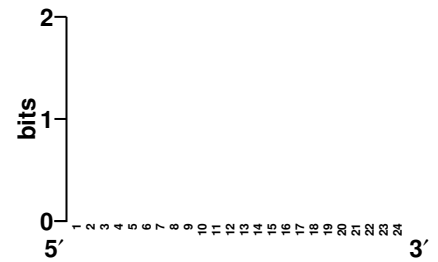
22-mers:



23-mers:



24-mers:



25-mers:  
(no read)

26-mers:  
(no read)

27-mers:  
(no read)

28-mers:  
(no read)

29-mers:  
(no read)

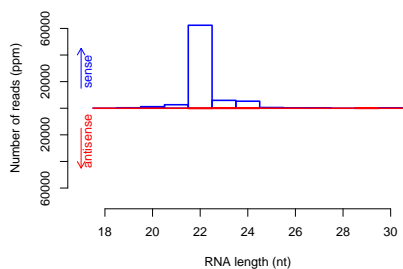
30-mers:  
(no read)

## 2.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

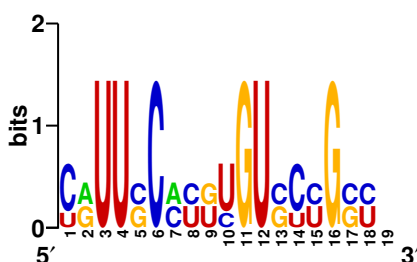
Embryo 8h, library 4:

Sense reads:

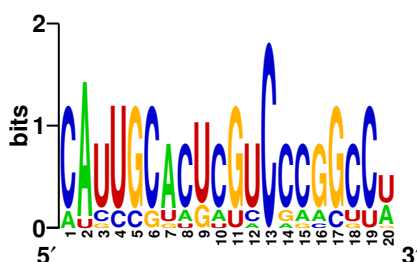
18-mers:



19-mers:

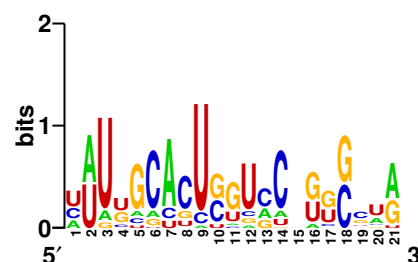


20-mers:

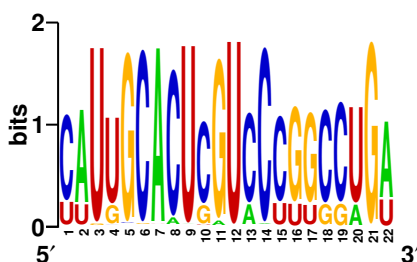


(no read)

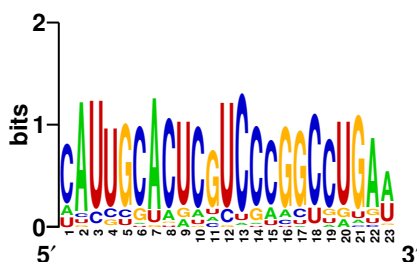
21-mers:



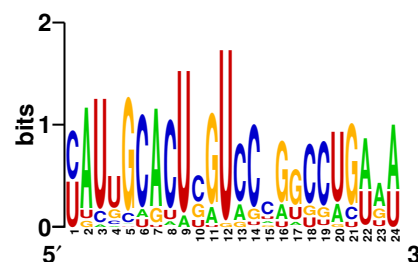
22-mers:



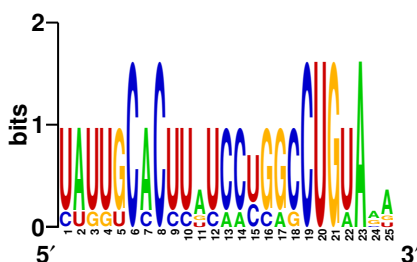
23-mers:



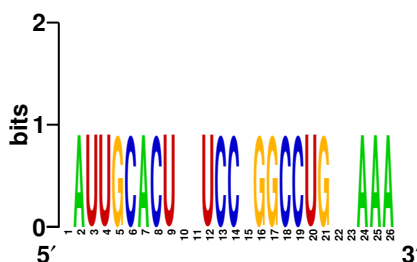
24-mers:



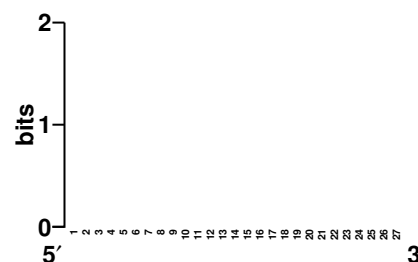
25-mers:



26-mers:



27-mers:



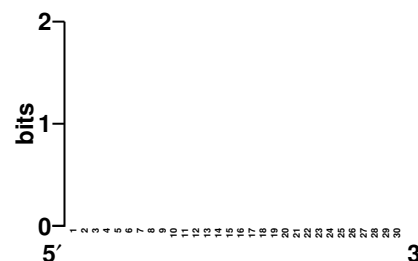
28-mers:

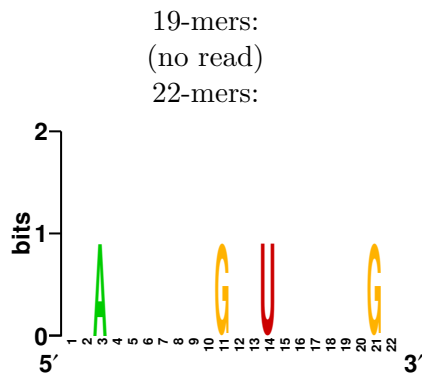
(no read)

29-mers:

(no read)

30-mers:

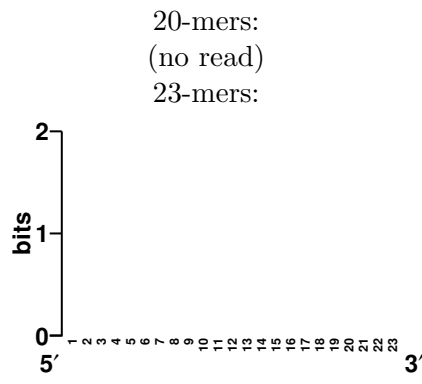




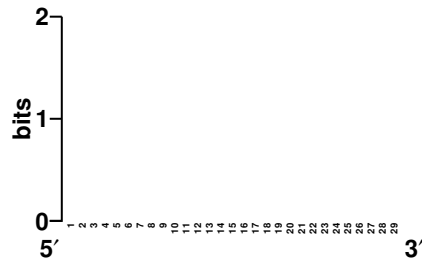
25-mers:  
(no read)  
28-mers:

(no read)

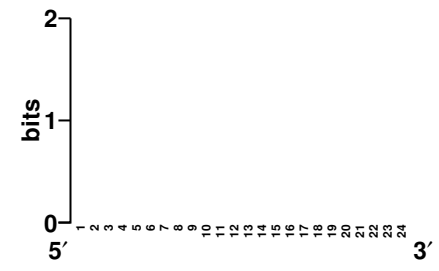
Antisense reads:



26-mers:  
(no read)  
29-mers:



18-mers:  
(no read)  
21-mers:  
(no read)  
24-mers:

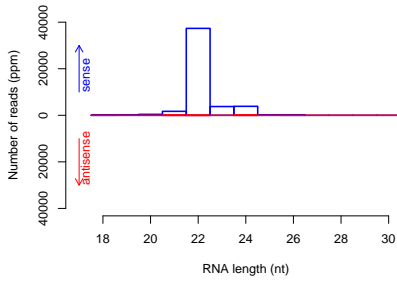


27-mers:  
(no read)  
30-mers:

(no read)



Embryo 15h, library 4:

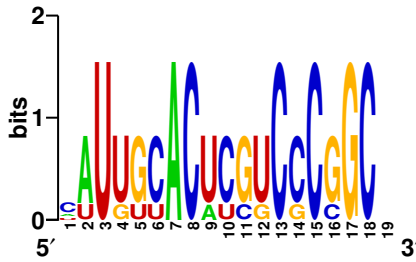


Sense reads:

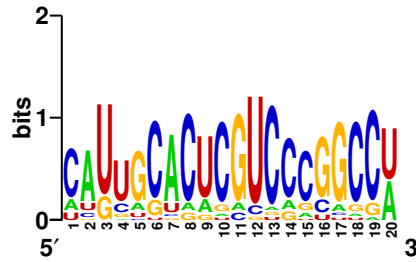
18-mers:



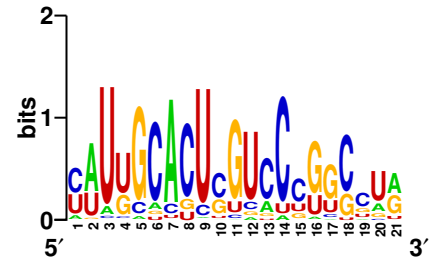
19-mers:



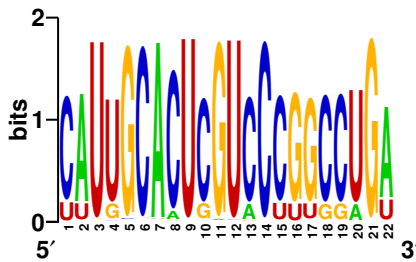
20-mers:



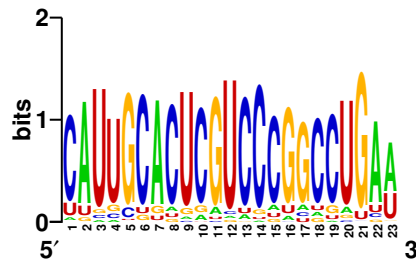
21-mers:



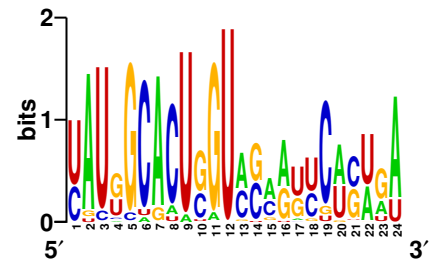
22-mers:



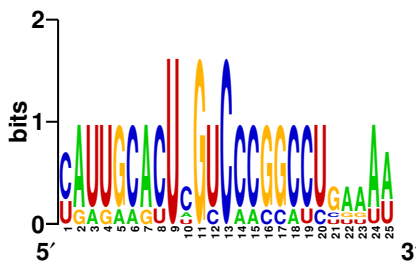
23-mers:



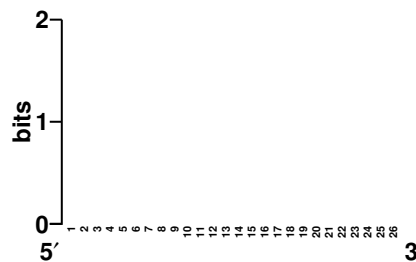
24-mers:



25-mers:



26-mers:



27-mers:

(no read)

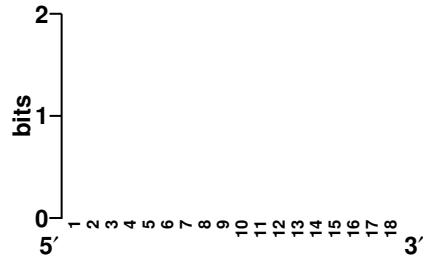
28-mers:  
(no read)

29-mers:  
(no read)

30-mers:  
(no read)

Antisense reads:

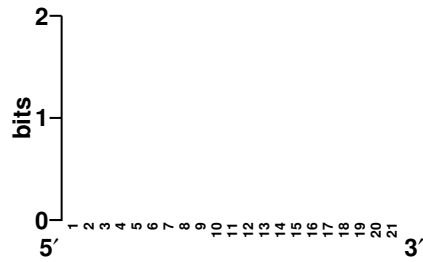
18-mers:



19-mers:

20-mers:

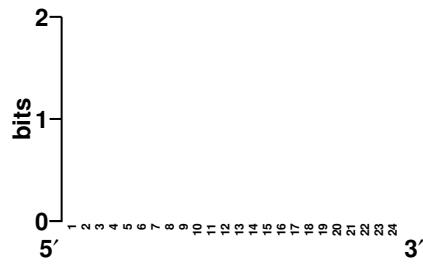
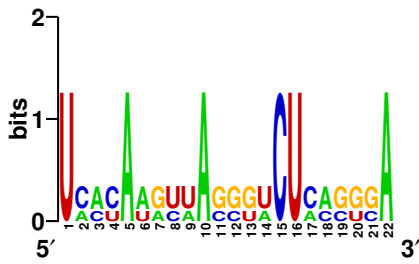
21-mers:



(no read)  
22-mers:

(no read)  
23-mers:

24-mers:

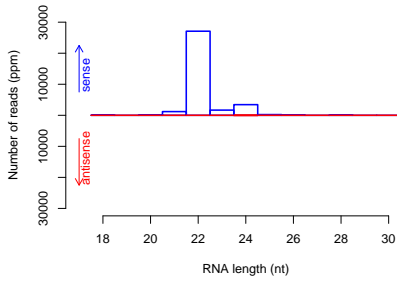


25-mers:  
(no read)  
28-mers:  
(no read)

(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

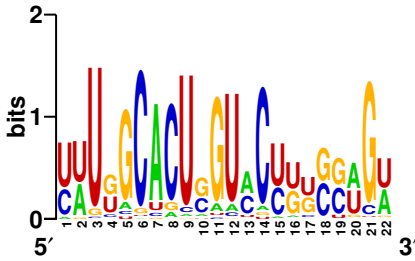
27-mers:  
(no read)  
30-mers:  
(no read)

Embryo 36h, library 4:

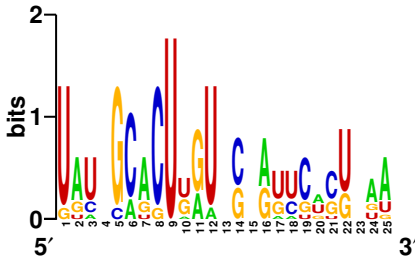


19-mers:

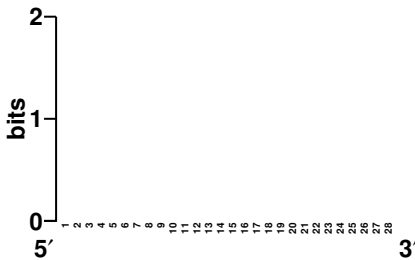
(no read)  
22-mers:



25-mers:

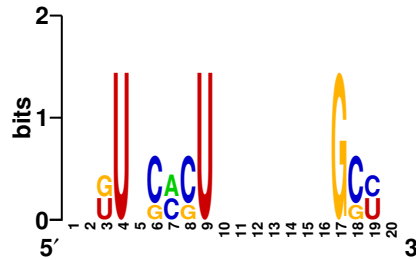


28-mers:

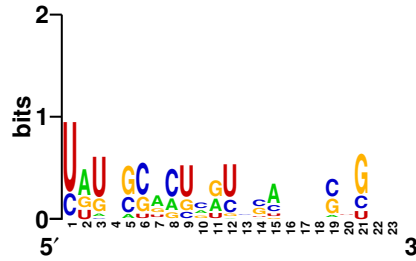


Sense reads:

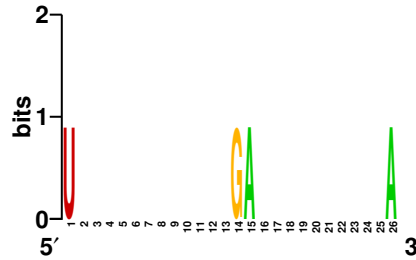
20-mers:



23-mers:



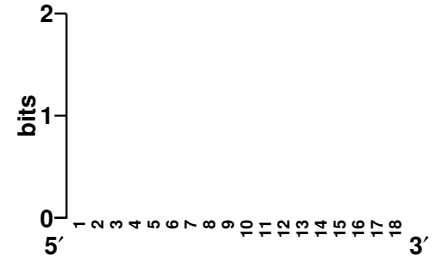
26-mers:



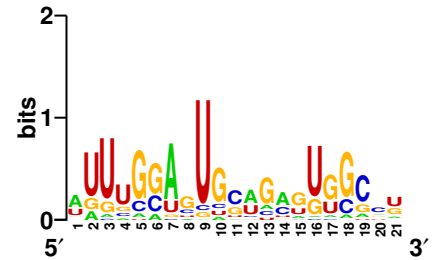
29-mers:

(no read)

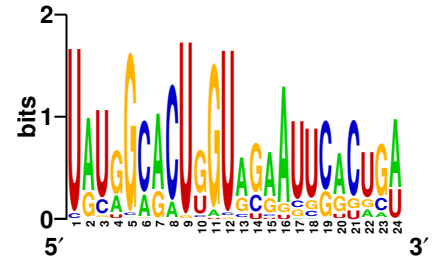
18-mers:



21-mers:



24-mers:



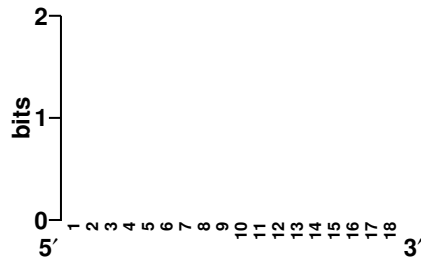
27-mers:

(no read)  
30-mers:

(no read)

Antisense reads:

18-mers:



19-mers:  
(no read)

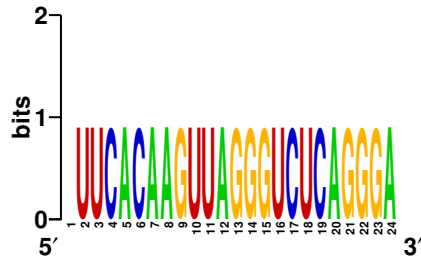
20-mers:  
(no read)

21-mers:  
(no read)

22-mers:

23-mers:

24-mers:



(no read)

(no read)

25-mers:

26-mers:

27-mers:

(no read)

(no read)

(no read)

28-mers:

29-mers:

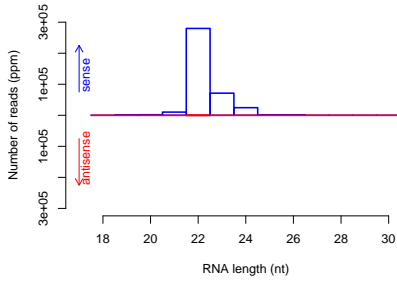
30-mers:

(no read)

(no read)

(no read)

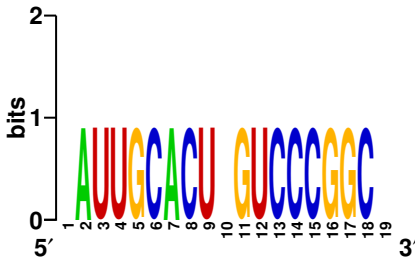
Embryo 60h, library 4:



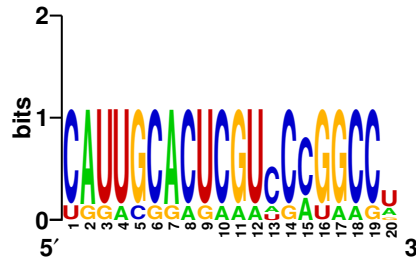
Sense reads:

18-mers:

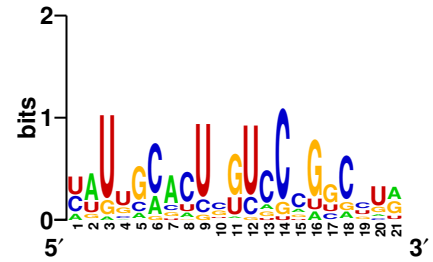
19-mers:



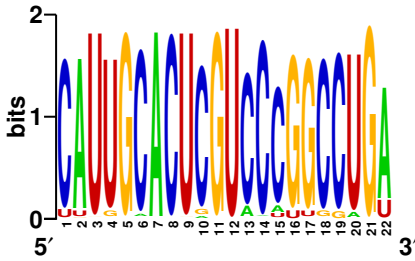
20-mers:



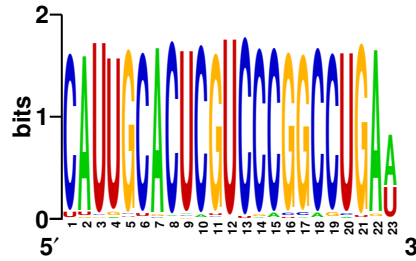
(no read)  
21-mers:



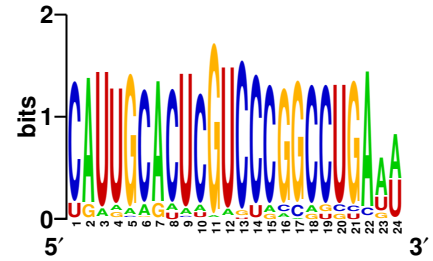
22-mers:



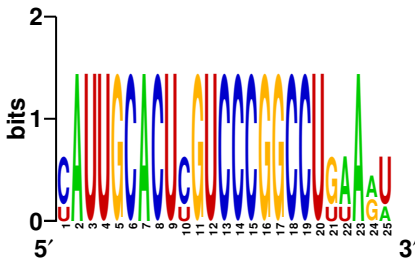
23-mers:



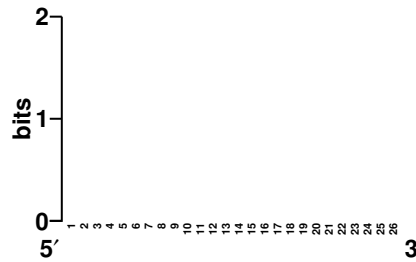
24-mers:



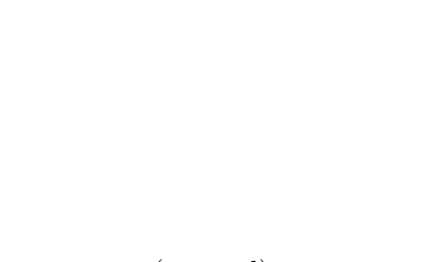
25-mers:



26-mers:



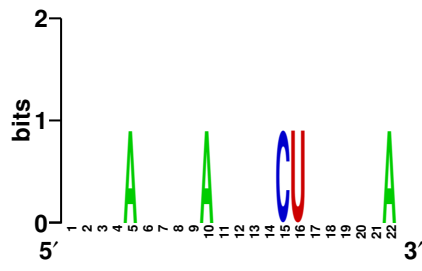
27-mers:



28-mers:  
(no read)

29-mers:  
(no read)

(no read)  
30-mers:  
(no read)



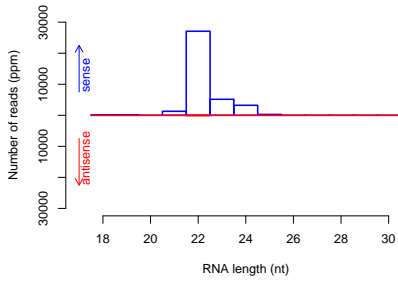
19-mers:  
(no read)  
22-mers:

Antisense reads: 18-mers:  
(no read)  
20-mers: 21-mers:  
(no read) (no read)  
23-mers: 24-mers:

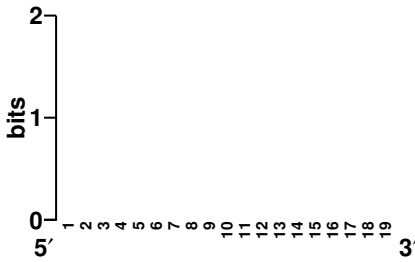
25-mers:  
(no read)  
28-mers:  
(no read)

(no read) (no read)  
26-mers: 27-mers:  
(no read) (no read)  
29-mers: 30-mers:  
(no read) (no read)

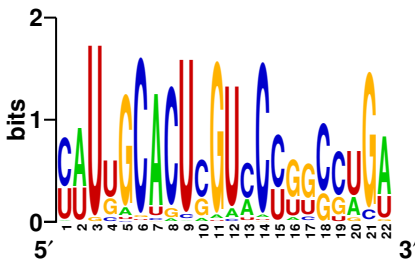
Adult female, library 4:



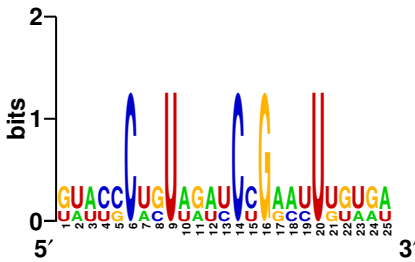
19-mers:



22-mers:



25-mers:

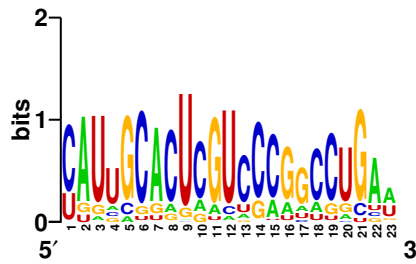


28-mers:  
(no read)

Sense reads:

20-mers:

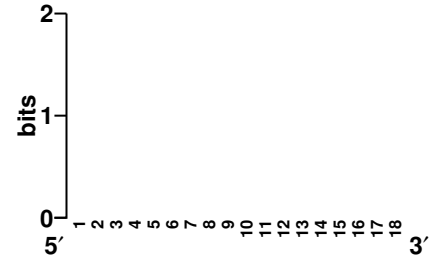
(no read)  
23-mers:



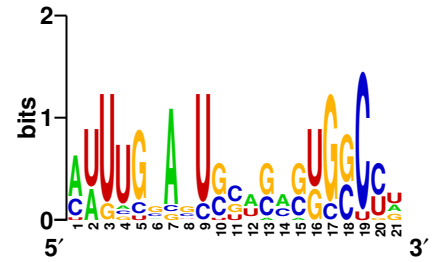
26-mers:

(no read)  
29-mers:  
(no read)

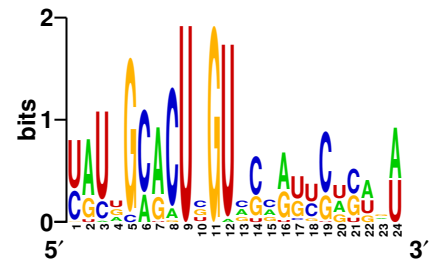
18-mers:



21-mers:



24-mers:

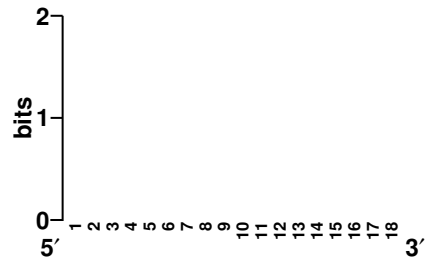


27-mers:

(no read)  
30-mers:  
(no read)

Antisense reads:

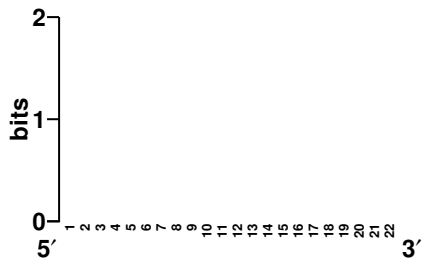
18-mers:



19-mers:  
(no read)  
22-mers:

20-mers:  
(no read)  
23-mers:

21-mers:  
(no read)  
24-mers:



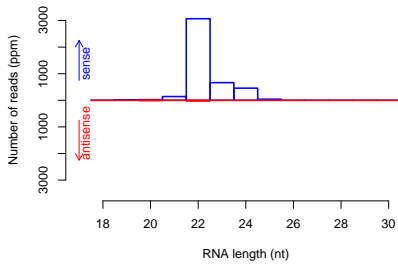
25-mers:  
(no read)  
28-mers:  
(no read)

(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)



Adult male, library 4:



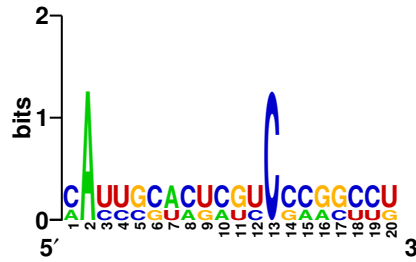
Sense reads:

18-mers:

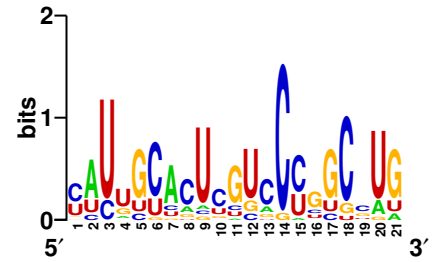
19-mers:



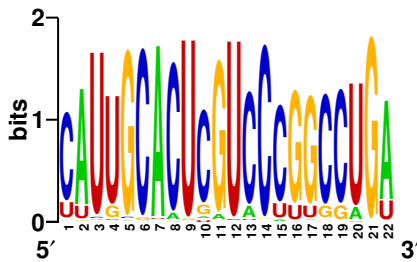
20-mers:



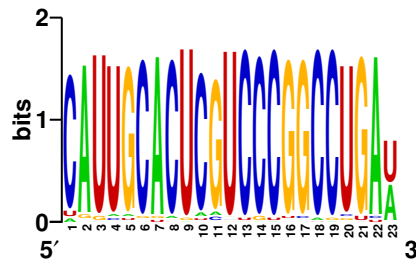
(no read)  
21-mers:



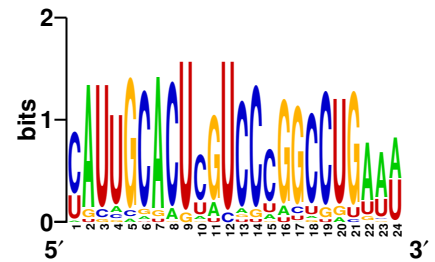
22-mers:



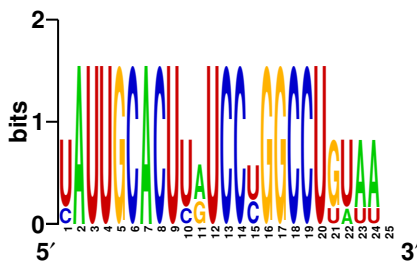
23-mers:



24-mers:



25-mers:



26-mers:

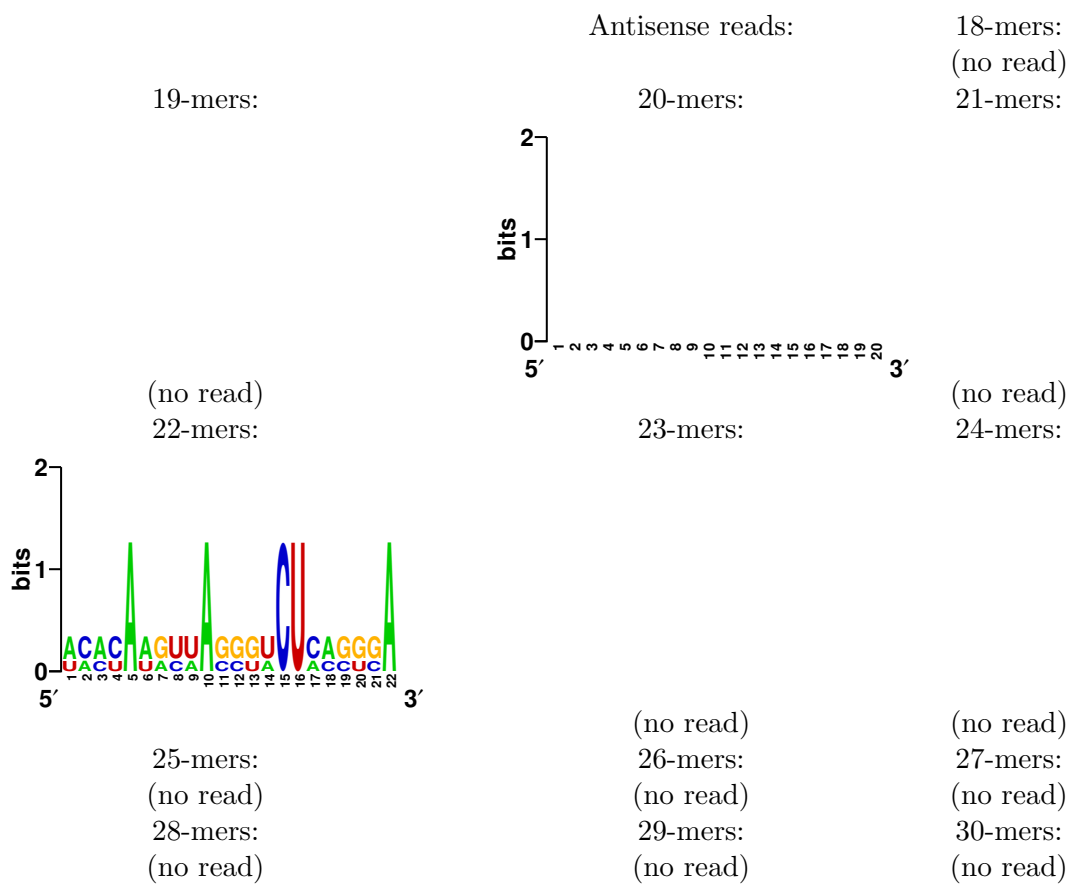
(no read)

(no read)

28-mers:  
(no read)

29-mers:  
(no read)

30-mers:  
(no read)



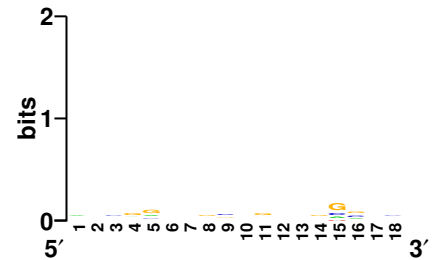
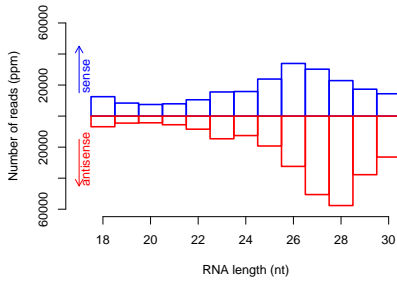
### 3 Transcriptome-matching reads (excluding pre-miRNA and abundant ncRNA-matching reads)

#### 3.1 Libraries #1 (total 5' monophosphorylated small RNAs)

Embryo 8h, library 1:

Sense reads:

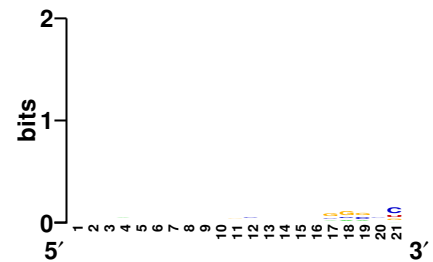
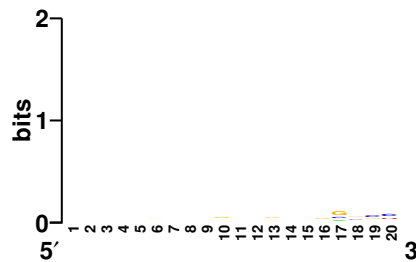
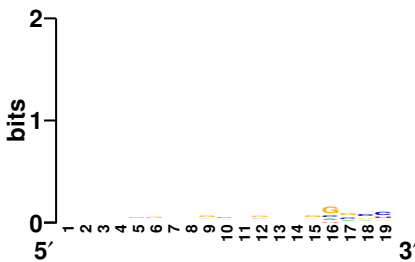
18-mers:



19-mers:

20-mers:

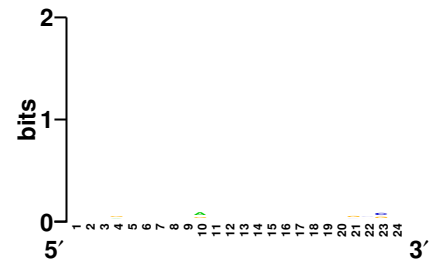
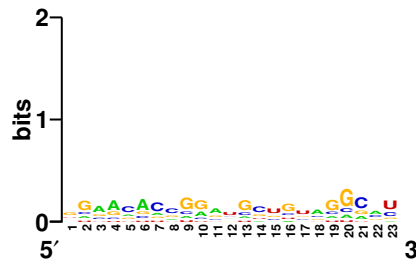
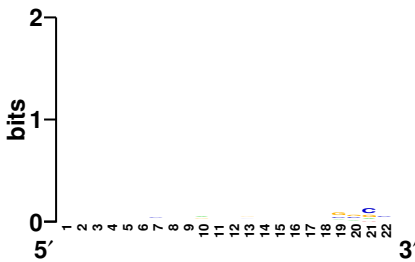
21-mers:



22-mers:

23-mers:

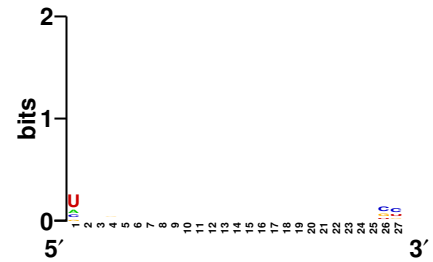
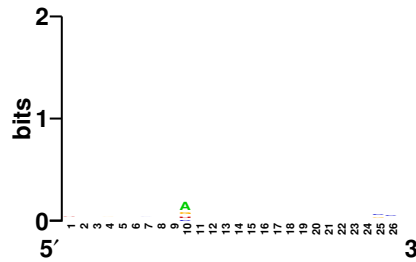
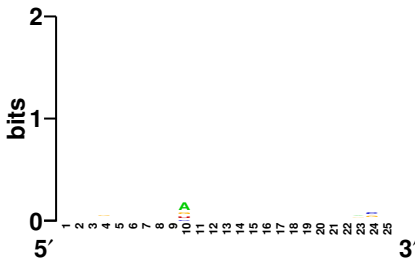
24-mers:



25-mers:

26-mers:

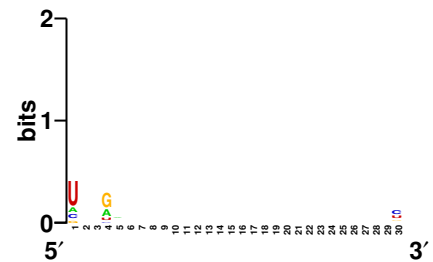
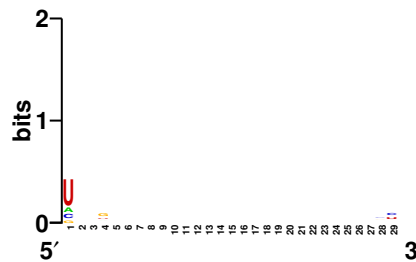
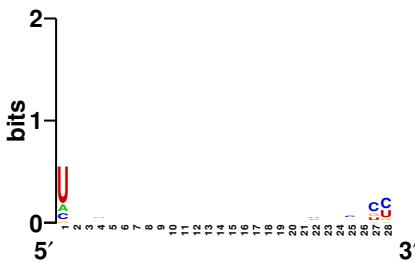
27-mers:



28-mers:

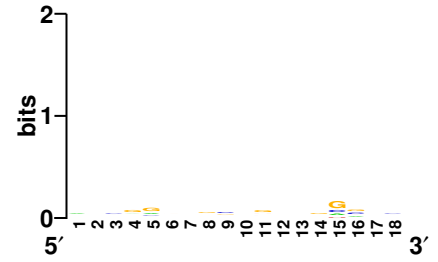
29-mers:

30-mers:

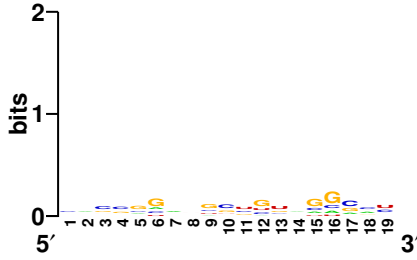


Antisense reads:

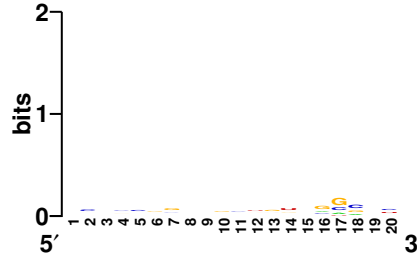
18-mers:



19-mers:



20-mers:



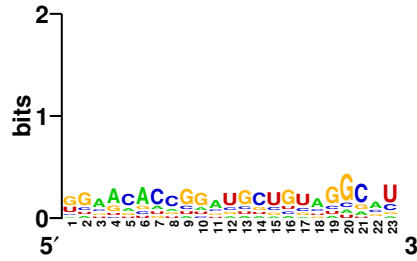
21-mers:



22-mers:



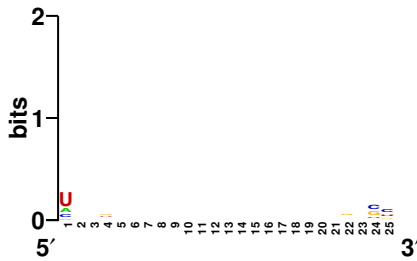
23-mers:



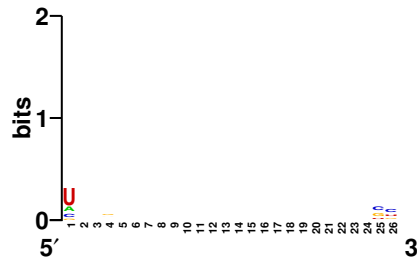
24-mers:



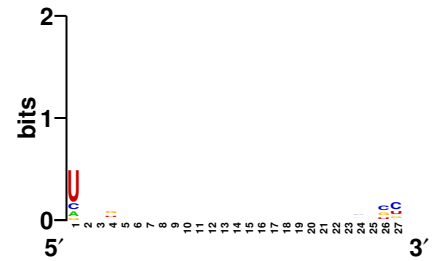
25-mers:



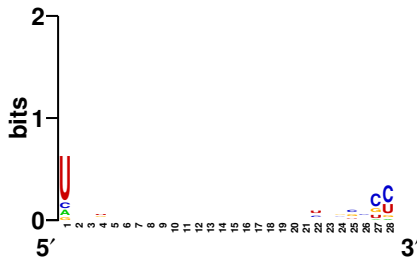
26-mers:



27-mers:



28-mers:



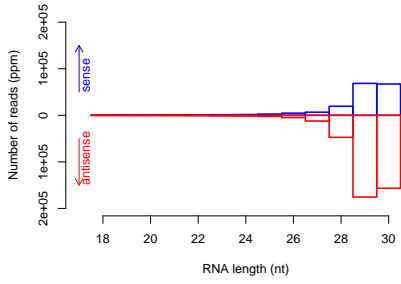
29-mers:



30-mers:

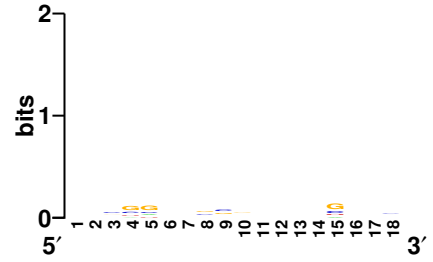


Embryo 15h, library 1:



Sense reads:

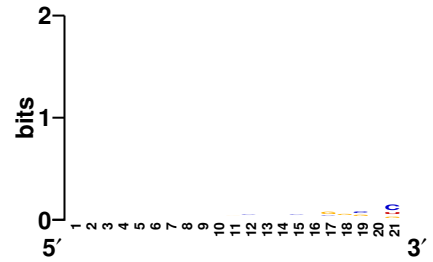
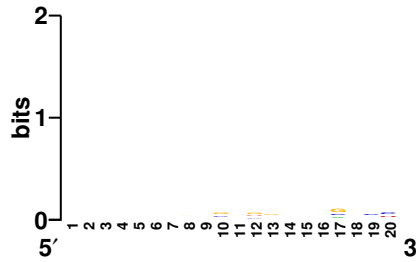
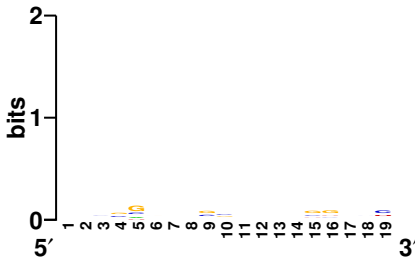
18-mers:



19-mers:

20-mers:

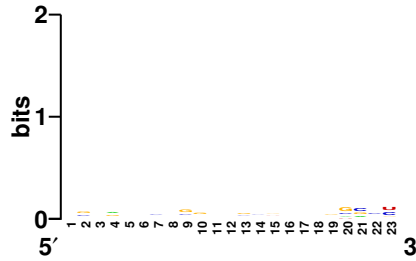
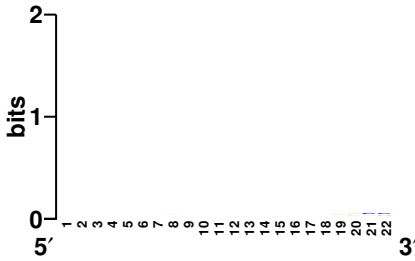
21-mers:



22-mers:

23-mers:

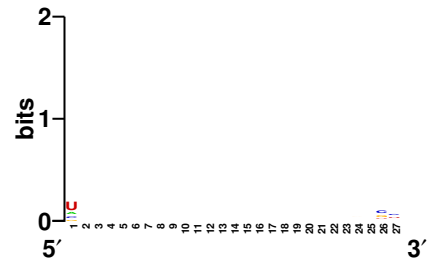
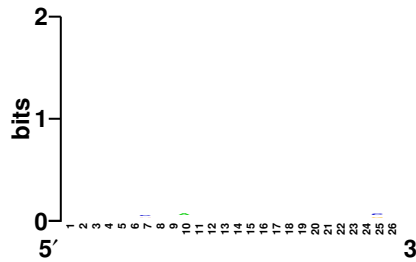
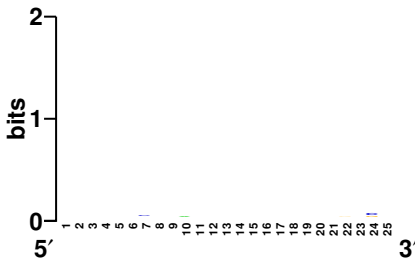
24-mers:



25-mers:

26-mers:

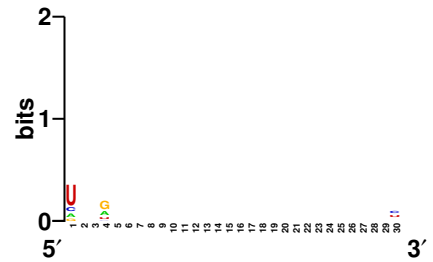
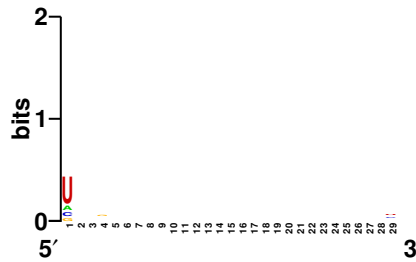
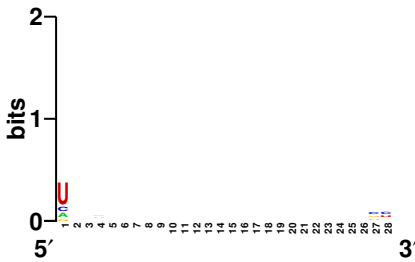
27-mers:



28-mers:

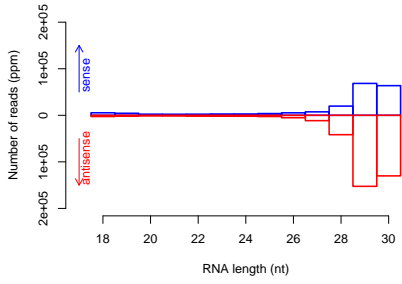
29-mers:

30-mers:



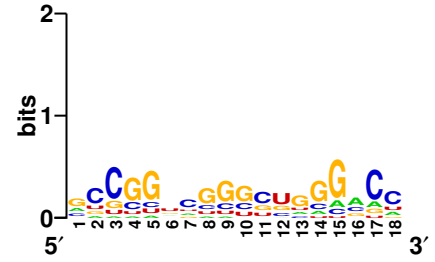


Embryo 36h, library 1:

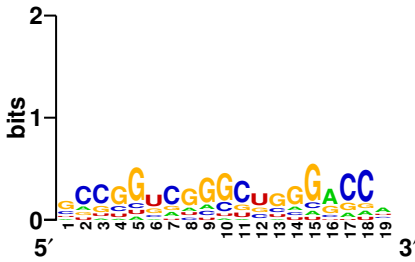


Sense reads:

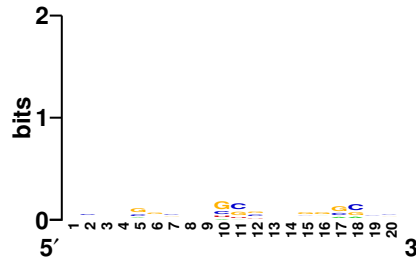
18-mers:



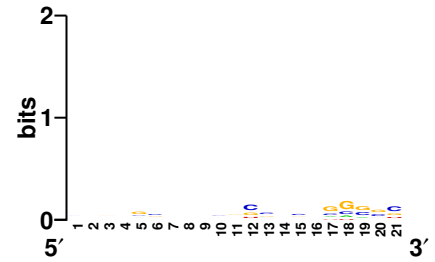
19-mers:



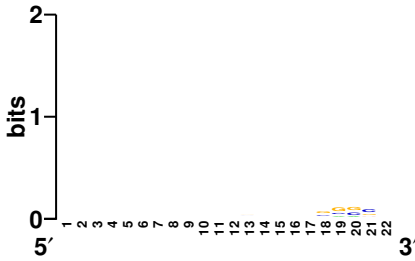
20-mers:



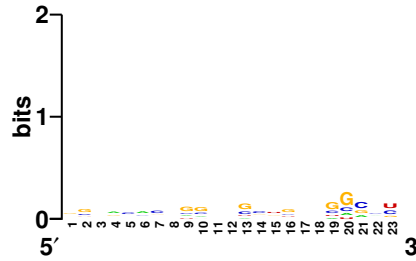
21-mers:



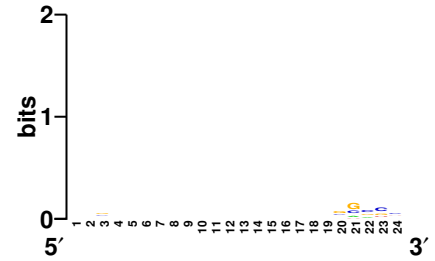
22-mers:



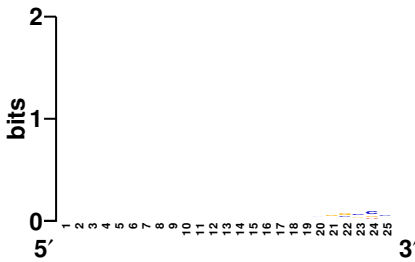
23-mers:



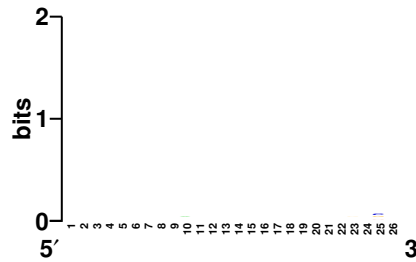
24-mers:



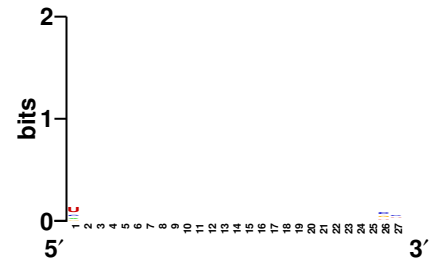
25-mers:



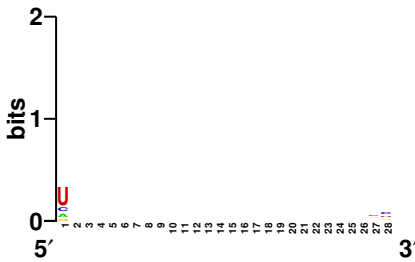
26-mers:



27-mers:



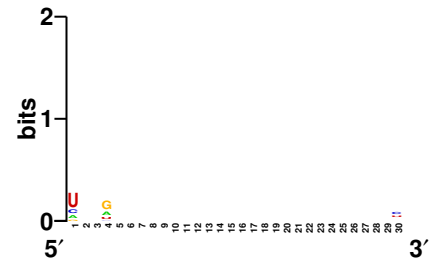
28-mers:



29-mers:

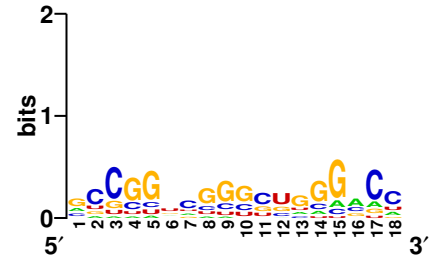


30-mers:

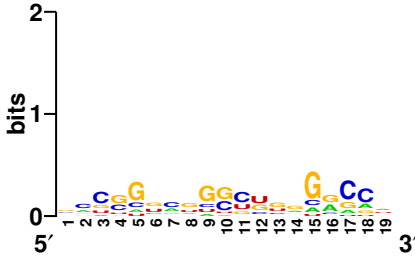


Antisense reads:

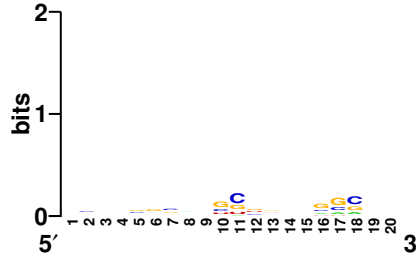
18-mers:



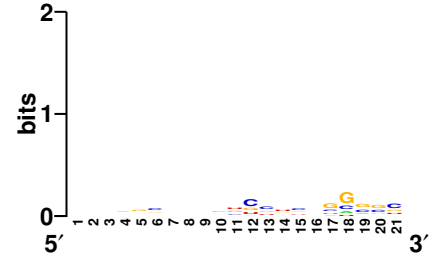
19-mers:



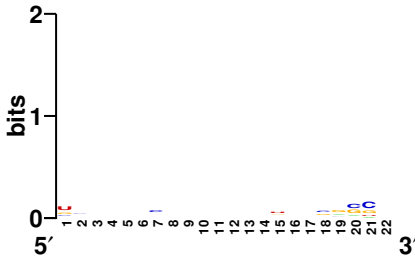
20-mers:



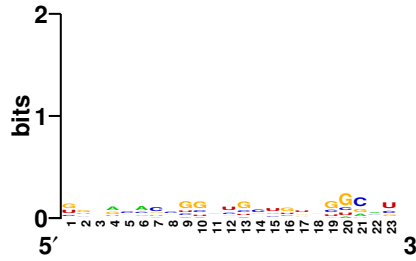
21-mers:



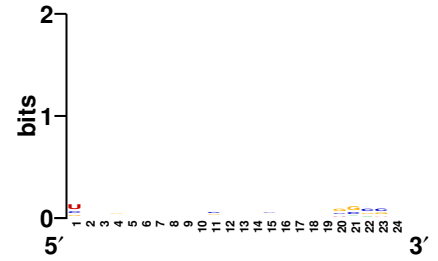
22-mers:



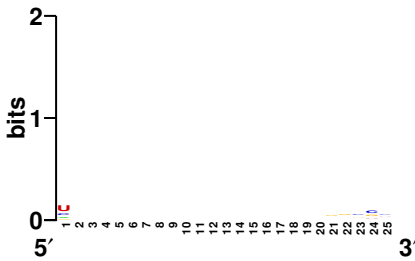
23-mers:



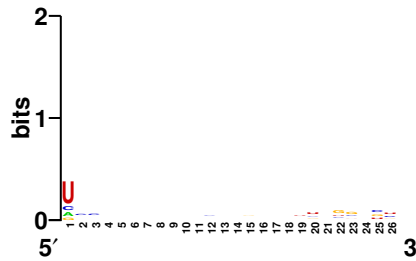
24-mers:



25-mers:



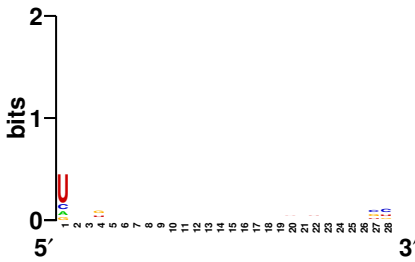
26-mers:



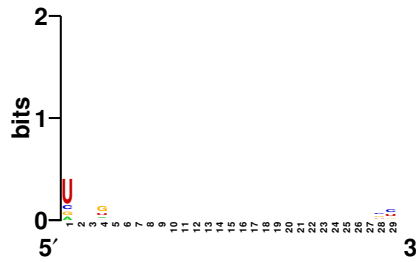
27-mers:



28-mers:



29-mers:

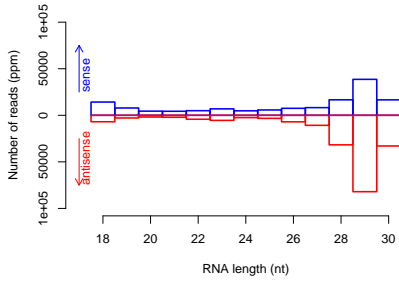


30-mers:



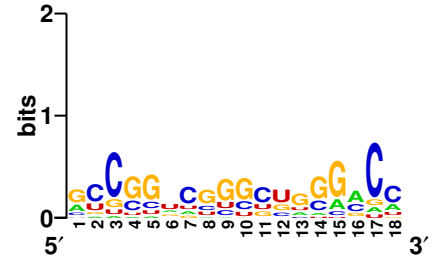


Embryo 60h, library 1:

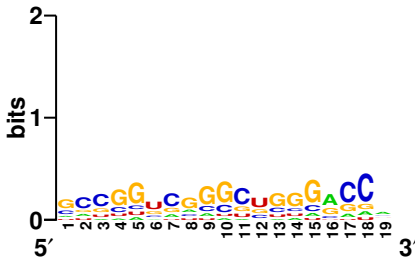


Sense reads:

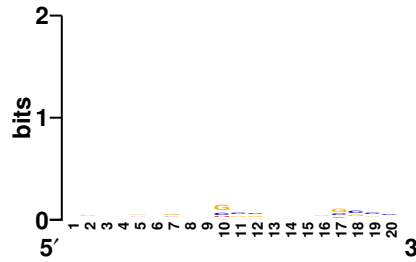
18-mers:



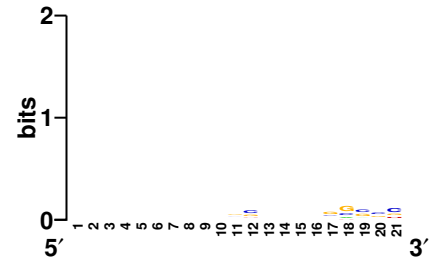
19-mers:



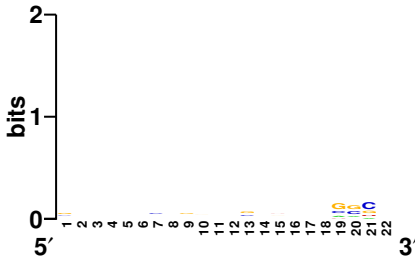
20-mers:



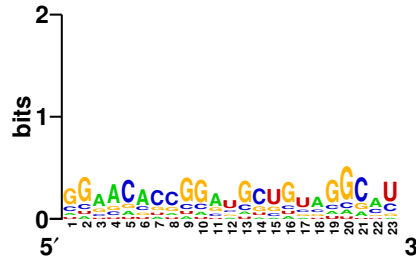
21-mers:



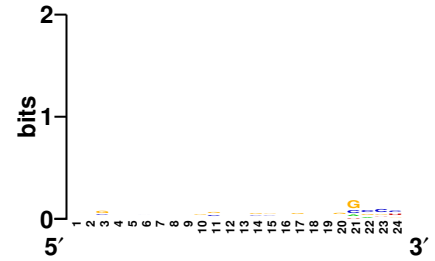
22-mers:



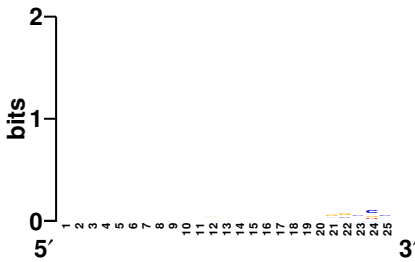
23-mers:



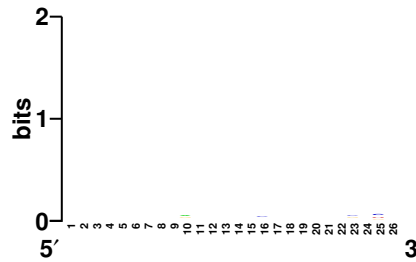
24-mers:



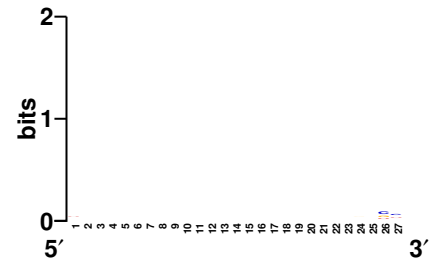
25-mers:



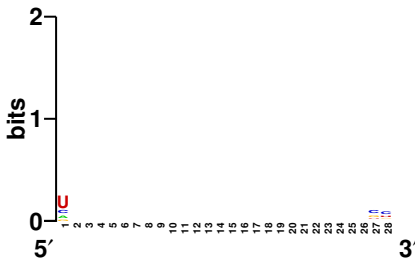
26-mers:



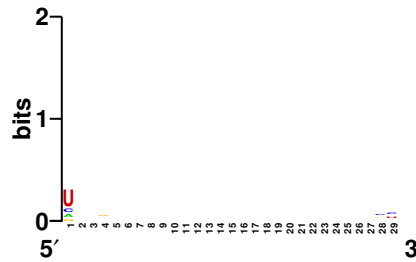
27-mers:



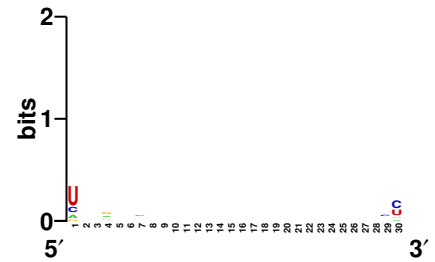
28-mers:



29-mers:

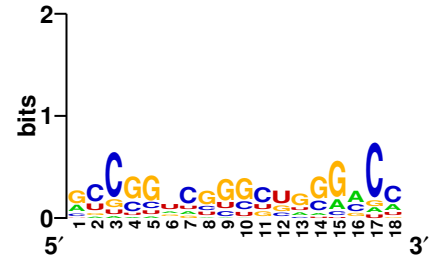


30-mers:

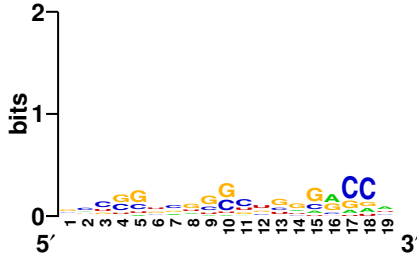


Antisense reads:

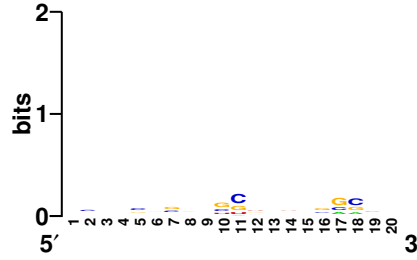
18-mers:



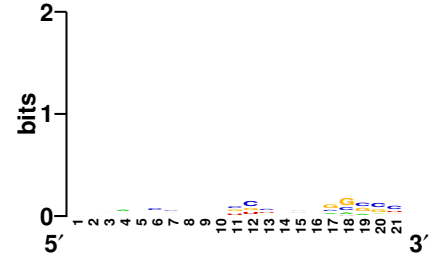
19-mers:



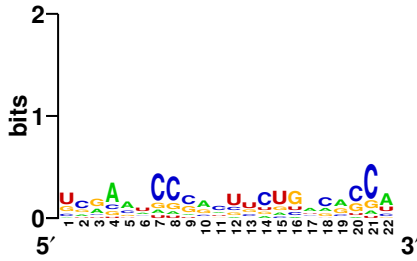
20-mers:



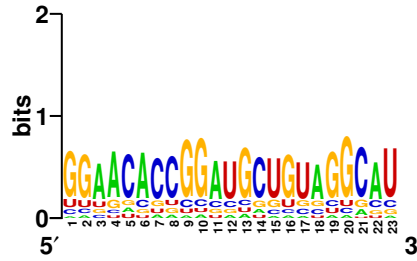
21-mers:



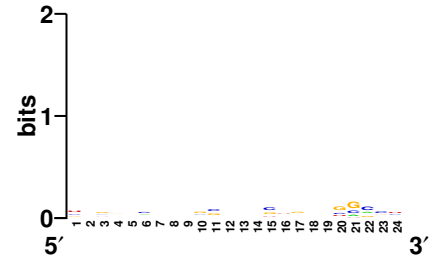
22-mers:



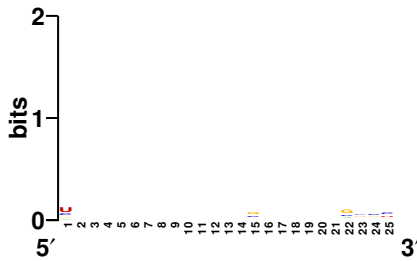
23-mers:



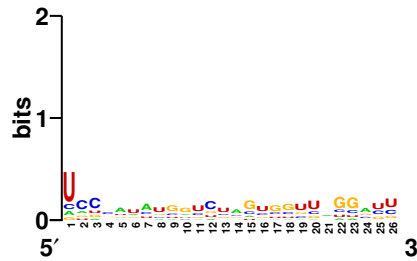
24-mers:



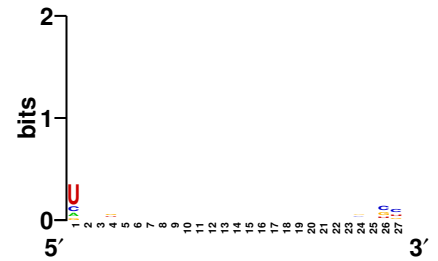
25-mers:



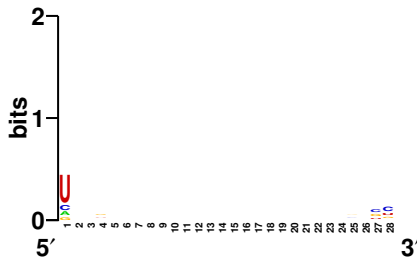
26-mers:



27-mers:



28-mers:



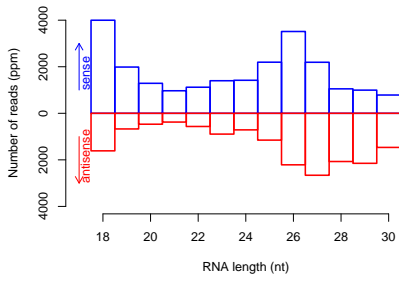
29-mers:



30-mers:

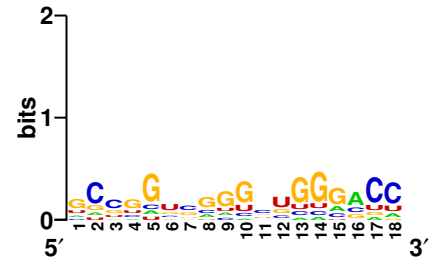


Adult female, library 1:



Sense reads:

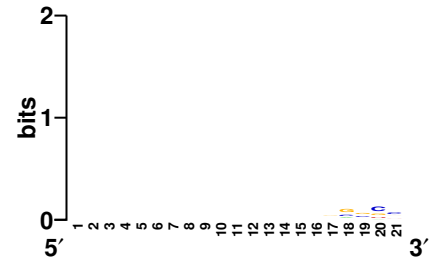
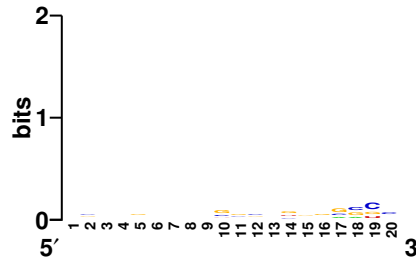
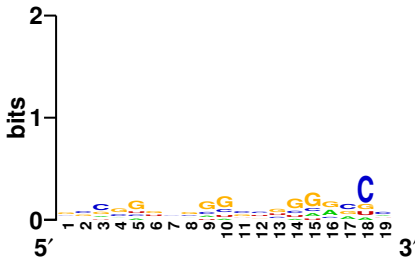
18-mers:



19-mers:

20-mers:

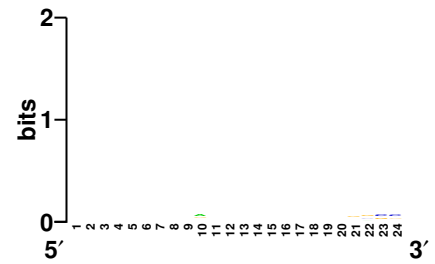
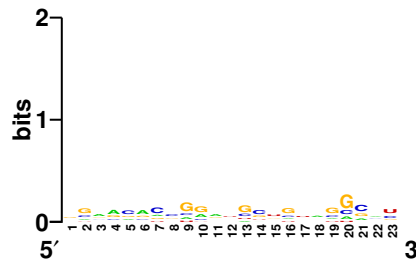
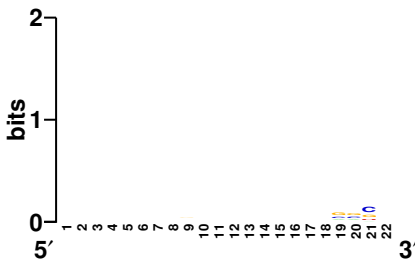
21-mers:



22-mers:

23-mers:

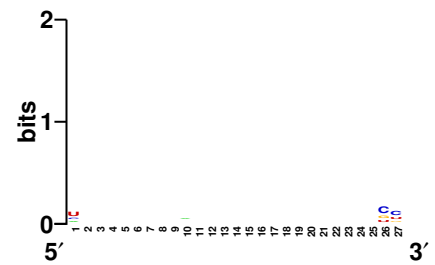
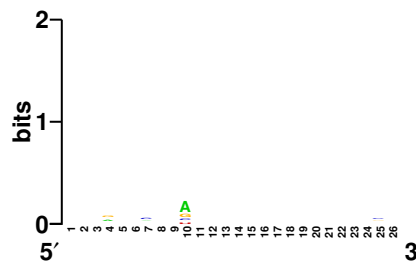
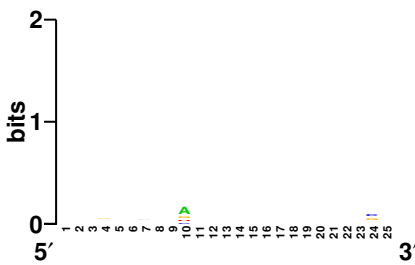
24-mers:



25-mers:

26-mers:

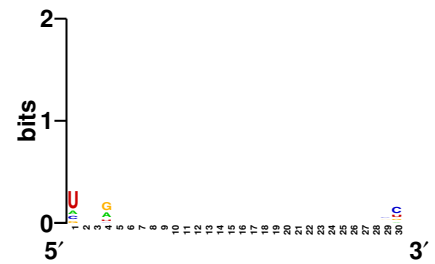
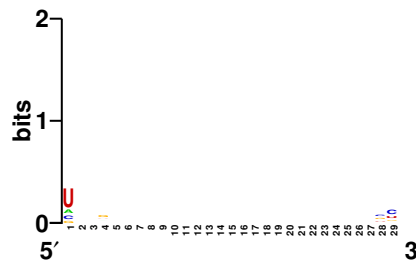
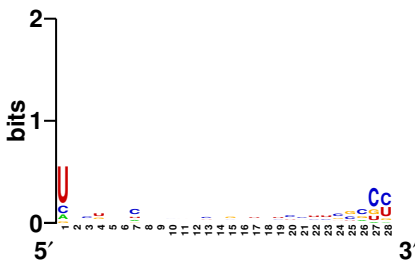
27-mers:



28-mers:

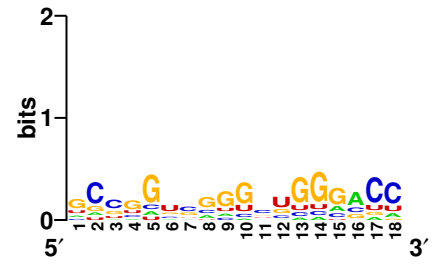
29-mers:

30-mers:

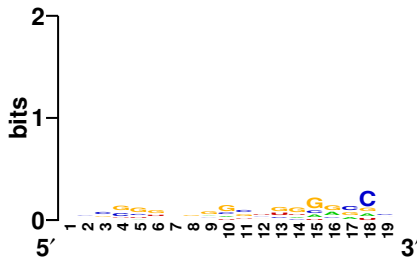


Antisense reads:

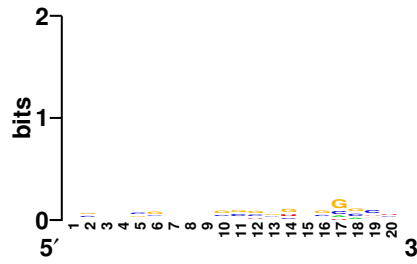
18-mers:



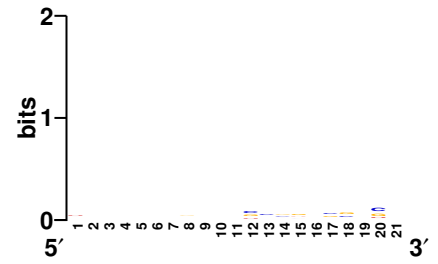
19-mers:



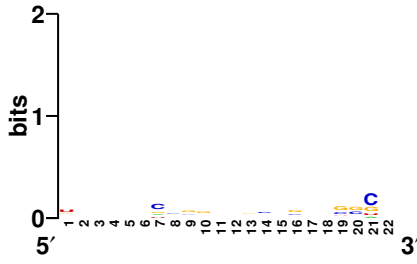
20-mers:



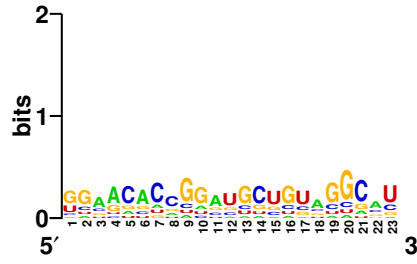
21-mers:



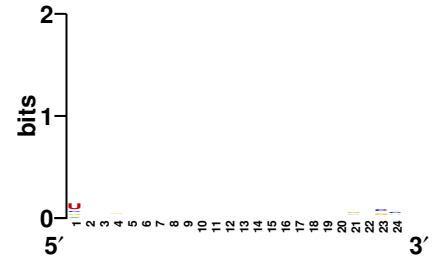
22-mers:



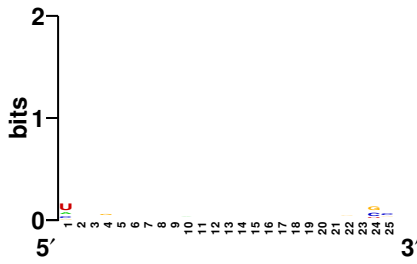
23-mers:



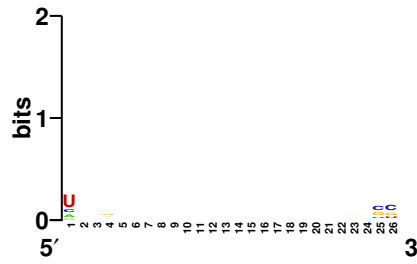
24-mers:



25-mers:



26-mers:



27-mers:



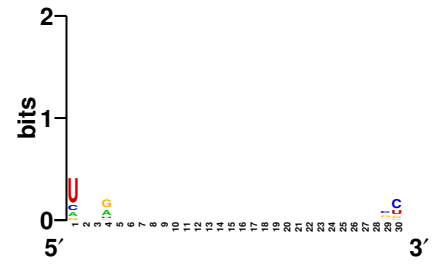
28-mers:



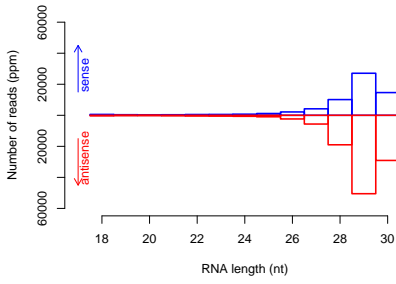
29-mers:



30-mers:

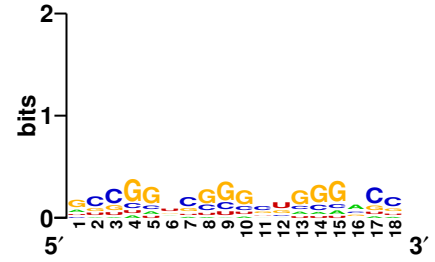


Adult male, library 1:

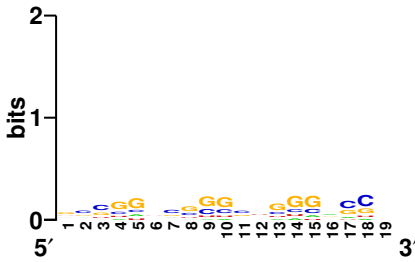


Sense reads:

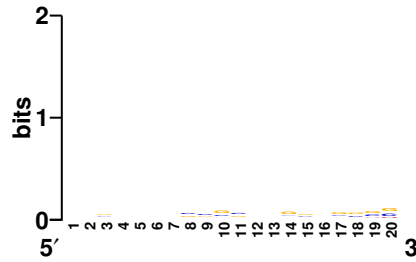
18-mers:



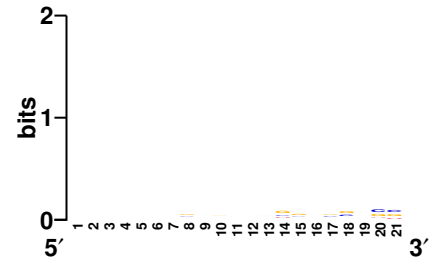
19-mers:



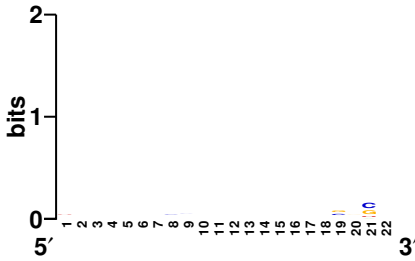
20-mers:



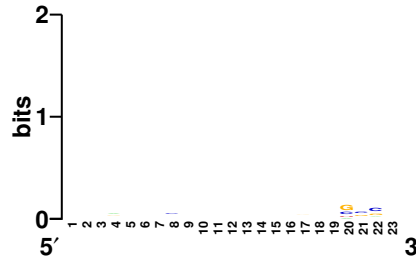
21-mers:



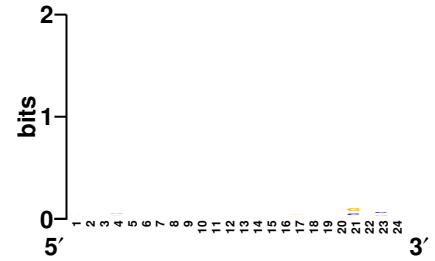
22-mers:



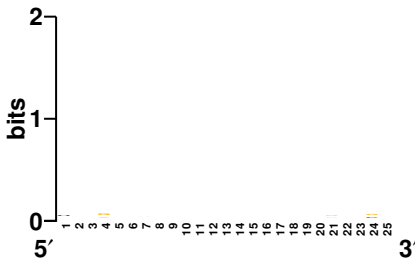
23-mers:



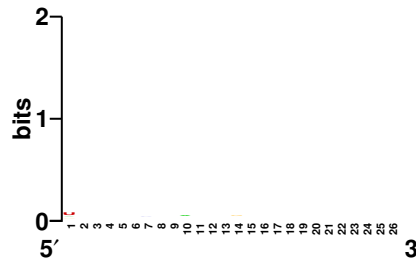
24-mers:



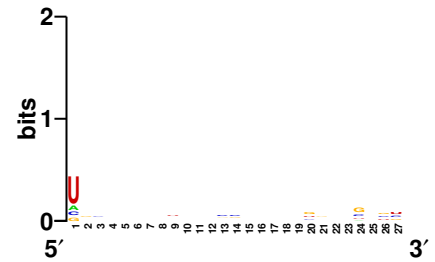
25-mers:



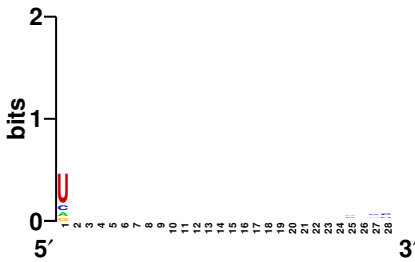
26-mers:



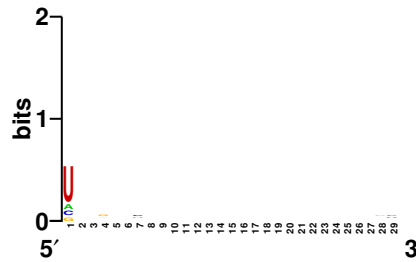
27-mers:



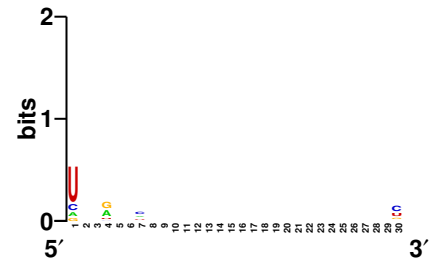
28-mers:



29-mers:



30-mers:



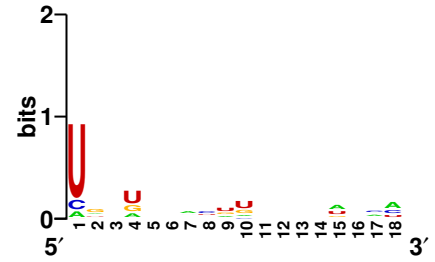
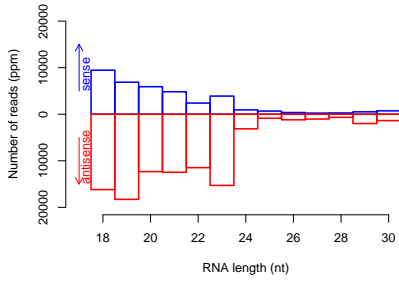


### 3.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

Embryo 8h, library 2:

Sense reads:

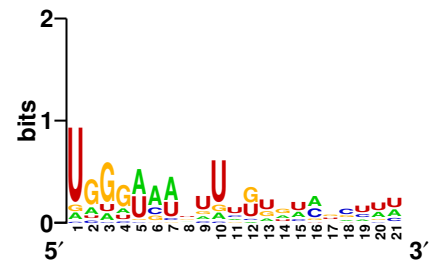
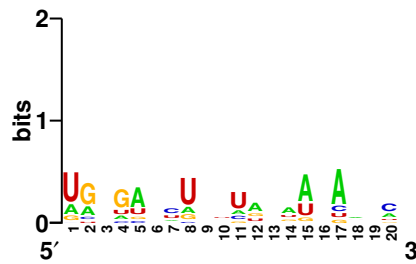
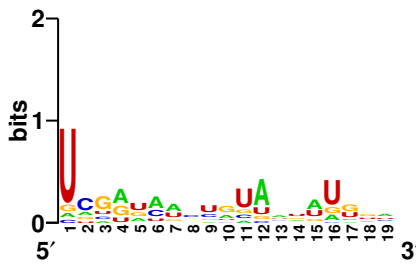
18-mers:



19-mers:

20-mers:

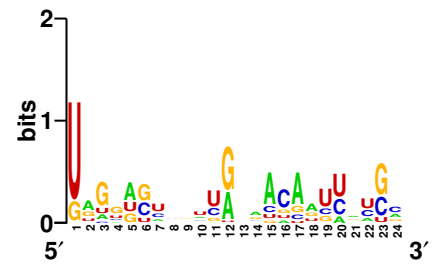
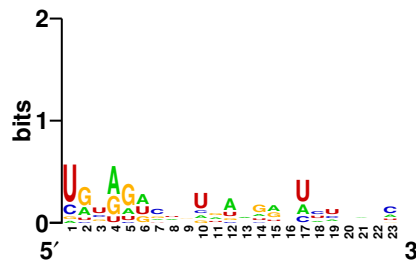
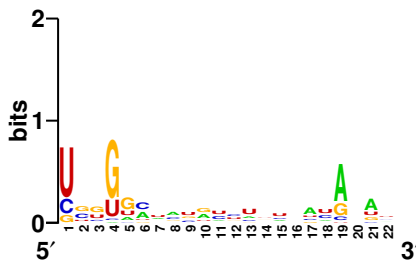
21-mers:



22-mers:

23-mers:

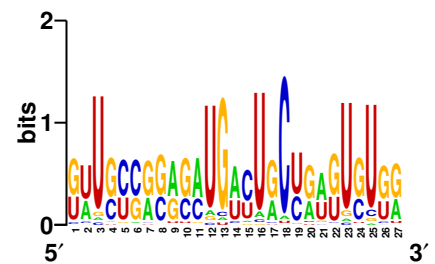
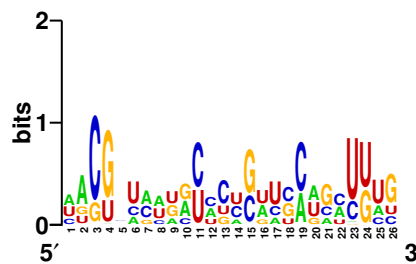
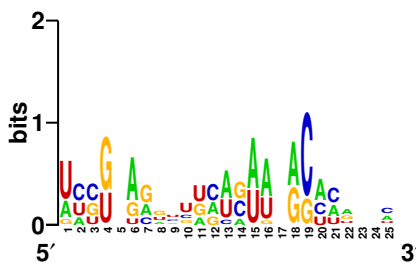
24-mers:



25-mers:

26-mers:

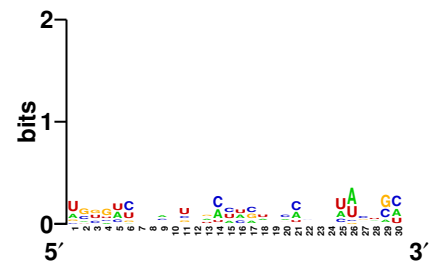
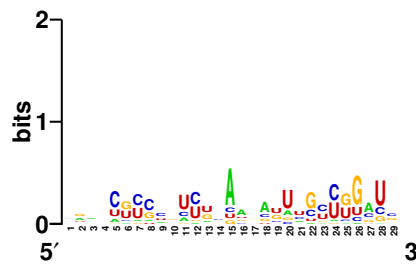
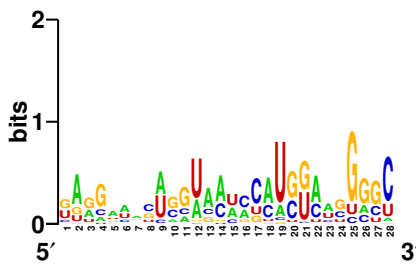
27-mers:



28-mers:

29-mers:

30-mers:







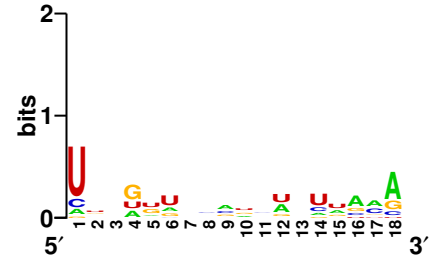
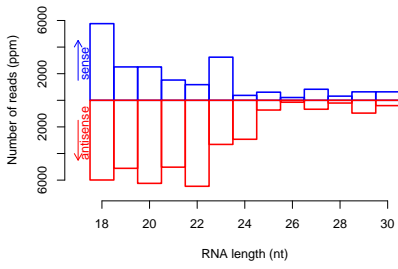




Embryo 36h, library 2:

Sense reads:

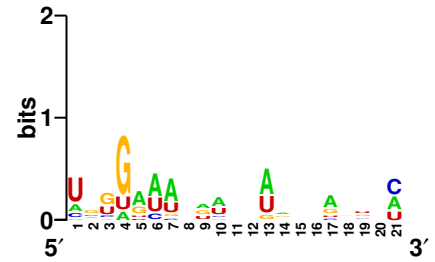
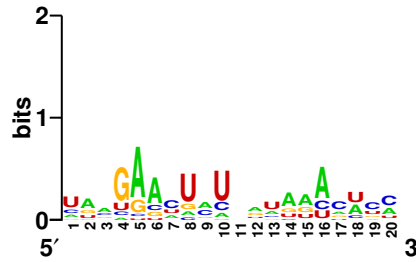
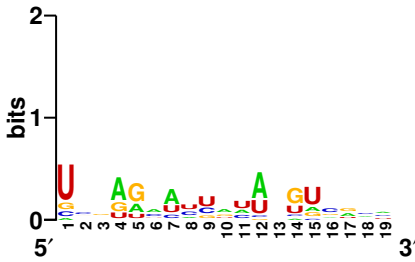
18-mers:



19-mers:

20-mers:

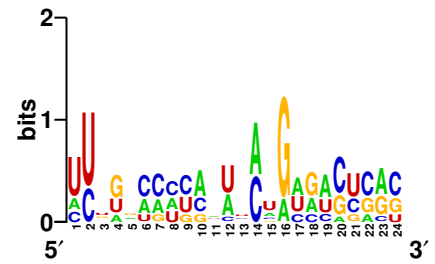
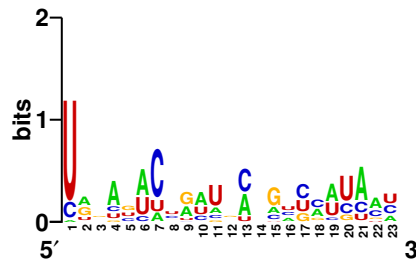
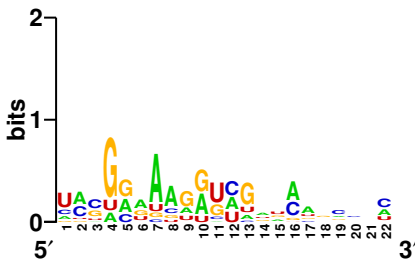
21-mers:



22-mers:

23-mers:

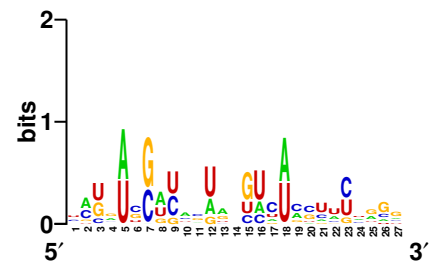
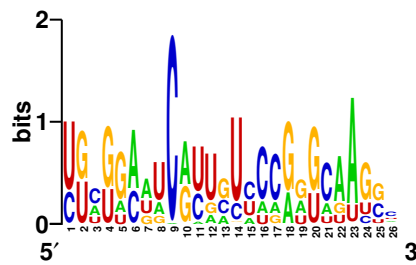
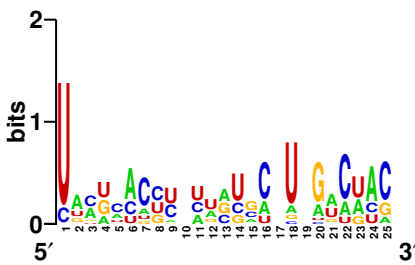
24-mers:



25-mers:

26-mers:

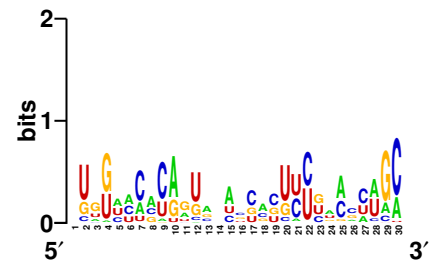
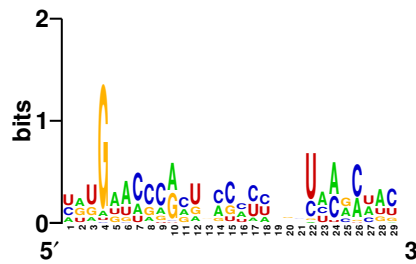
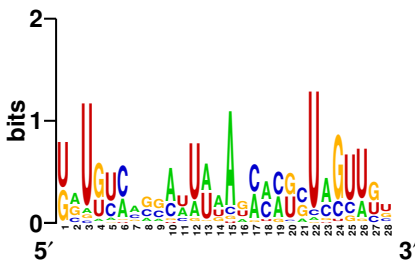
27-mers:



28-mers:

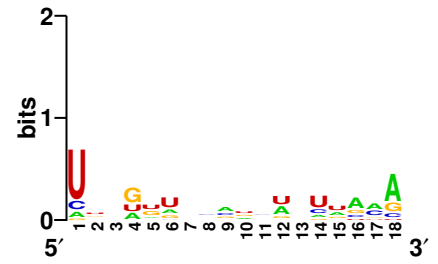
29-mers:

30-mers:

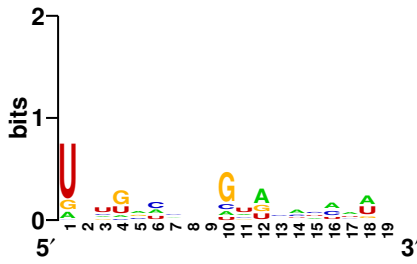


Antisense reads:

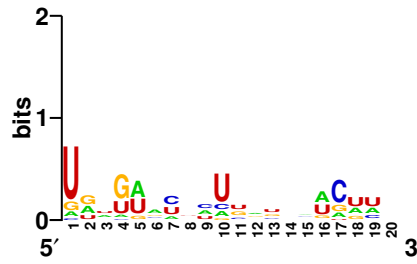
18-mers:



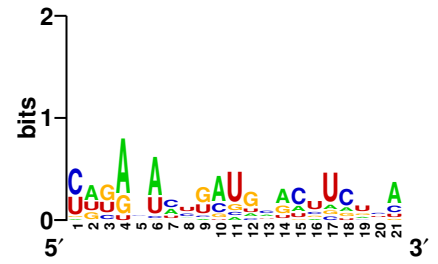
19-mers:



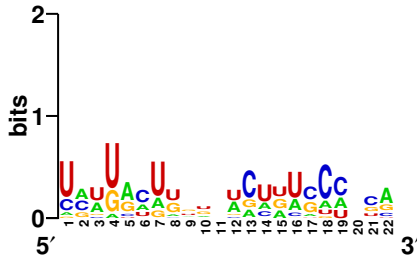
20-mers:



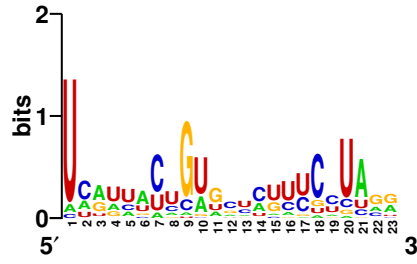
21-mers:



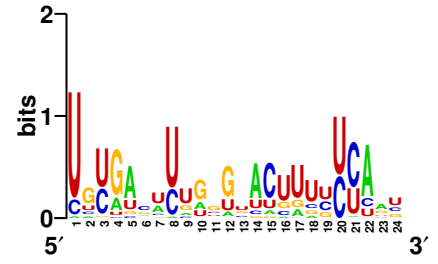
22-mers:



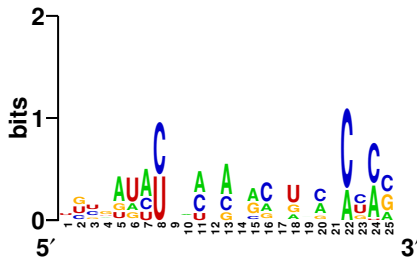
23-mers:



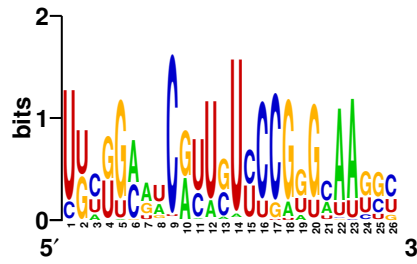
24-mers:



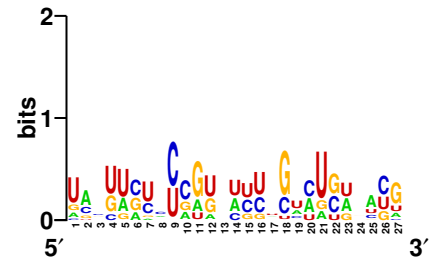
25-mers:



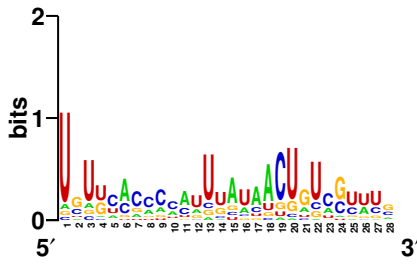
26-mers:



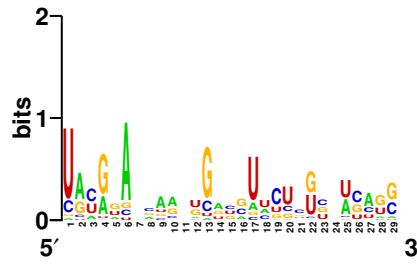
27-mers:



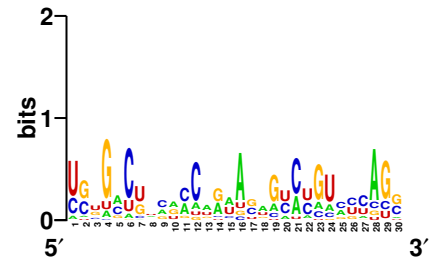
28-mers:



29-mers:



30-mers:



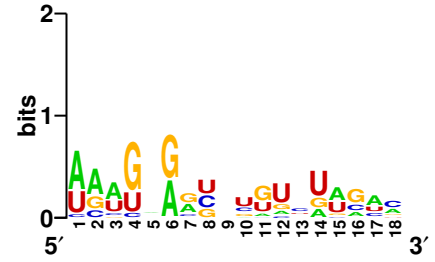
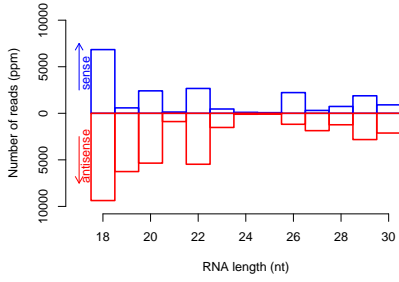




Adult female, library 2:

Sense reads:

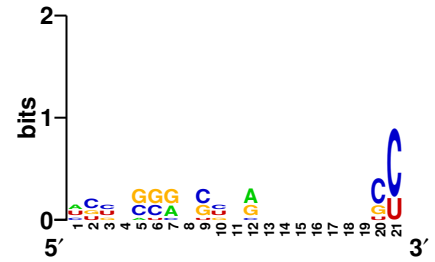
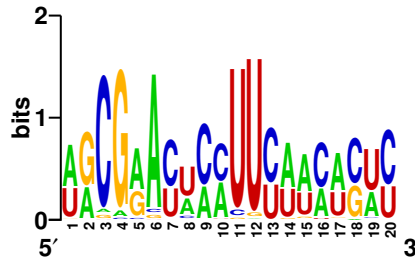
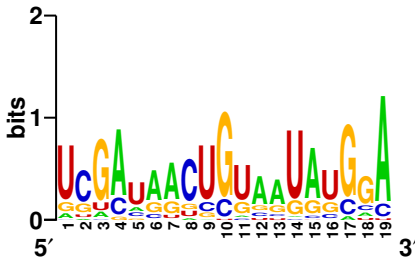
18-mers:



19-mers:

20-mers:

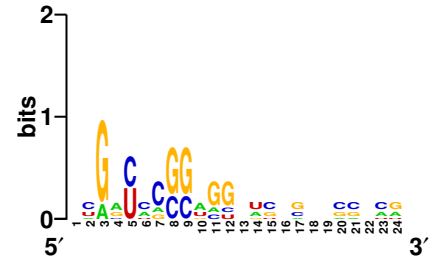
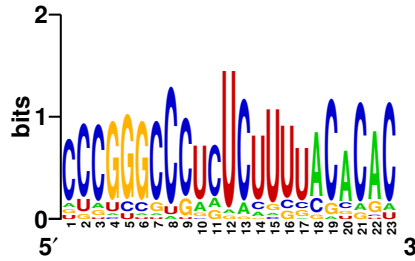
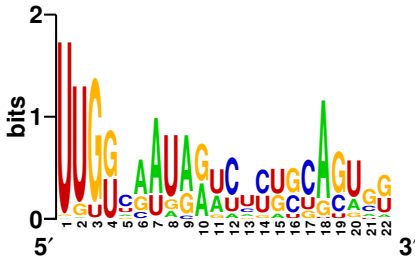
21-mers:



22-mers:

23-mers:

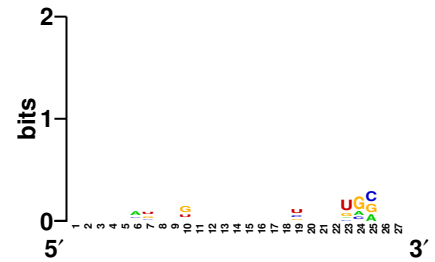
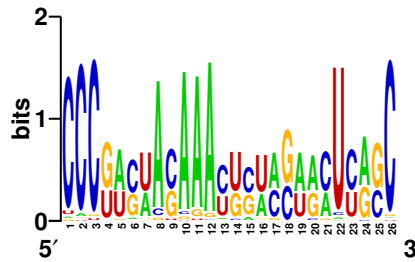
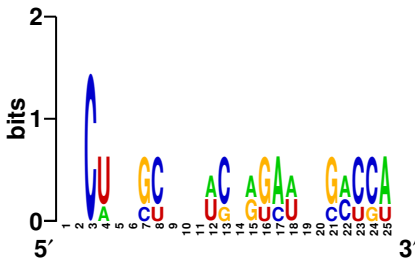
24-mers:



25-mers:

26-mers:

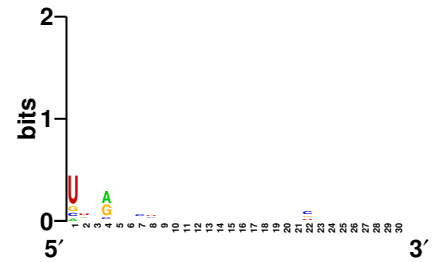
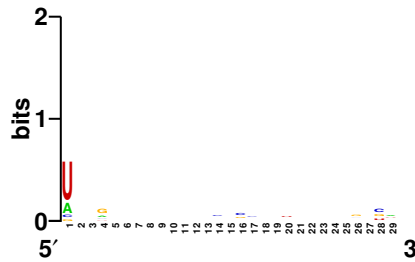
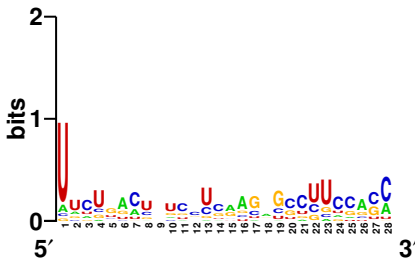
27-mers:



28-mers:

29-mers:

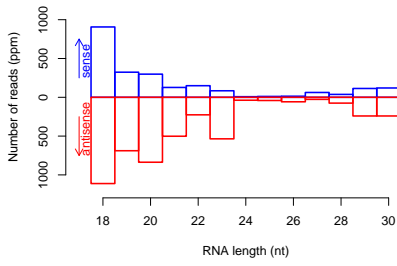
30-mers:







Adult male, library 2:

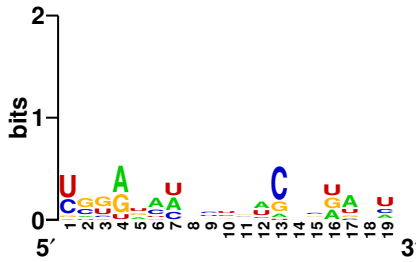


Sense reads:

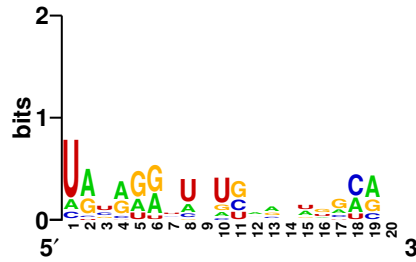
18-mers:



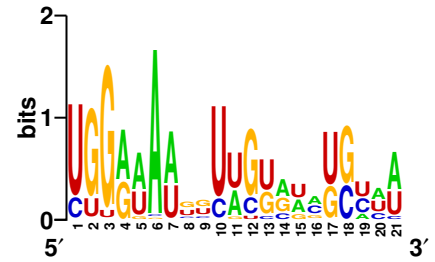
19-mers:



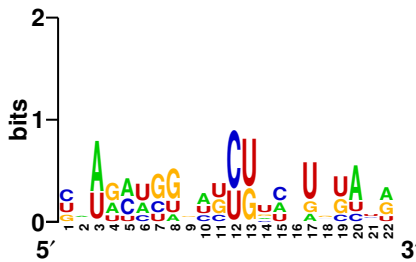
20-mers:



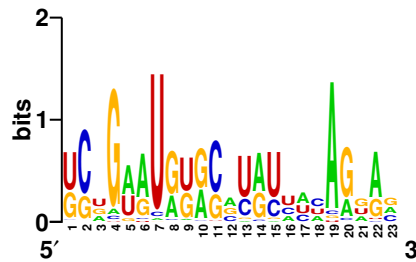
21-mers:



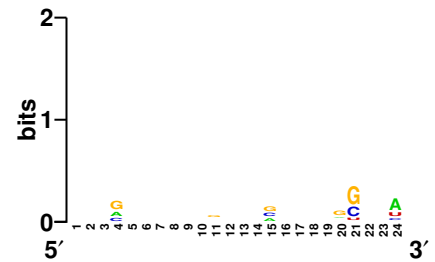
22-mers:



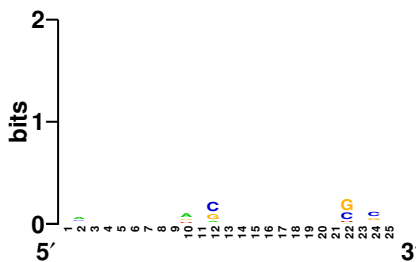
23-mers:



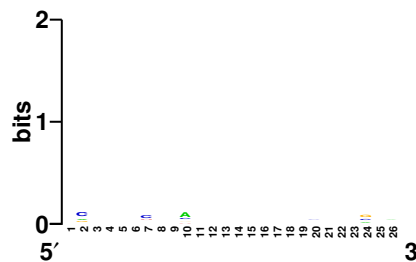
24-mers:



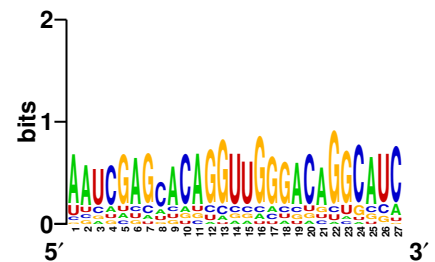
25-mers:



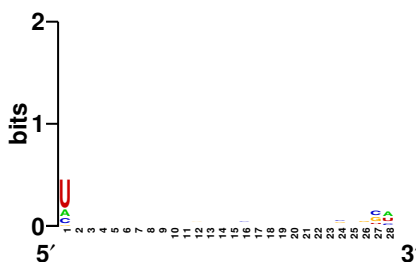
26-mers:



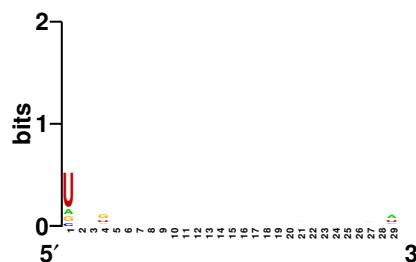
27-mers:



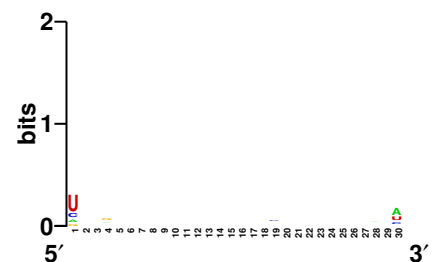
28-mers:



29-mers:



30-mers:

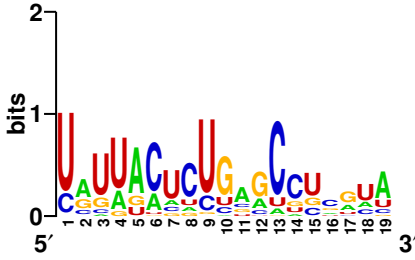


Antisense reads:

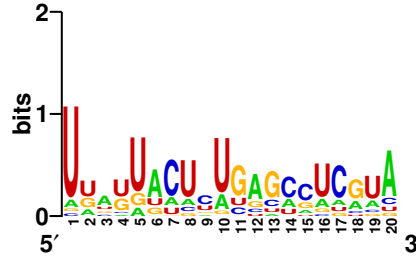
18-mers:



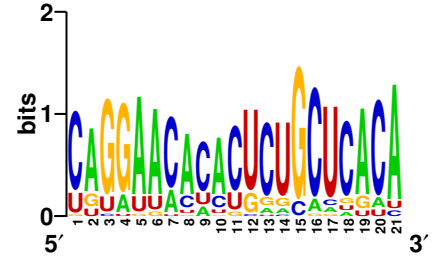
19-mers:



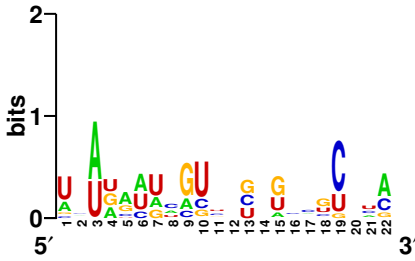
20-mers:



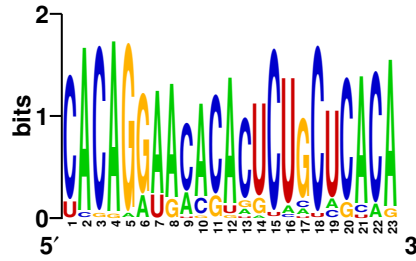
21-mers:



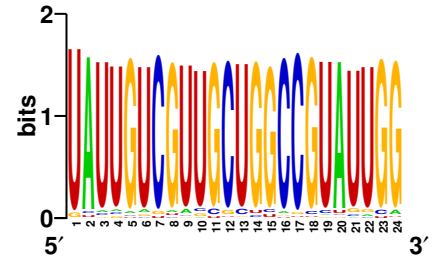
22-mers:



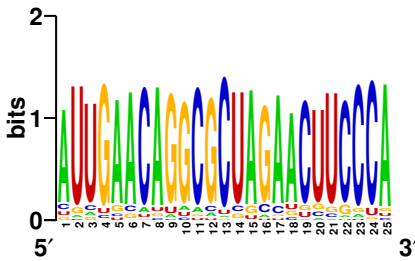
23-mers:



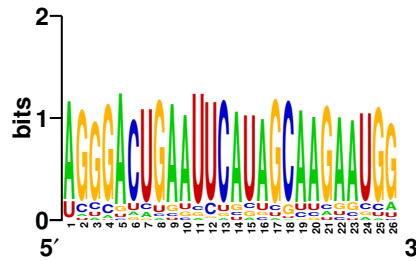
24-mers:



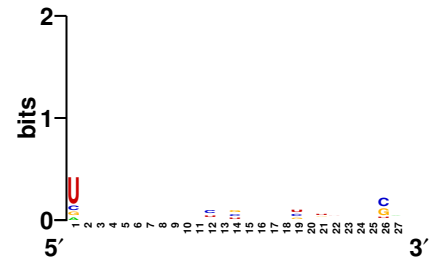
25-mers:



26-mers:



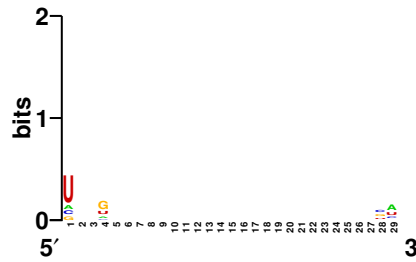
27-mers:



28-mers:



29-mers:



30-mers:

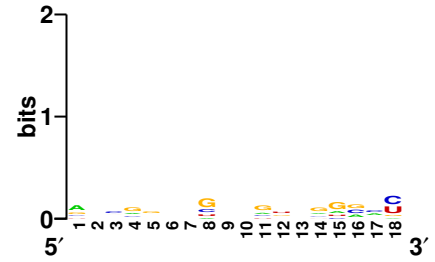
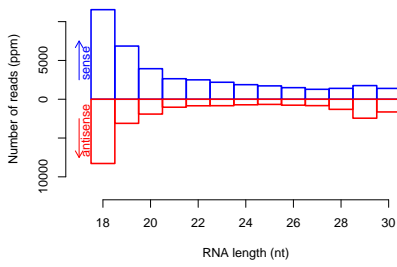


### 3.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 3:

Sense reads:

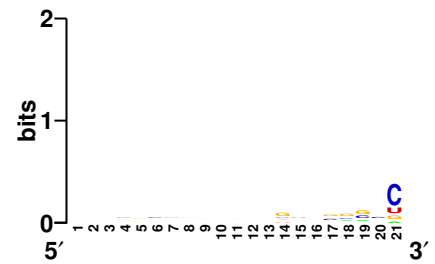
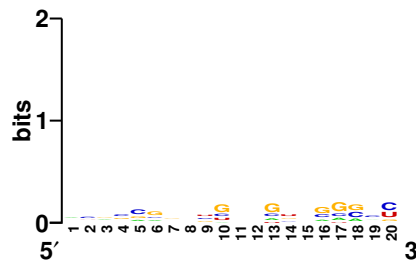
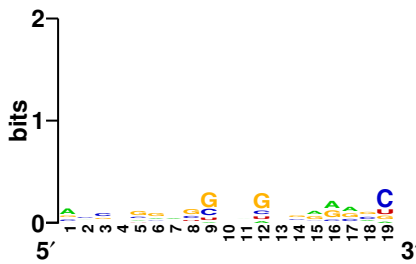
18-mers:



19-mers:

20-mers:

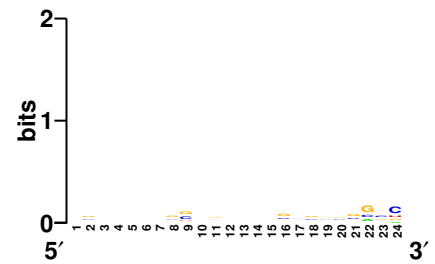
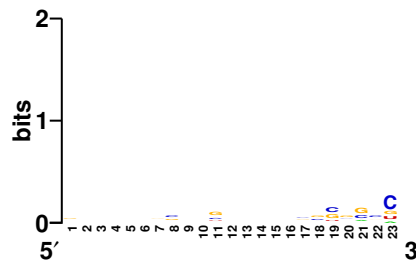
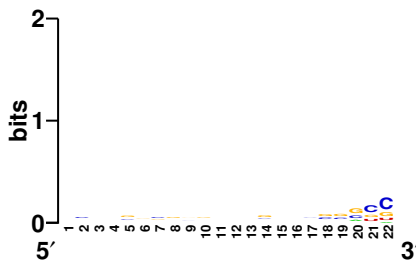
21-mers:



22-mers:

23-mers:

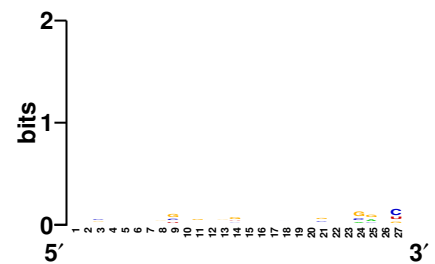
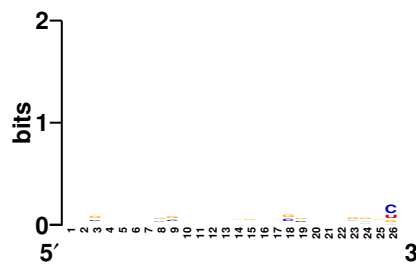
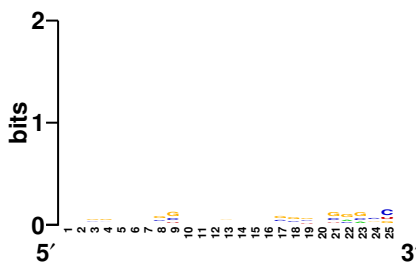
24-mers:



25-mers:

26-mers:

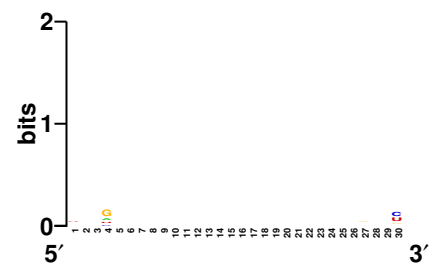
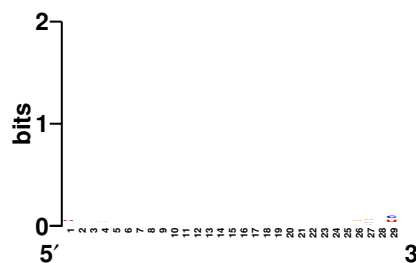
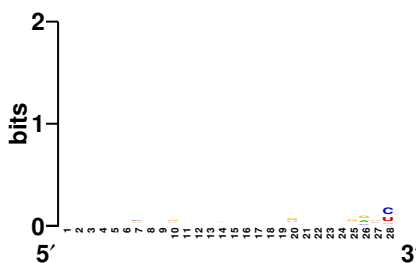
27-mers:



28-mers:

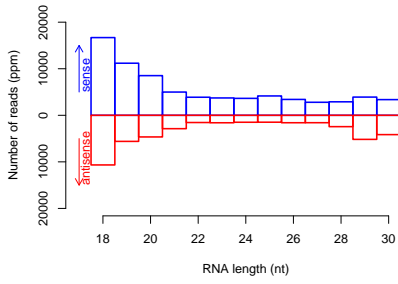
29-mers:

30-mers:



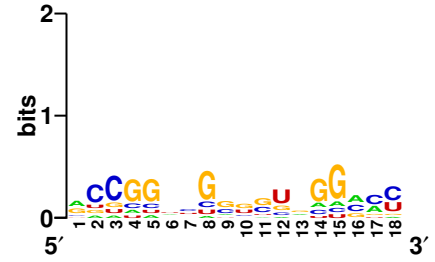


Embryo 15h, library 3:



Sense reads:

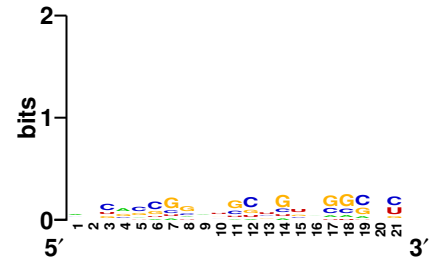
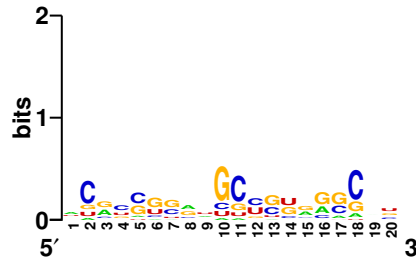
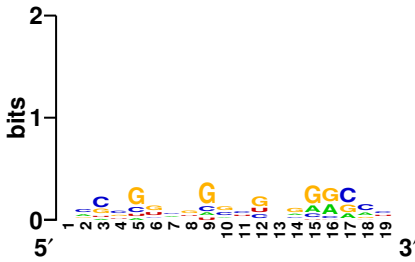
18-mers:



19-mers:

20-mers:

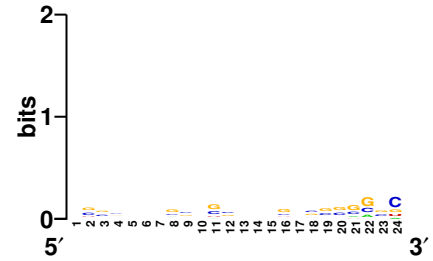
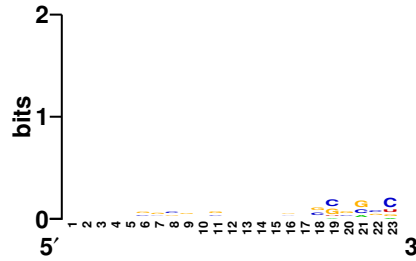
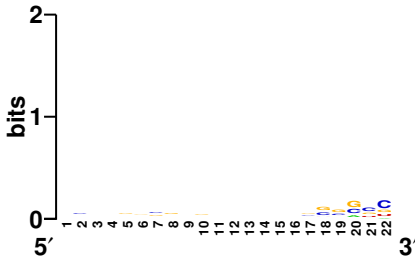
21-mers:



22-mers:

23-mers:

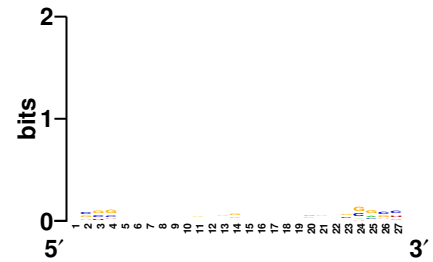
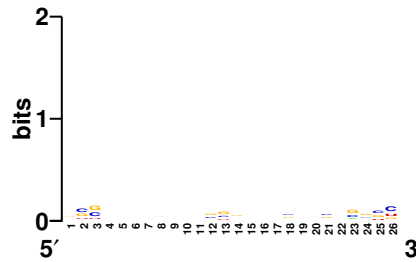
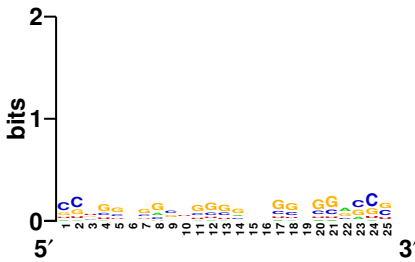
24-mers:



25-mers:

26-mers:

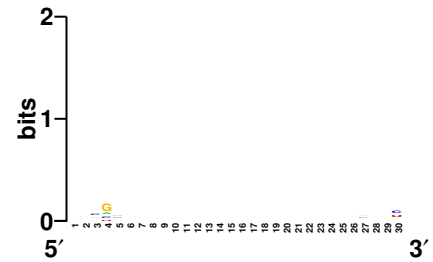
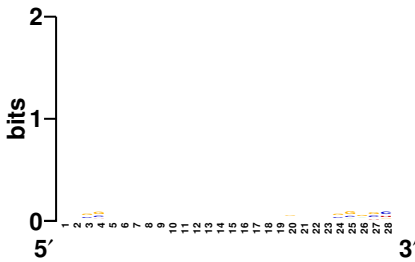
27-mers:



28-mers:

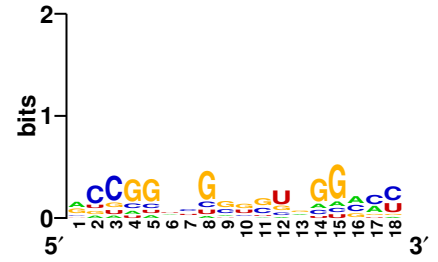
29-mers:

30-mers:

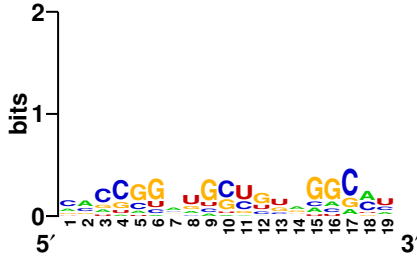


Antisense reads:

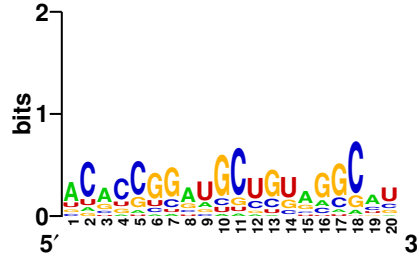
18-mers:



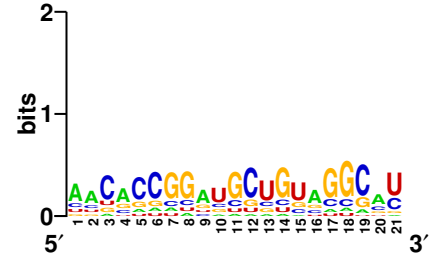
19-mers:



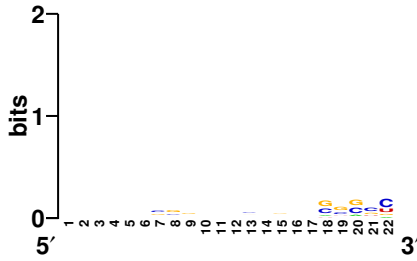
20-mers:



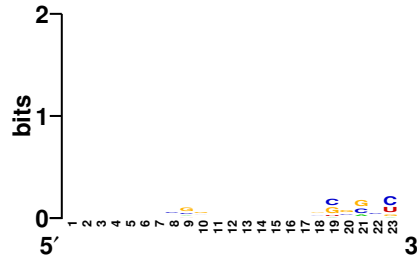
21-mers:



22-mers:



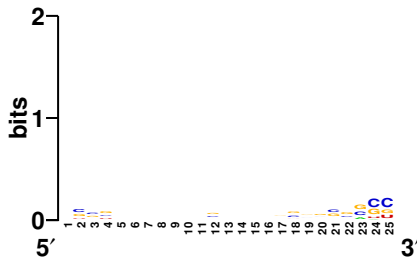
23-mers:



24-mers:



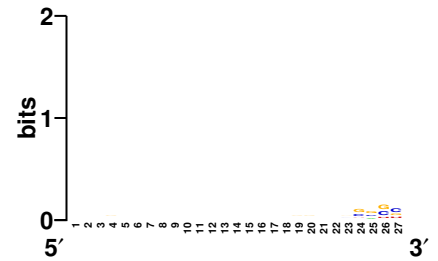
25-mers:



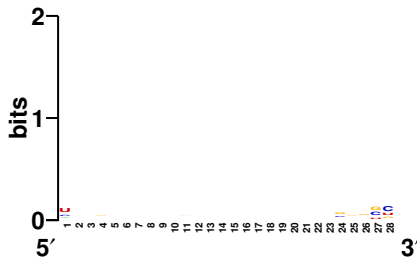
26-mers:



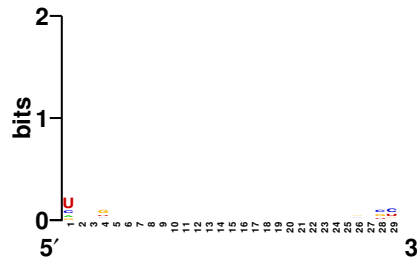
27-mers:



28-mers:



29-mers:



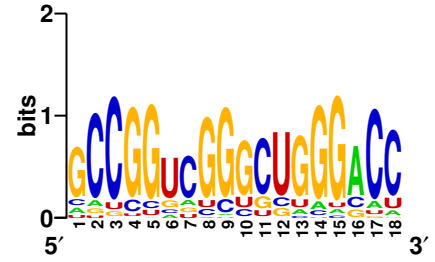
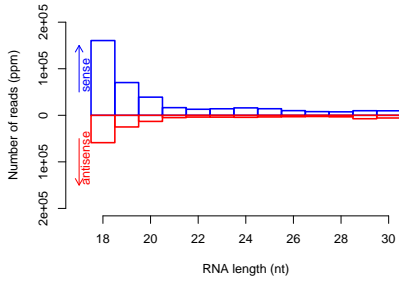
30-mers:



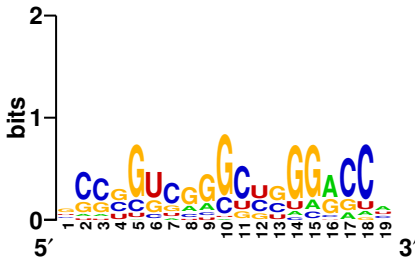
Embryo 36h, library 3:

Sense reads:

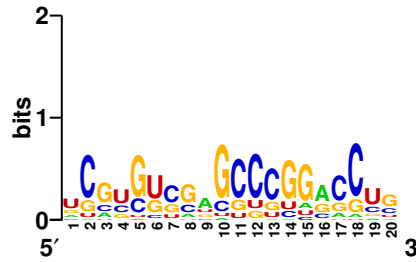
18-mers:



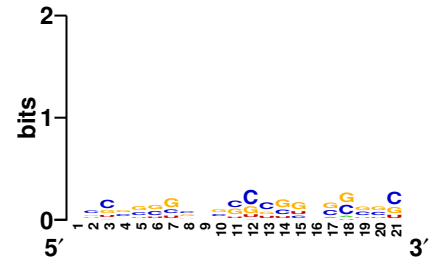
19-mers:



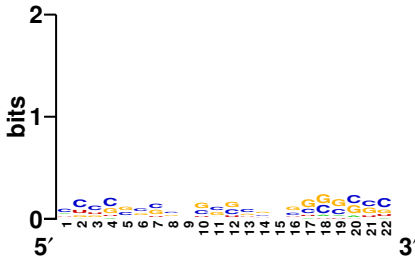
20-mers:



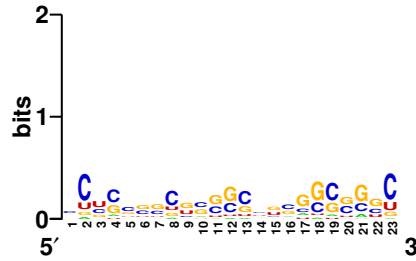
21-mers:



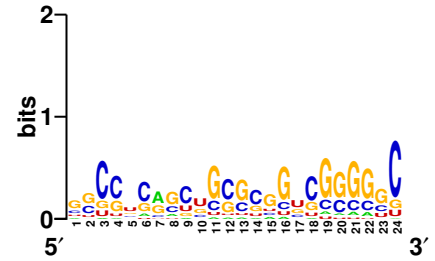
22-mers:



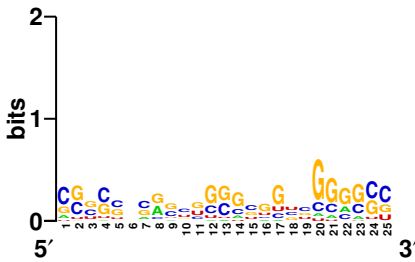
23-mers:



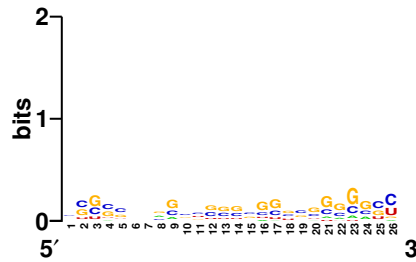
24-mers:



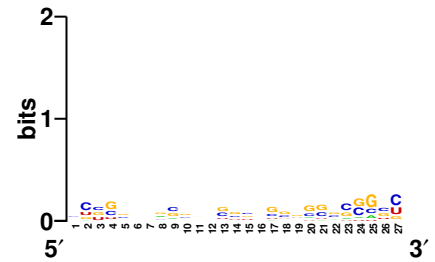
25-mers:



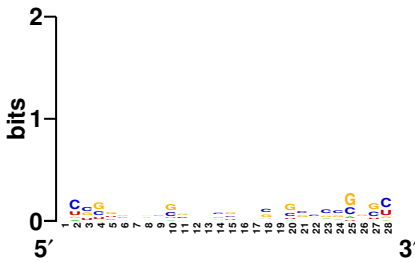
26-mers:



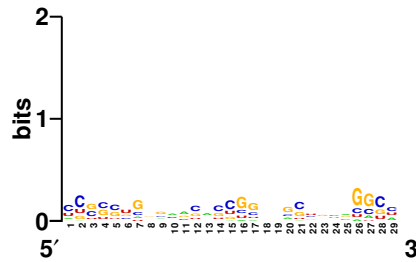
27-mers:



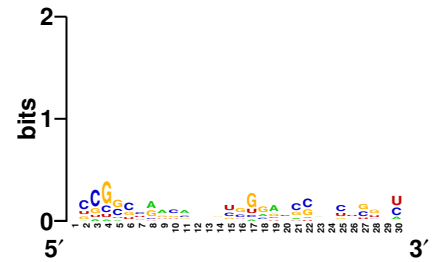
28-mers:



29-mers:

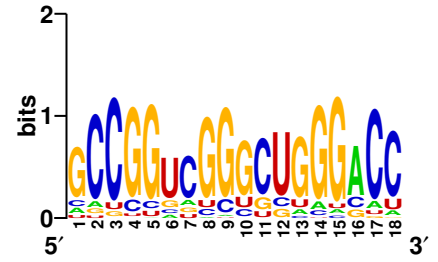


30-mers:

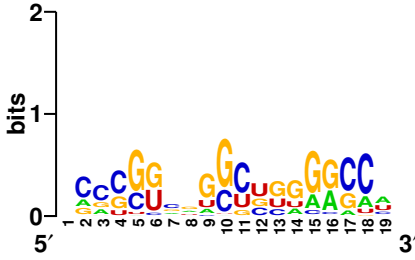


Antisense reads:

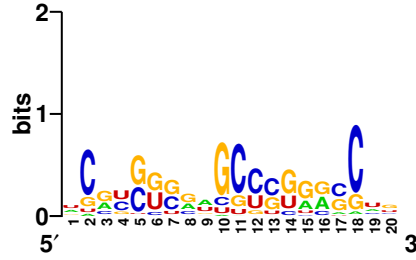
18-mers:



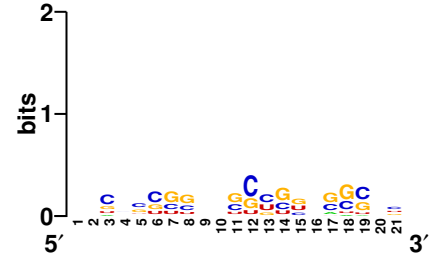
19-mers:



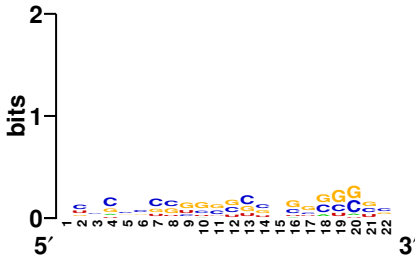
20-mers:



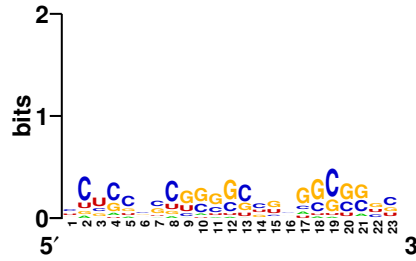
21-mers:



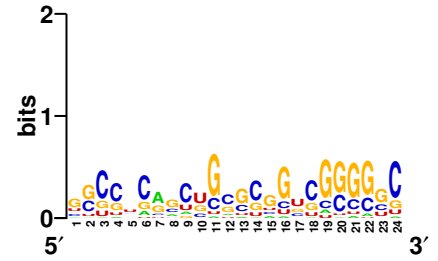
22-mers:



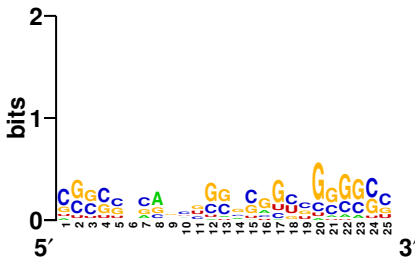
23-mers:



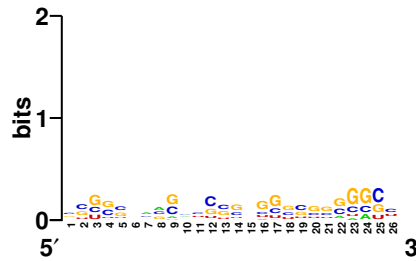
24-mers:



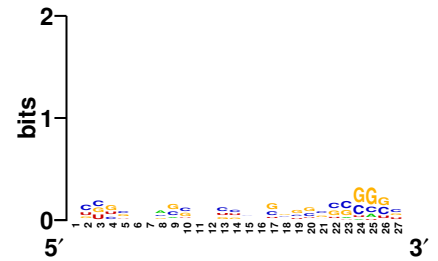
25-mers:



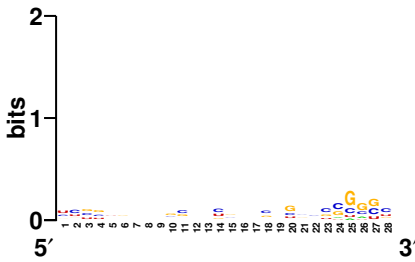
26-mers:



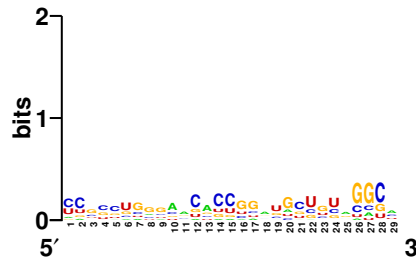
27-mers:



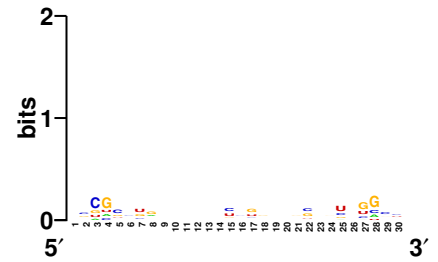
28-mers:



29-mers:



30-mers:

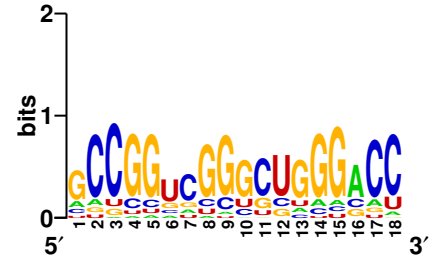
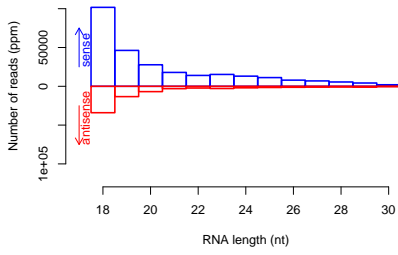




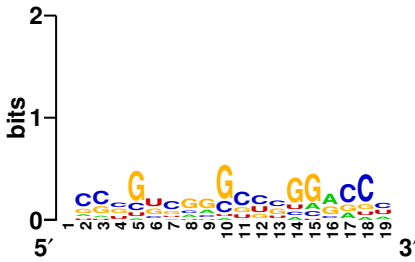
Embryo 60h, library 3:

Sense reads:

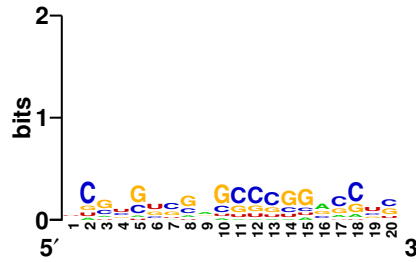
18-mers:



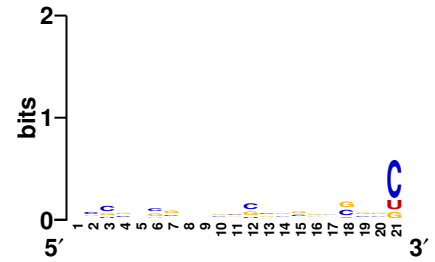
19-mers:



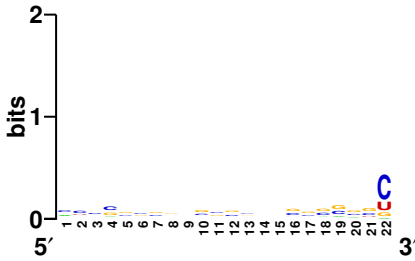
20-mers:



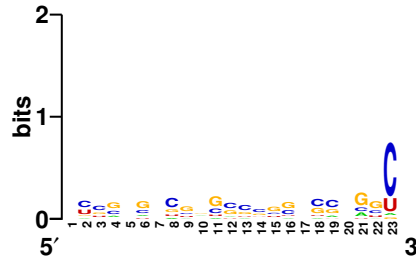
21-mers:



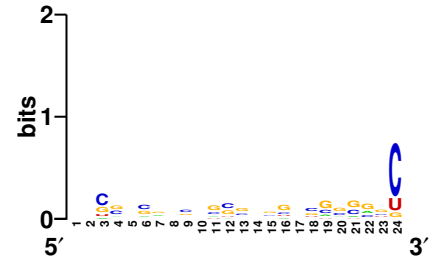
22-mers:



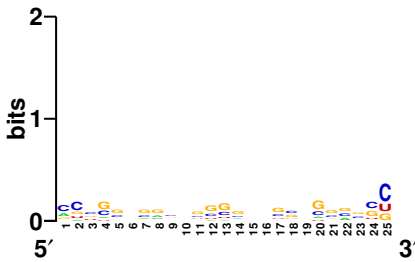
23-mers:



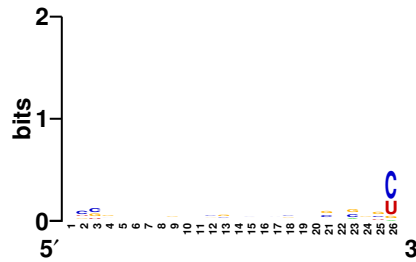
24-mers:



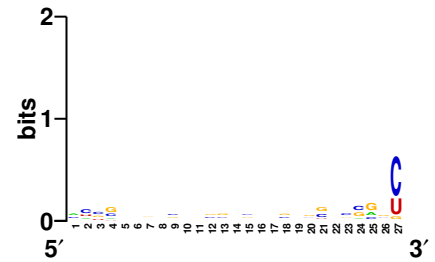
25-mers:



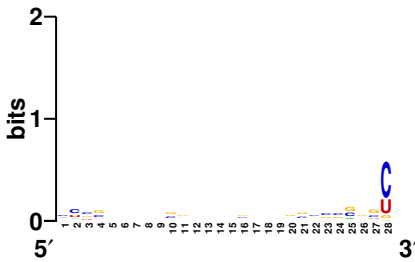
26-mers:



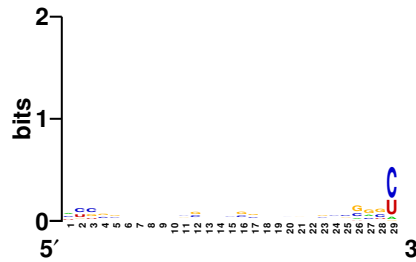
27-mers:



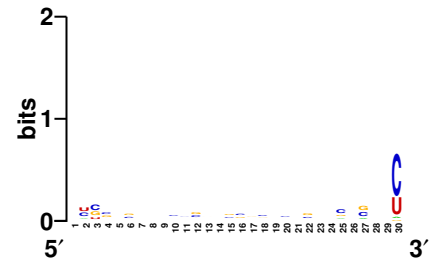
28-mers:



29-mers:

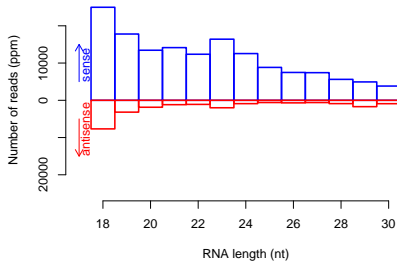


30-mers:



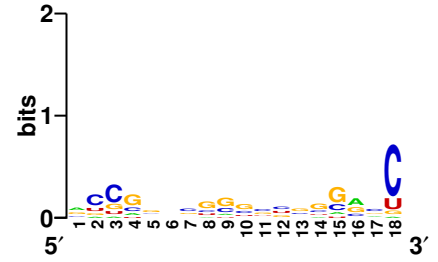


Adult female, library 3:

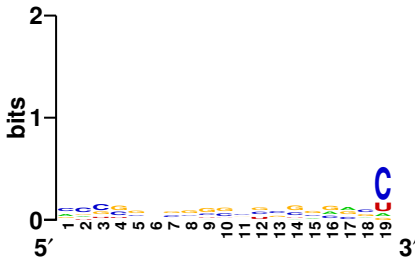


Sense reads:

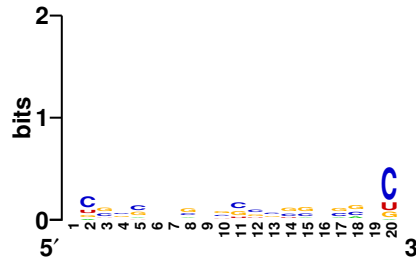
18-mers:



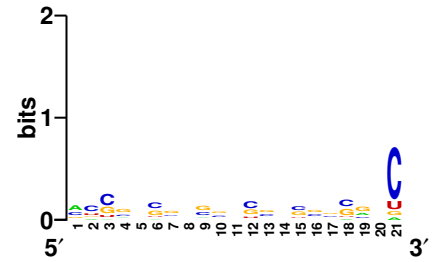
19-mers:



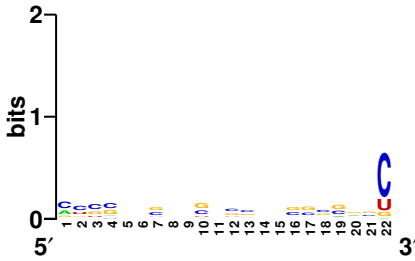
20-mers:



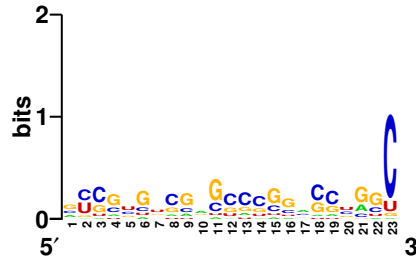
21-mers:



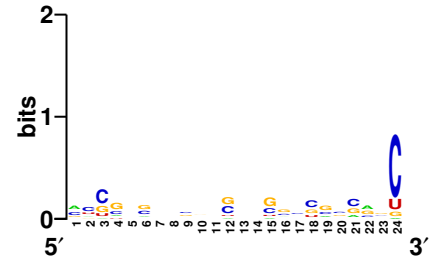
22-mers:



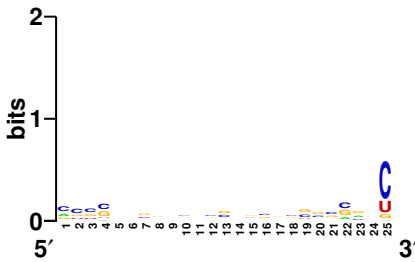
23-mers:



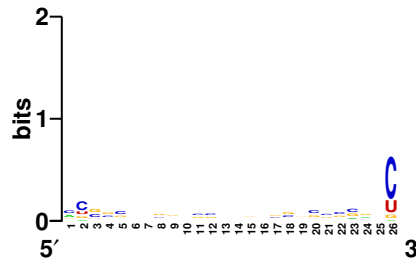
24-mers:



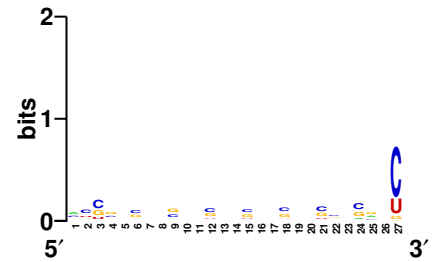
25-mers:



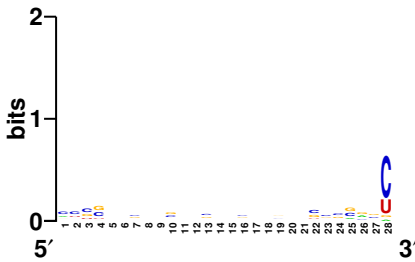
26-mers:



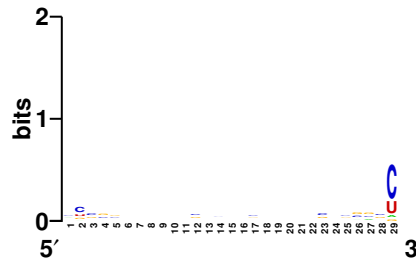
27-mers:



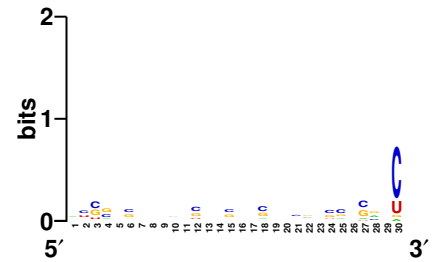
28-mers:



29-mers:

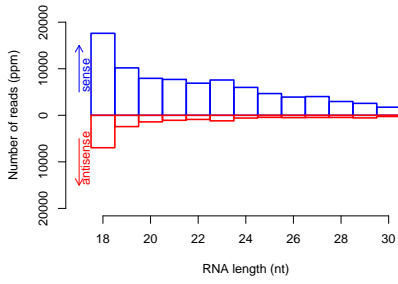


30-mers:



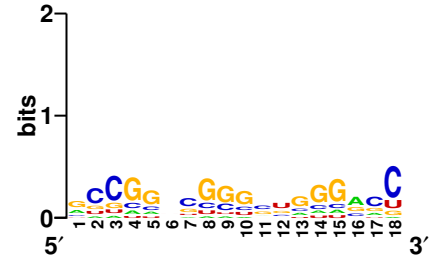


Adult male, library 3:

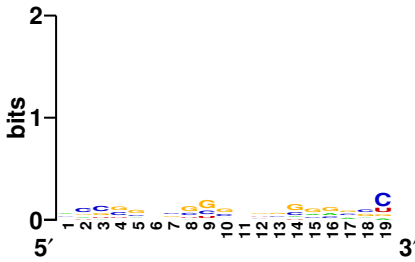


Sense reads:

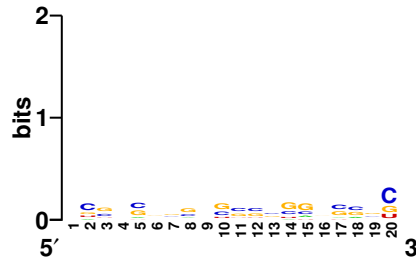
18-mers:



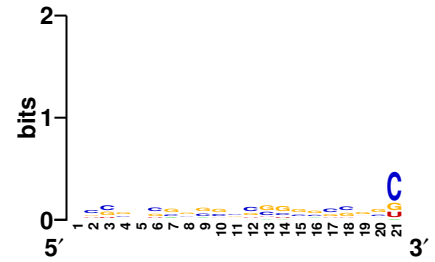
19-mers:



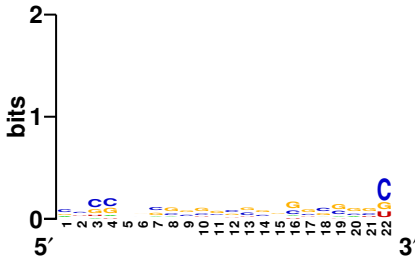
20-mers:



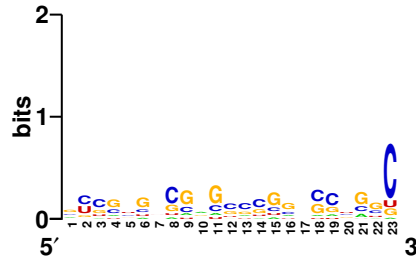
21-mers:



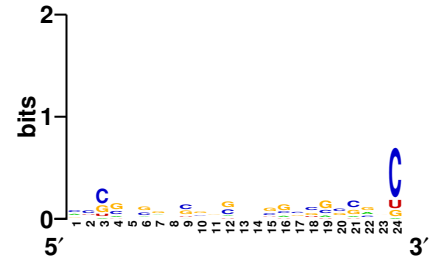
22-mers:



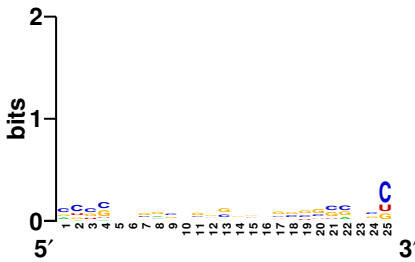
23-mers:



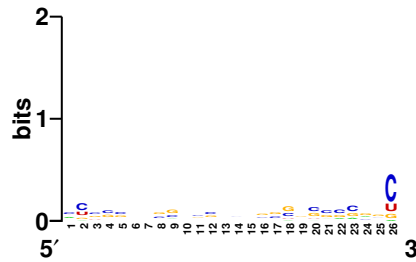
24-mers:



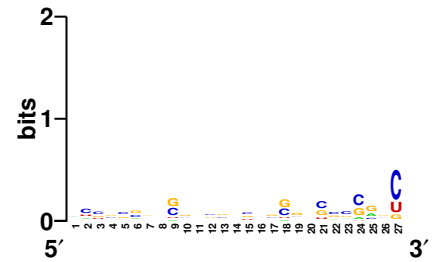
25-mers:



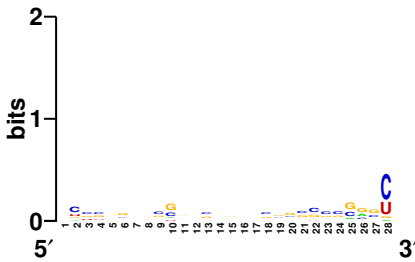
26-mers:



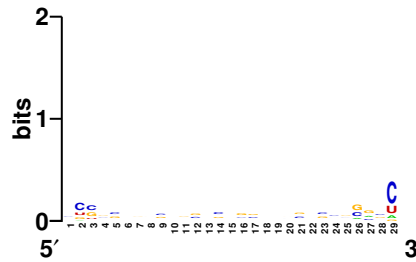
27-mers:



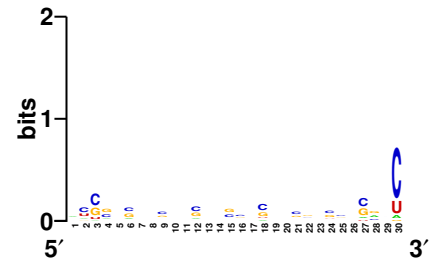
28-mers:



29-mers:

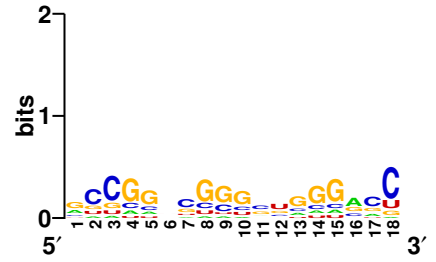


30-mers:

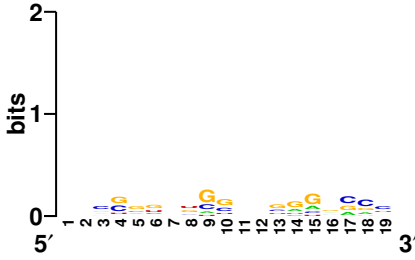


Antisense reads:

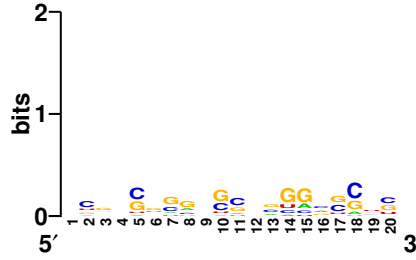
18-mers:



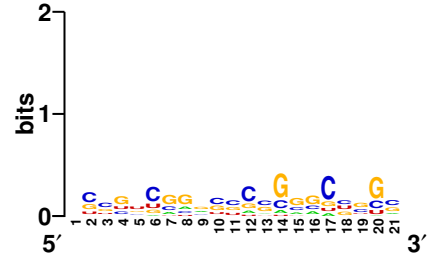
19-mers:



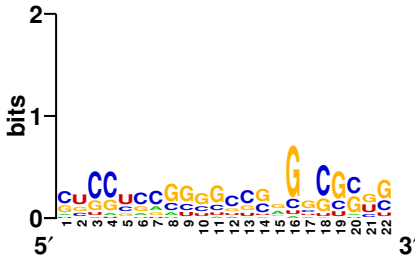
20-mers:



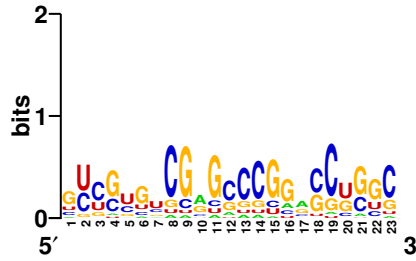
21-mers:



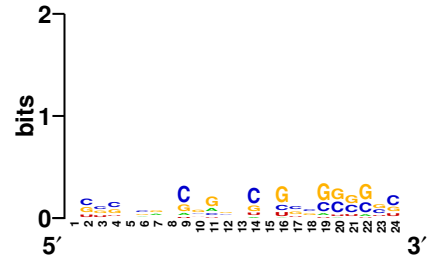
22-mers:



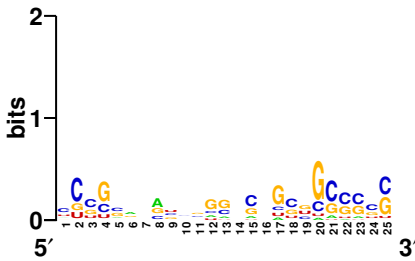
23-mers:



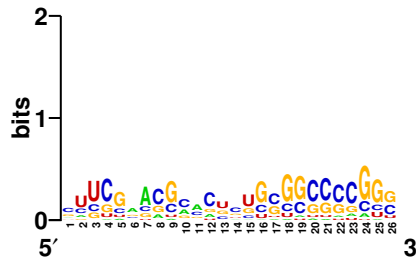
24-mers:



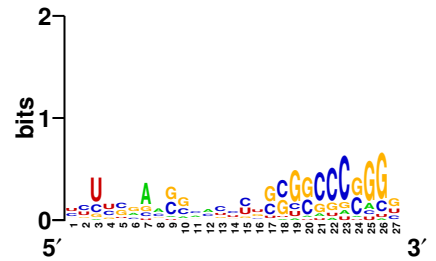
25-mers:



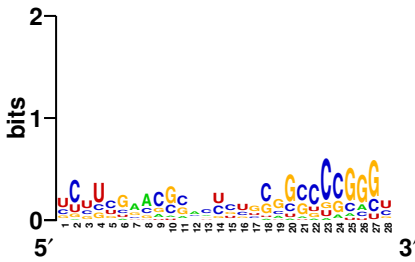
26-mers:



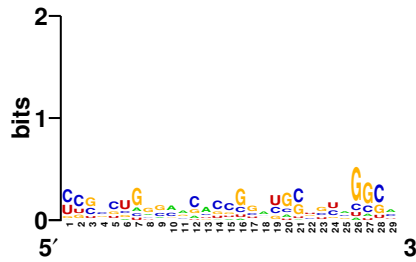
27-mers:



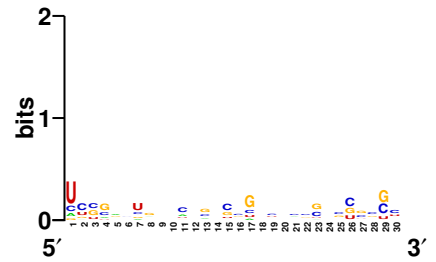
28-mers:



29-mers:



30-mers:

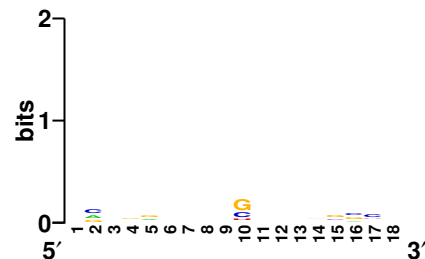
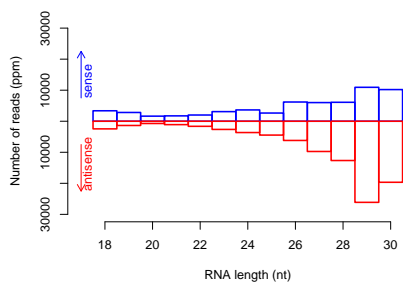


### 3.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 4:

Sense reads:

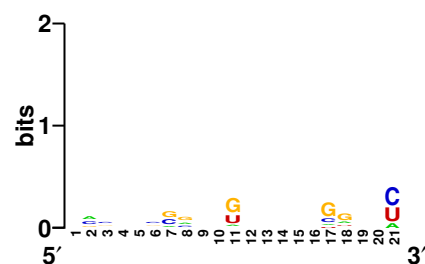
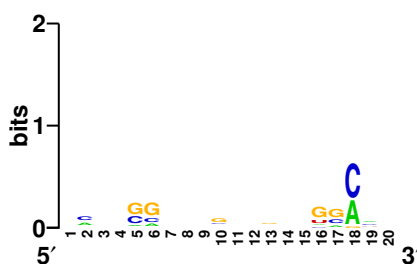
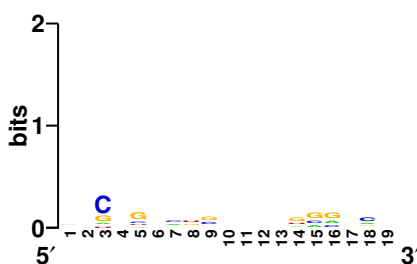
18-mers:



19-mers:

20-mers:

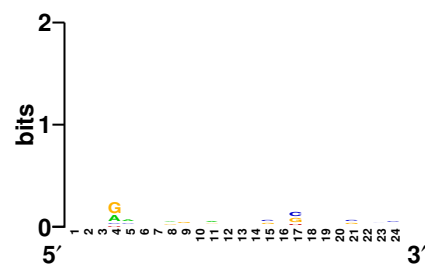
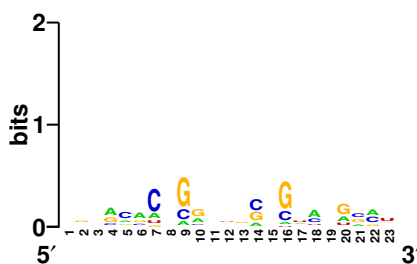
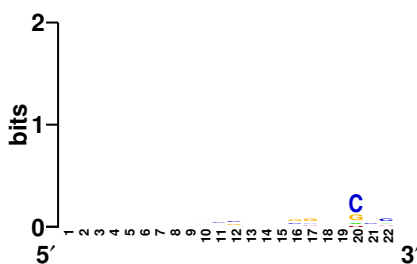
21-mers:



22-mers:

23-mers:

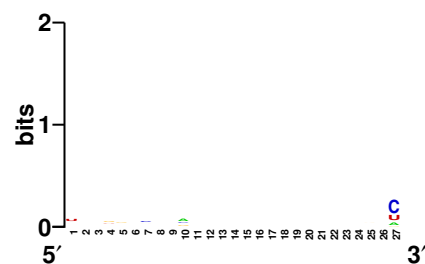
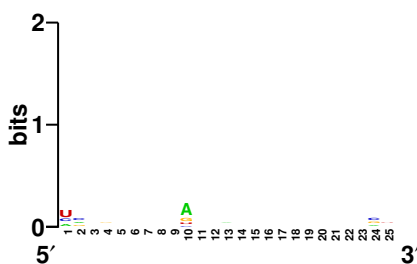
24-mers:



25-mers:

26-mers:

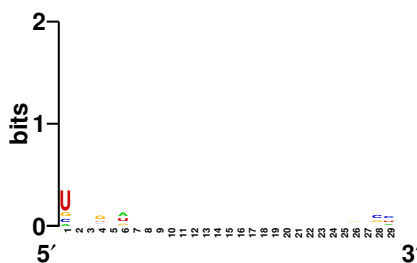
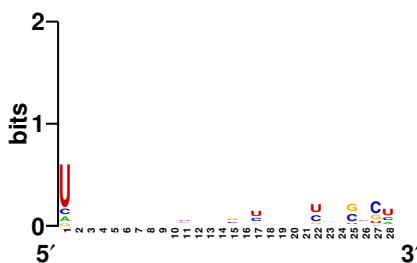
27-mers:



28-mers:

29-mers:

30-mers:



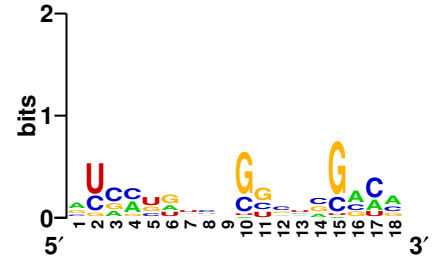
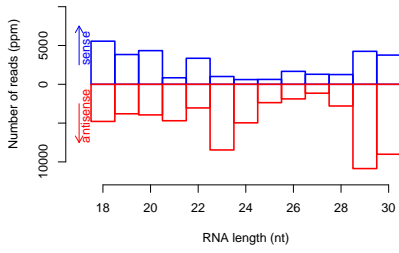




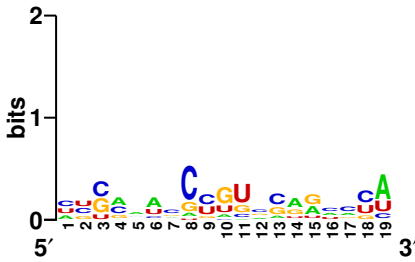
Embryo 15h, library 4:

Sense reads:

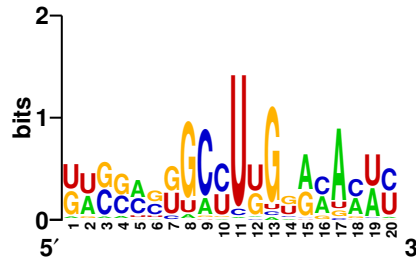
18-mers:



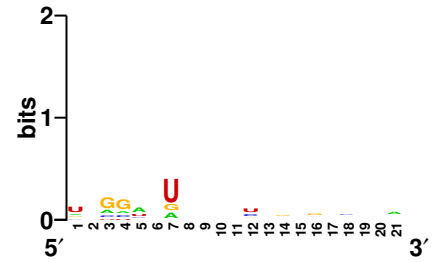
19-mers:



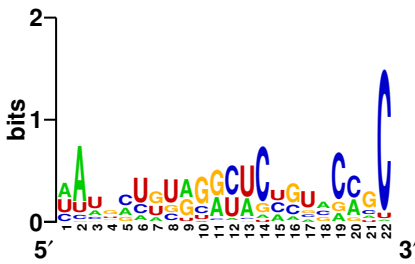
20-mers:



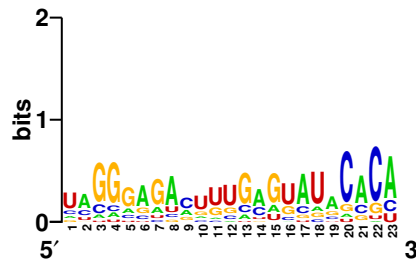
21-mers:



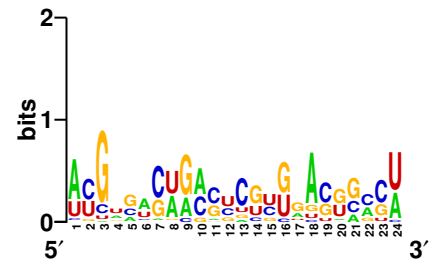
22-mers:



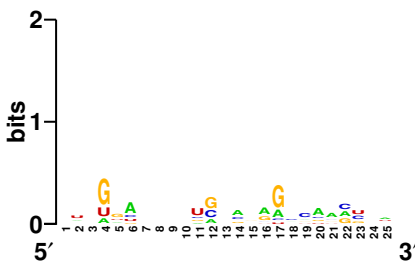
23-mers:



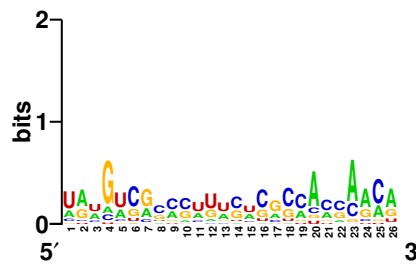
24-mers:



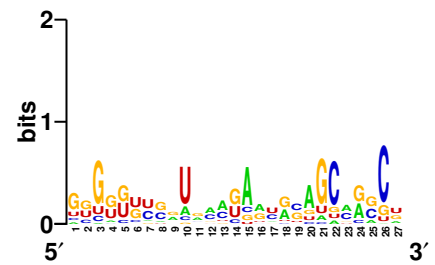
25-mers:



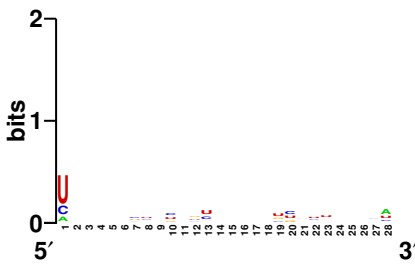
26-mers:



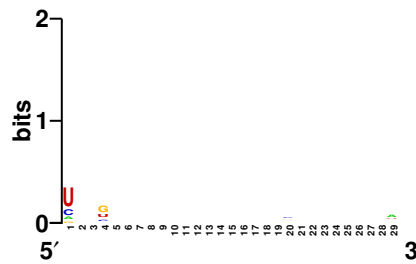
27-mers:



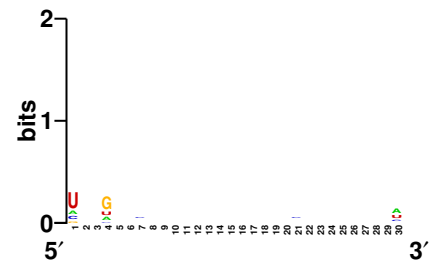
28-mers:



29-mers:

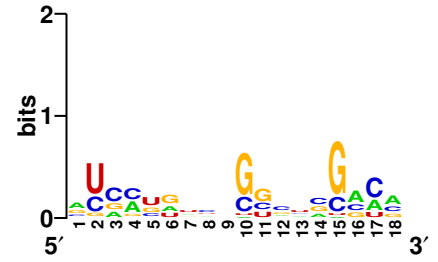


30-mers:

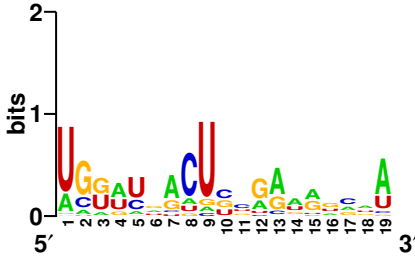


Antisense reads:

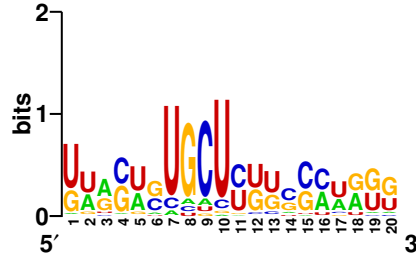
18-mers:



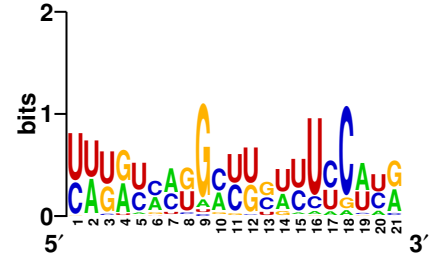
19-mers:



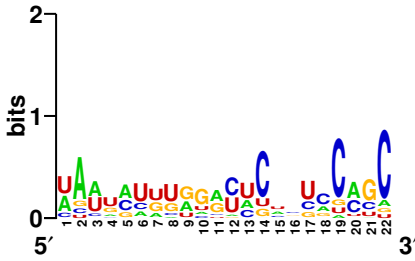
20-mers:



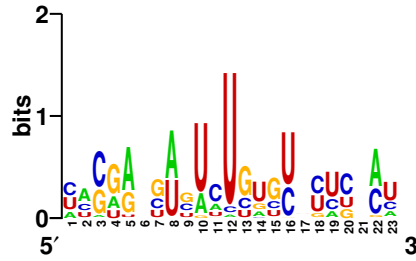
21-mers:



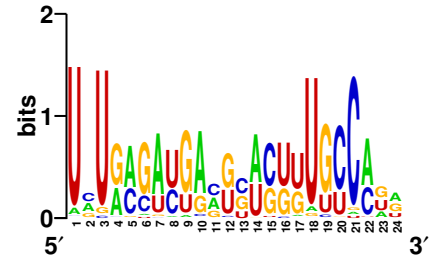
22-mers:



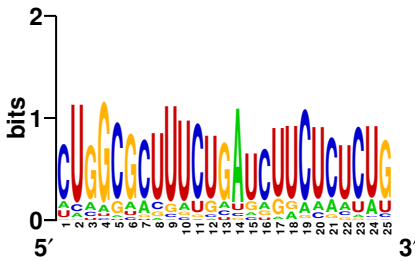
23-mers:



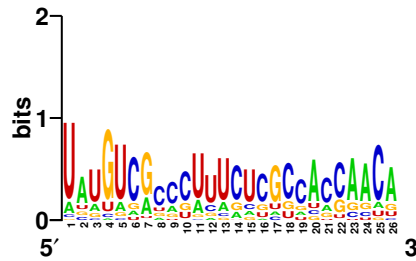
24-mers:



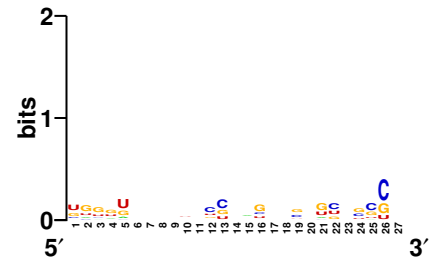
25-mers:



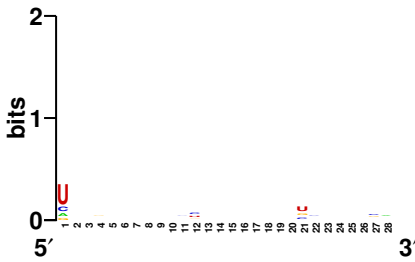
26-mers:



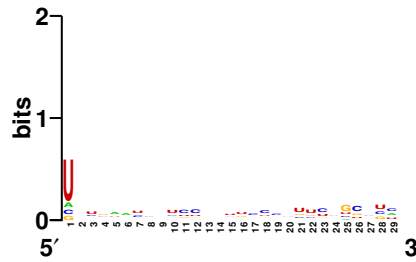
27-mers:



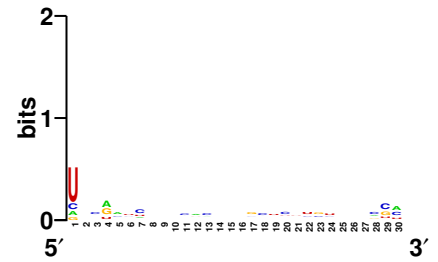
28-mers:



29-mers:



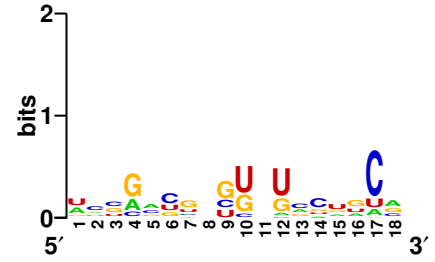
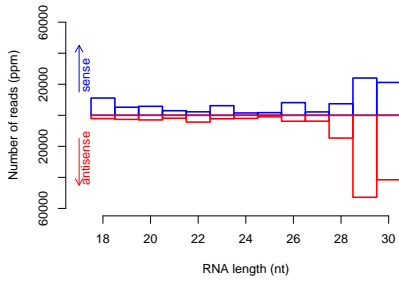
30-mers:



Embryo 36h, library 4:

Sense reads:

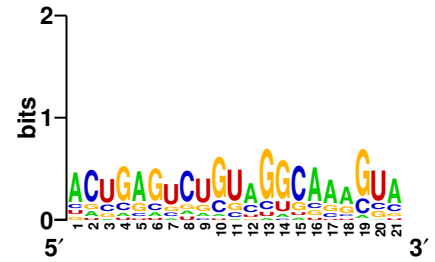
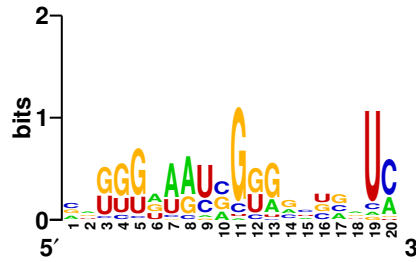
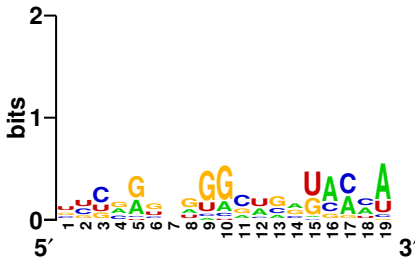
18-mers:



19-mers:

20-mers:

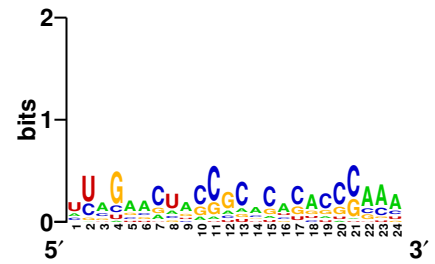
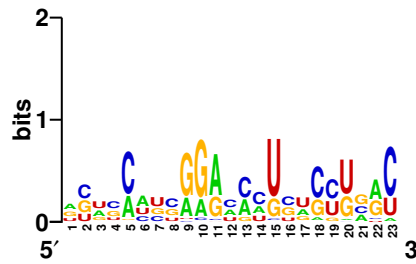
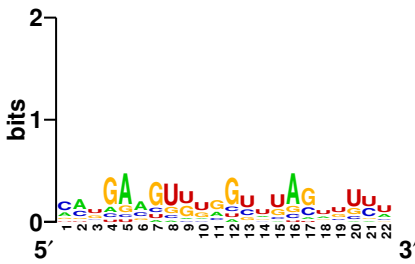
21-mers:



22-mers:

23-mers:

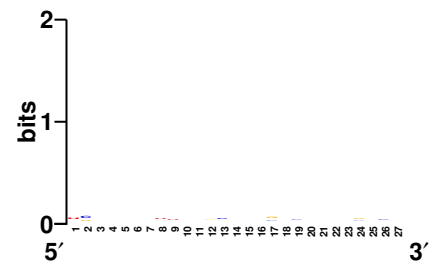
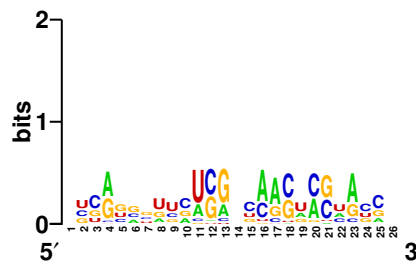
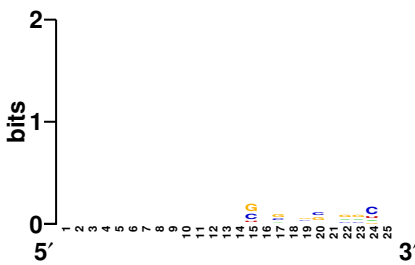
24-mers:



25-mers:

26-mers:

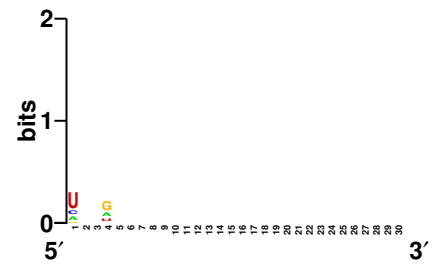
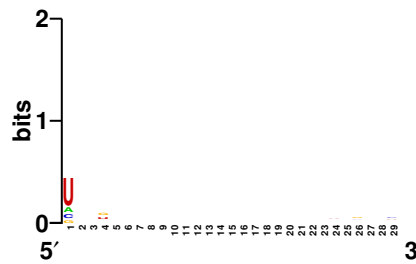
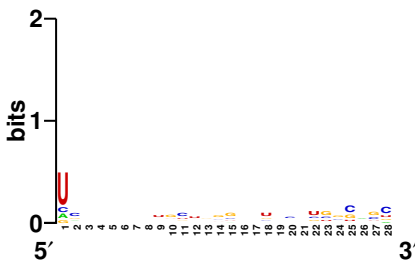
27-mers:



28-mers:

29-mers:

30-mers:

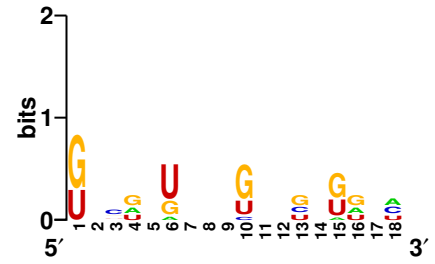
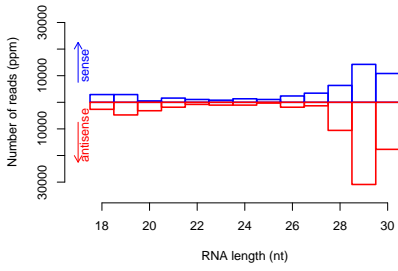




Embryo 60h, library 4:

Sense reads:

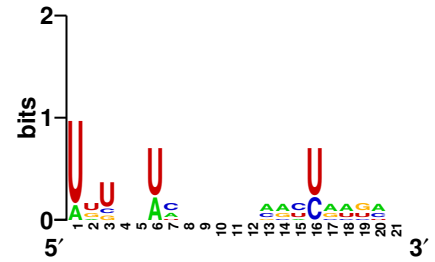
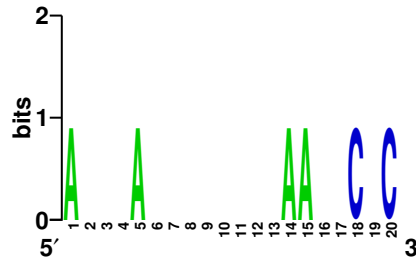
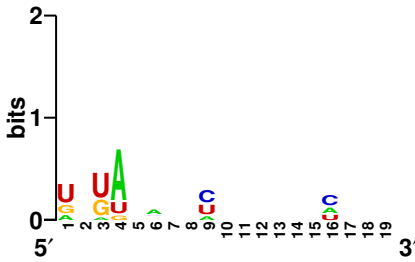
18-mers:



19-mers:

20-mers:

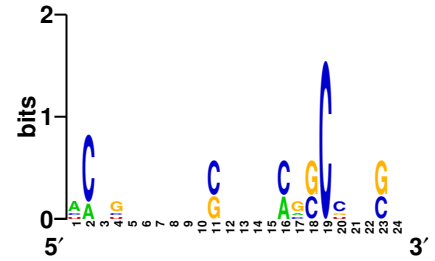
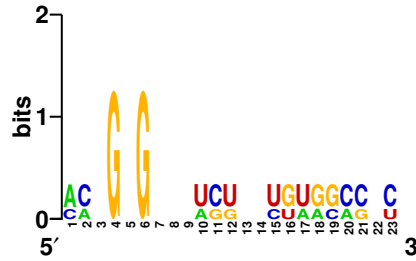
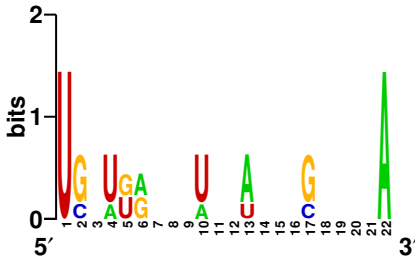
21-mers:



22-mers:

23-mers:

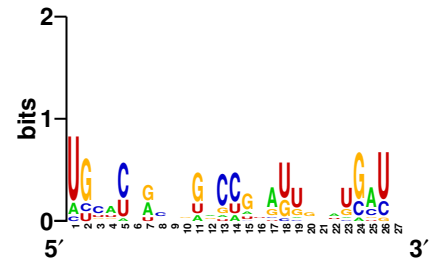
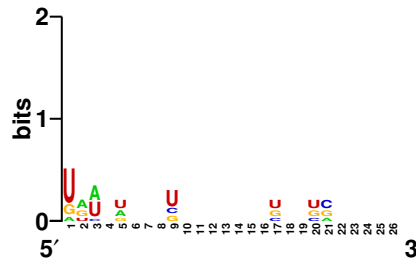
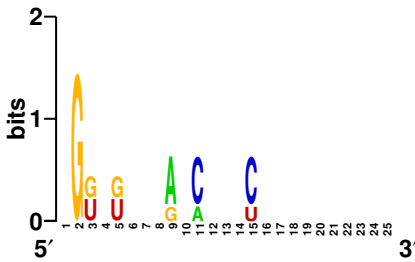
24-mers:



25-mers:

26-mers:

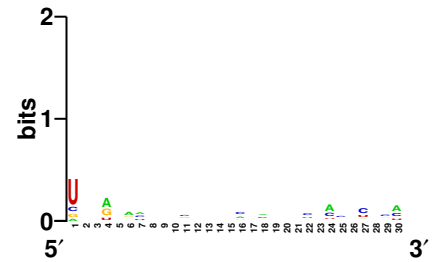
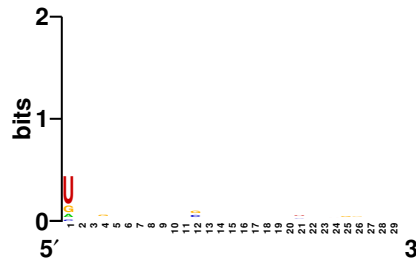
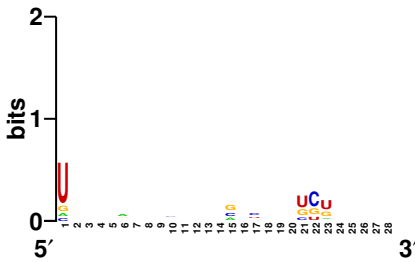
27-mers:



28-mers:

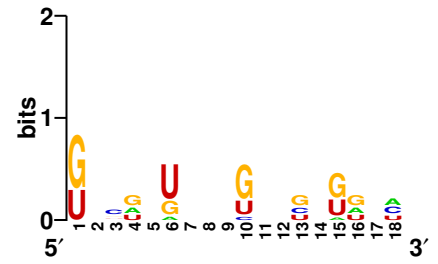
29-mers:

30-mers:

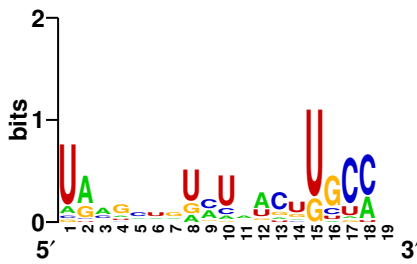


Antisense reads:

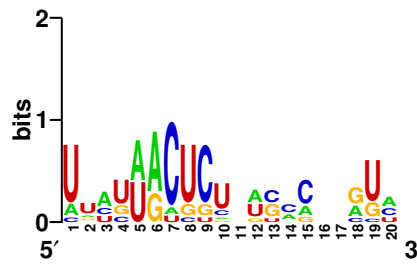
18-mers:



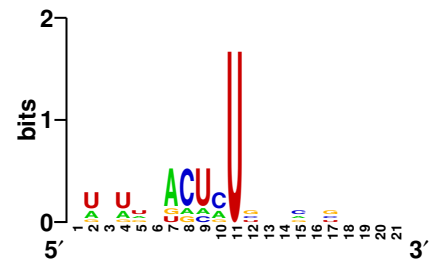
19-mers:



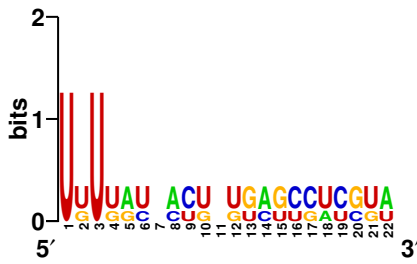
20-mers:



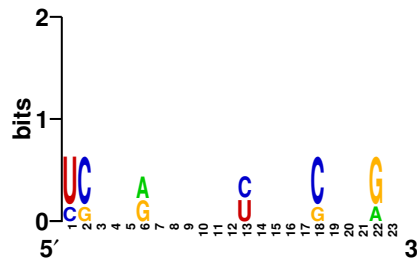
21-mers:



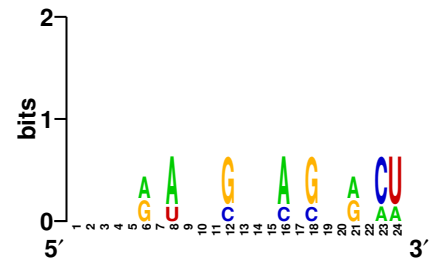
22-mers:



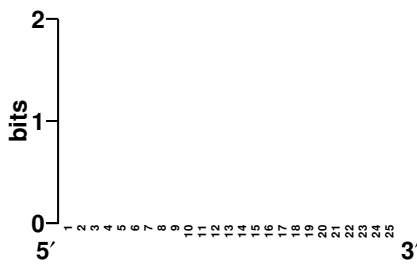
23-mers:



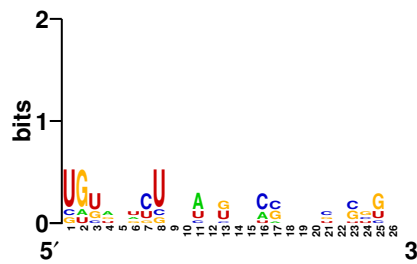
24-mers:



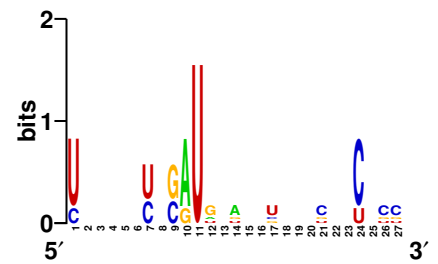
25-mers:



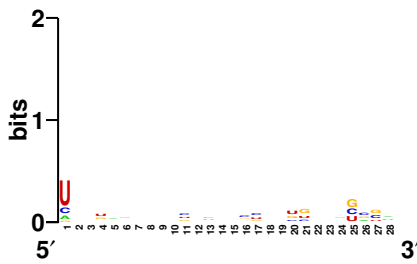
26-mers:



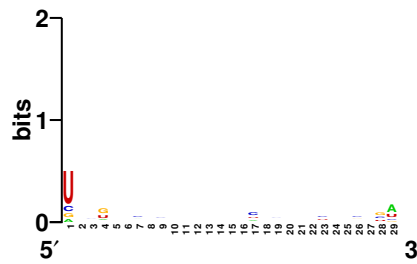
27-mers:



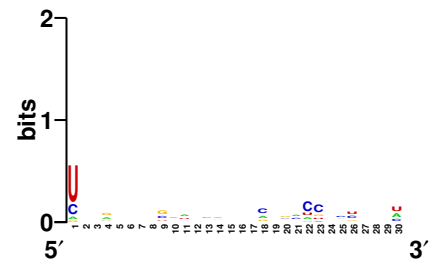
28-mers:



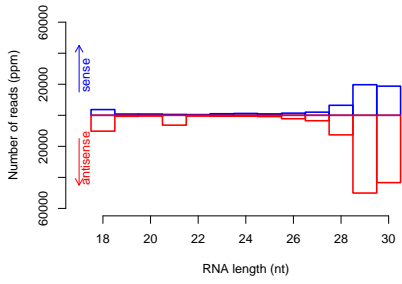
29-mers:



30-mers:

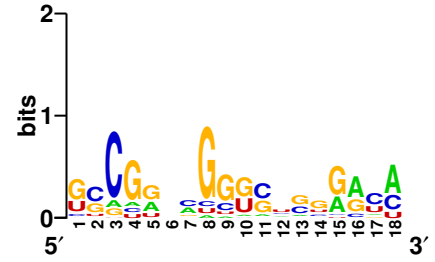


Adult female, library 4:

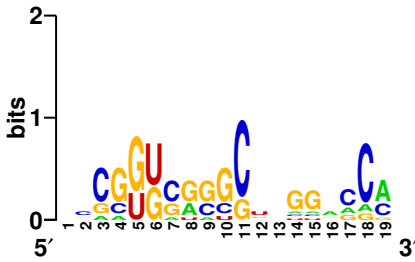


Sense reads:

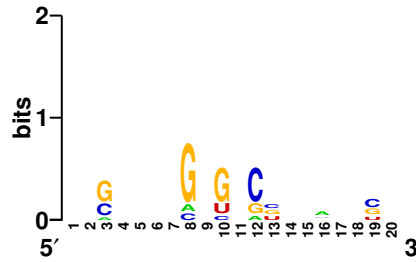
18-mers:



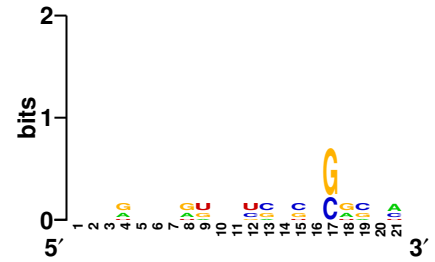
19-mers:



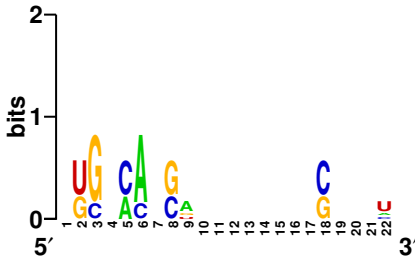
20-mers:



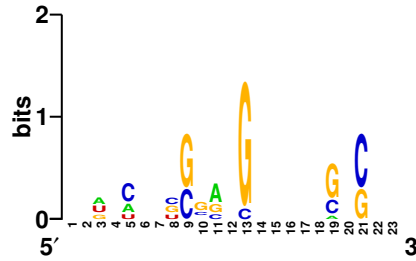
21-mers:



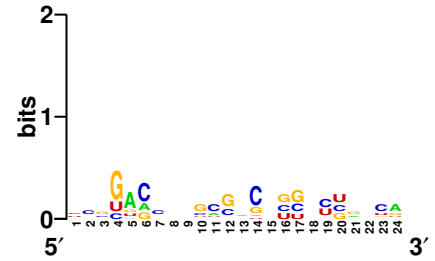
22-mers:



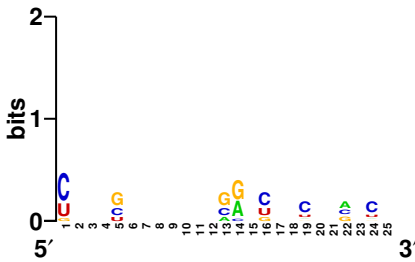
23-mers:



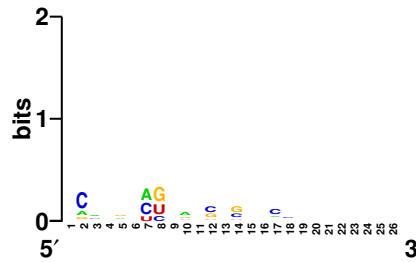
24-mers:



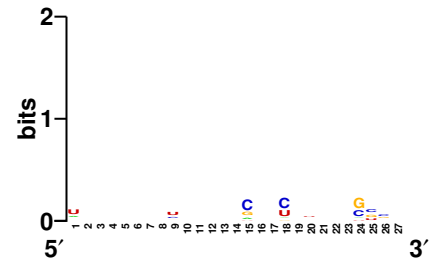
25-mers:



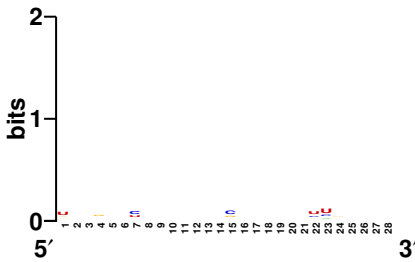
26-mers:



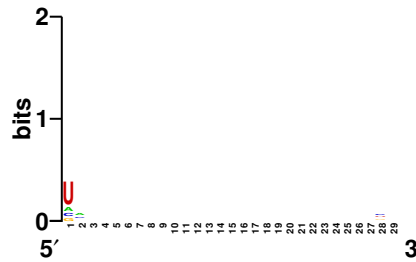
27-mers:



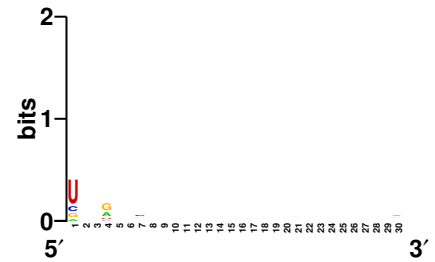
28-mers:



29-mers:



30-mers:



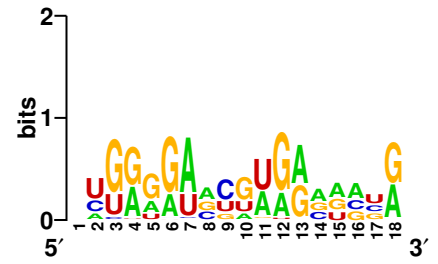




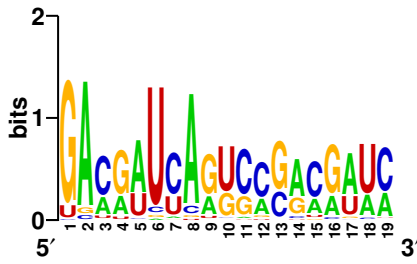


Antisense reads:

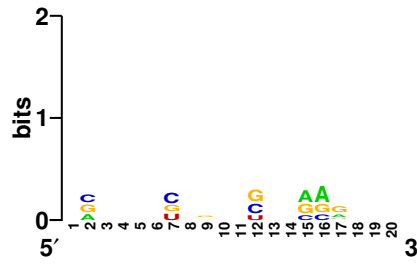
18-mers:



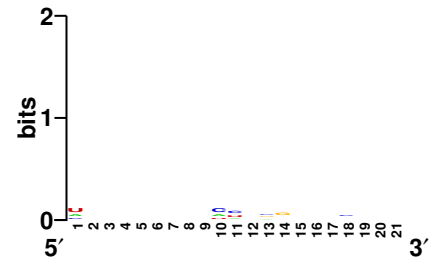
19-mers:



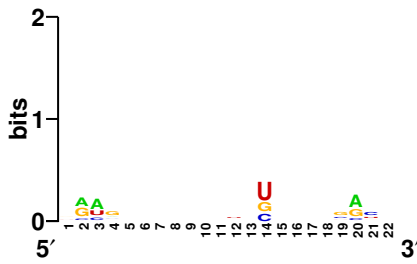
20-mers:



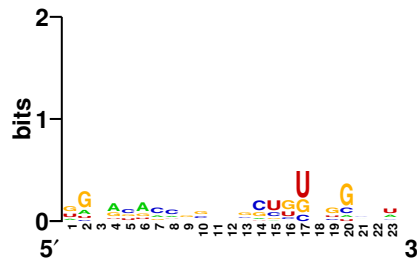
21-mers:



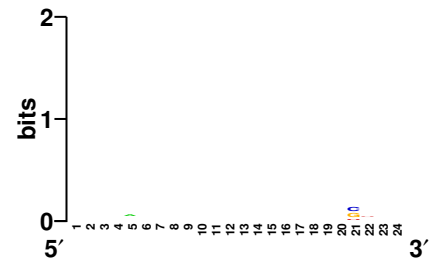
22-mers:



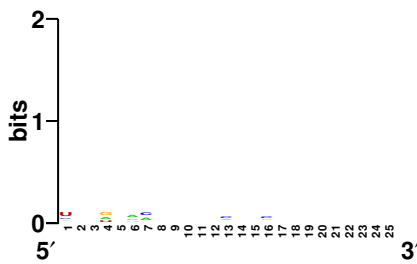
23-mers:



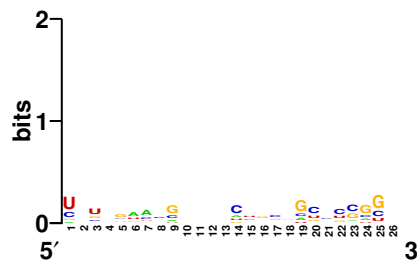
24-mers:



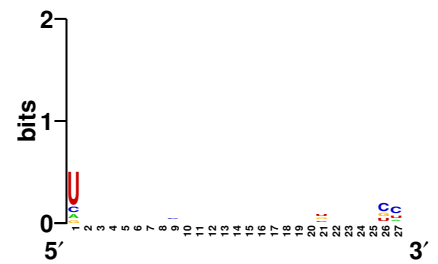
25-mers:



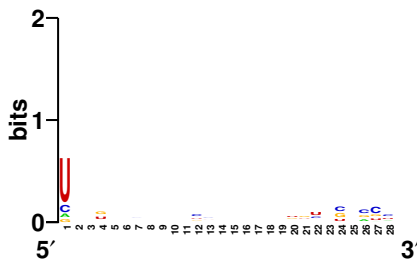
26-mers:



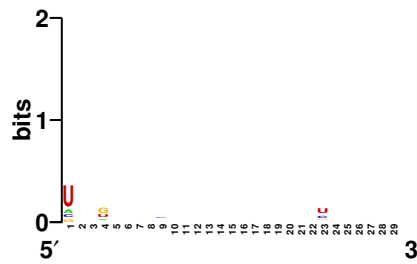
27-mers:



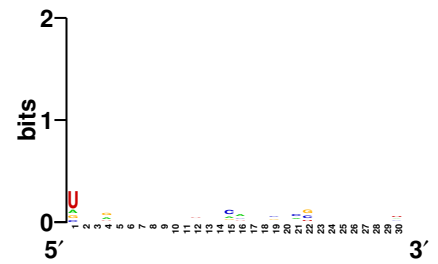
28-mers:



29-mers:



30-mers:



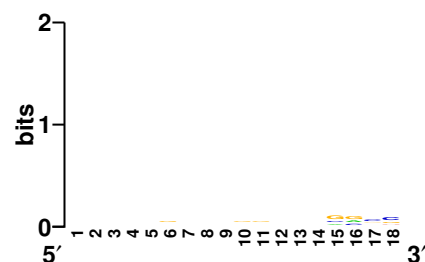
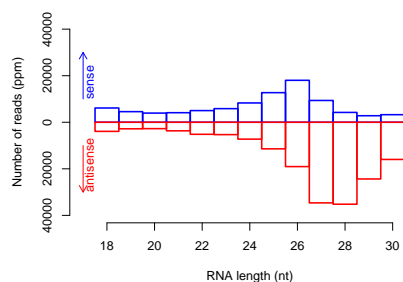
## 4 Reads matching RNAs with long ORF's

### 4.1 Libraries #1 (total 5' monophosphorylated small RNAs)

Embryo 8h, library 1:

Sense reads:

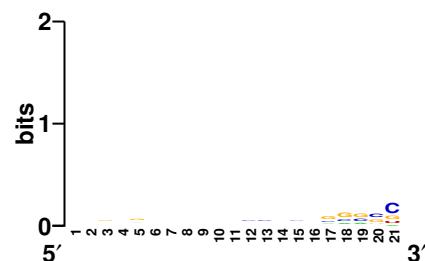
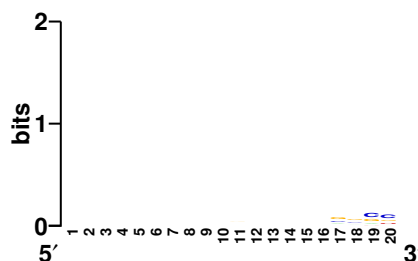
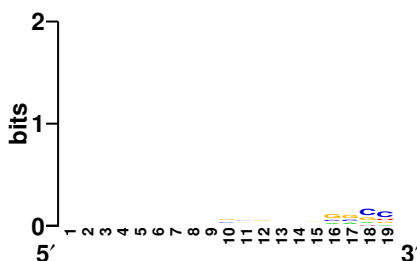
18-mers:



19-mers:

20-mers:

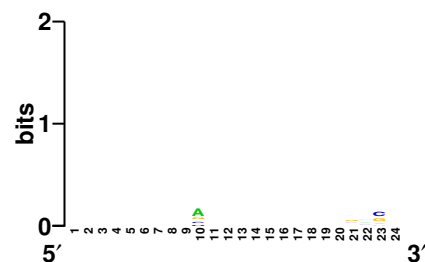
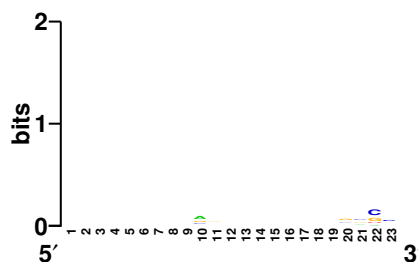
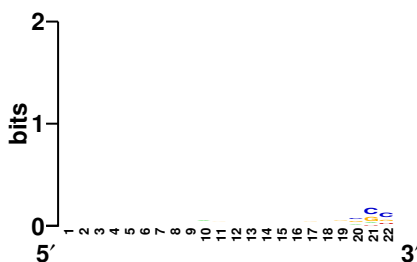
21-mers:



22-mers:

23-mers:

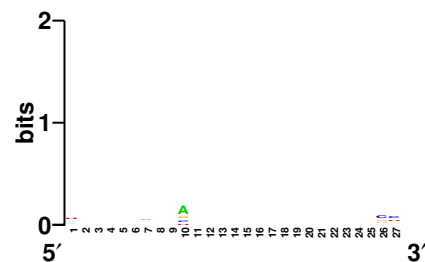
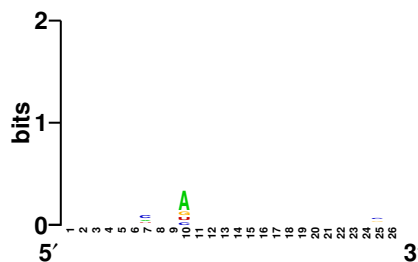
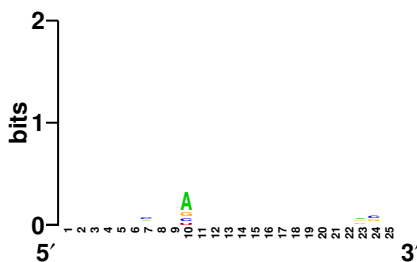
24-mers:



25-mers:

26-mers:

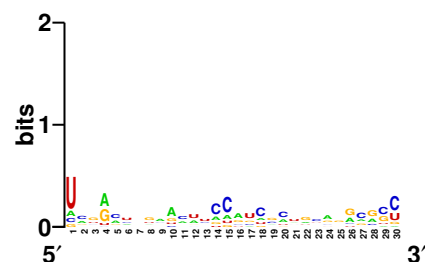
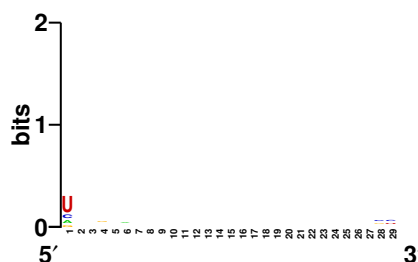
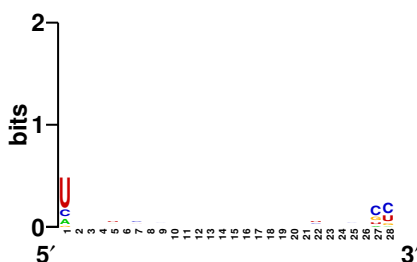
27-mers:



28-mers:

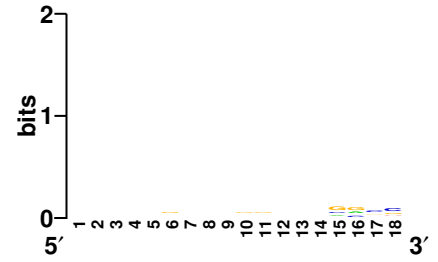
29-mers:

30-mers:

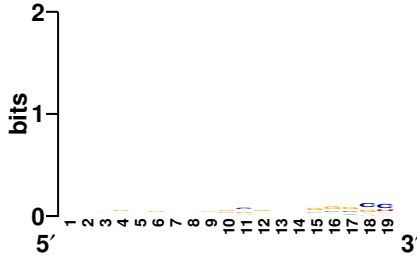


Antisense reads:

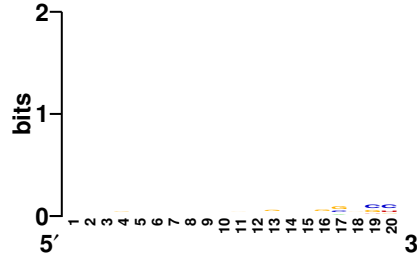
18-mers:



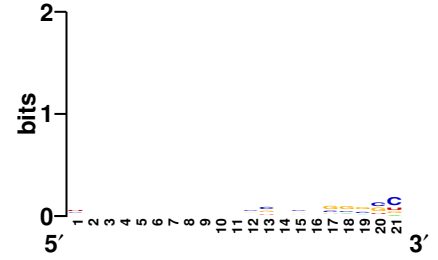
19-mers:



20-mers:



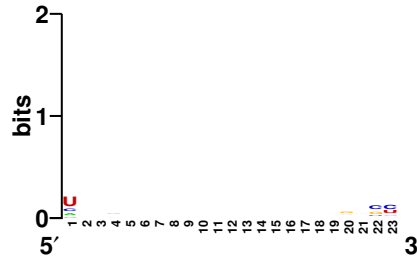
21-mers:



22-mers:



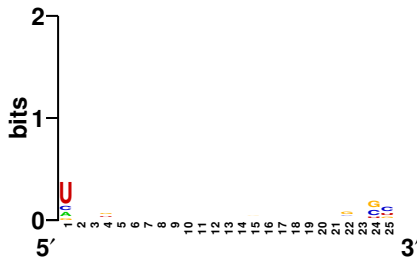
23-mers:



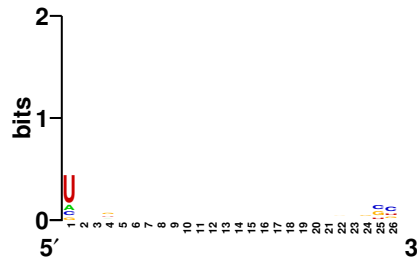
24-mers:



25-mers:



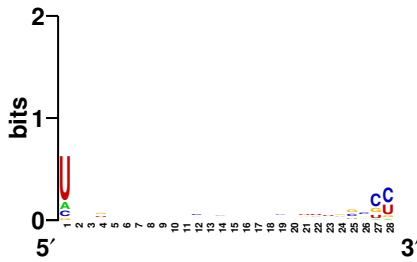
26-mers:



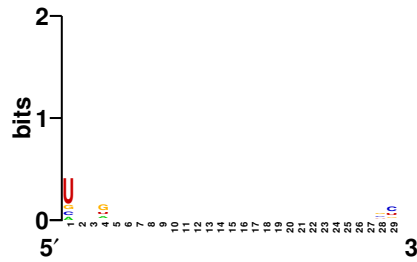
27-mers:



28-mers:



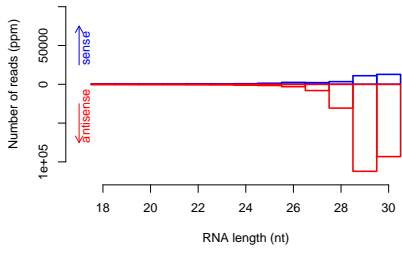
29-mers:



30-mers:

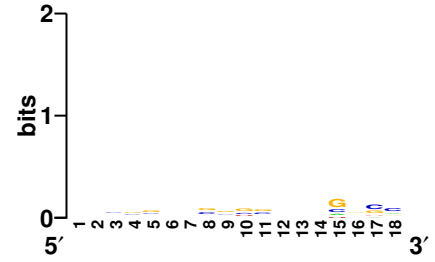


Embryo 15h, library 1:

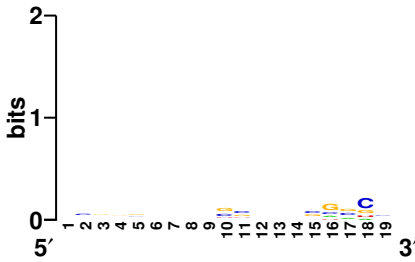


Sense reads:

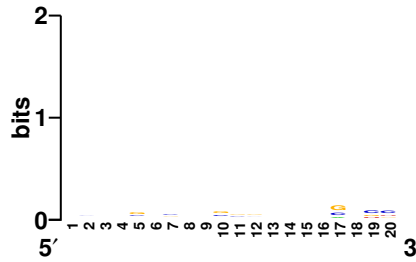
18-mers:



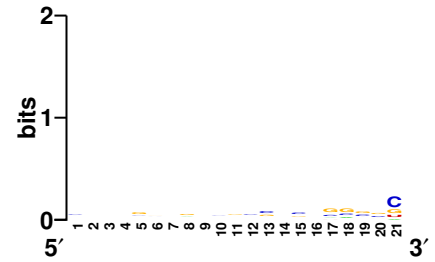
19-mers:



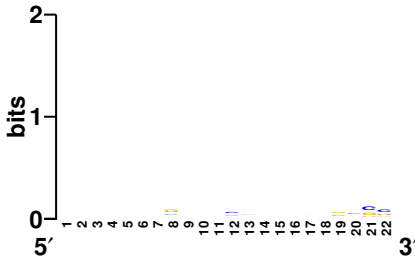
20-mers:



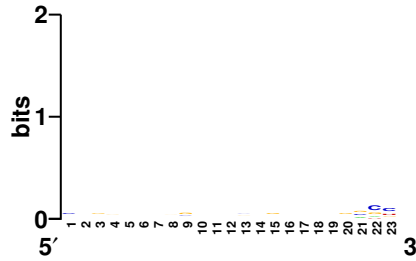
21-mers:



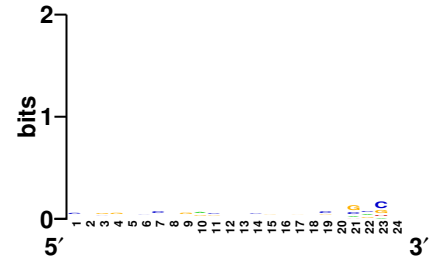
22-mers:



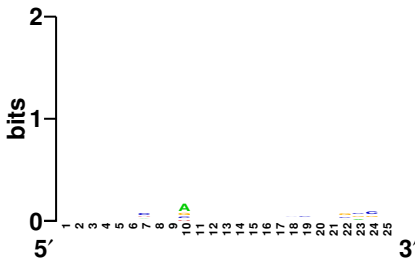
23-mers:



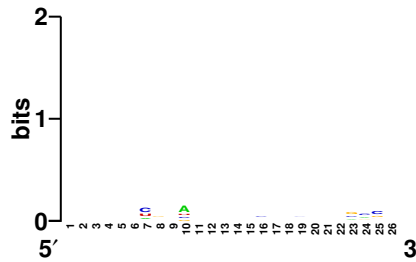
24-mers:



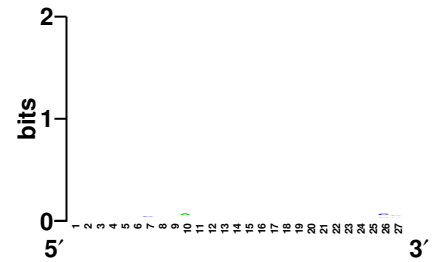
25-mers:



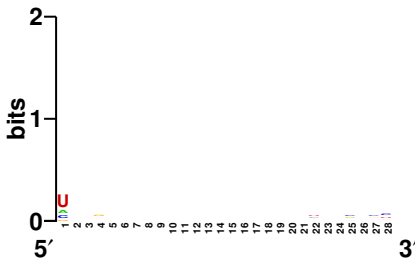
26-mers:



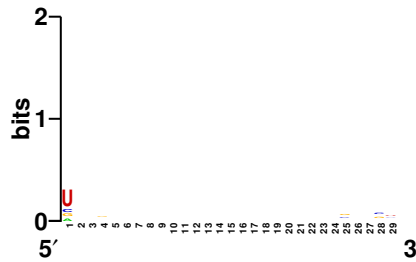
27-mers:



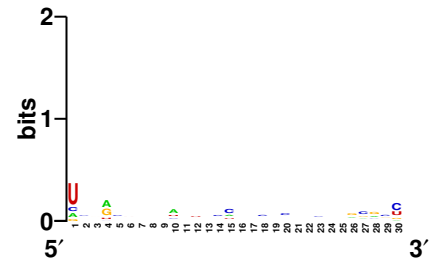
28-mers:



29-mers:

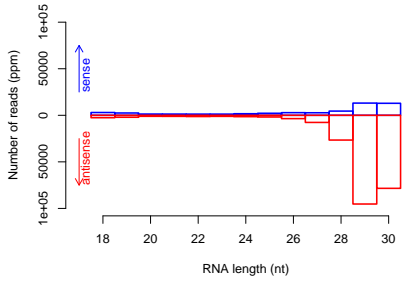


30-mers:



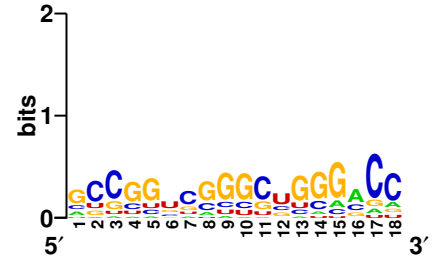


Embryo 36h, library 1:



Sense reads:

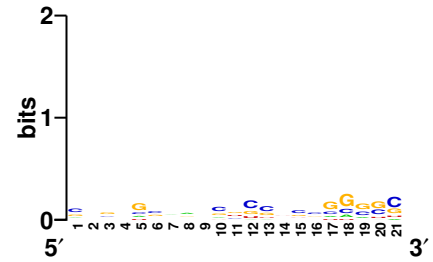
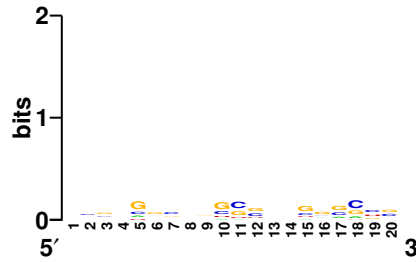
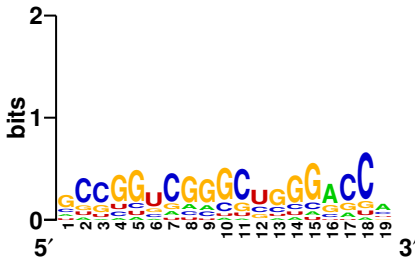
18-mers:



19-mers:

20-mers:

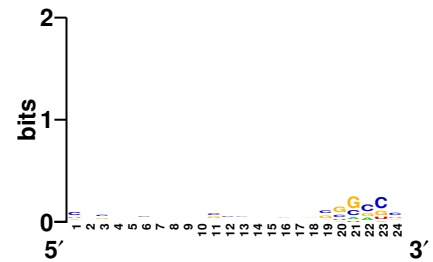
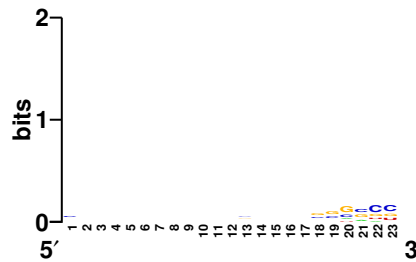
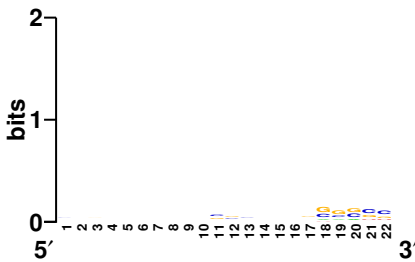
21-mers:



22-mers:

23-mers:

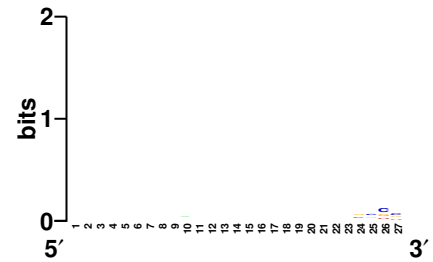
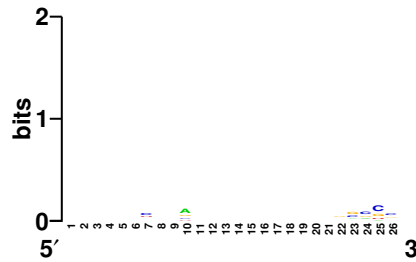
24-mers:



25-mers:

26-mers:

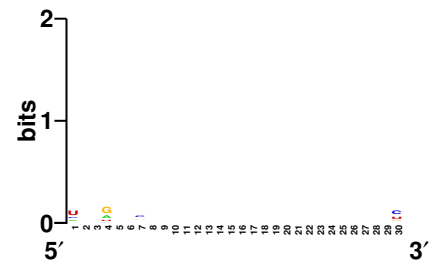
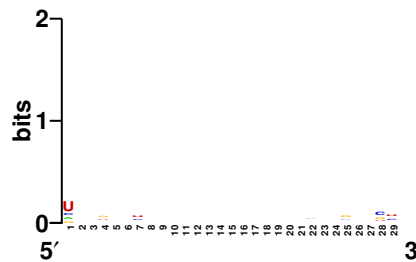
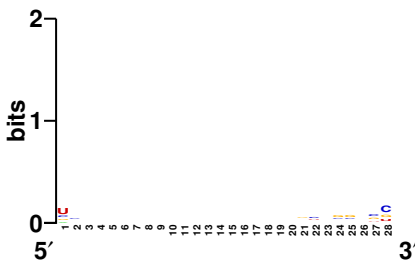
27-mers:



28-mers:

29-mers:

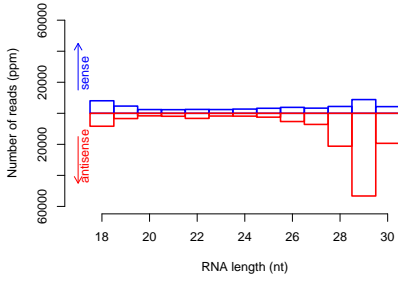
30-mers:





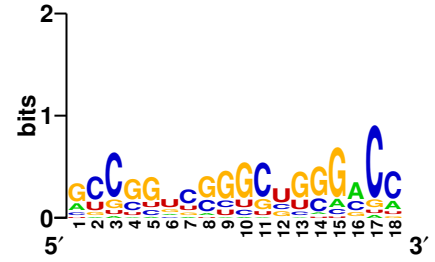


Embryo 60h, library 1:

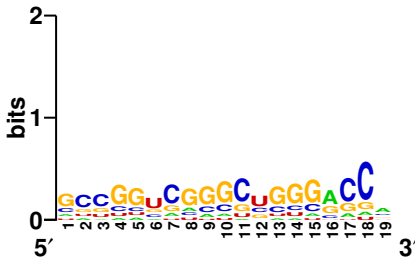


Sense reads:

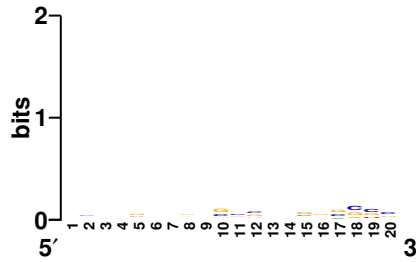
18-mers:



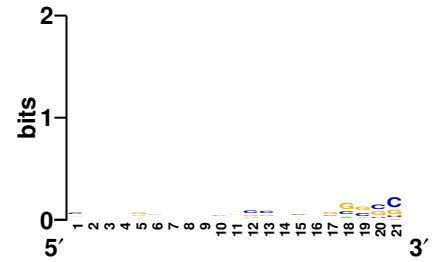
19-mers:



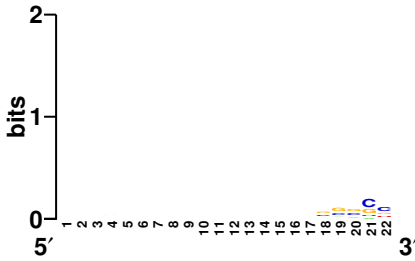
20-mers:



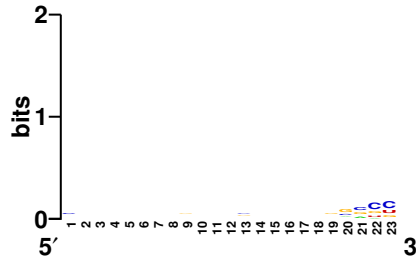
21-mers:



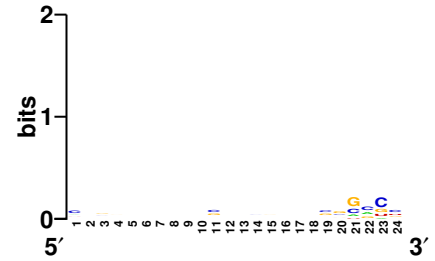
22-mers:



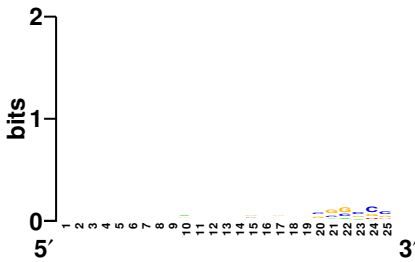
23-mers:



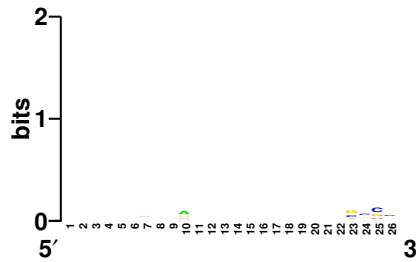
24-mers:



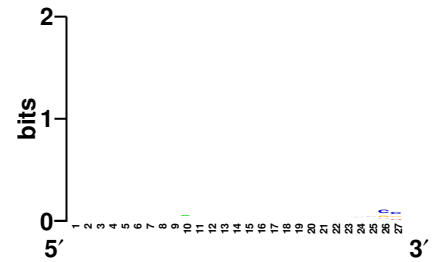
25-mers:



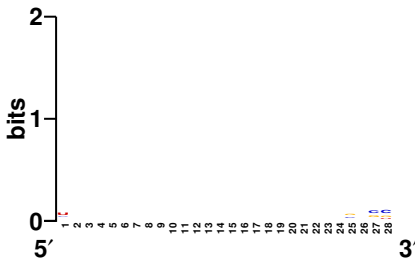
26-mers:



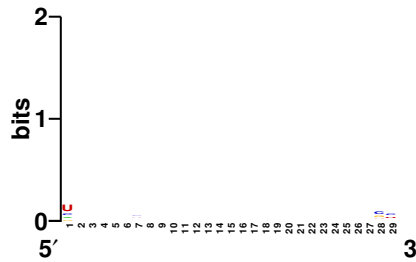
27-mers:



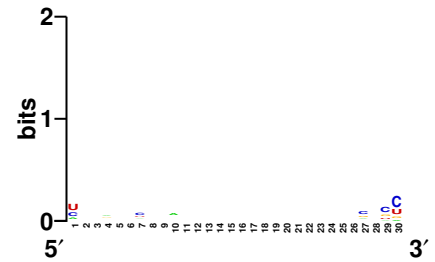
28-mers:



29-mers:

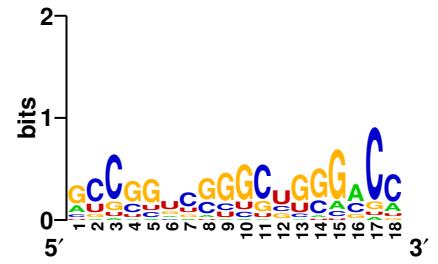


30-mers:

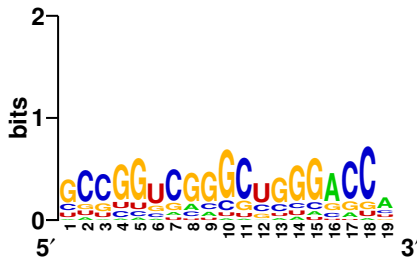


Antisense reads:

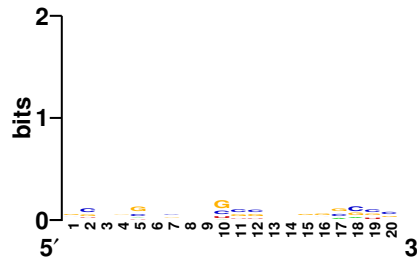
18-mers:



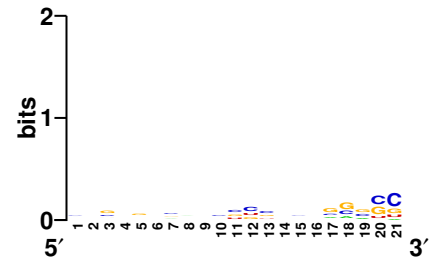
19-mers:



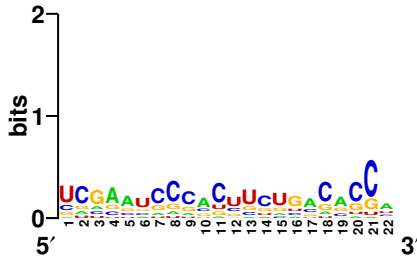
20-mers:



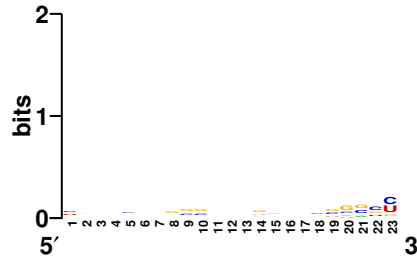
21-mers:



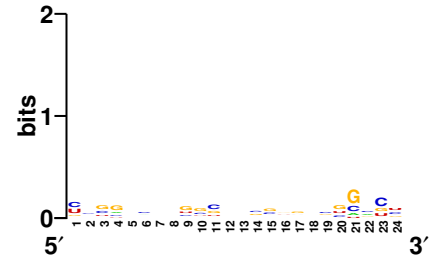
22-mers:



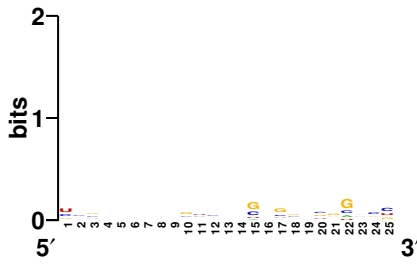
23-mers:



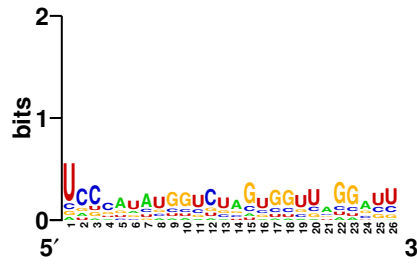
24-mers:



25-mers:



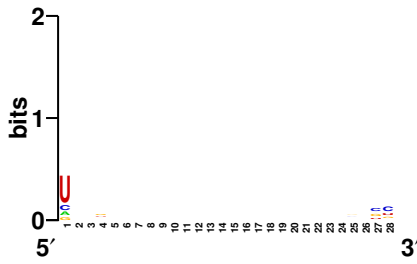
26-mers:



27-mers:



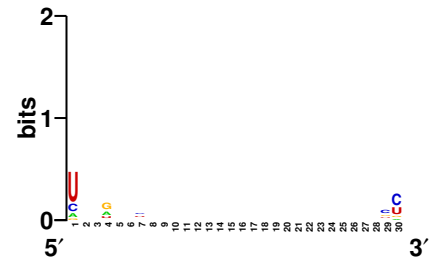
28-mers:



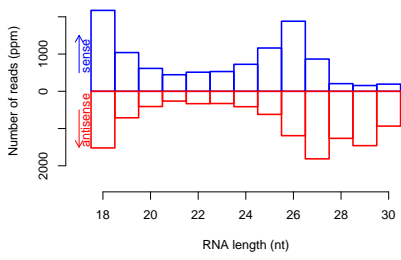
29-mers:



30-mers:

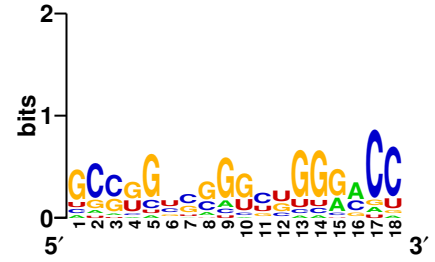


Adult female, library 1:

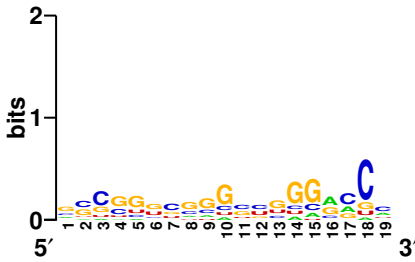


Sense reads:

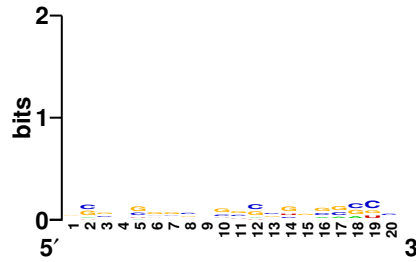
18-mers:



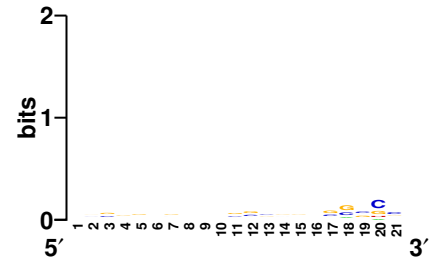
19-mers:



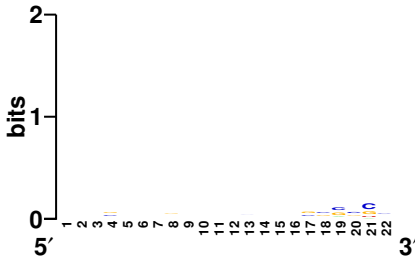
20-mers:



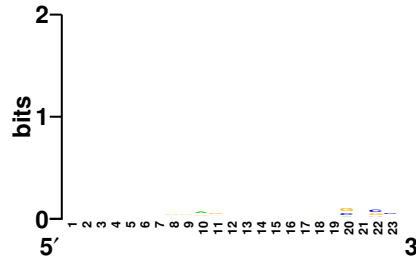
21-mers:



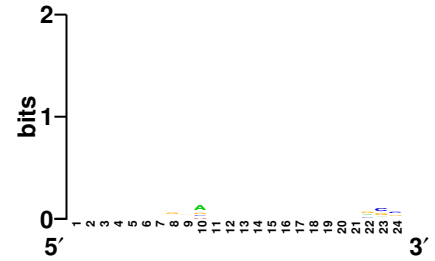
22-mers:



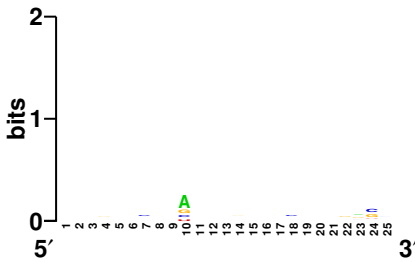
23-mers:



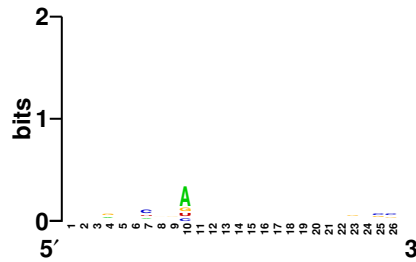
24-mers:



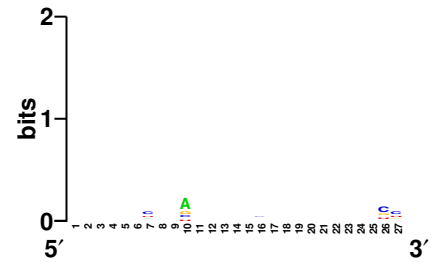
25-mers:



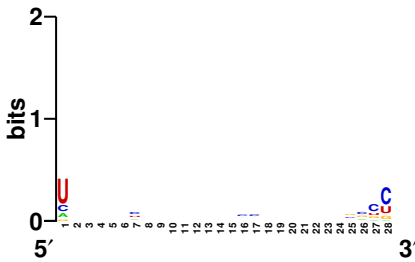
26-mers:



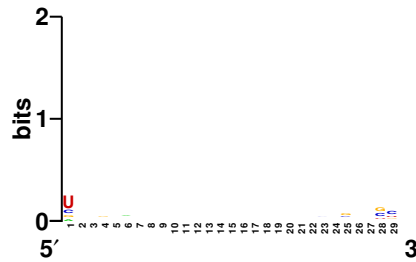
27-mers:



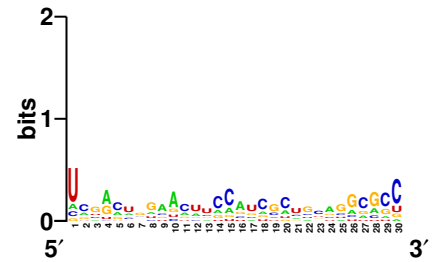
28-mers:



29-mers:

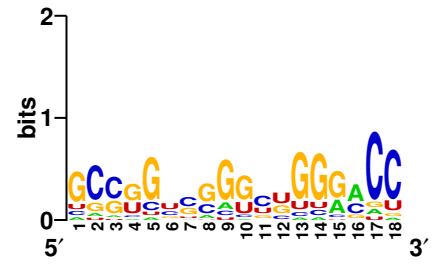


30-mers:

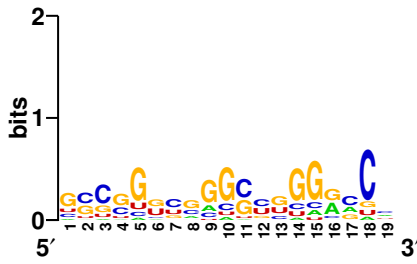


Antisense reads:

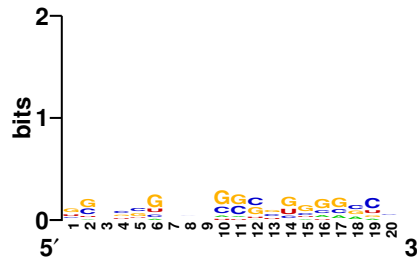
18-mers:



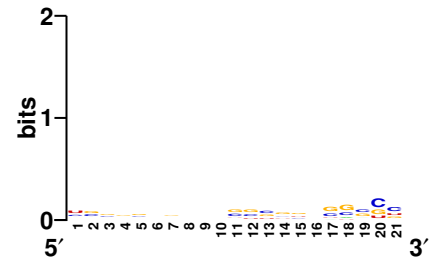
19-mers:



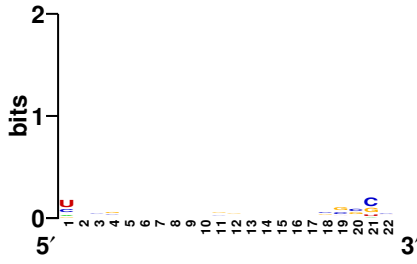
20-mers:



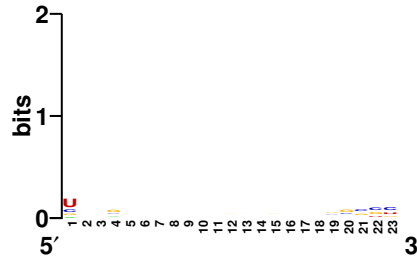
21-mers:



22-mers:



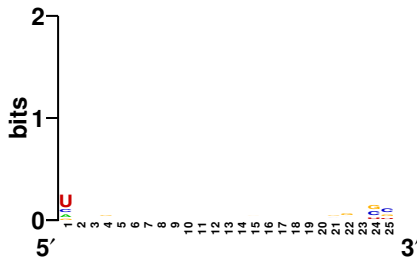
23-mers:



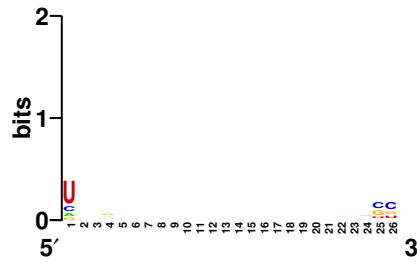
24-mers:



25-mers:



26-mers:



27-mers:



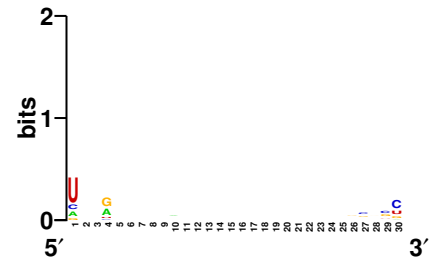
28-mers:



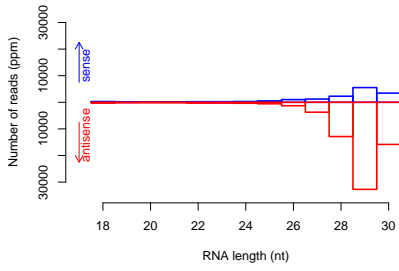
29-mers:



30-mers:

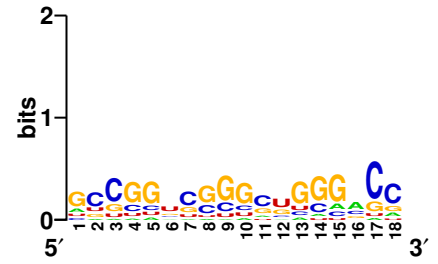


Adult male, library 1:



Sense reads:

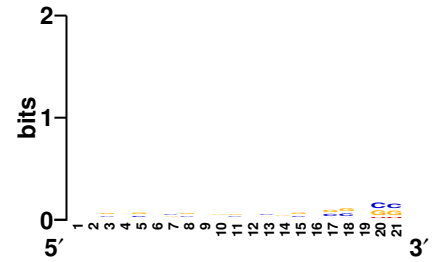
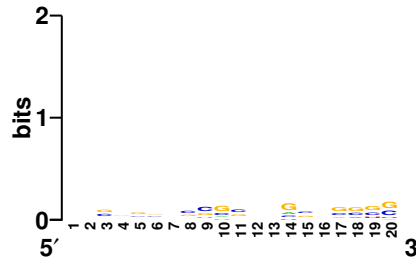
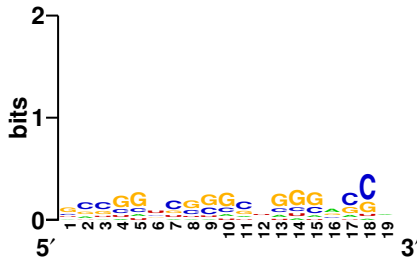
18-mers:



19-mers:

20-mers:

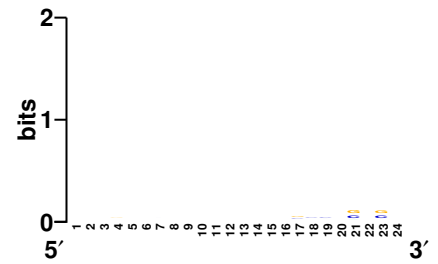
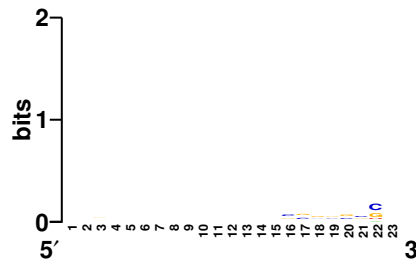
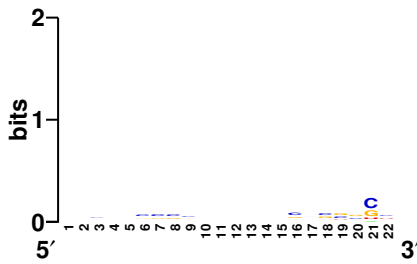
21-mers:



22-mers:

23-mers:

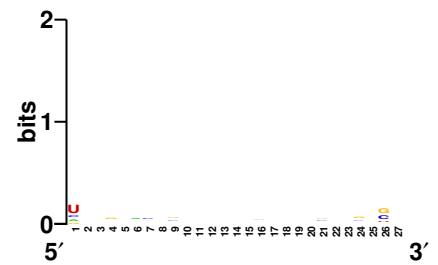
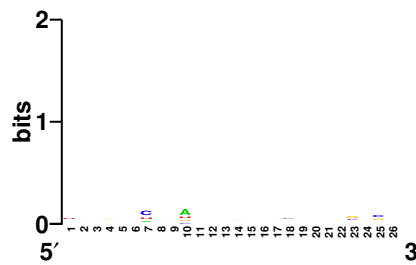
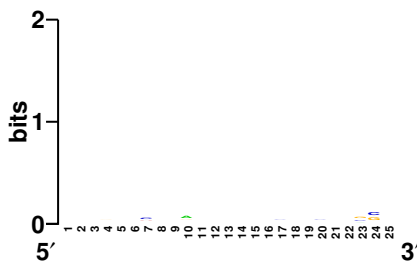
24-mers:



25-mers:

26-mers:

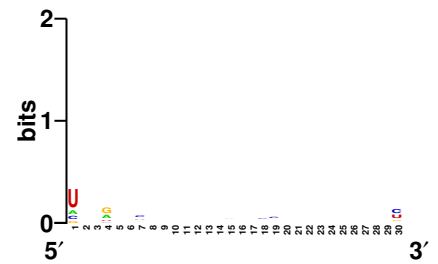
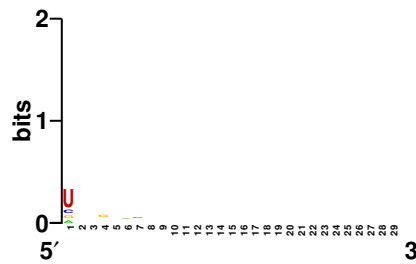
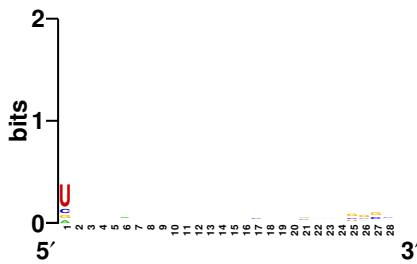
27-mers:



28-mers:

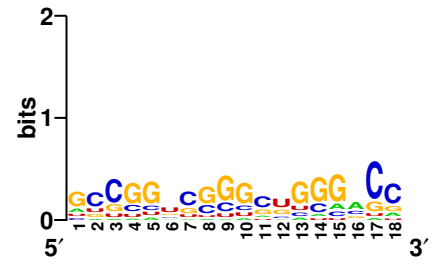
29-mers:

30-mers:

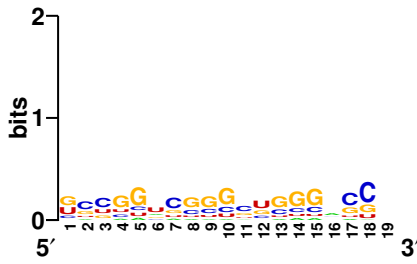


Antisense reads:

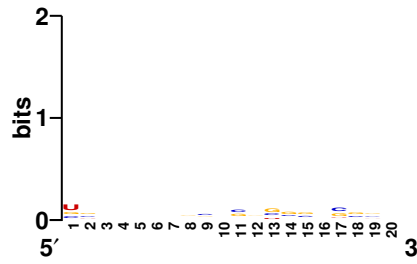
18-mers:



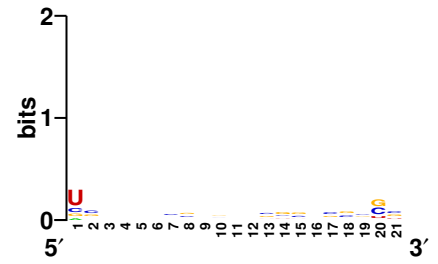
19-mers:



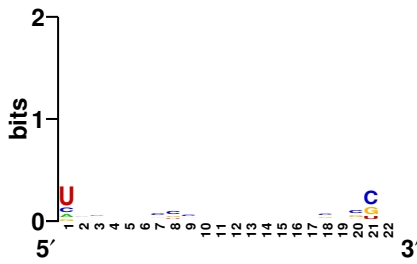
20-mers:



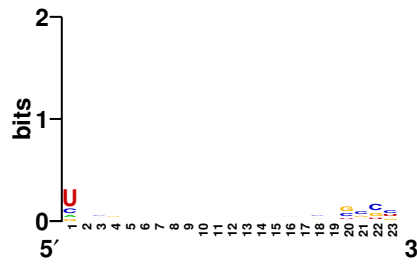
21-mers:



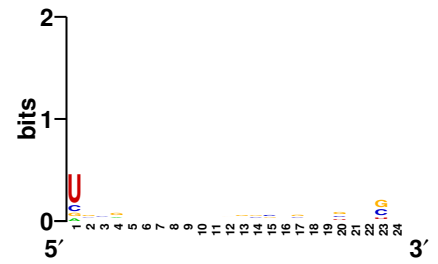
22-mers:



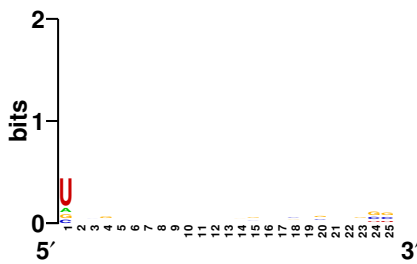
23-mers:



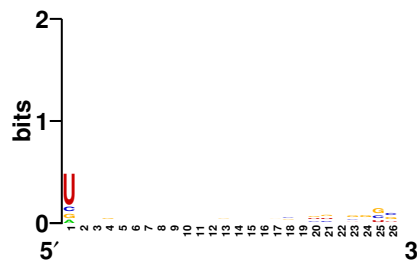
24-mers:



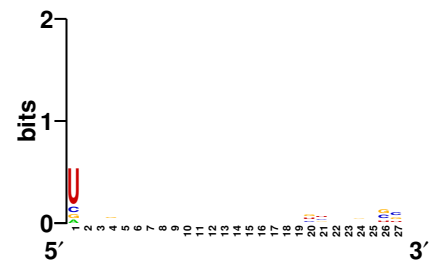
25-mers:



26-mers:



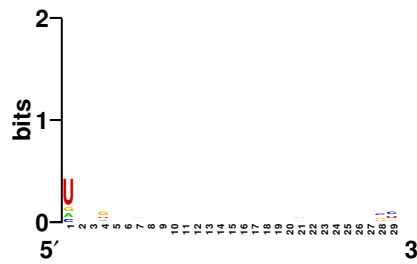
27-mers:



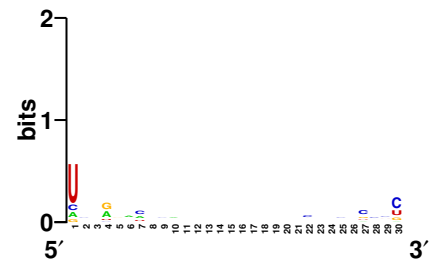
28-mers:



29-mers:



30-mers:

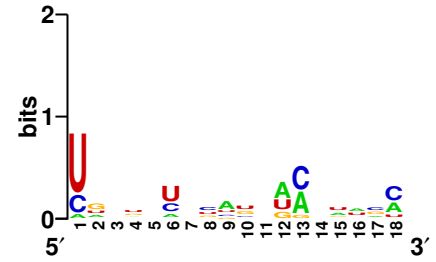
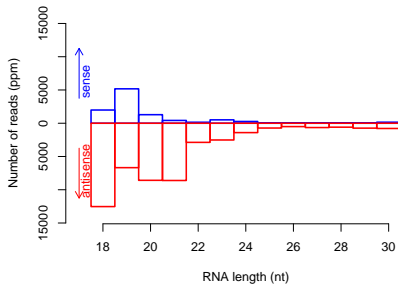


## 4.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

Embryo 8h, library 2:

Sense reads:

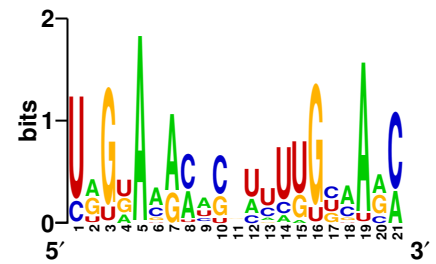
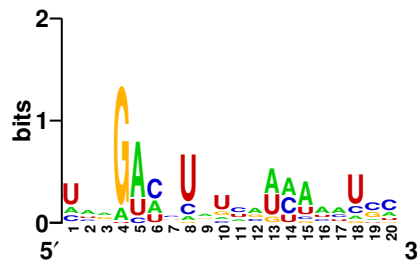
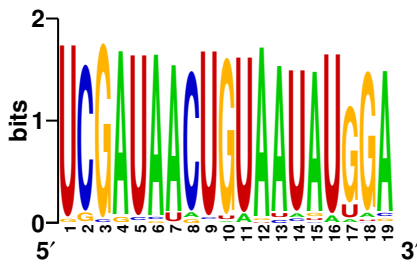
18-mers:



19-mers:

20-mers:

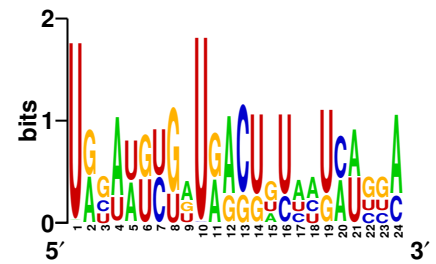
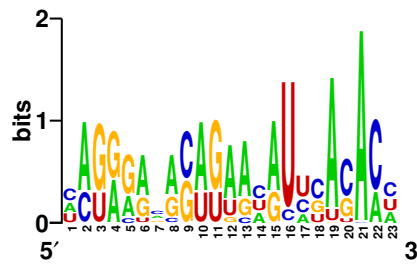
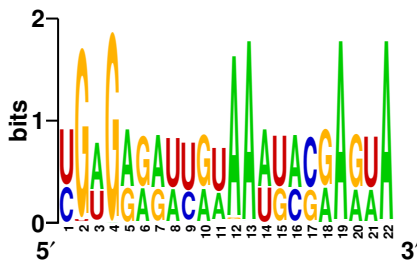
21-mers:



22-mers:

23-mers:

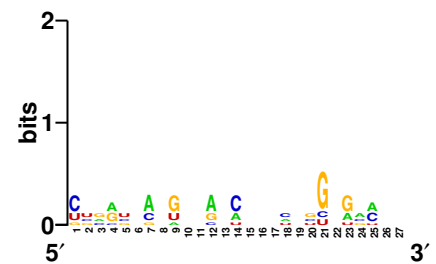
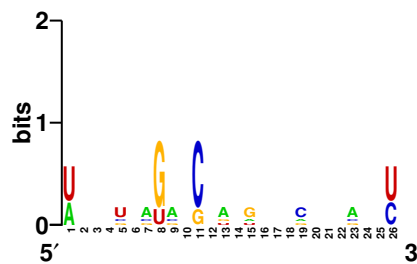
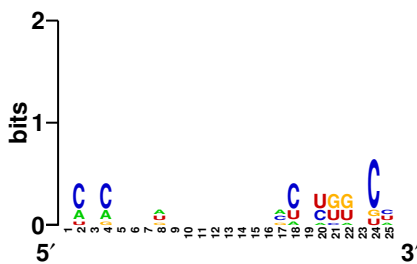
24-mers:



25-mers:

26-mers:

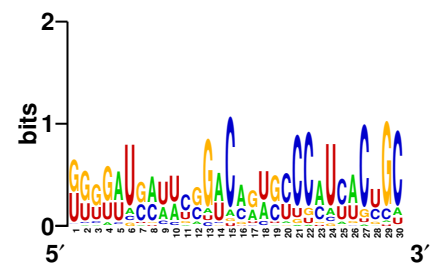
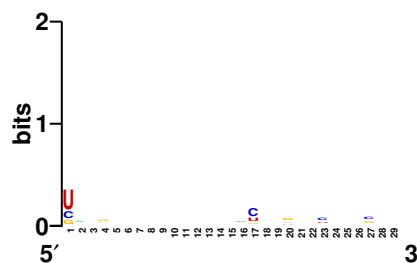
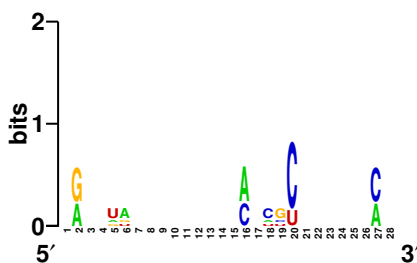
27-mers:



28-mers:

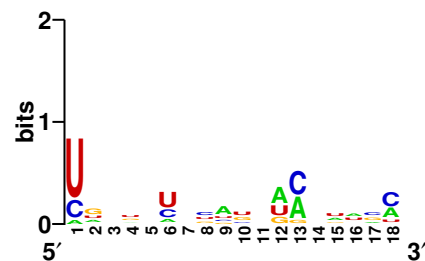
29-mers:

30-mers:

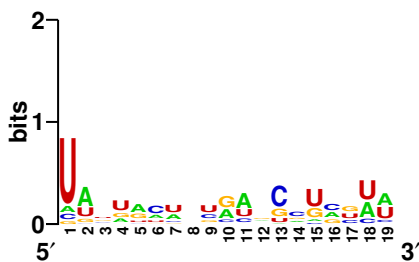


Antisense reads:

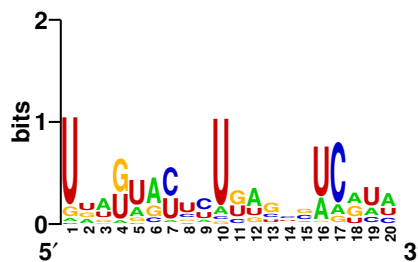
18-mers:



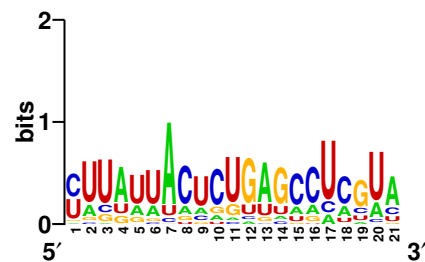
19-mers:



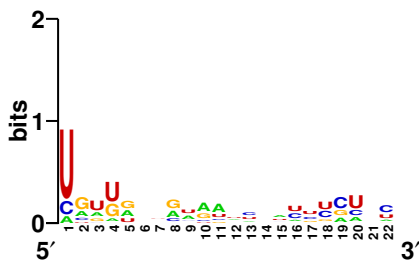
20-mers:



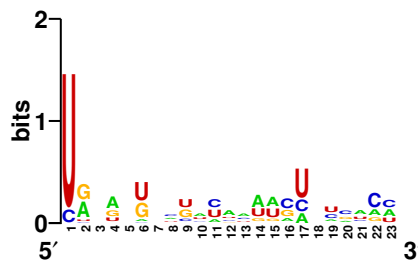
21-mers:



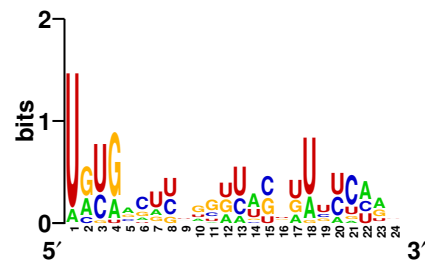
22-mers:



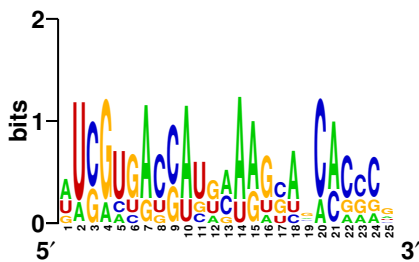
23-mers:



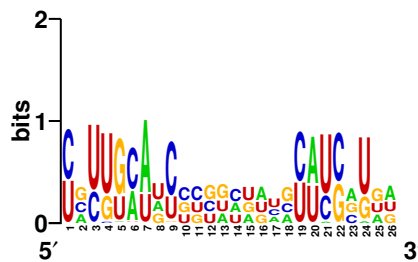
24-mers:



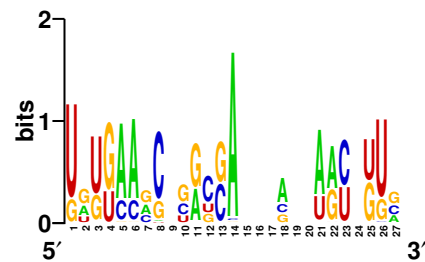
25-mers:



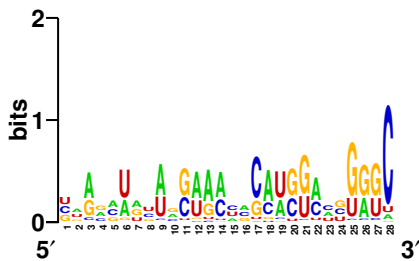
26-mers:



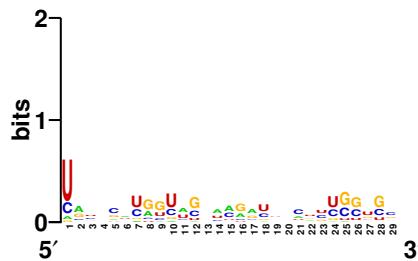
27-mers:



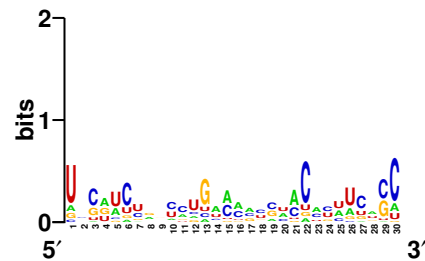
28-mers:



29-mers:



30-mers:





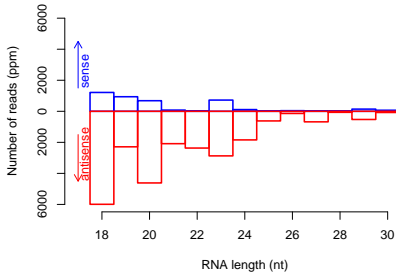




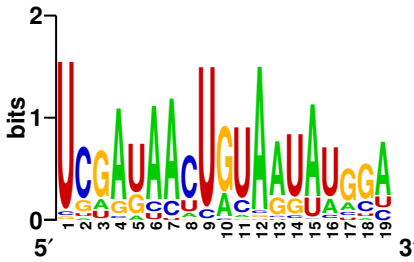
Embryo 36h, library 2:

Sense reads:

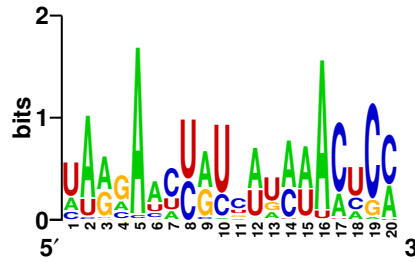
18-mers:



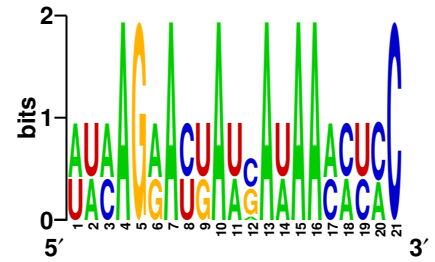
19-mers:



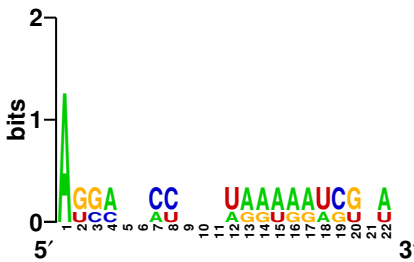
20-mers:



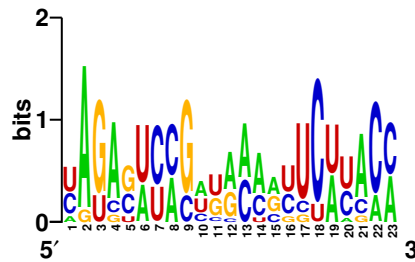
21-mers:



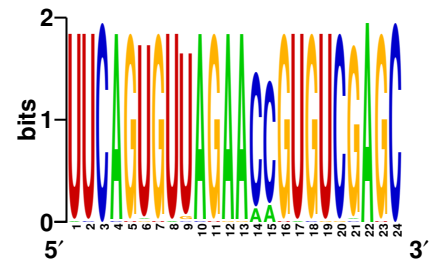
22-mers:



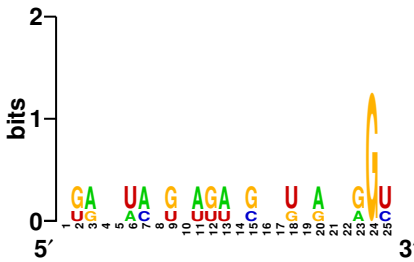
23-mers:



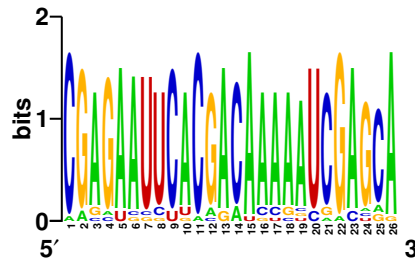
24-mers:



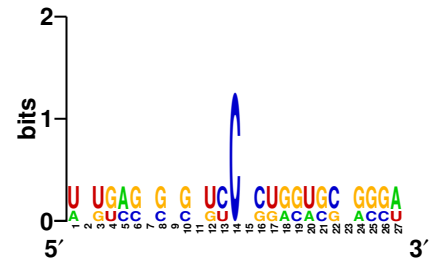
25-mers:



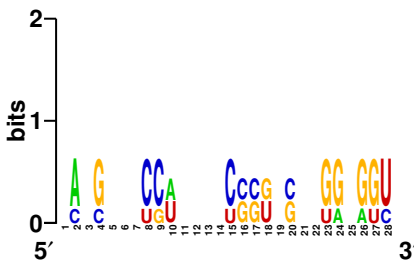
26-mers:



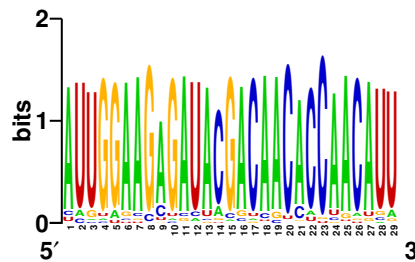
27-mers:



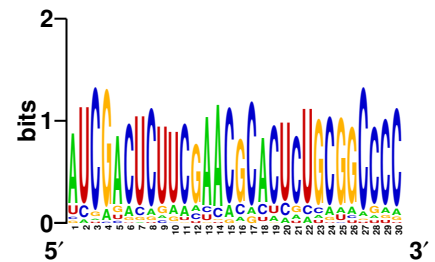
28-mers:



29-mers:

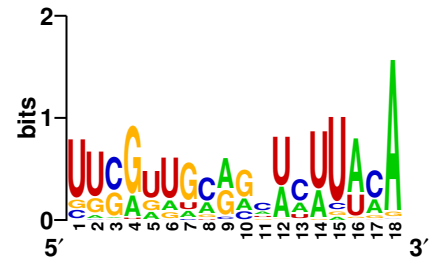


30-mers:

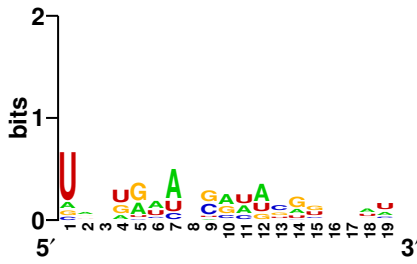


Antisense reads:

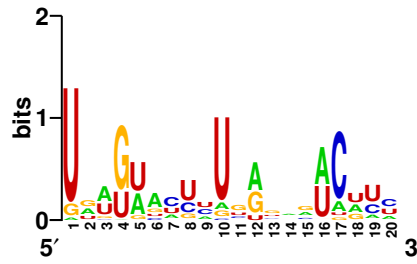
18-mers:



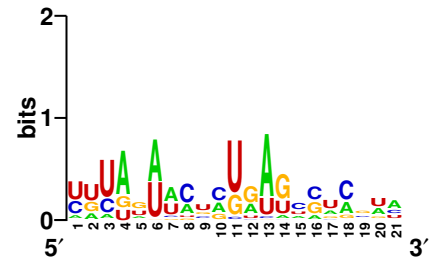
19-mers:



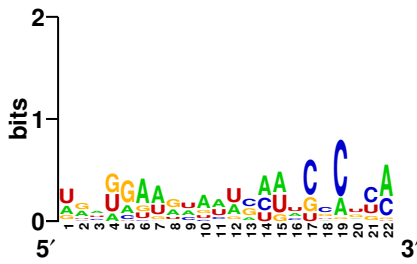
20-mers:



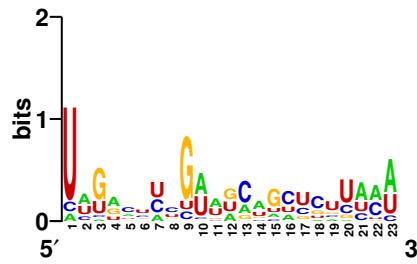
21-mers:



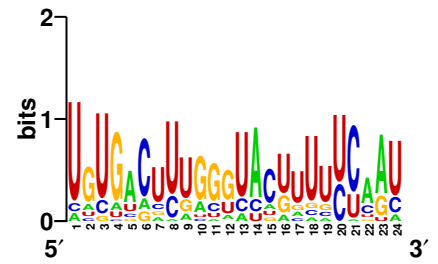
22-mers:



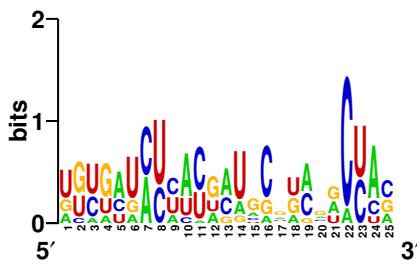
23-mers:



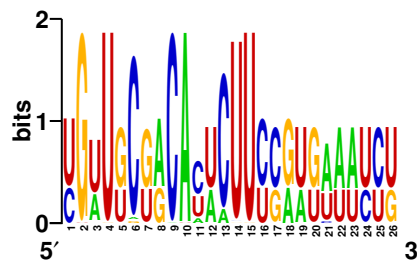
24-mers:



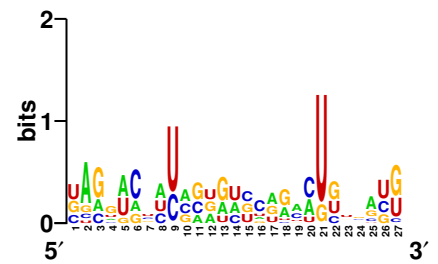
25-mers:



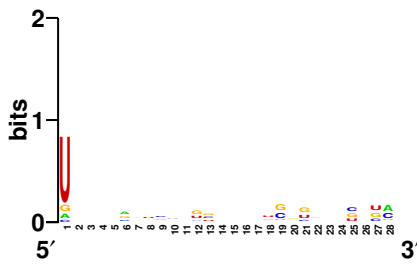
26-mers:



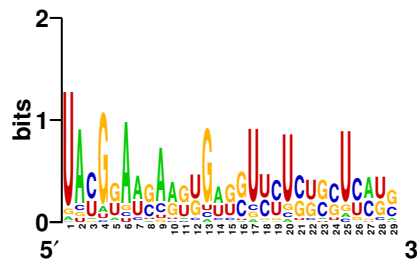
27-mers:



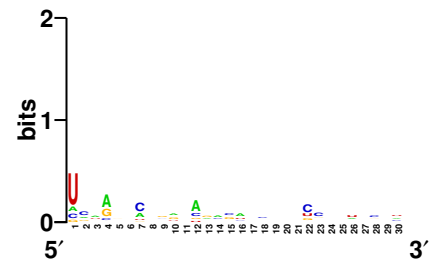
28-mers:



29-mers:



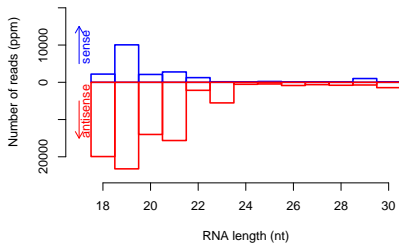
30-mers:



Embryo 60h, library 2:

Sense reads:

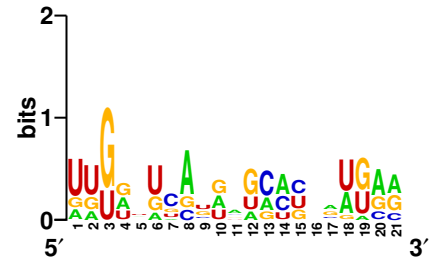
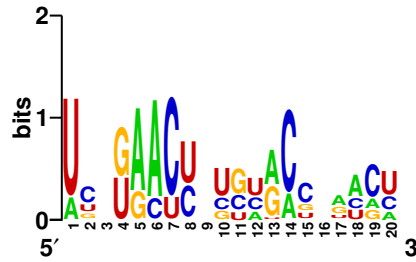
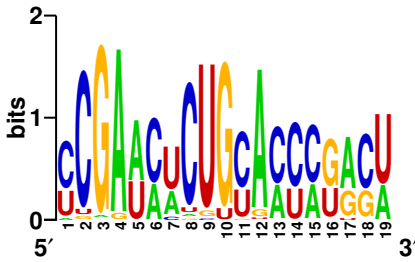
18-mers:



19-mers:

20-mers:

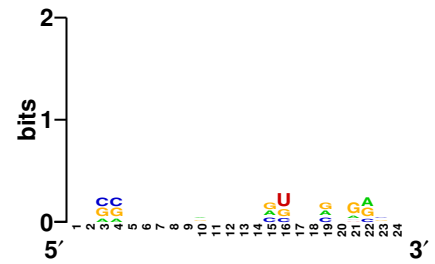
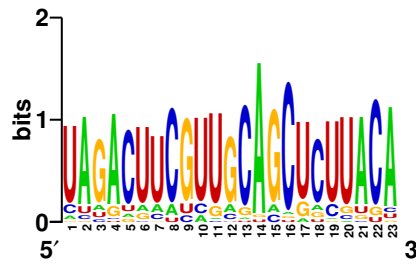
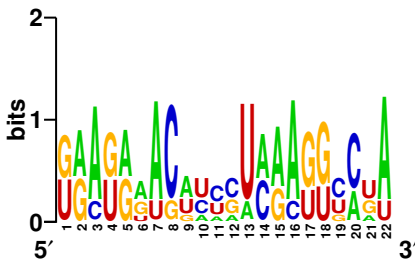
21-mers:



22-mers:

23-mers:

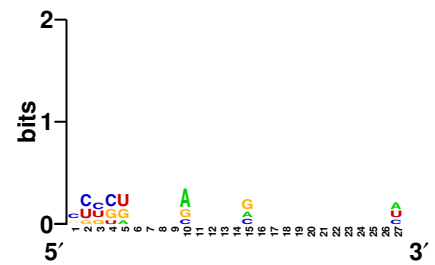
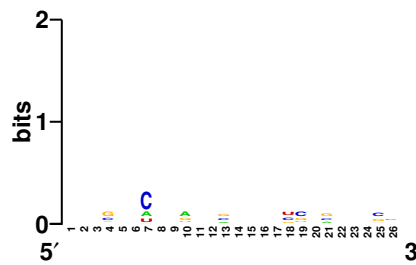
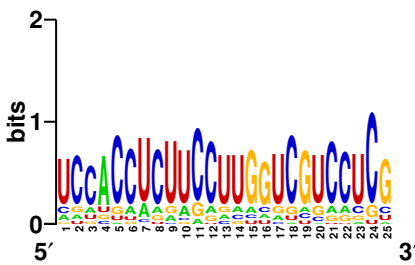
24-mers:



25-mers:

26-mers:

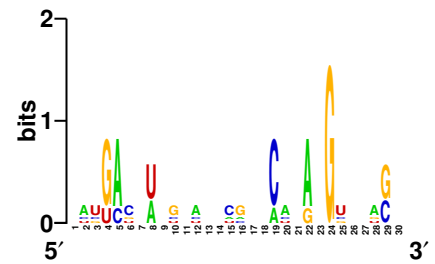
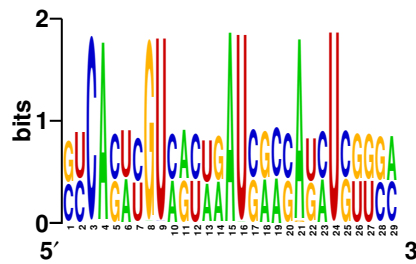
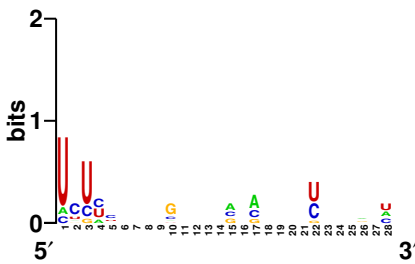
27-mers:



28-mers:

29-mers:

30-mers:

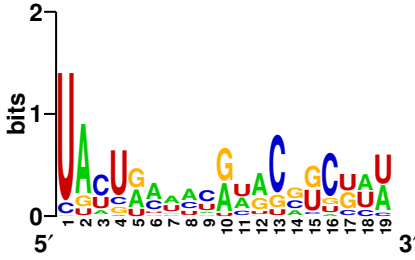


Antisense reads:

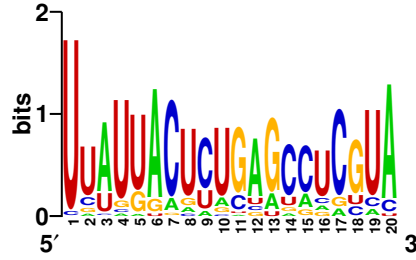
18-mers:



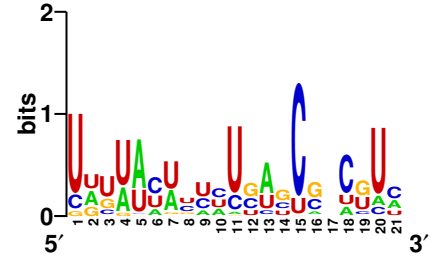
19-mers:



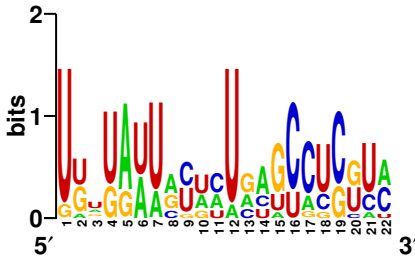
20-mers:



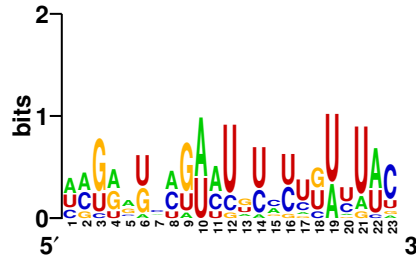
21-mers:



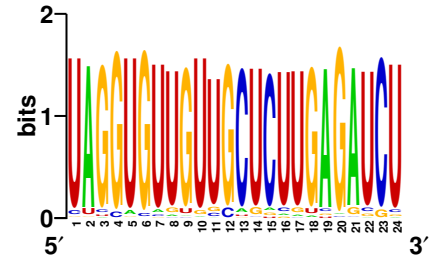
22-mers:



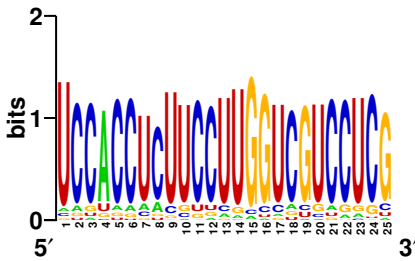
23-mers:



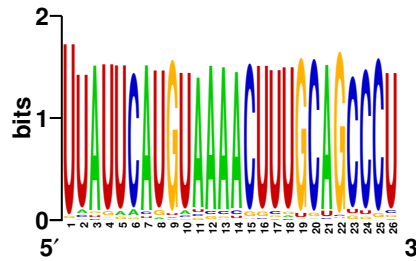
24-mers:



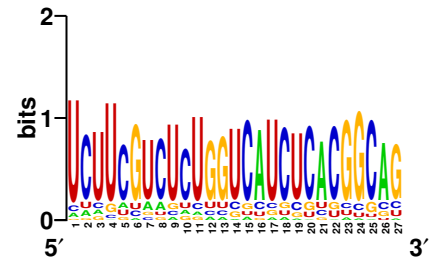
25-mers:



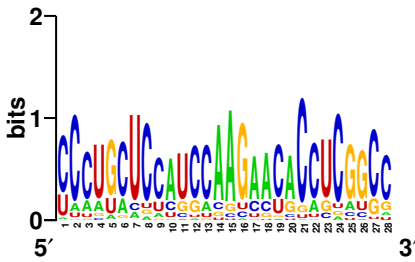
26-mers:



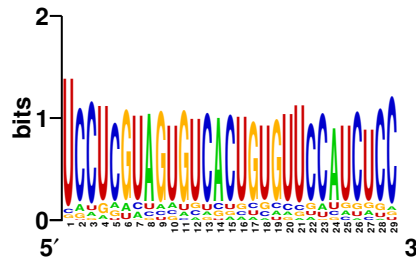
27-mers:



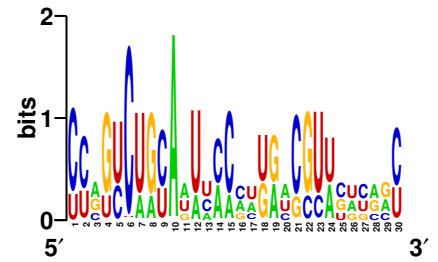
28-mers:



29-mers:



30-mers:

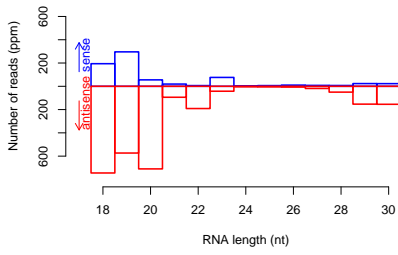






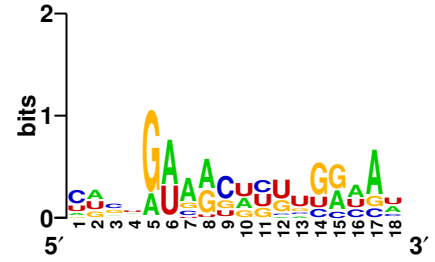


Adult male, library 2:

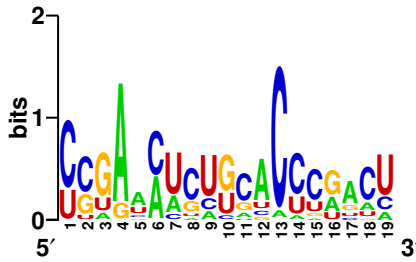


Sense reads:

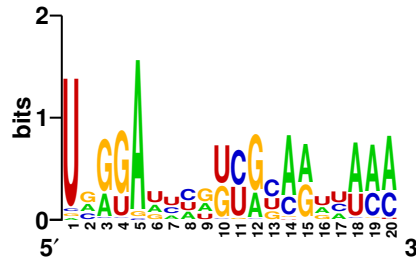
18-mers:



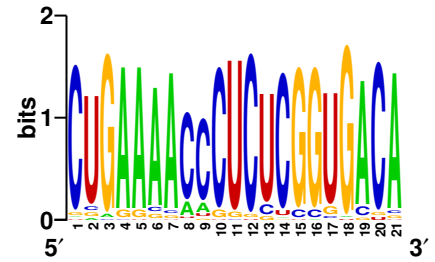
19-mers:



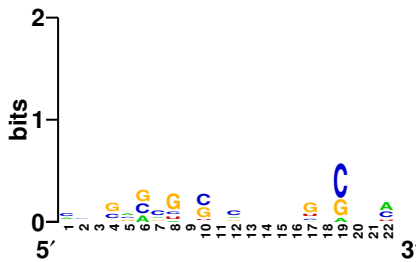
20-mers:



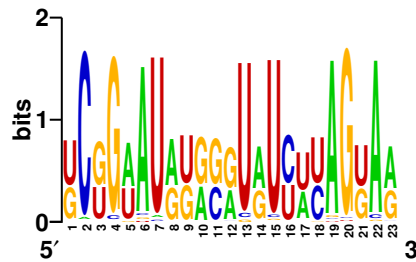
21-mers:



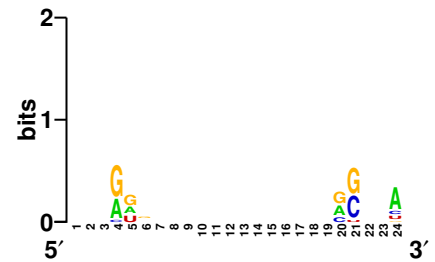
22-mers:



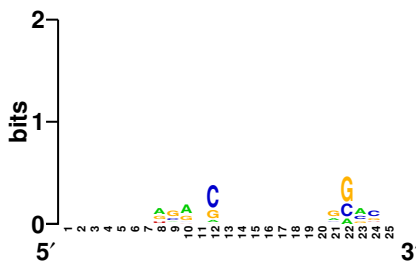
23-mers:



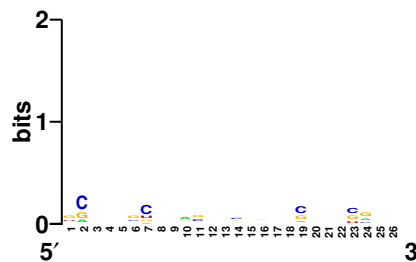
24-mers:



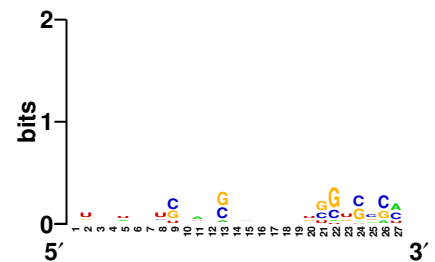
25-mers:



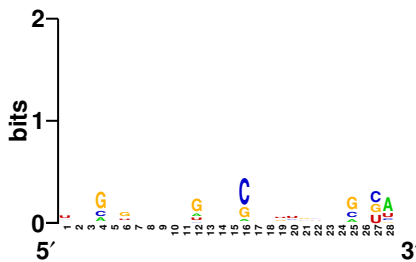
26-mers:



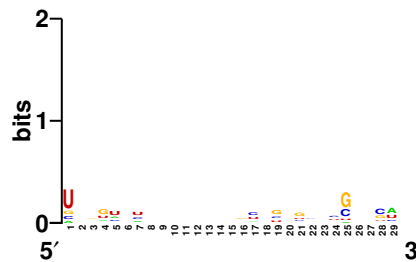
27-mers:



28-mers:



29-mers:



30-mers:



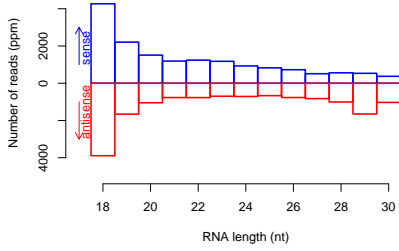


### 4.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 3:

Sense reads:

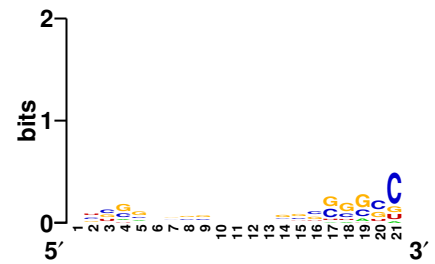
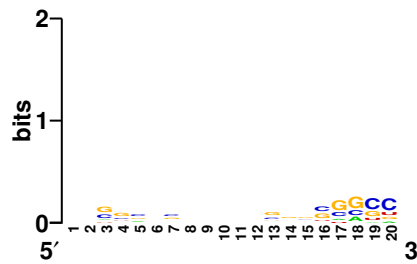
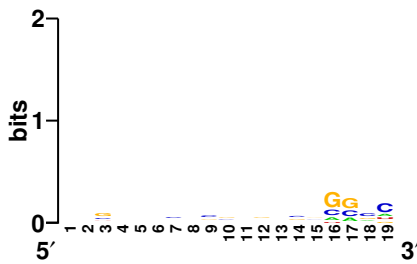
18-mers:



19-mers:

20-mers:

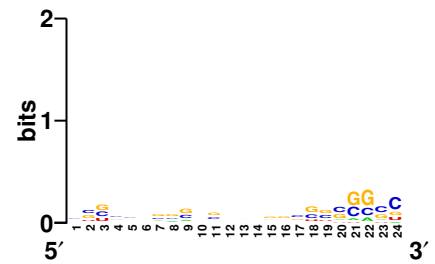
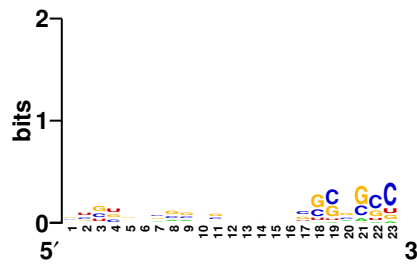
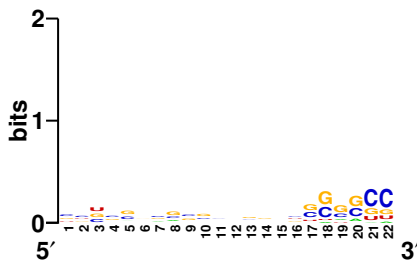
21-mers:



22-mers:

23-mers:

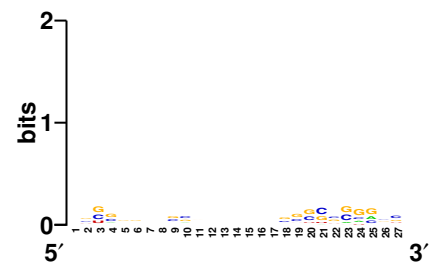
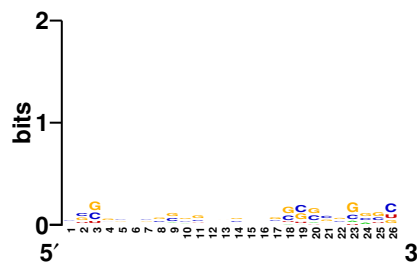
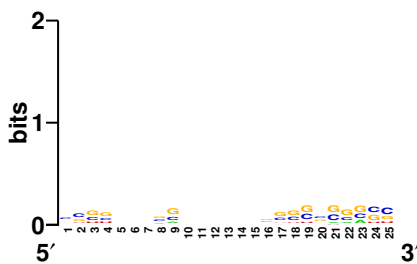
24-mers:



25-mers:

26-mers:

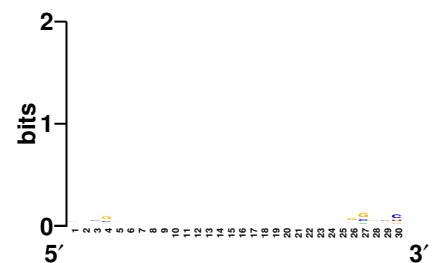
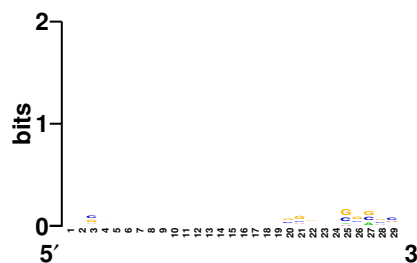
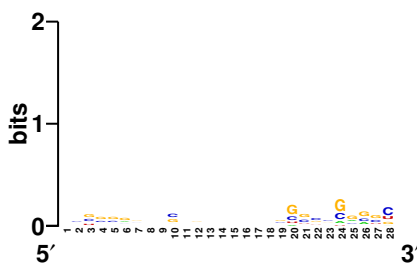
27-mers:



28-mers:

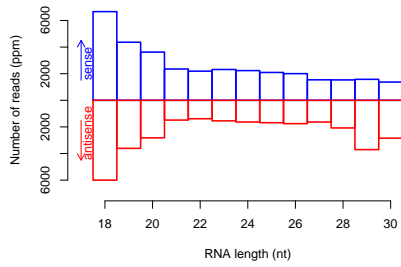
29-mers:

30-mers:



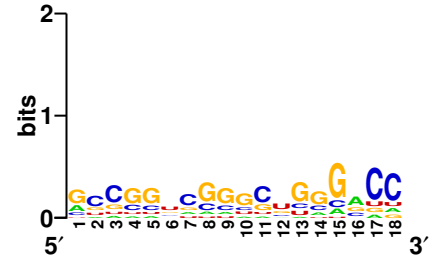


Embryo 15h, library 3:



Sense reads:

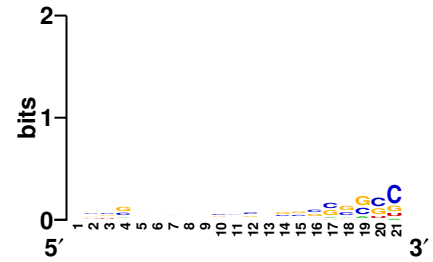
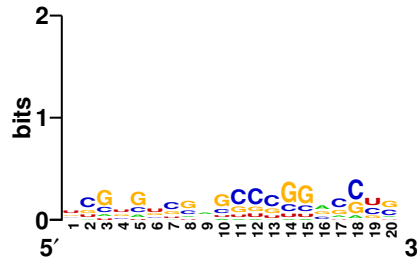
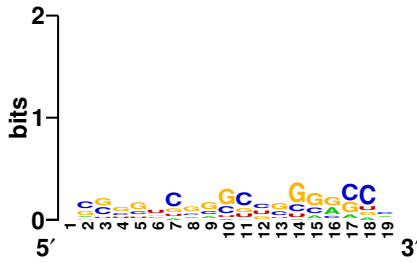
18-mers:



19-mers:

20-mers:

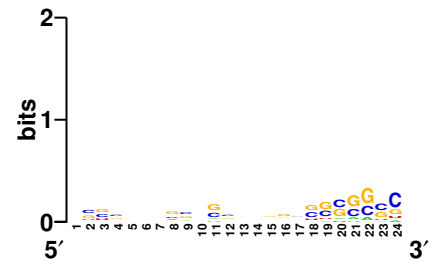
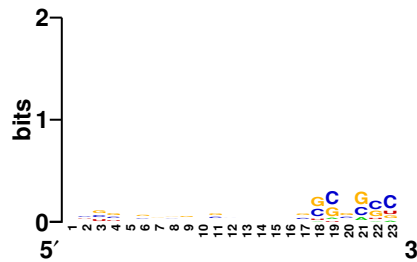
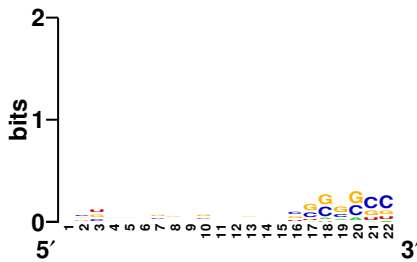
21-mers:



22-mers:

23-mers:

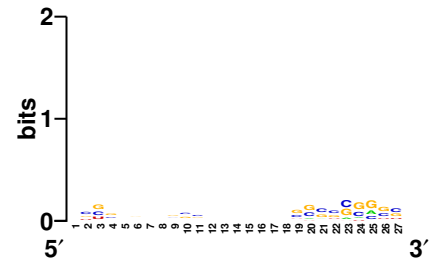
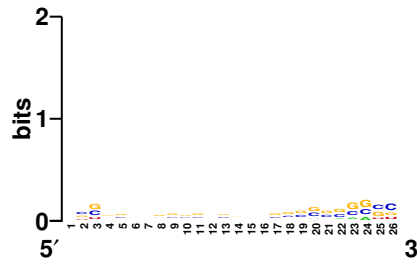
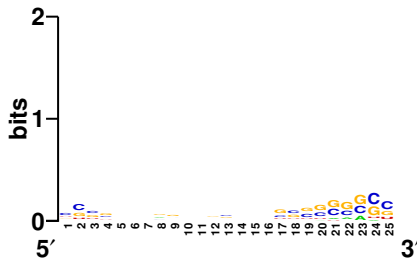
24-mers:



25-mers:

26-mers:

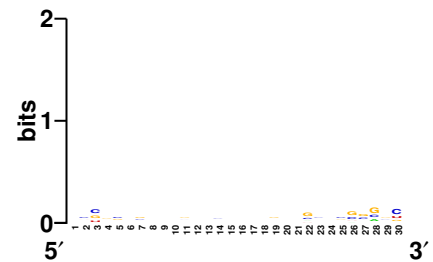
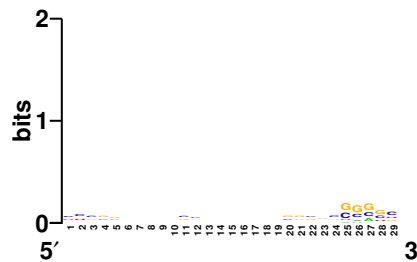
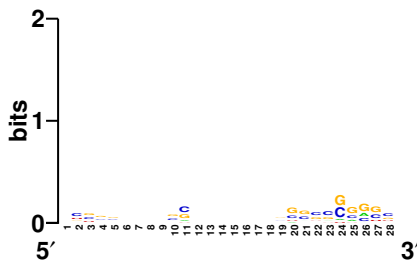
27-mers:



28-mers:

29-mers:

30-mers:

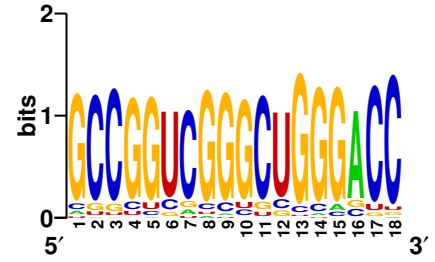
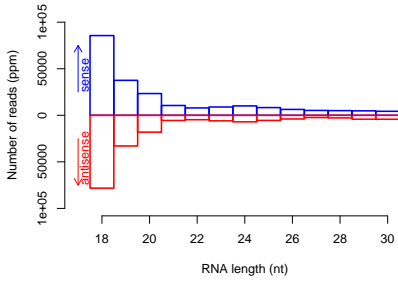




Embryo 36h, library 3:

Sense reads:

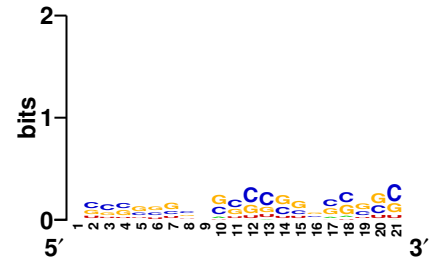
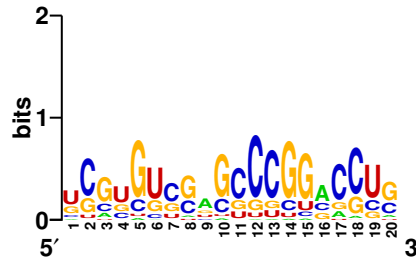
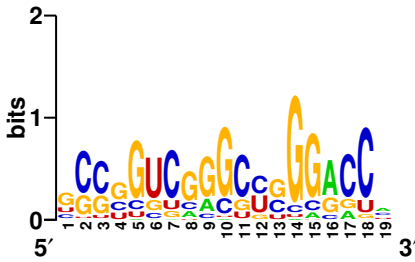
18-mers:



19-mers:

20-mers:

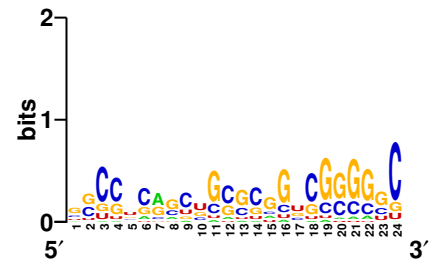
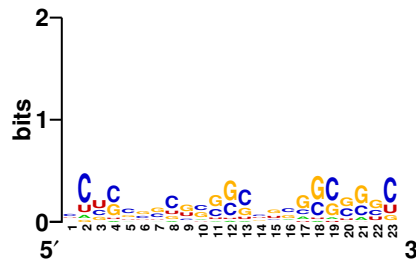
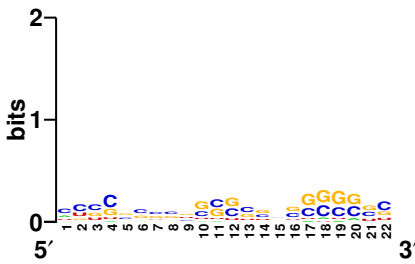
21-mers:



22-mers:

23-mers:

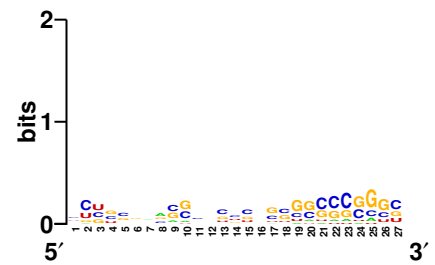
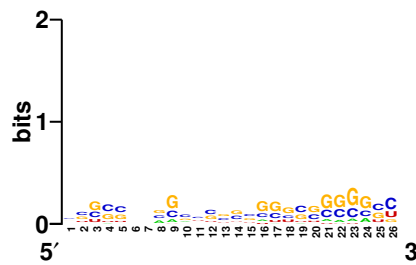
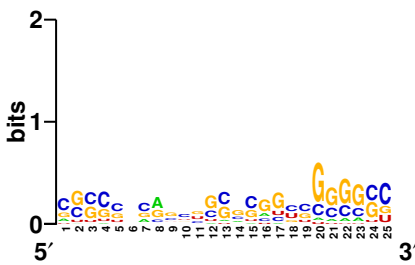
24-mers:



25-mers:

26-mers:

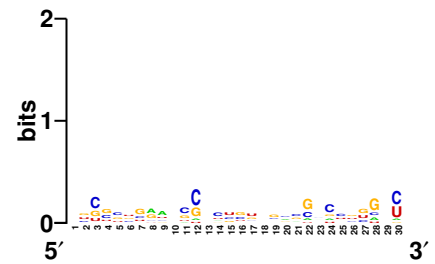
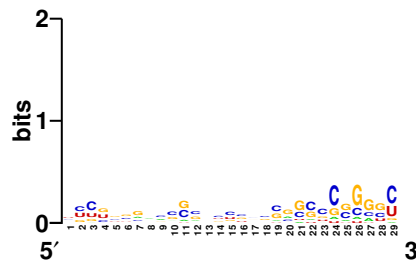
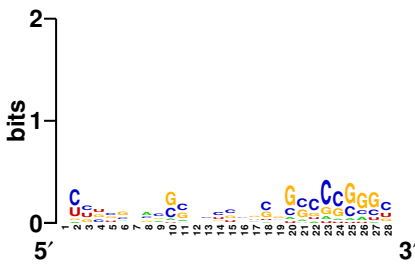
27-mers:



28-mers:

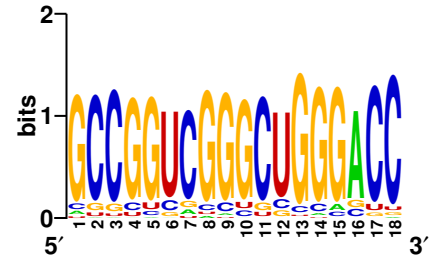
29-mers:

30-mers:

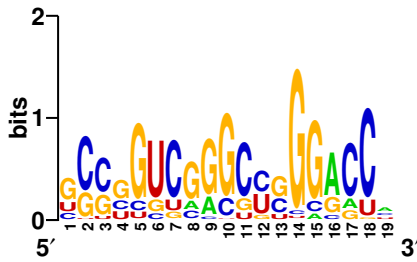


Antisense reads:

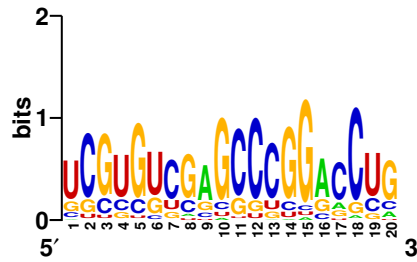
18-mers:



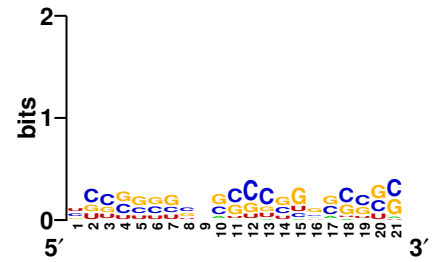
19-mers:



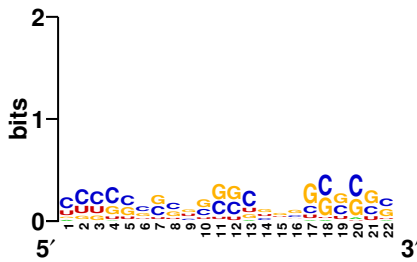
20-mers:



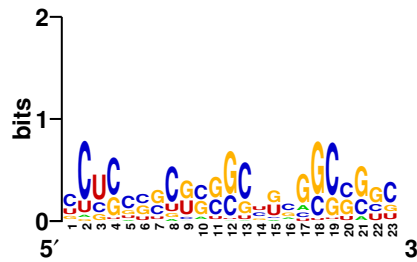
21-mers:



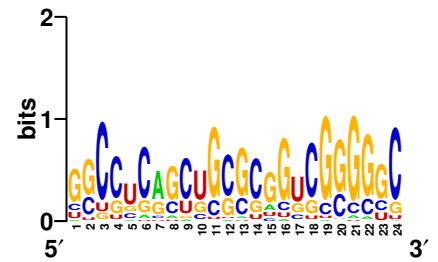
22-mers:



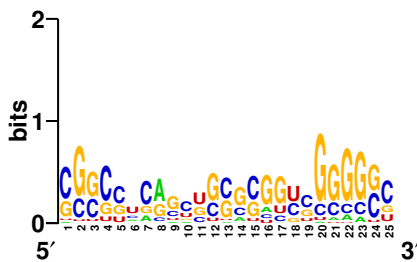
23-mers:



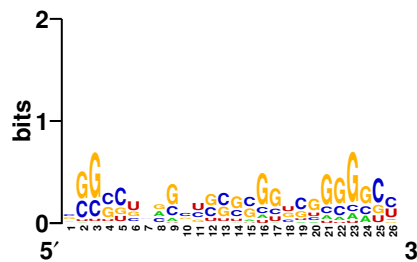
24-mers:



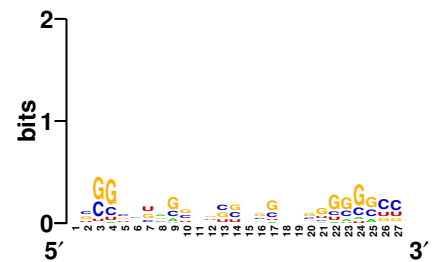
25-mers:



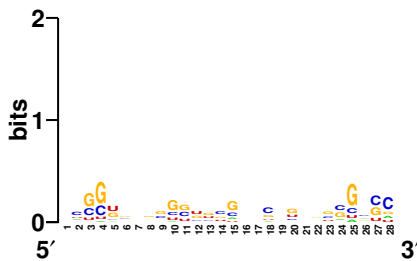
26-mers:



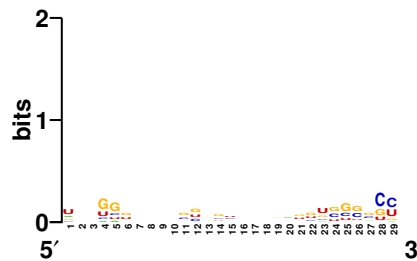
27-mers:



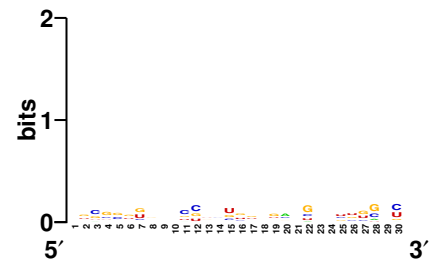
28-mers:



29-mers:

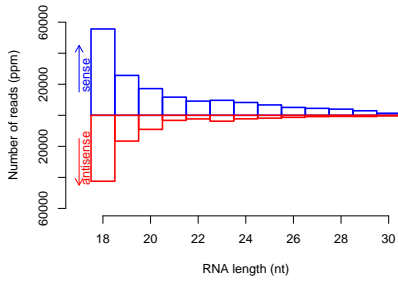


30-mers:



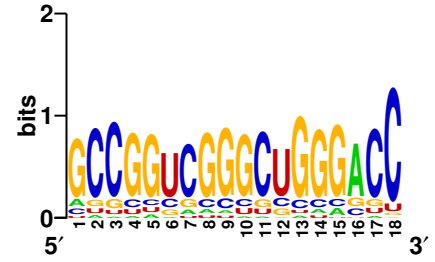


Embryo 60h, library 3:

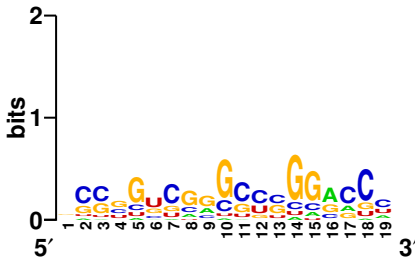


Sense reads:

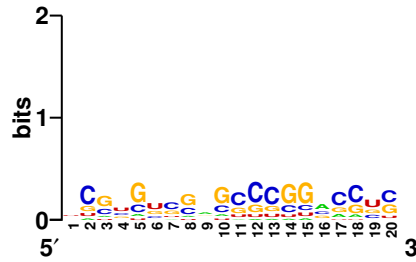
18-mers:



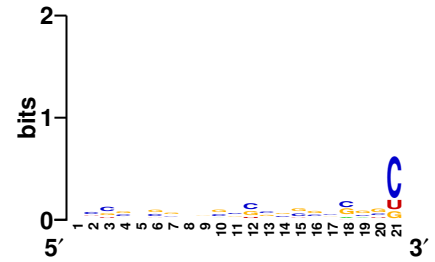
19-mers:



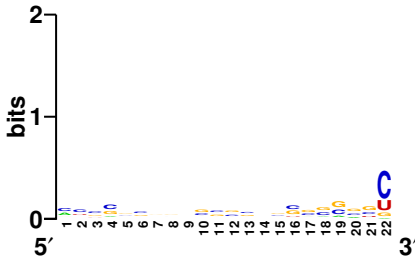
20-mers:



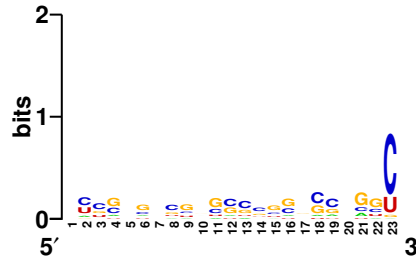
21-mers:



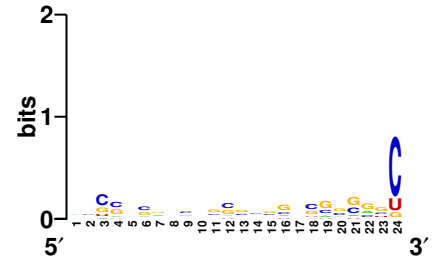
22-mers:



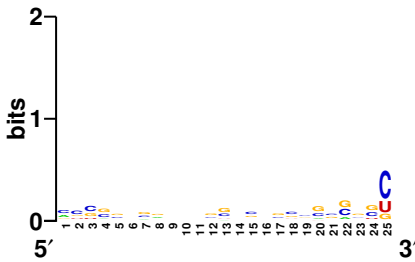
23-mers:



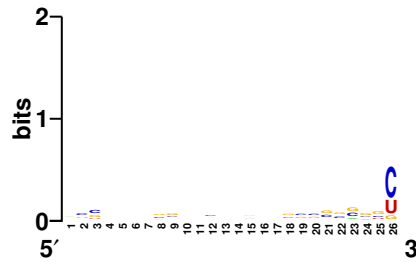
24-mers:



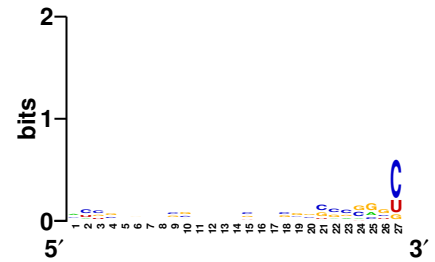
25-mers:



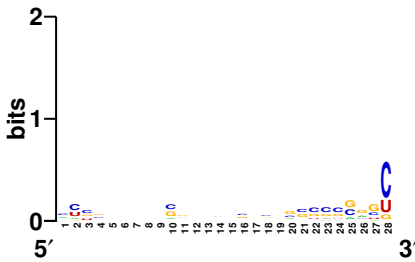
26-mers:



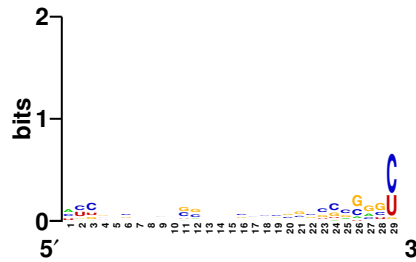
27-mers:



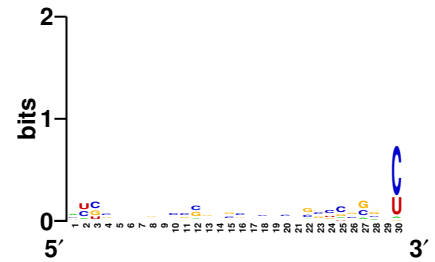
28-mers:



29-mers:

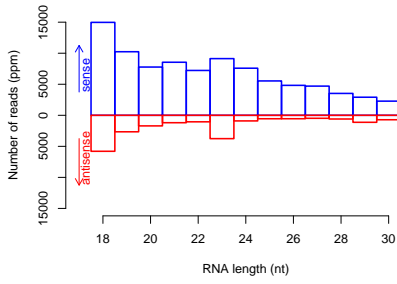


30-mers:



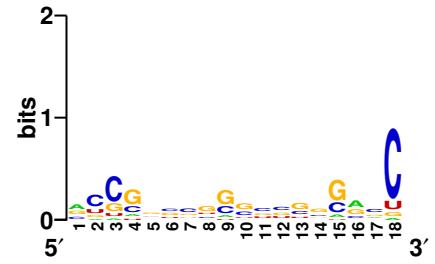


Adult female, library 3:



Sense reads:

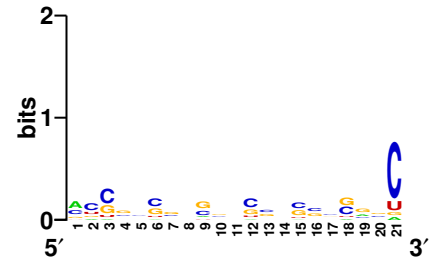
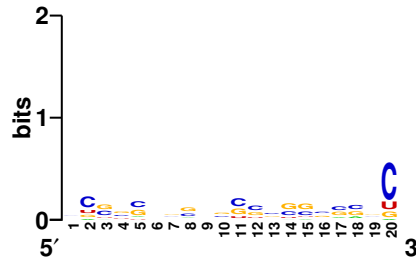
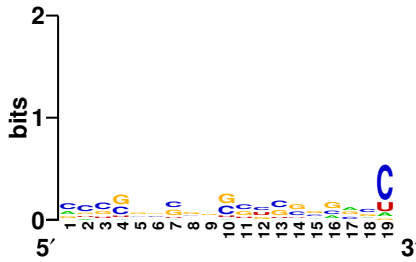
18-mers:



19-mers:

20-mers:

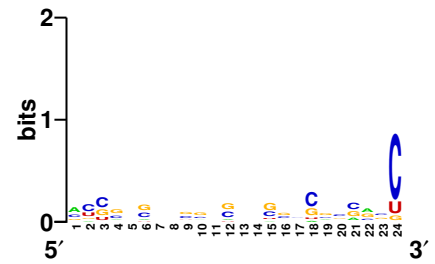
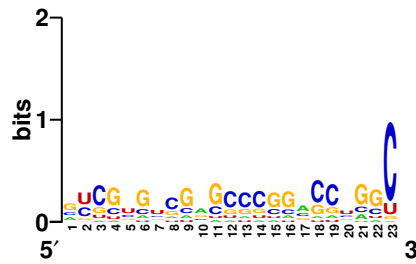
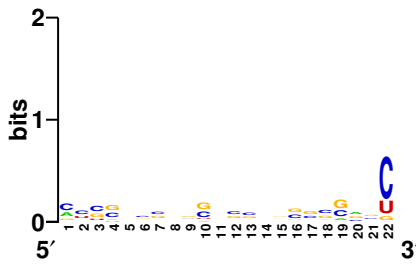
21-mers:



22-mers:

23-mers:

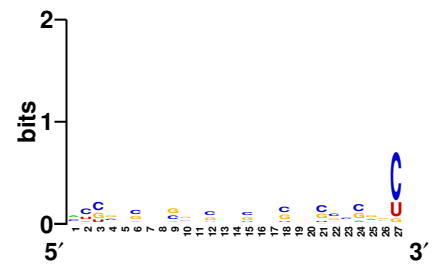
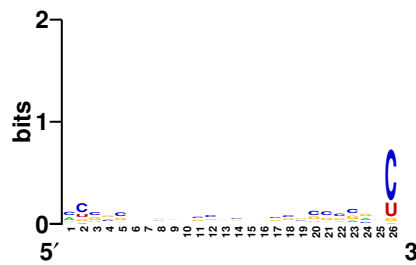
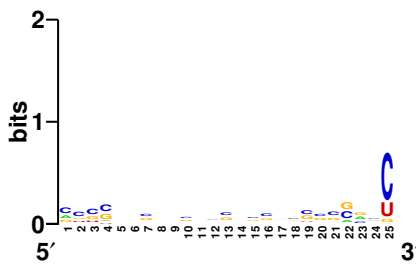
24-mers:



25-mers:

26-mers:

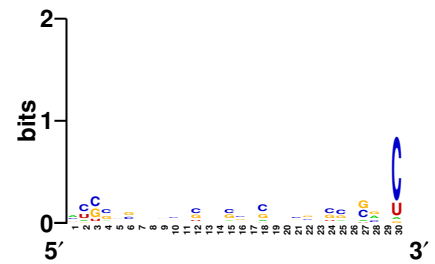
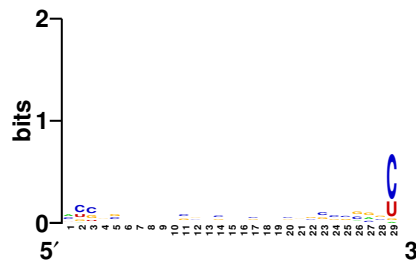
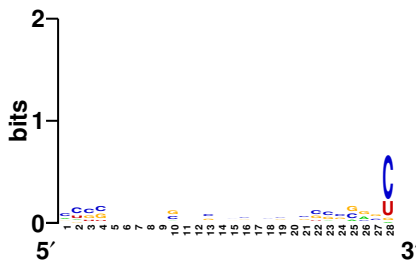
27-mers:



28-mers:

29-mers:

30-mers:







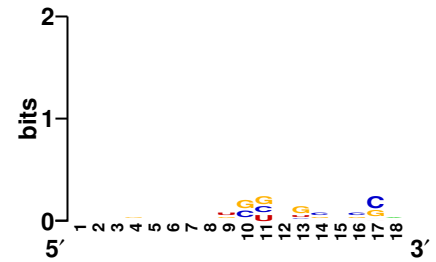
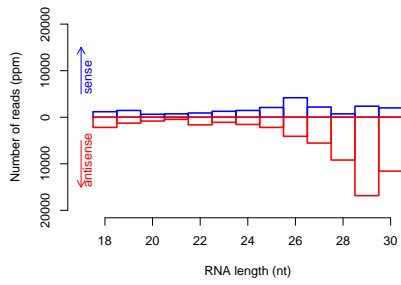


## 4.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 4:

Sense reads:

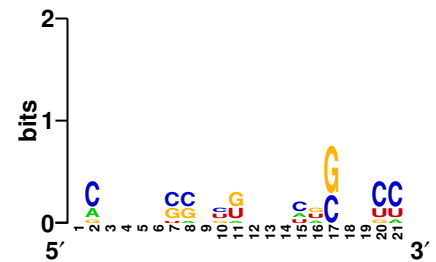
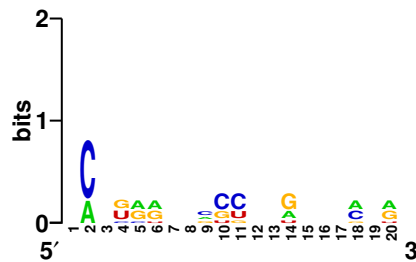
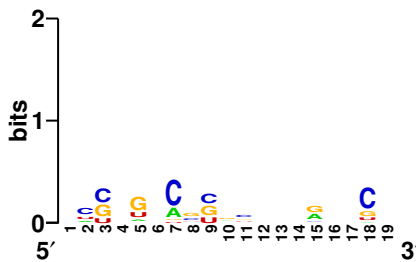
18-mers:



19-mers:

20-mers:

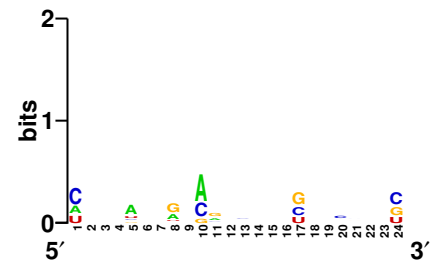
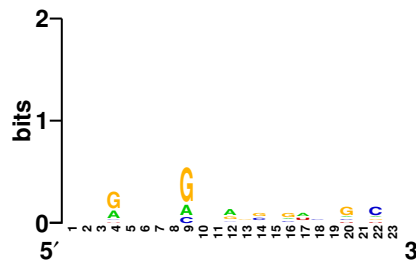
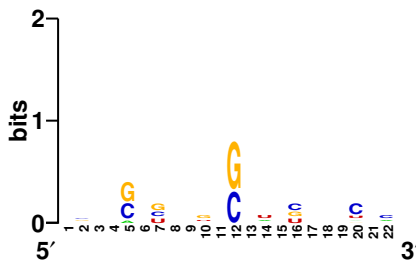
21-mers:



22-mers:

23-mers:

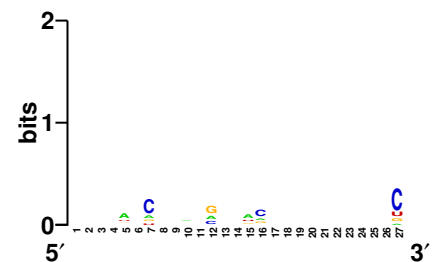
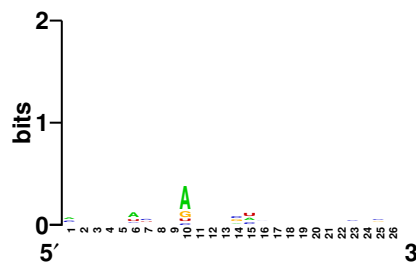
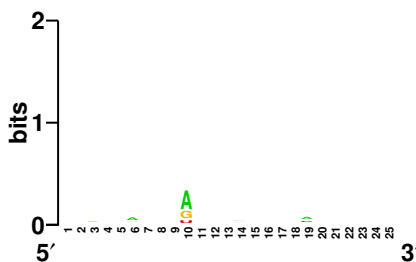
24-mers:



25-mers:

26-mers:

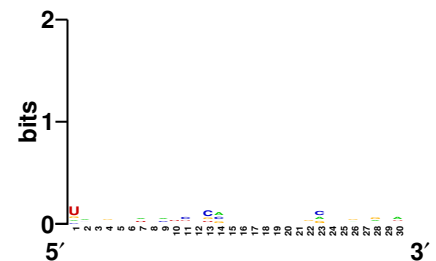
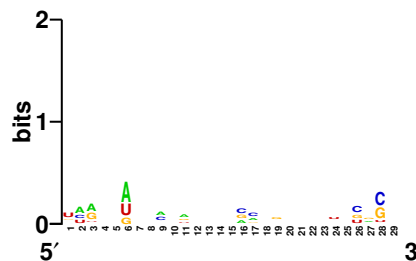
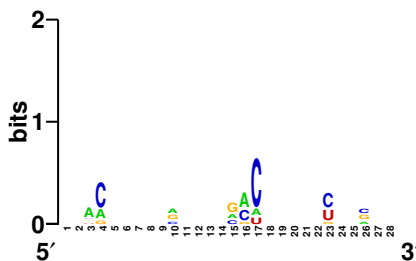
27-mers:



28-mers:

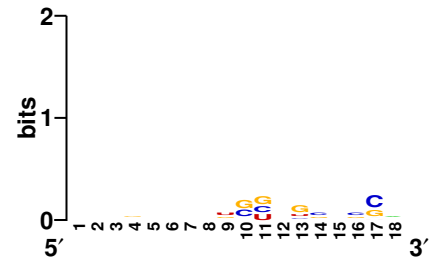
29-mers:

30-mers:

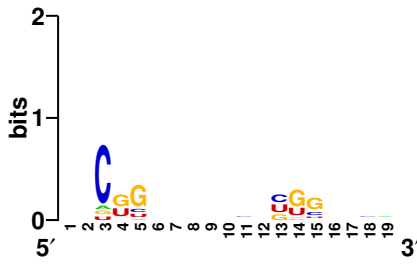


Antisense reads:

18-mers:



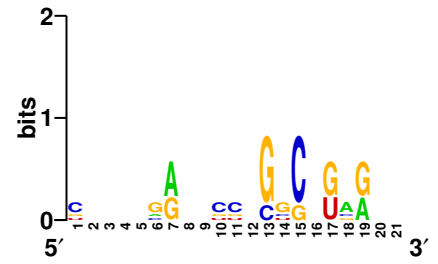
19-mers:



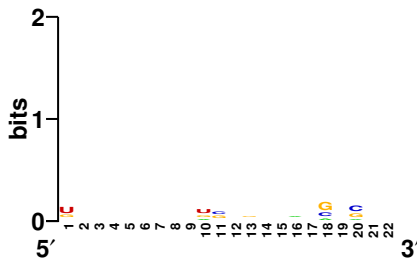
20-mers:



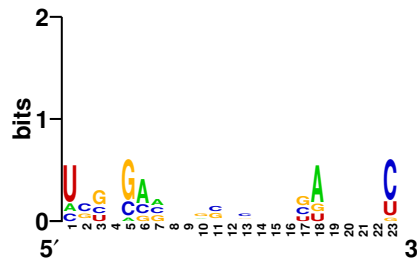
21-mers:



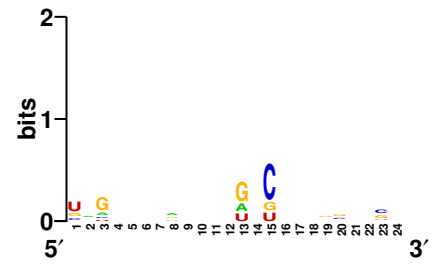
22-mers:



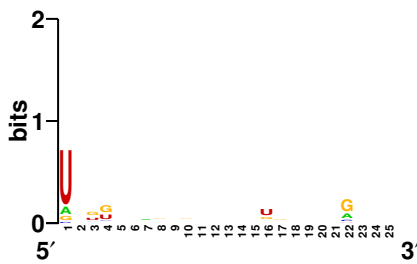
23-mers:



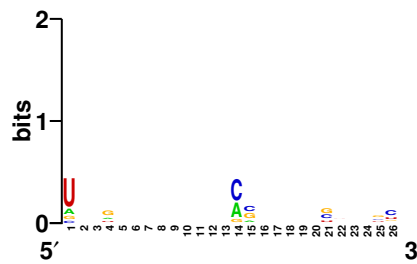
24-mers:



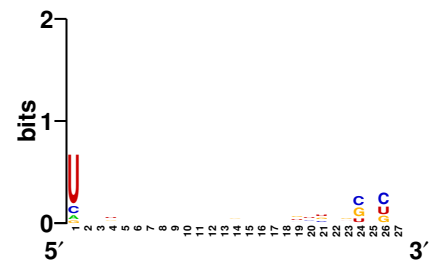
25-mers:



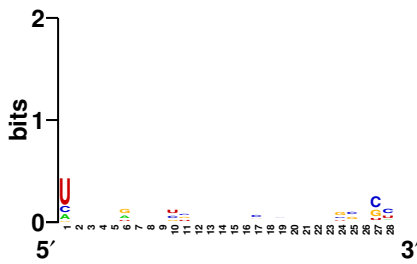
26-mers:



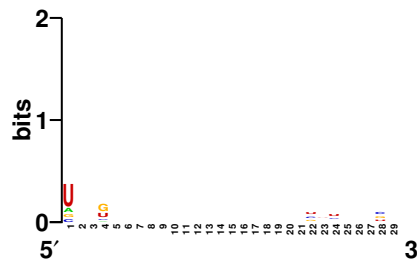
27-mers:



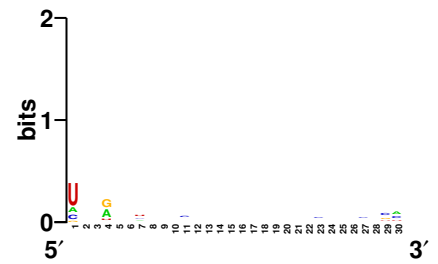
28-mers:



29-mers:



30-mers:

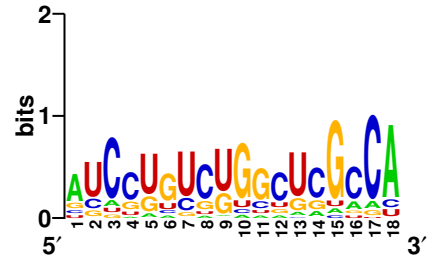




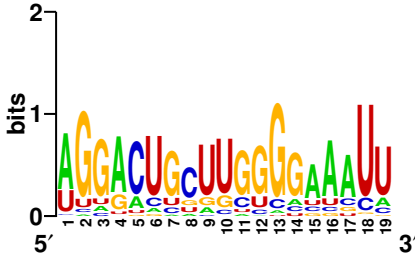


Antisense reads:

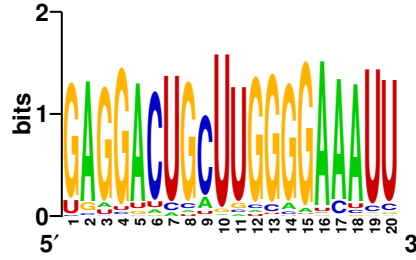
18-mers:



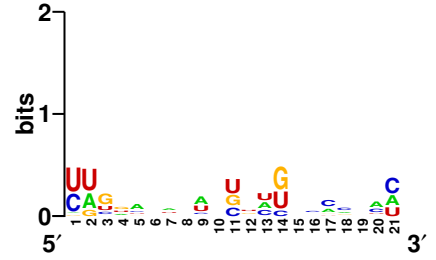
19-mers:



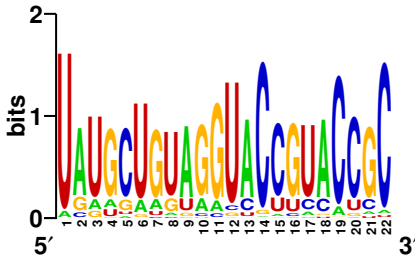
20-mers:



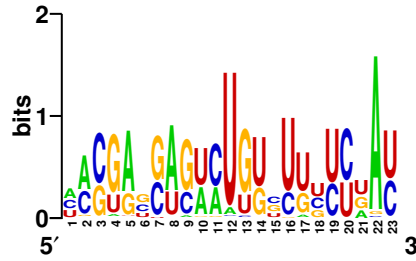
21-mers:



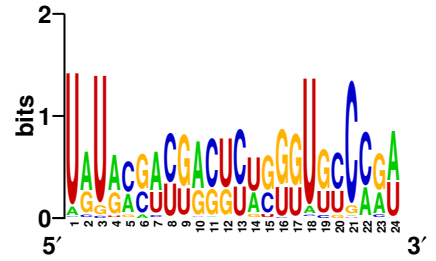
22-mers:



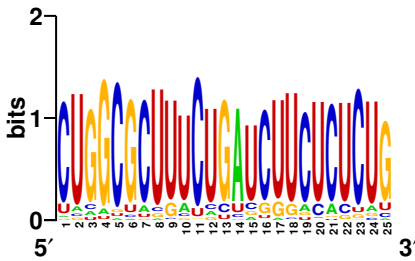
23-mers:



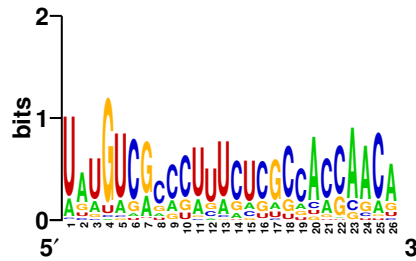
24-mers:



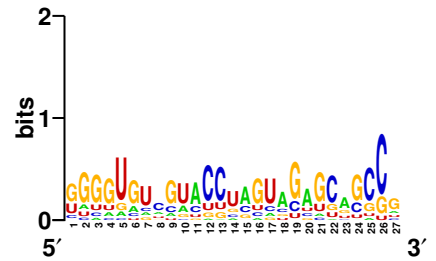
25-mers:



26-mers:



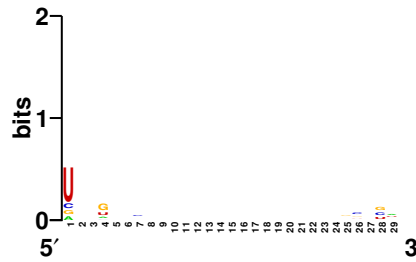
27-mers:



28-mers:



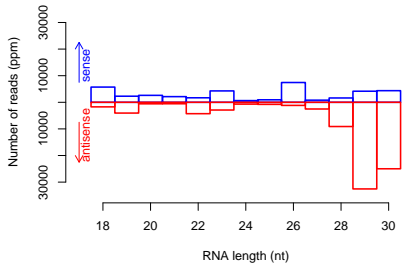
29-mers:



30-mers:

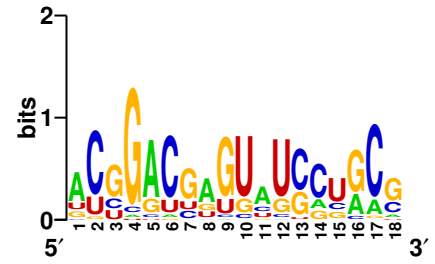


Embryo 36h, library 4:



Sense reads:

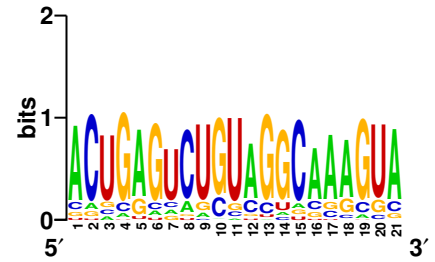
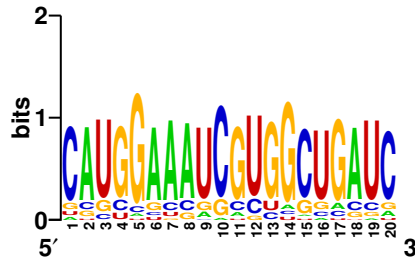
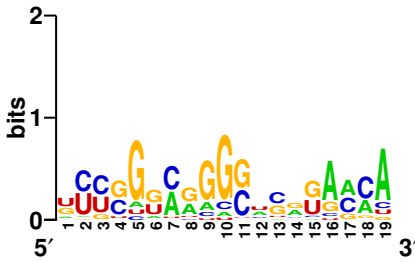
18-mers:



19-mers:

20-mers:

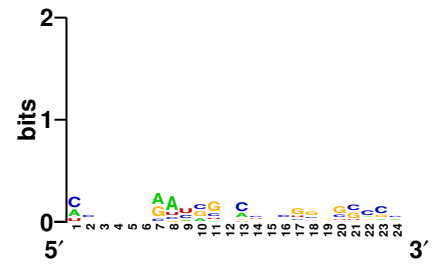
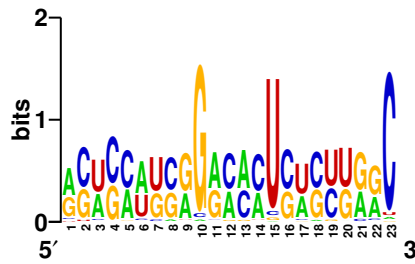
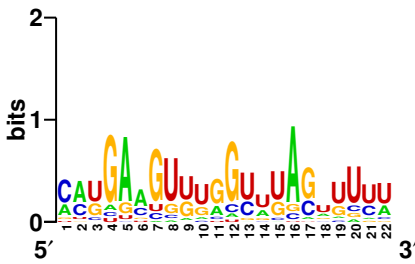
21-mers:



22-mers:

23-mers:

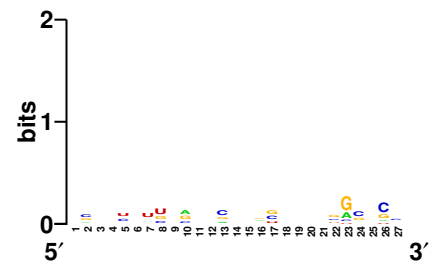
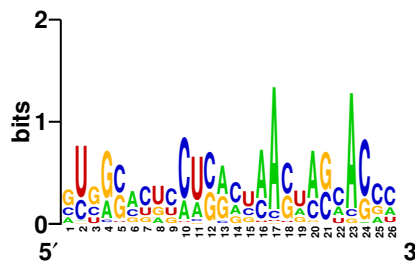
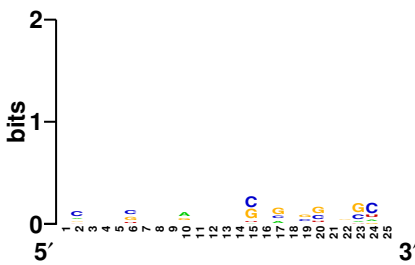
24-mers:



25-mers:

26-mers:

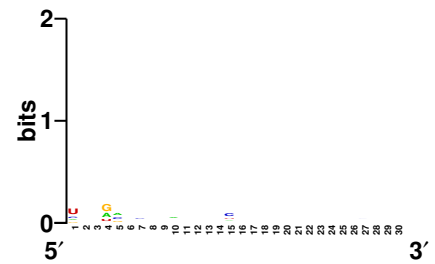
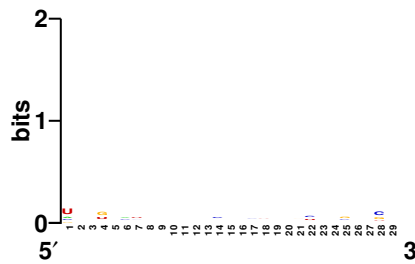
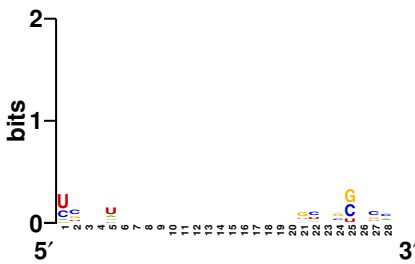
27-mers:



28-mers:

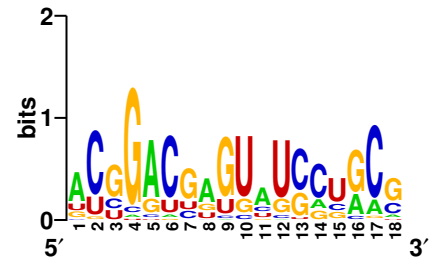
29-mers:

30-mers:

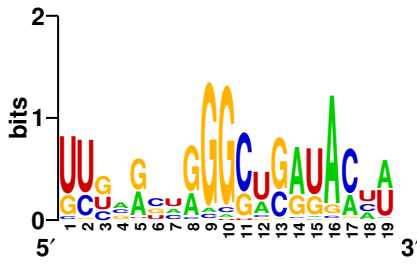


Antisense reads:

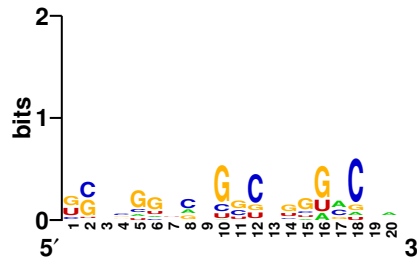
18-mers:



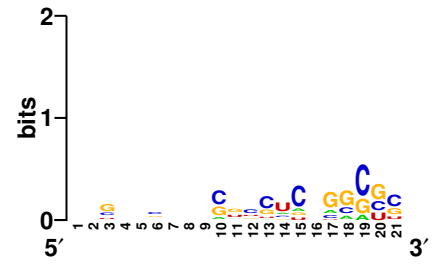
19-mers:



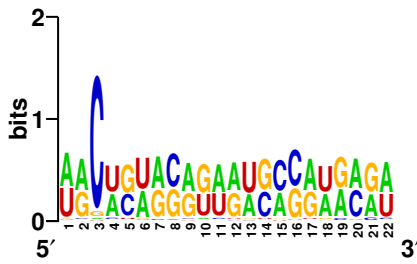
20-mers:



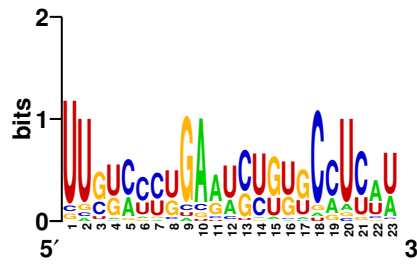
21-mers:



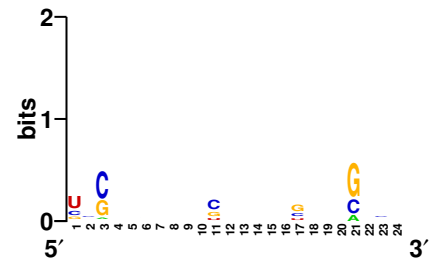
22-mers:



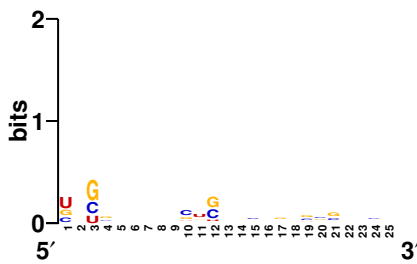
23-mers:



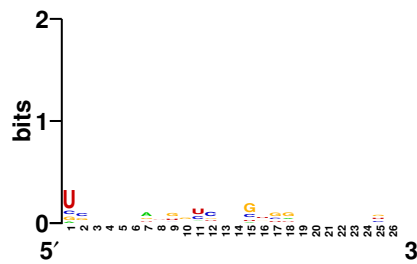
24-mers:



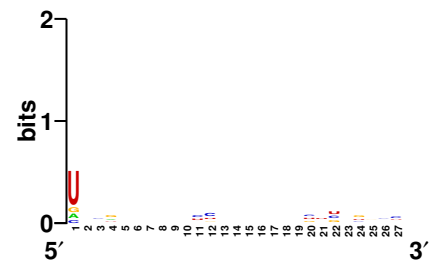
25-mers:



26-mers:



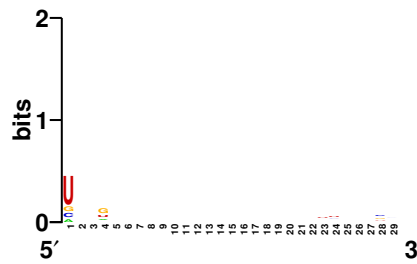
27-mers:



28-mers:



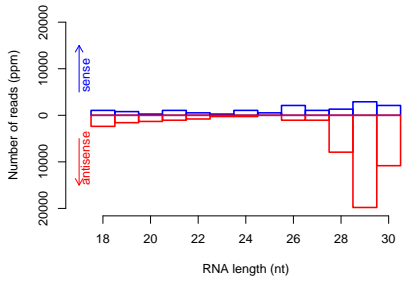
29-mers:



30-mers:

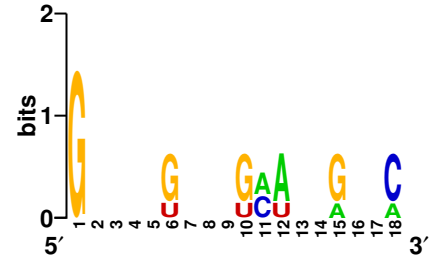


Embryo 60h, library 4:

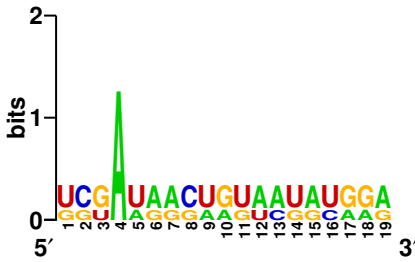


Sense reads:

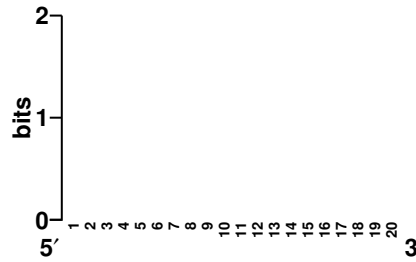
18-mers:



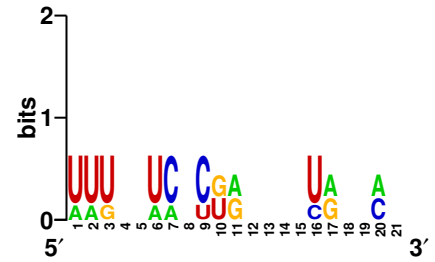
19-mers:



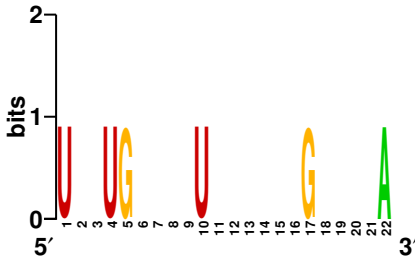
20-mers:



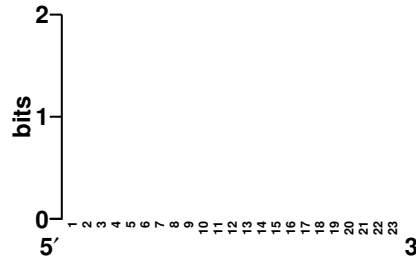
21-mers:



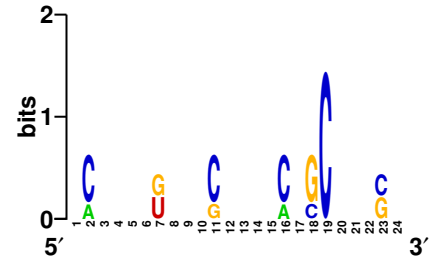
22-mers:



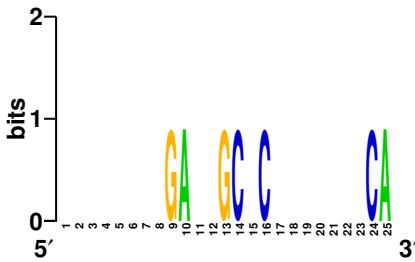
23-mers:



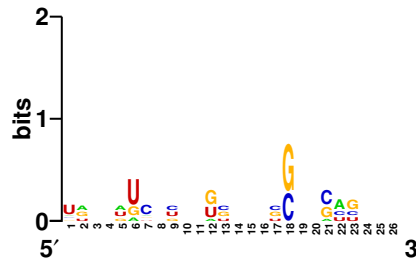
24-mers:



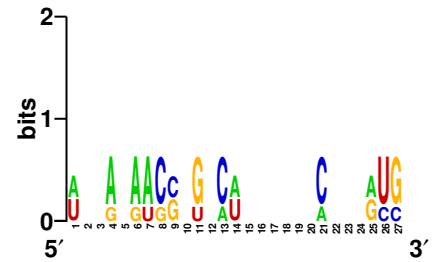
25-mers:



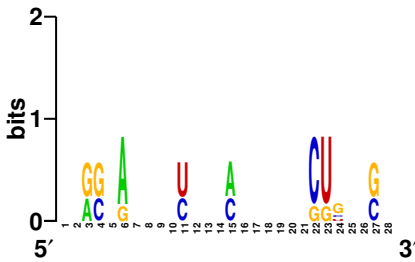
26-mers:



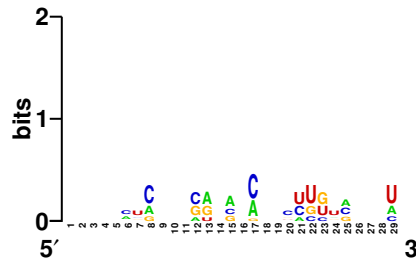
27-mers:



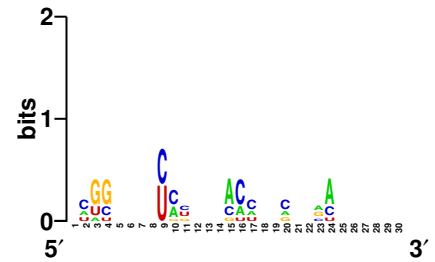
28-mers:



29-mers:

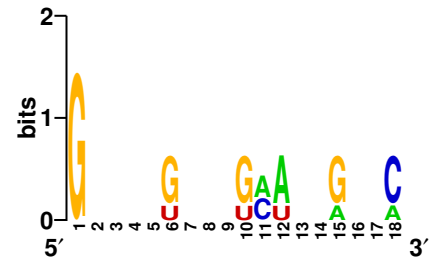


30-mers:

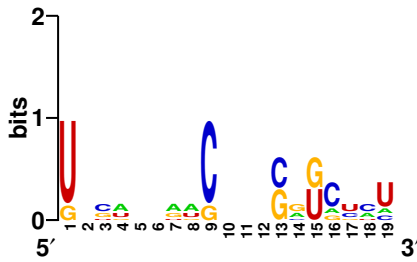


Antisense reads:

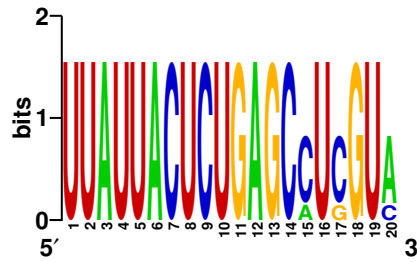
18-mers:



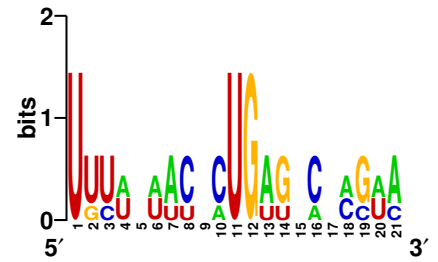
19-mers:



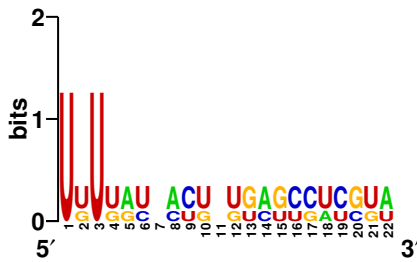
20-mers:



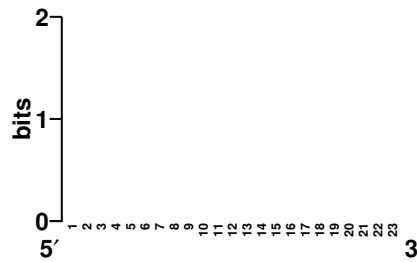
21-mers:



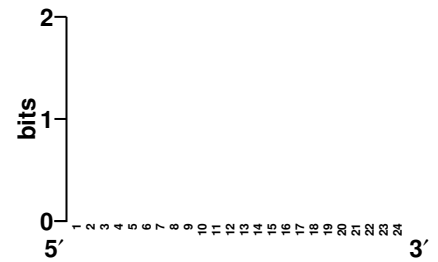
22-mers:



23-mers:



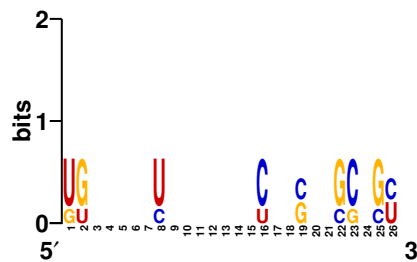
24-mers:



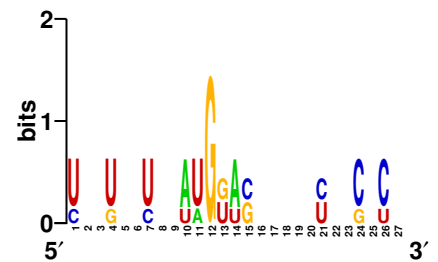
25-mers:



26-mers:

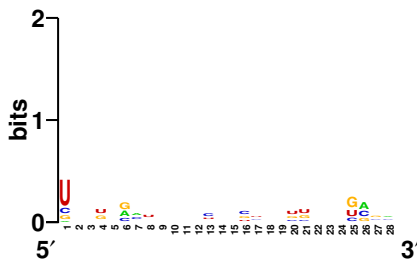


27-mers:

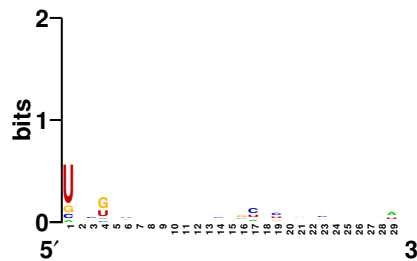


(no read)

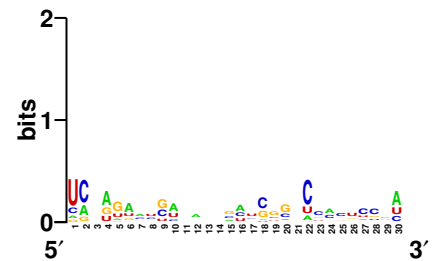
28-mers:



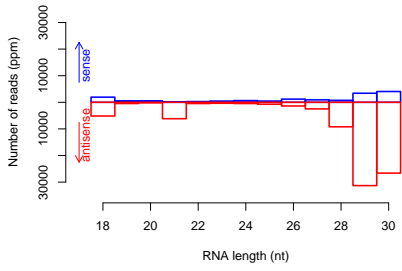
29-mers:



30-mers:

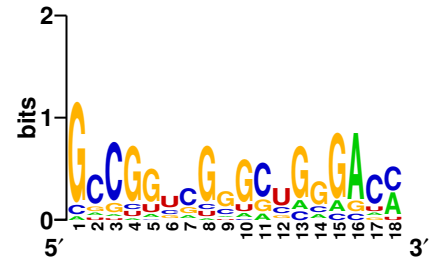


Adult female, library 4:

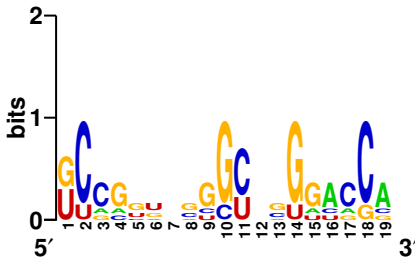


Sense reads:

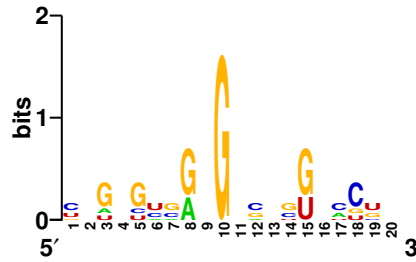
18-mers:



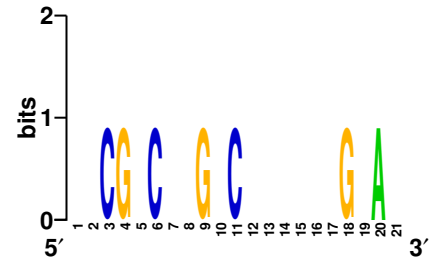
19-mers:



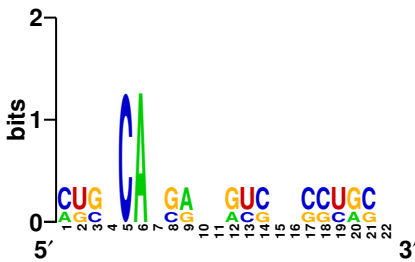
20-mers:



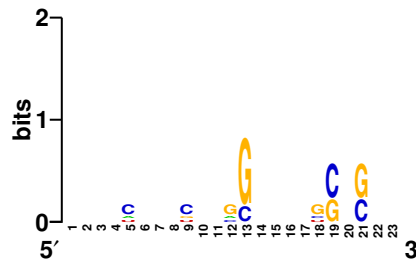
21-mers:



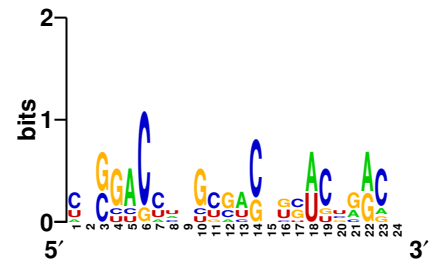
22-mers:



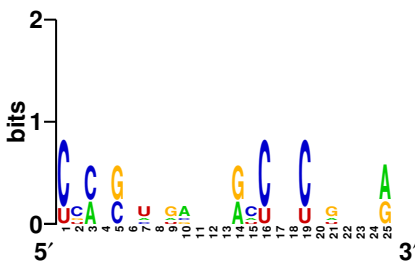
23-mers:



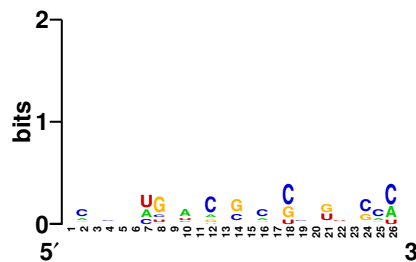
24-mers:



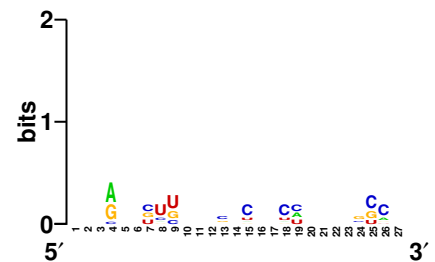
25-mers:



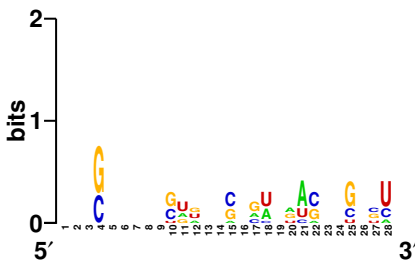
26-mers:



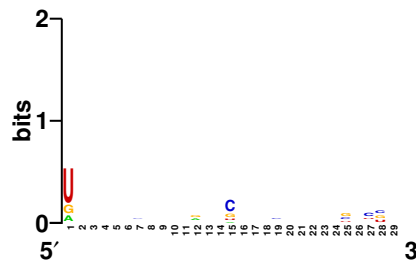
27-mers:



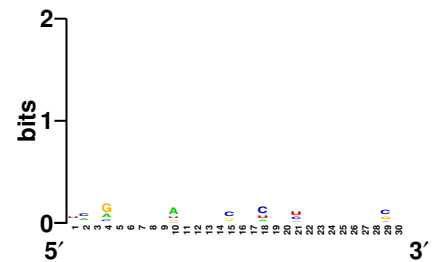
28-mers:



29-mers:

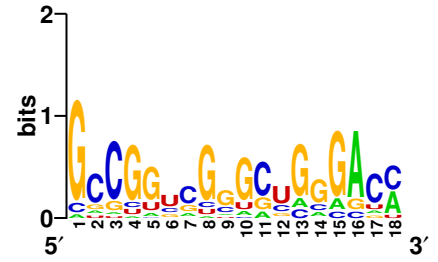


30-mers:

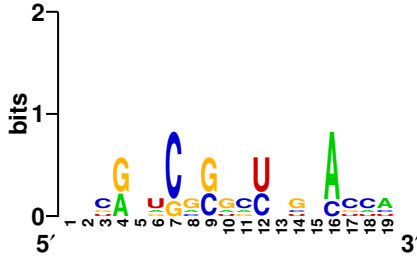


Antisense reads:

18-mers:



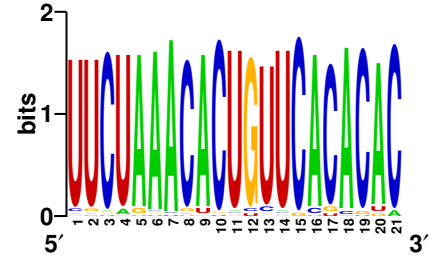
19-mers:



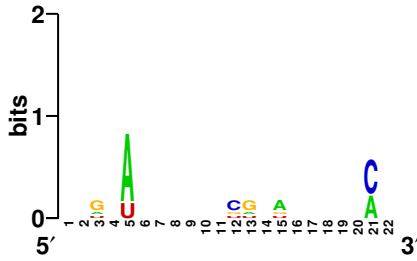
20-mers:



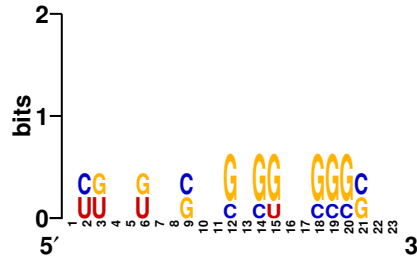
21-mers:



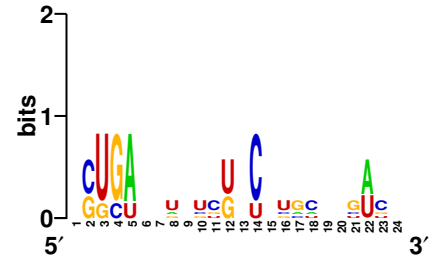
22-mers:



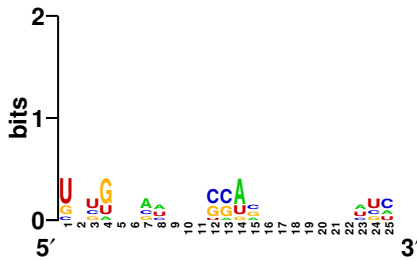
23-mers:



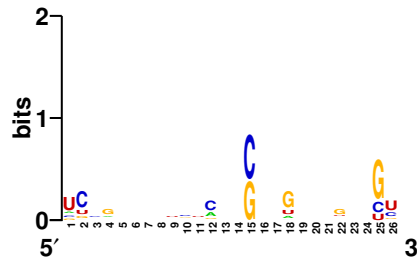
24-mers:



25-mers:



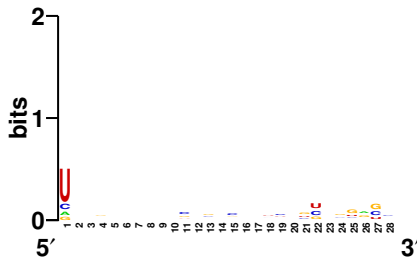
26-mers:



27-mers:



28-mers:



29-mers:

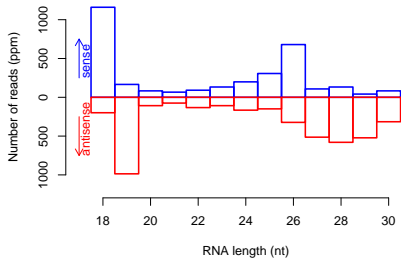


30-mers:



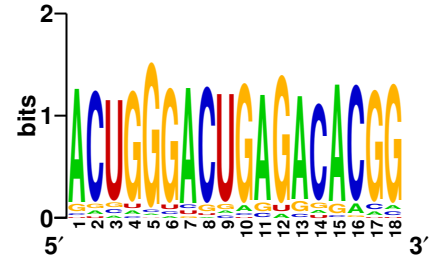


Adult male, library 4:

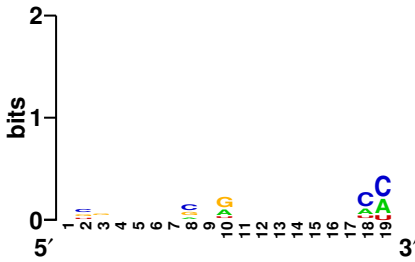


Sense reads:

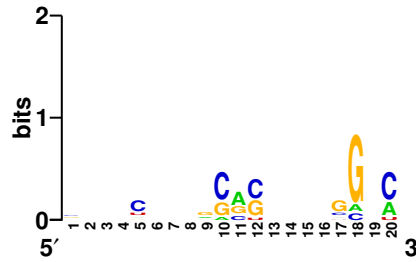
18-mers:



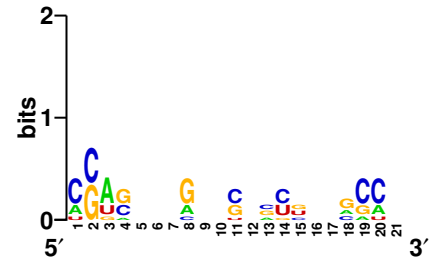
19-mers:



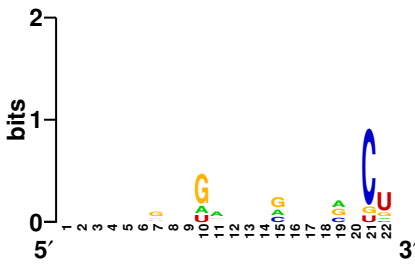
20-mers:



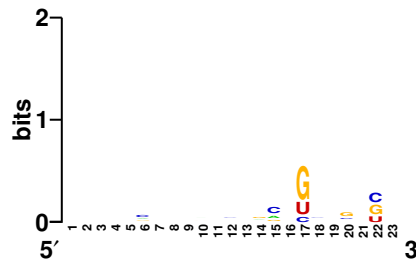
21-mers:



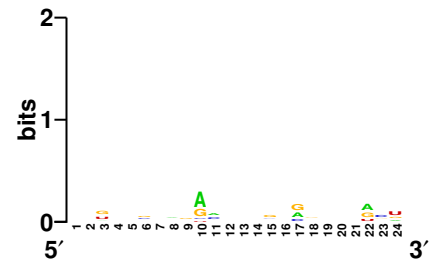
22-mers:



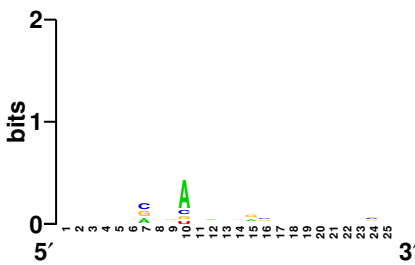
23-mers:



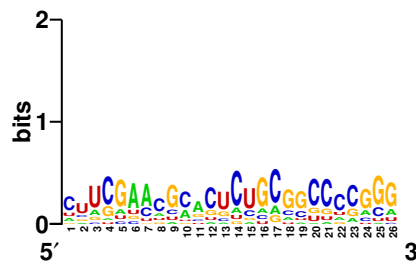
24-mers:



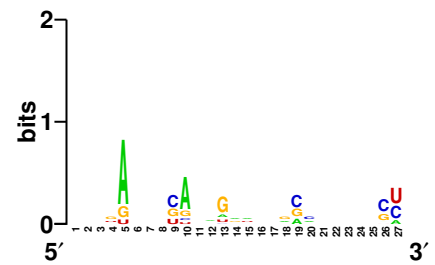
25-mers:



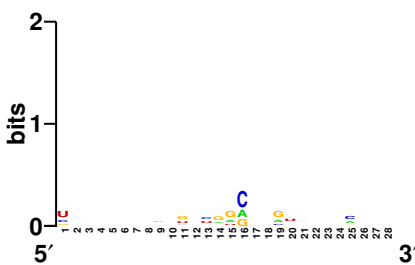
26-mers:



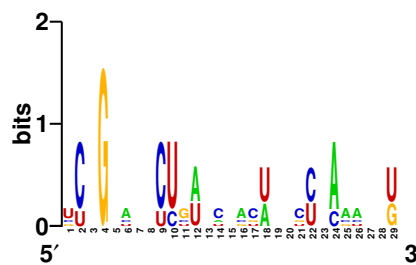
27-mers:



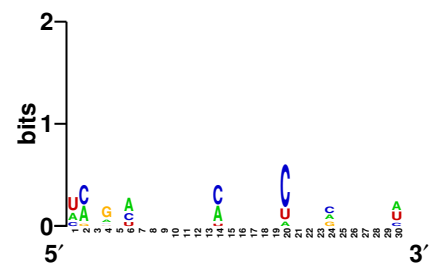
28-mers:



29-mers:

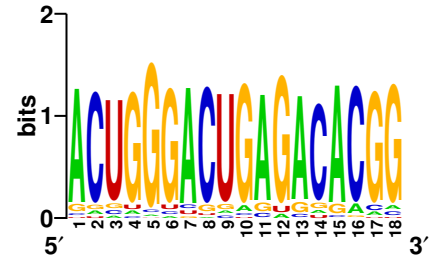


30-mers:

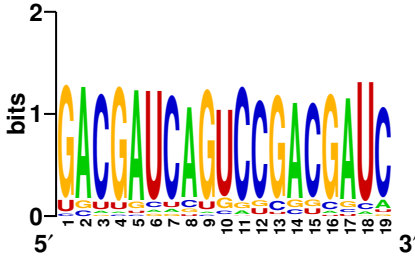


Antisense reads:

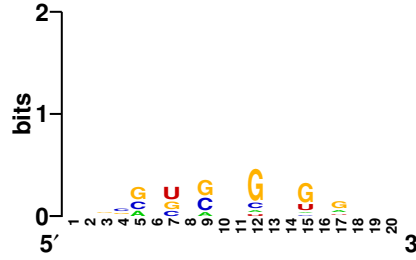
18-mers:



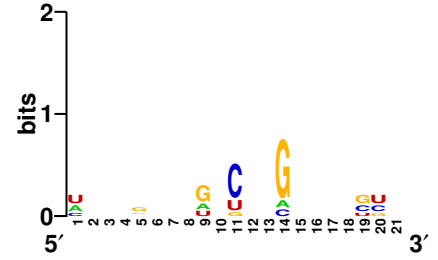
19-mers:



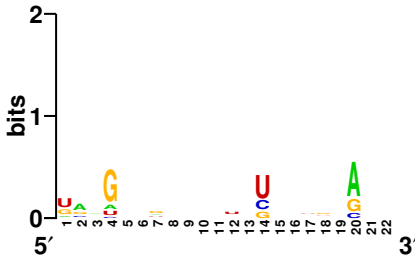
20-mers:



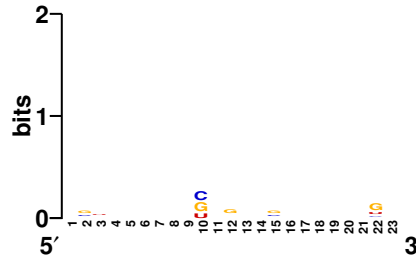
21-mers:



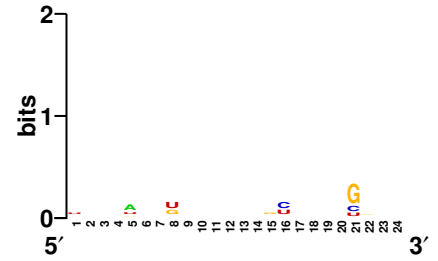
22-mers:



23-mers:



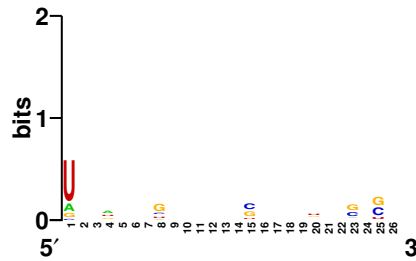
24-mers:



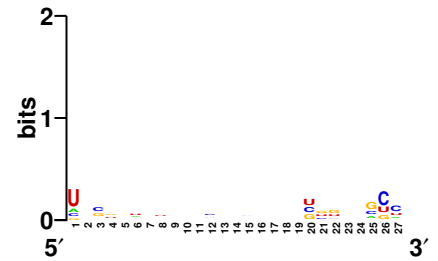
25-mers:



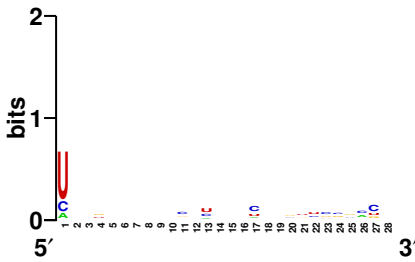
26-mers:



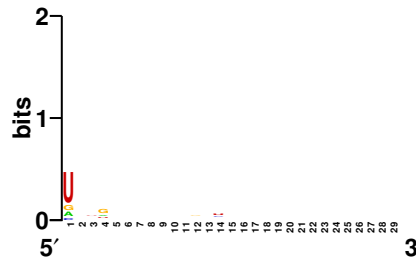
27-mers:



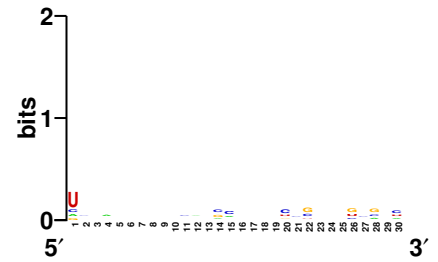
28-mers:



29-mers:



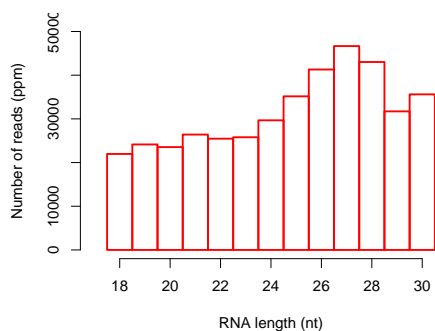
30-mers:



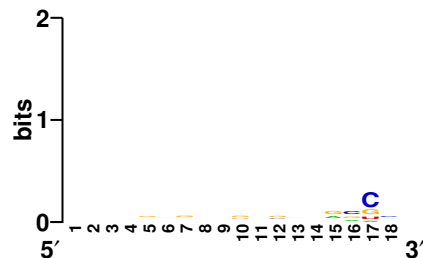
## 5 Extragenomic and extratranscriptomic reads

### 5.1 Libraries #1 (total 5' monophosphorylated small RNAs)

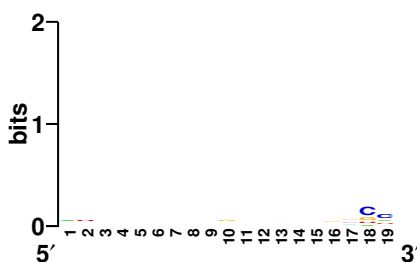
Embryo 8h, library 1:



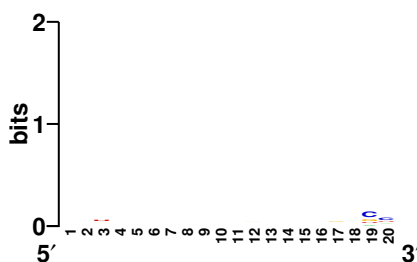
18-mers:



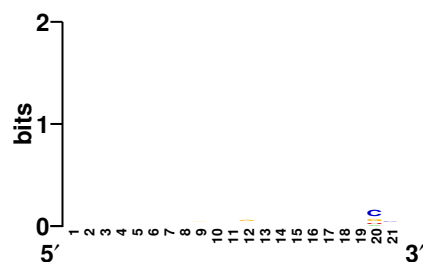
19-mers:



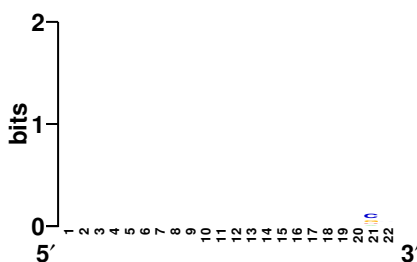
20-mers:



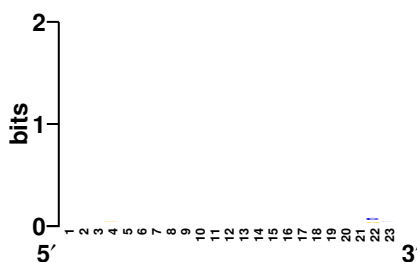
21-mers:



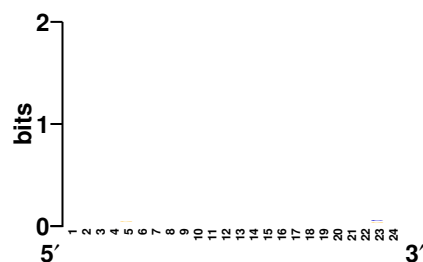
22-mers:



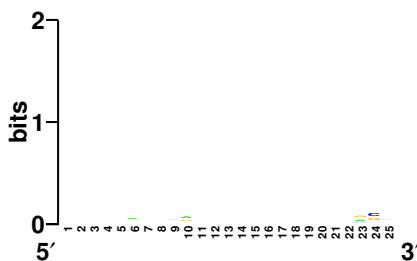
23-mers:



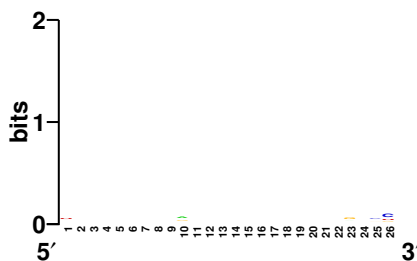
24-mers:



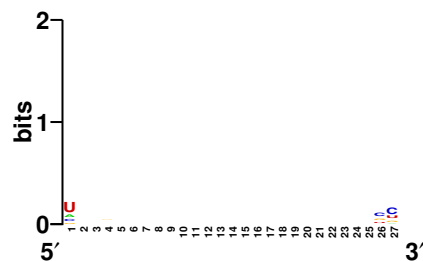
25-mers:



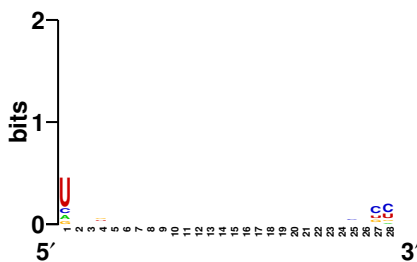
26-mers:



27-mers:



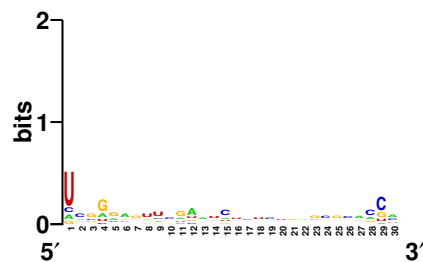
28-mers:



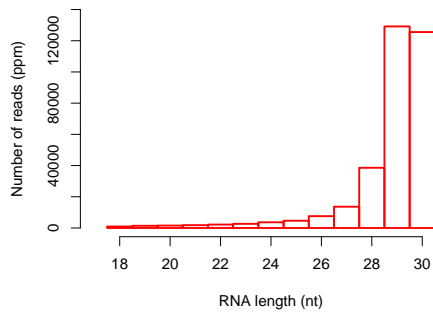
29-mers:



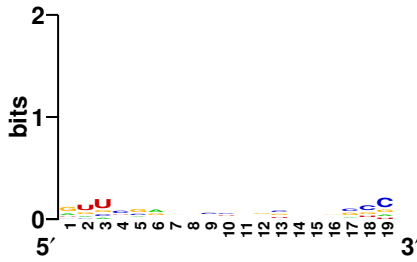
30-mers:



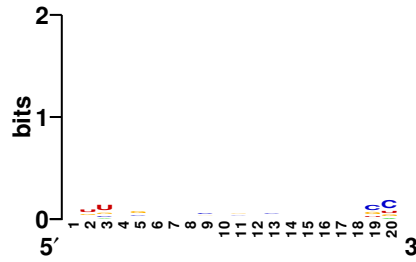
Embryo 15h, library 1:



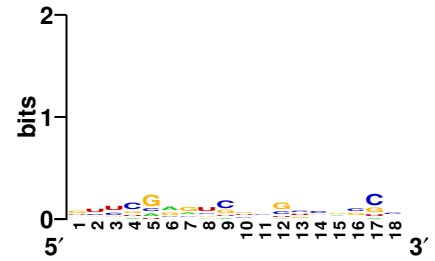
19-mers:



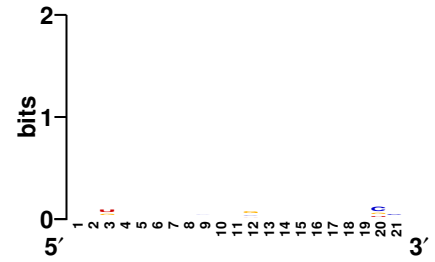
20-mers:



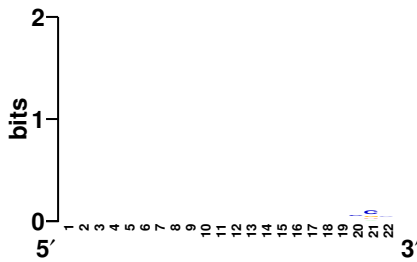
18-mers:



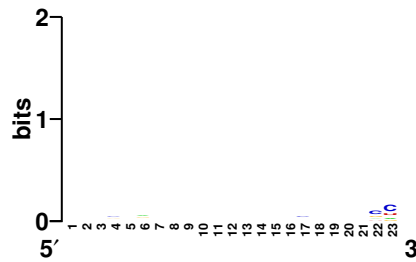
21-mers:



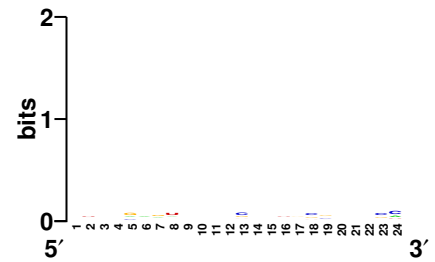
22-mers:



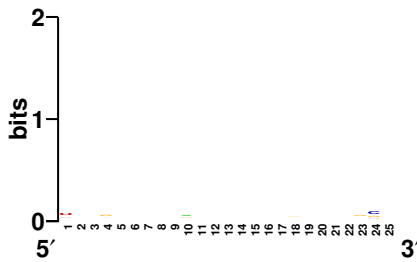
23-mers:



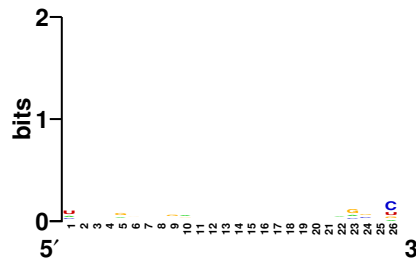
24-mers:



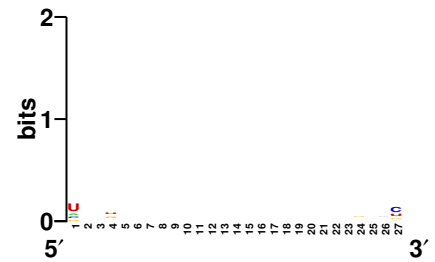
25-mers:



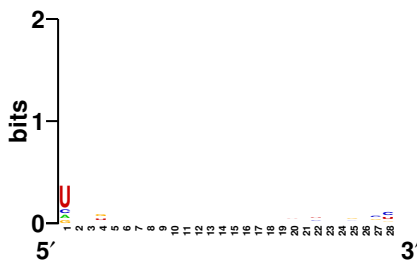
26-mers:



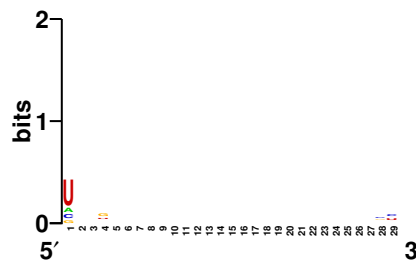
27-mers:



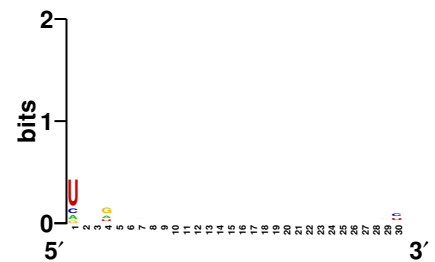
28-mers:



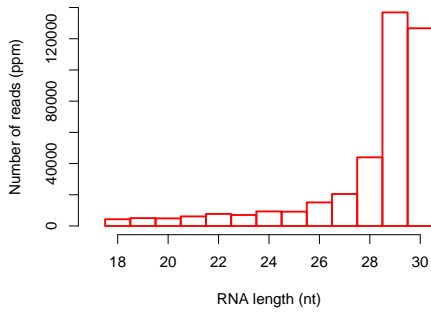
29-mers:



30-mers:

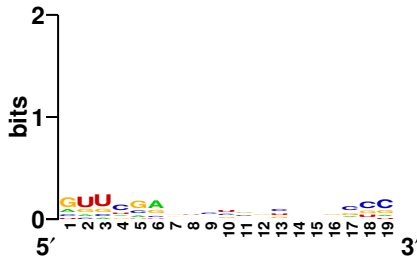
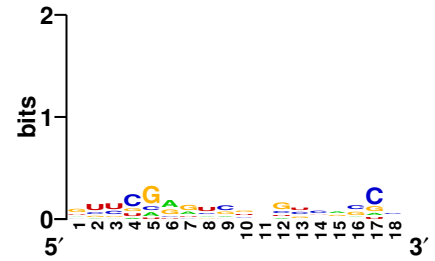


Embryo 36h, library 1:

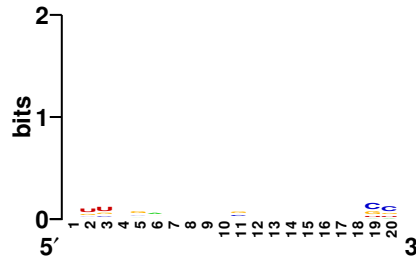


18-mers:

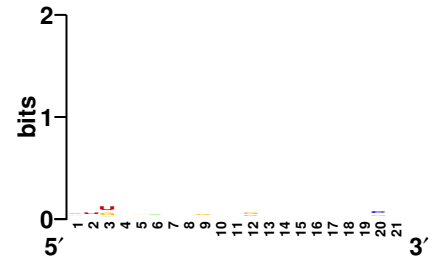
18-mers:



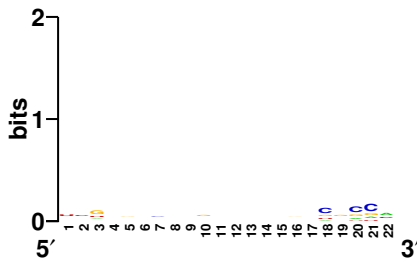
20-mers:



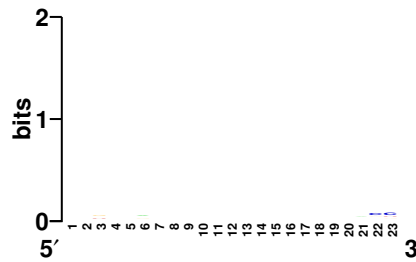
21-mers:



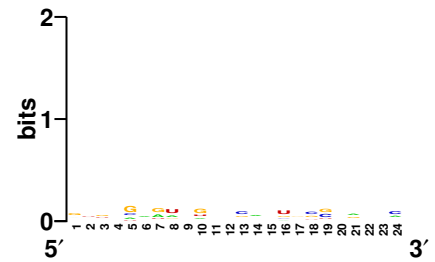
22-mers:



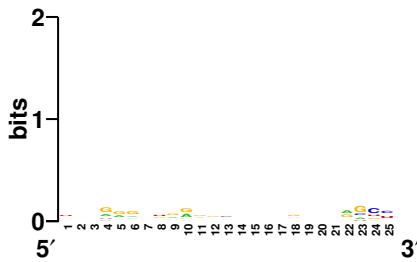
23-mers:



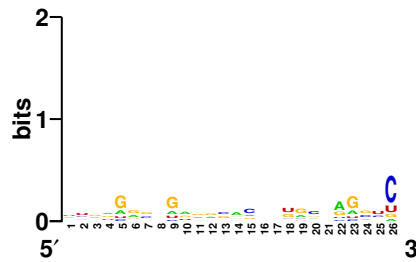
24-mers:



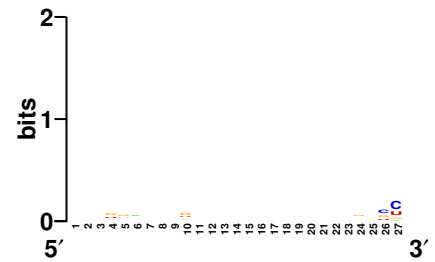
25-mers:



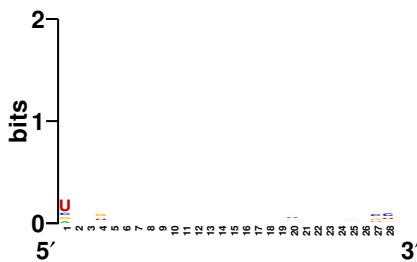
26-mers:



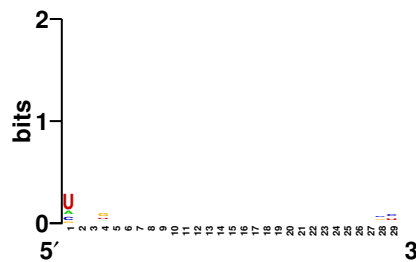
27-mers:



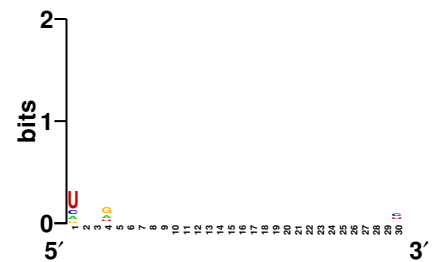
28-mers:



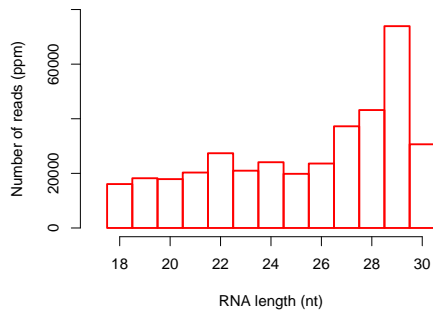
29-mers:



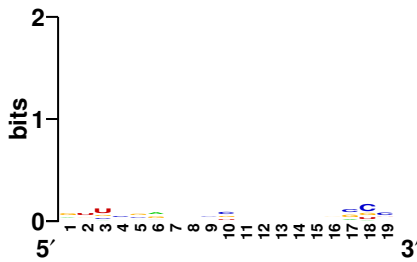
30-mers:



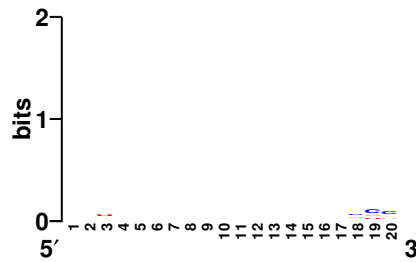
Embryo 60h, library 1:



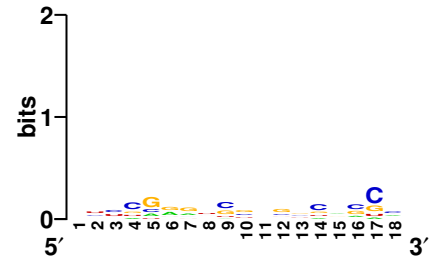
19-mers:



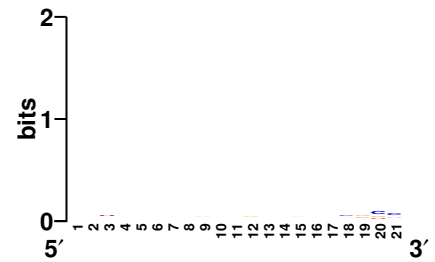
20-mers:



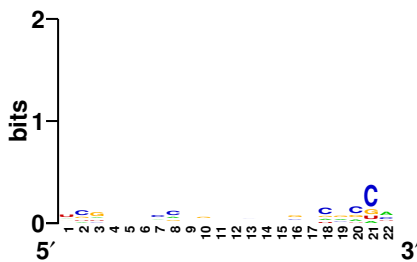
18-mers:



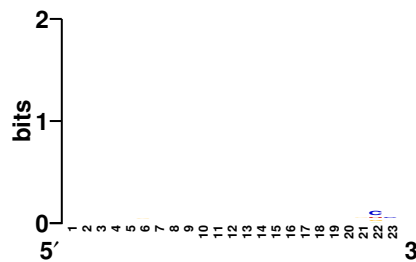
21-mers:



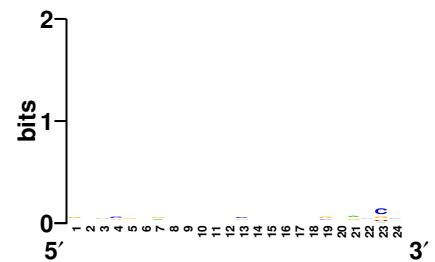
22-mers:



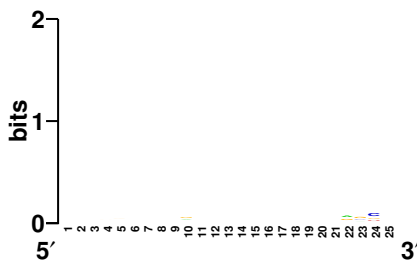
23-mers:



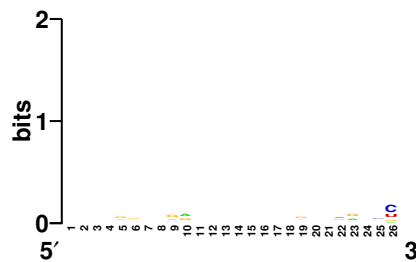
24-mers:



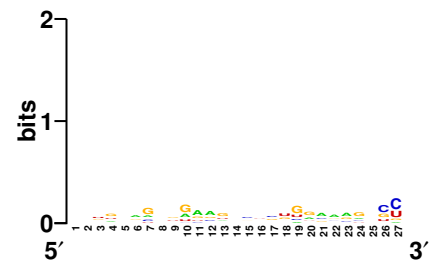
25-mers:



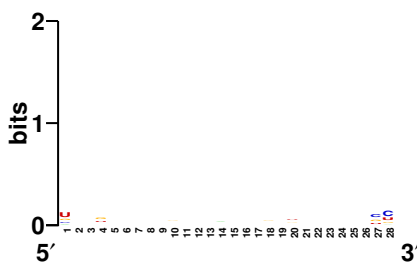
26-mers:



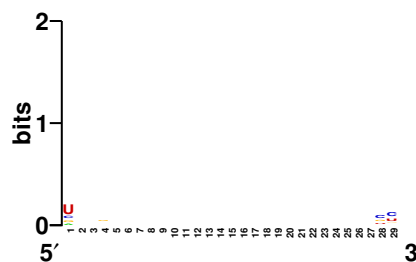
27-mers:



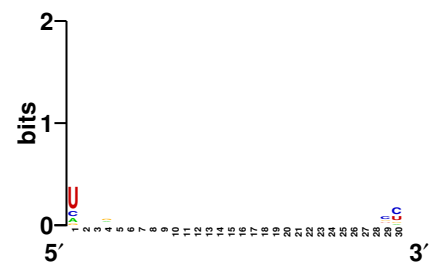
28-mers:



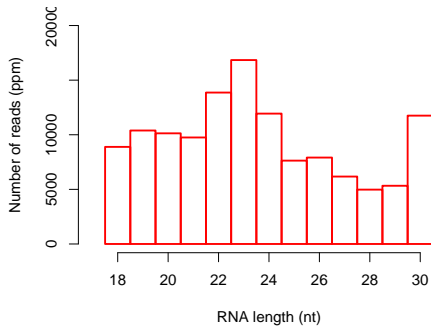
29-mers:



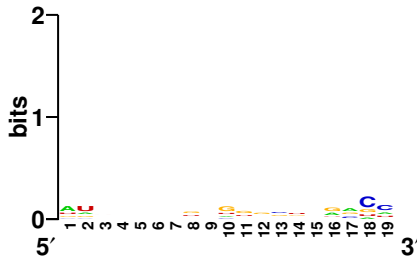
30-mers:



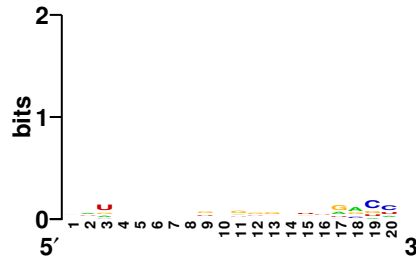
Adult female, library 1:



19-mers:



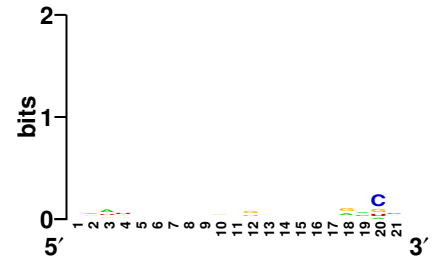
20-mers:



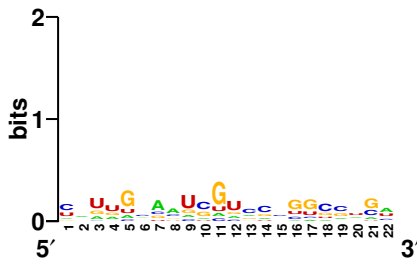
18-mers:



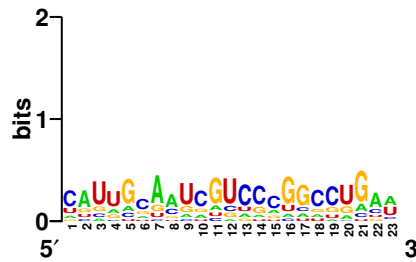
21-mers:



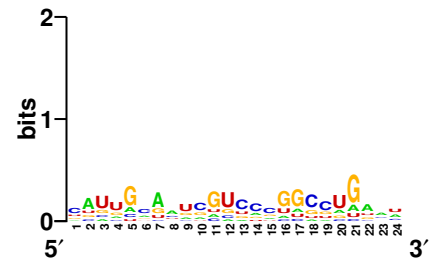
22-mers:



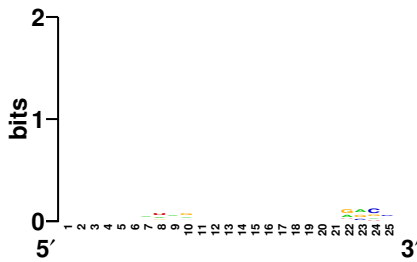
23-mers:



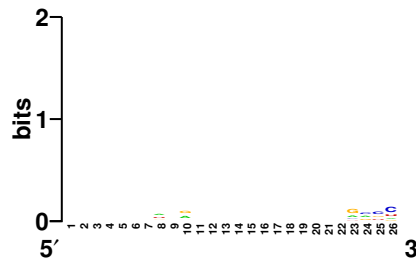
24-mers:



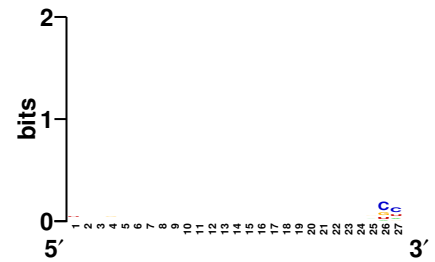
25-mers:



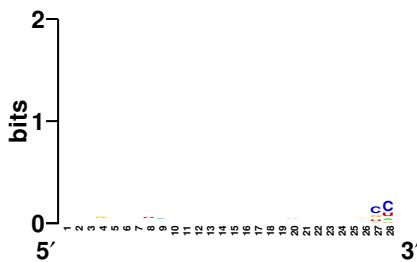
26-mers:



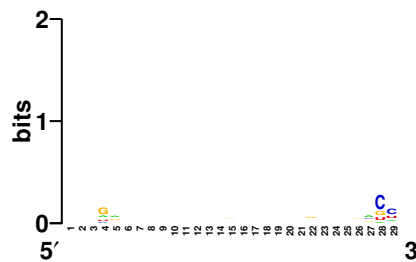
27-mers:



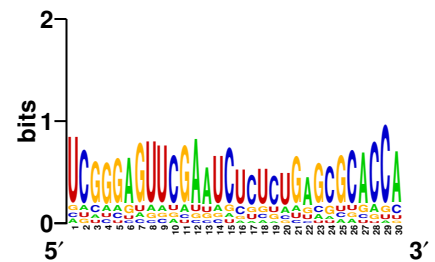
28-mers:



29-mers:



30-mers:

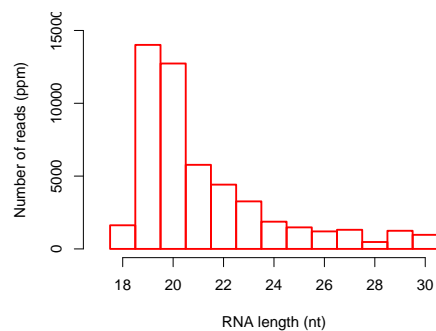




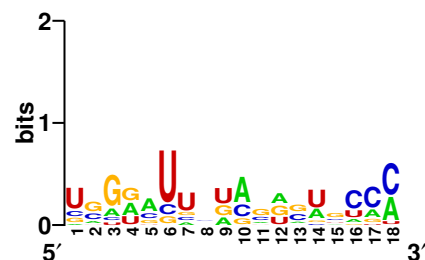


## 5.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

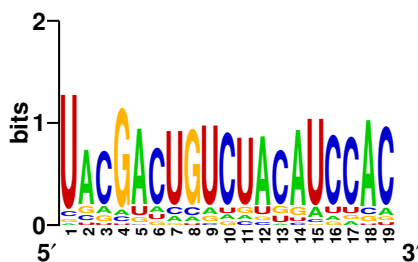
Embryo 8h, library 2:



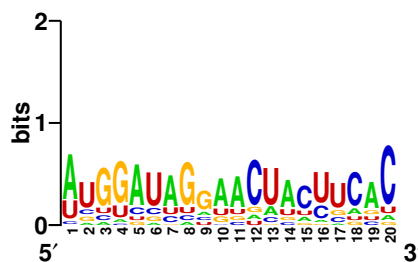
18-mers:



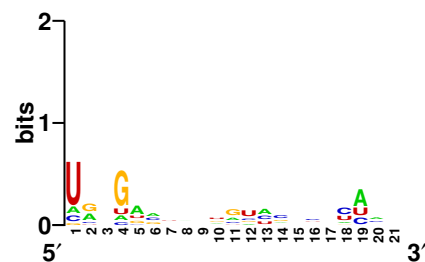
19-mers:



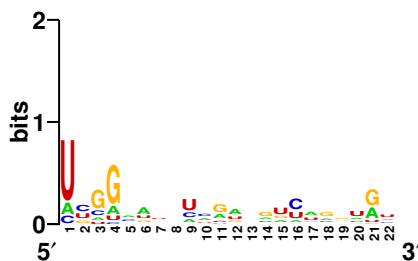
20-mers:



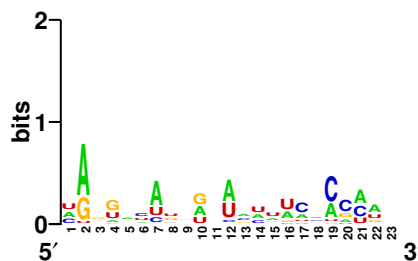
21-mers:



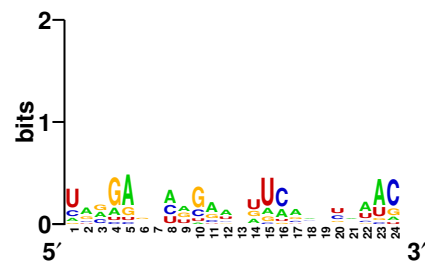
22-mers:



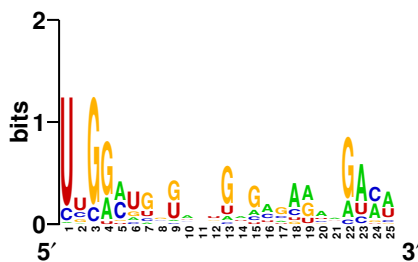
23-mers:



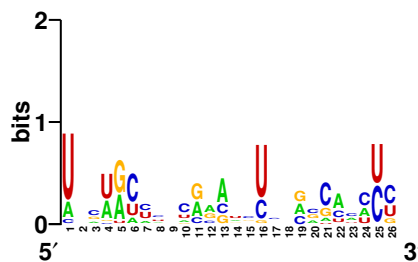
24-mers:



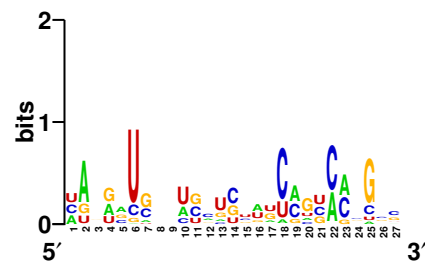
25-mers:



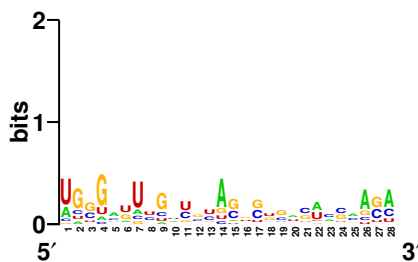
26-mers:



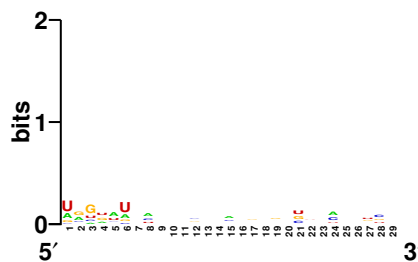
27-mers:



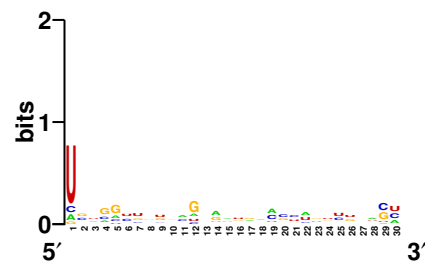
28-mers:



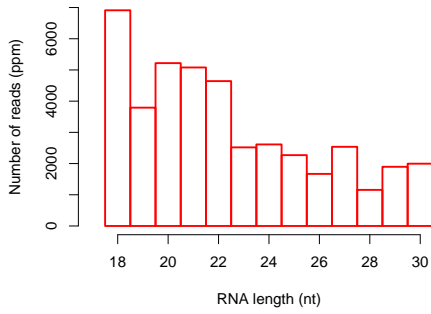
29-mers:



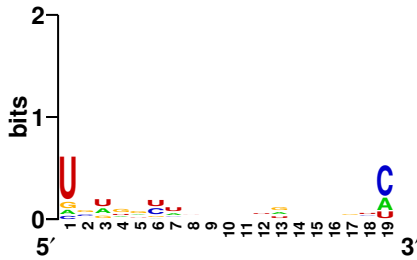
30-mers:



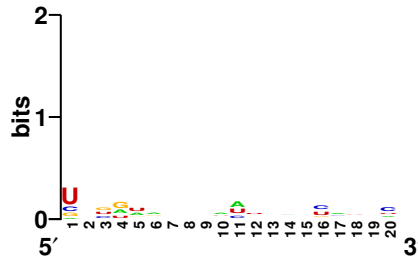
Embryo 15h, library 2:



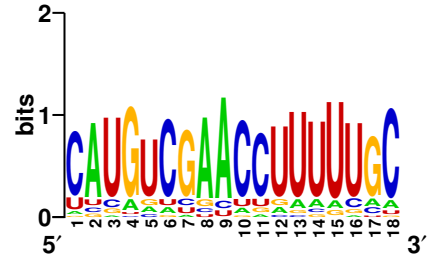
19-mers:



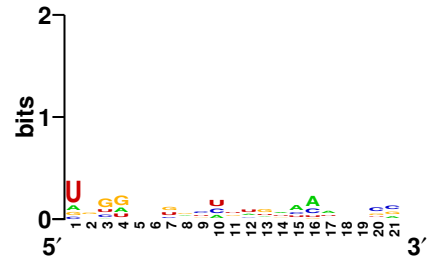
20-mers:



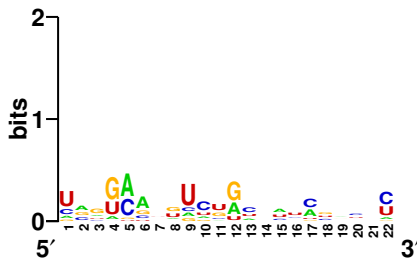
18-mers:



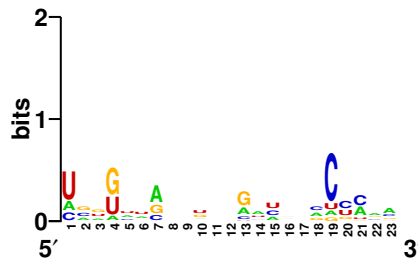
21-mers:



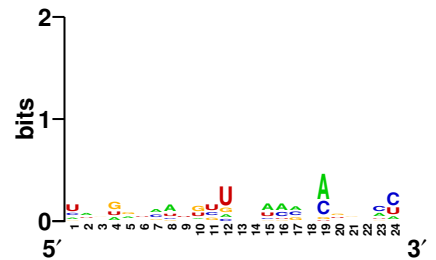
22-mers:



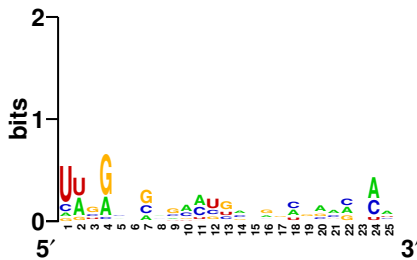
23-mers:



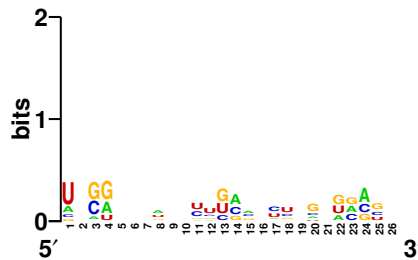
24-mers:



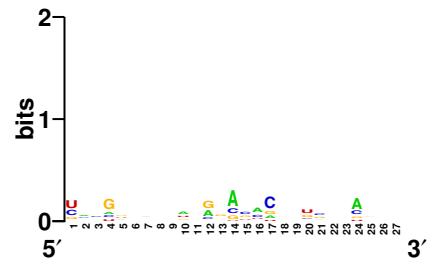
25-mers:



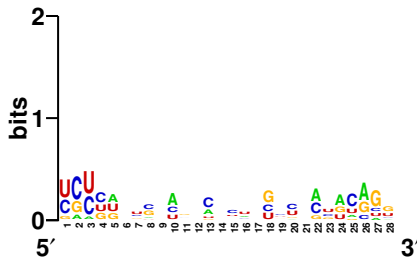
26-mers:



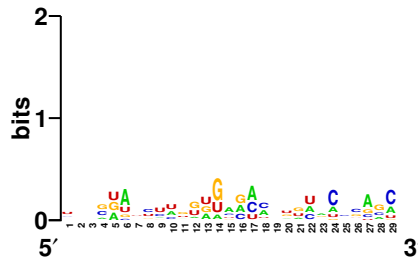
27-mers:



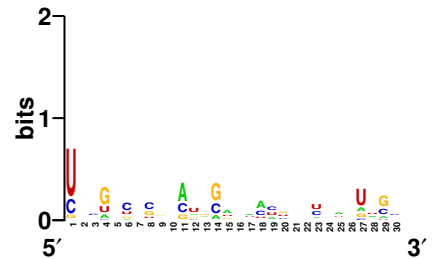
28-mers:



29-mers:



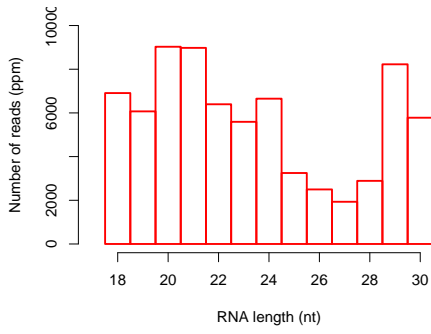
30-mers:



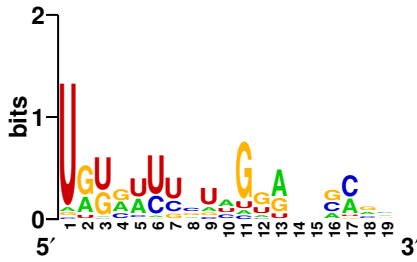




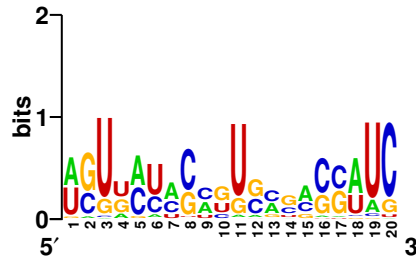
Adult female, library 2:



19-mers:



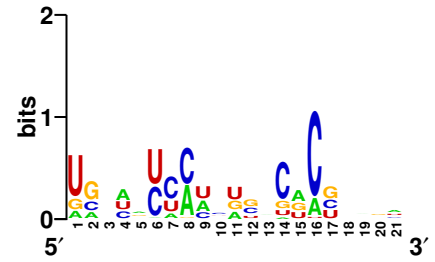
20-mers:



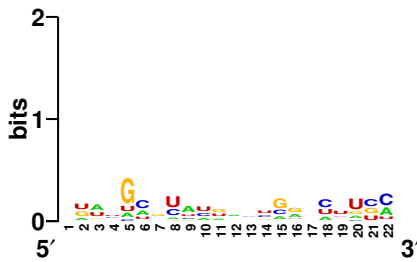
18-mers:



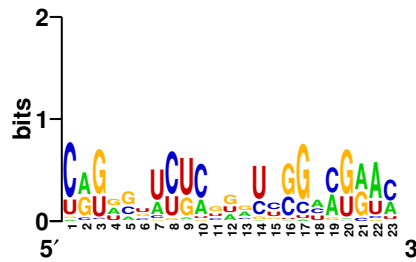
21-mers:



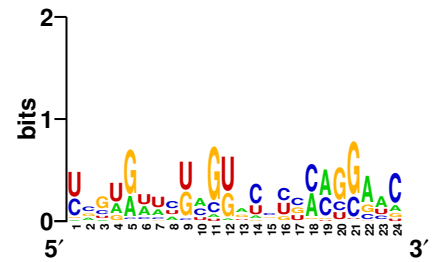
22-mers:



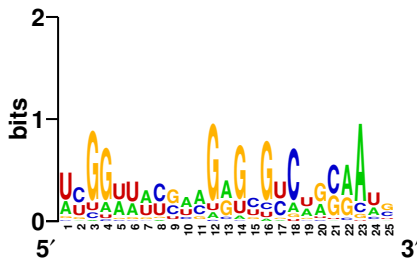
23-mers:



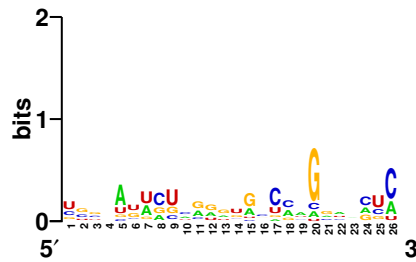
24-mers:



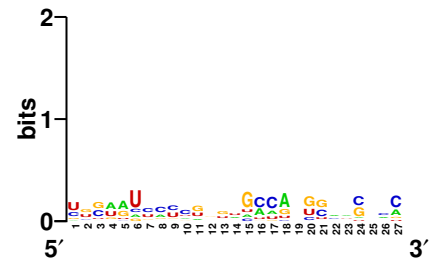
25-mers:



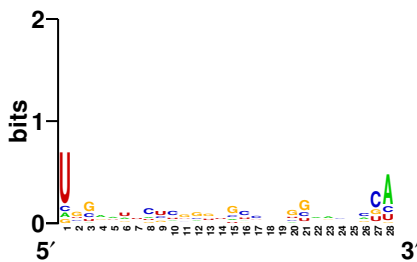
26-mers:



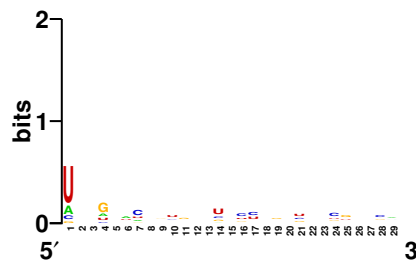
27-mers:



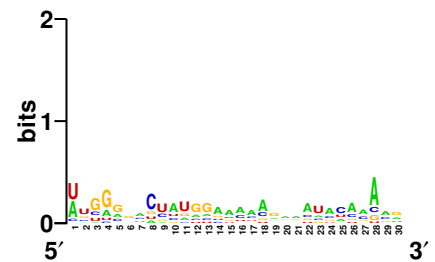
28-mers:



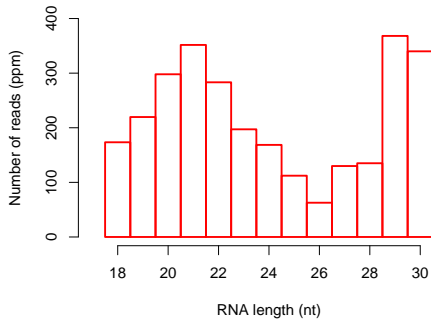
29-mers:



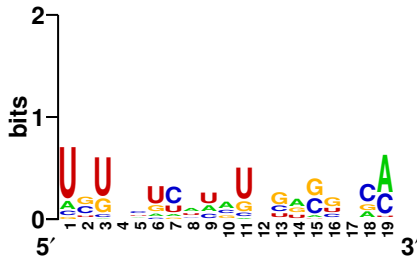
30-mers:



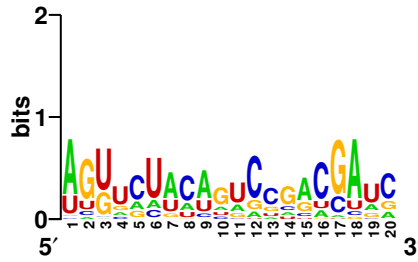
Adult male, library 2:



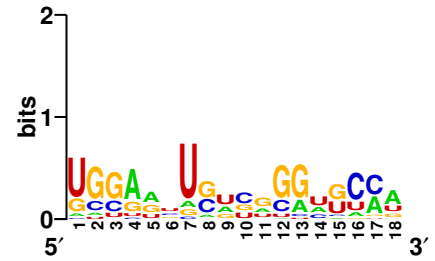
19-mers:



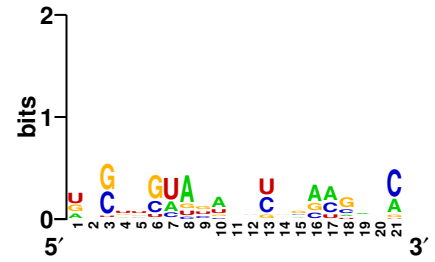
20-mers:



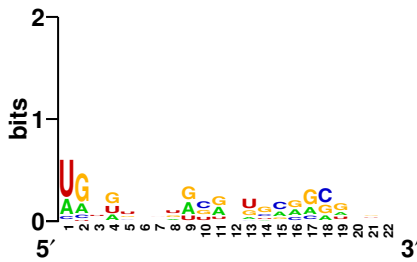
18-mers:



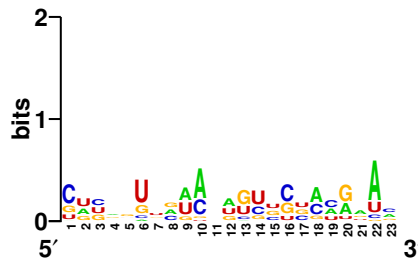
21-mers:



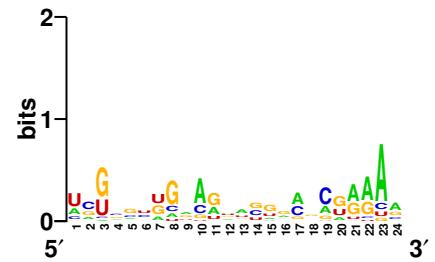
22-mers:



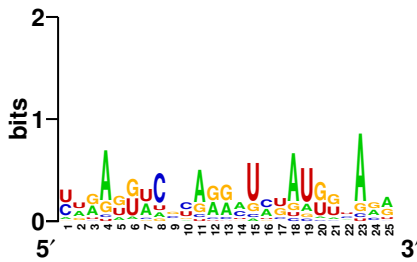
23-mers:



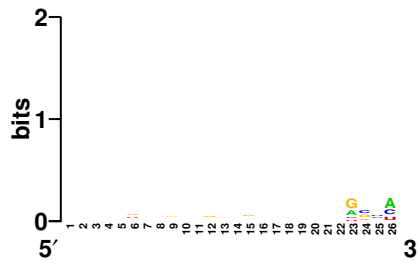
24-mers:



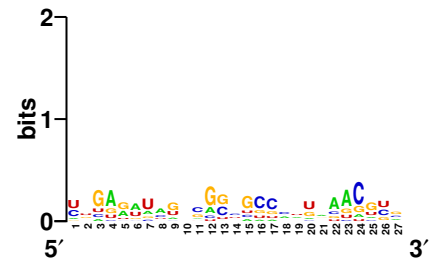
25-mers:



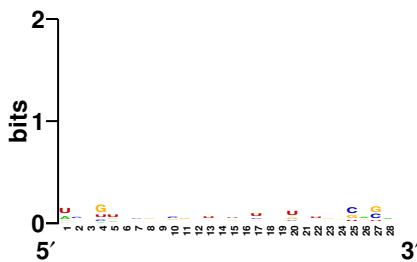
26-mers:



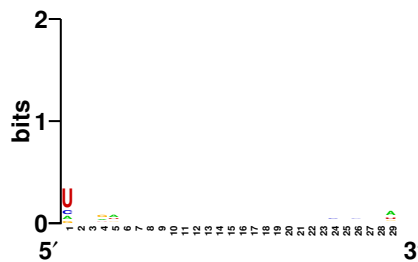
27-mers:



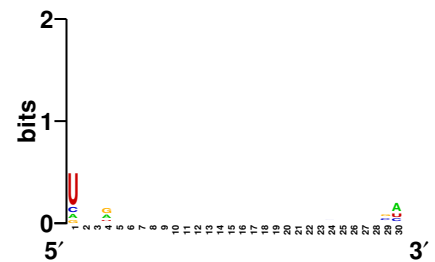
28-mers:



29-mers:



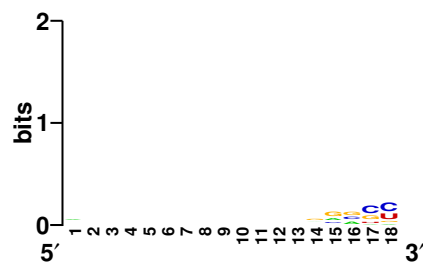
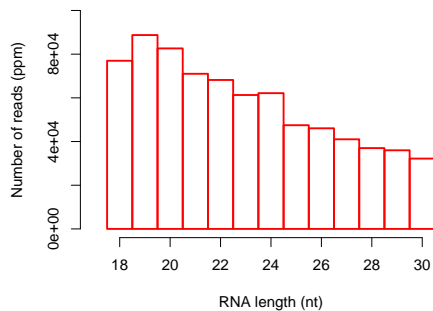
30-mers:



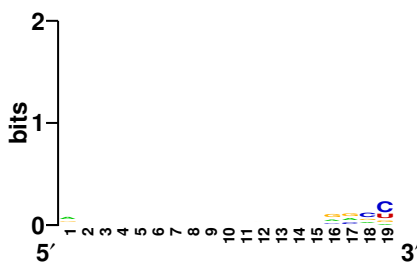
### 5.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 3:

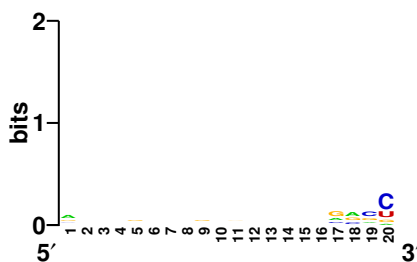
18-mers:



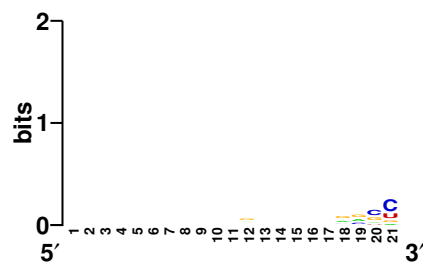
19-mers:



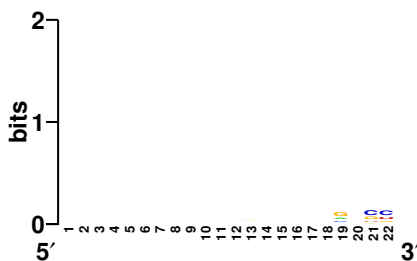
20-mers:



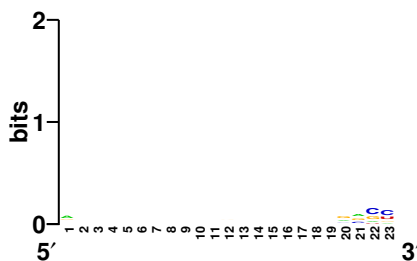
21-mers:



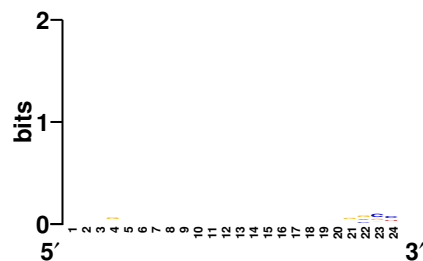
22-mers:



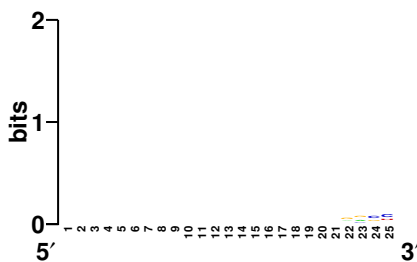
23-mers:



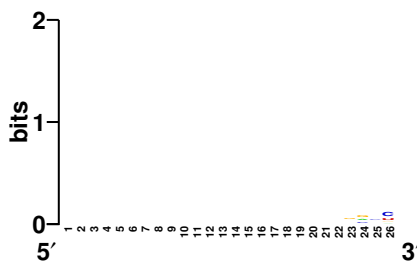
24-mers:



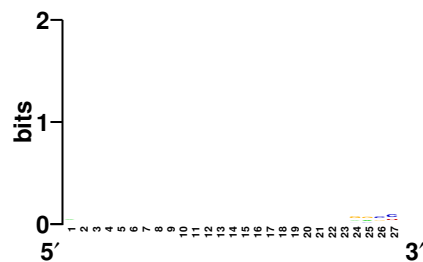
25-mers:



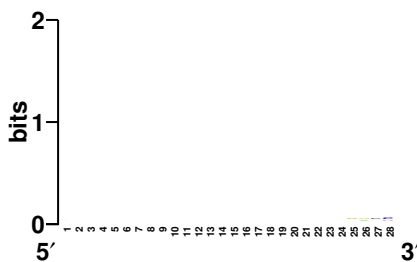
26-mers:



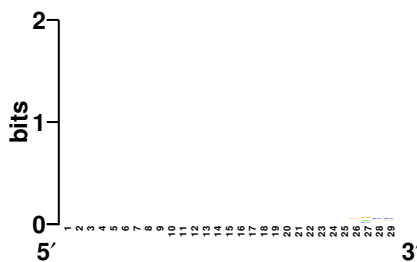
27-mers:



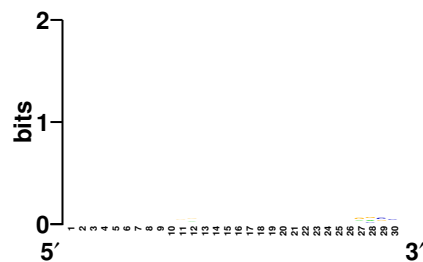
28-mers:



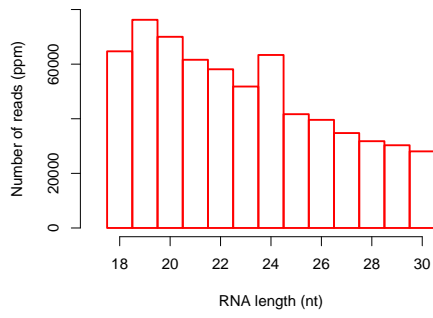
29-mers:



30-mers:



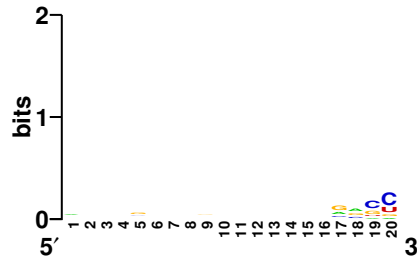
Embryo 15h, library 3:



19-mers:



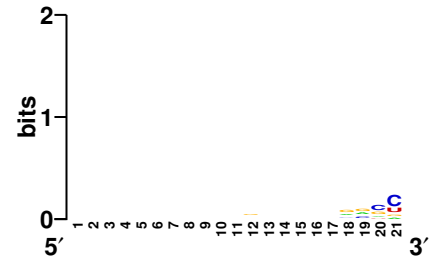
20-mers:



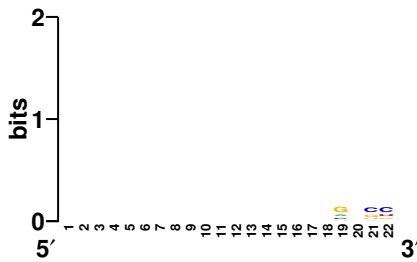
18-mers:



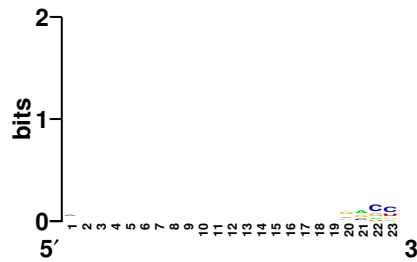
21-mers:



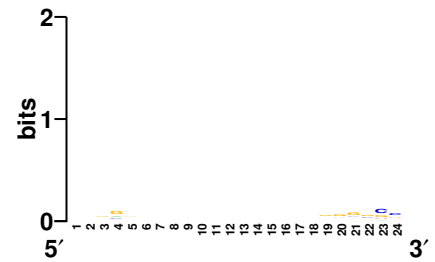
22-mers:



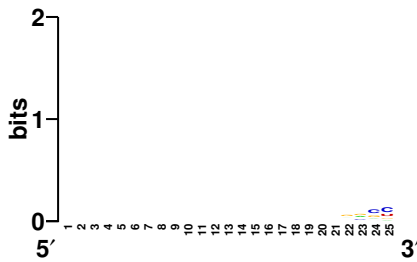
23-mers:



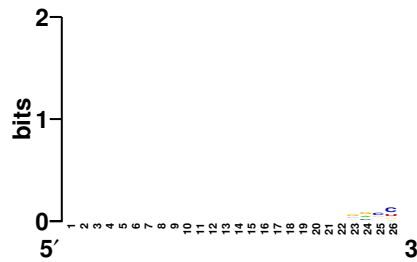
24-mers:



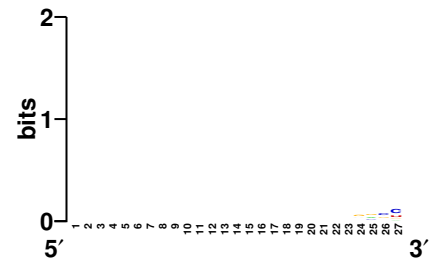
25-mers:



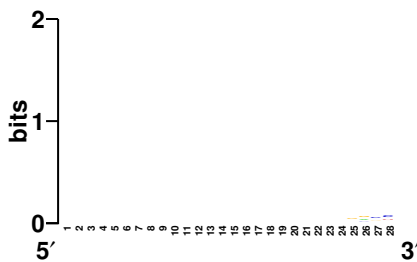
26-mers:



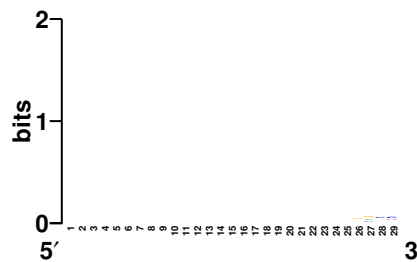
27-mers:



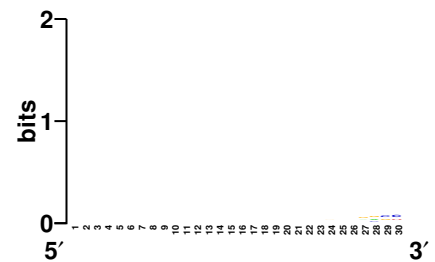
28-mers:



29-mers:

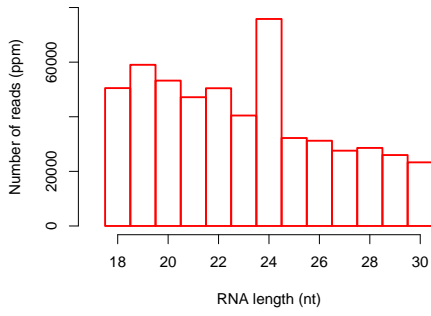


30-mers:

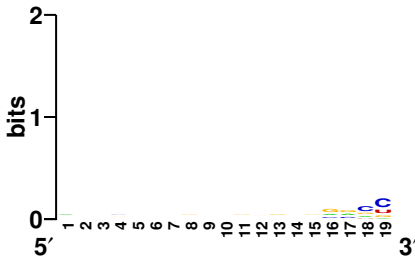




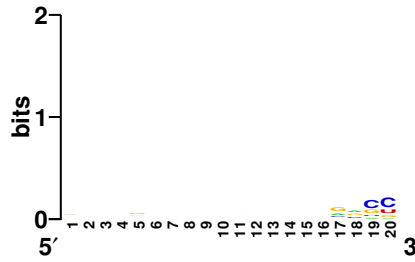
Embryo 36h, library 3:



19-mers:



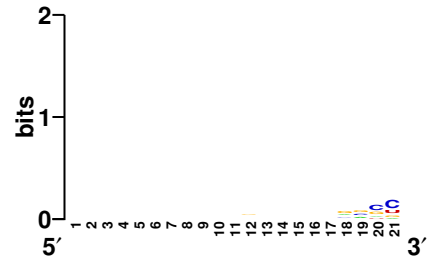
20-mers:



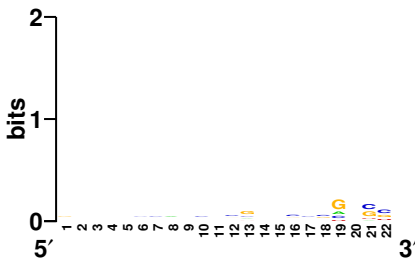
18-mers:



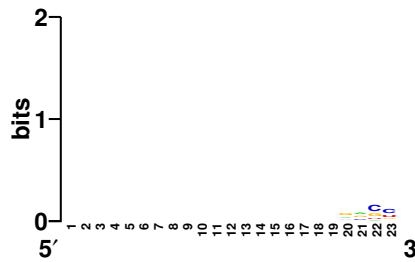
21-mers:



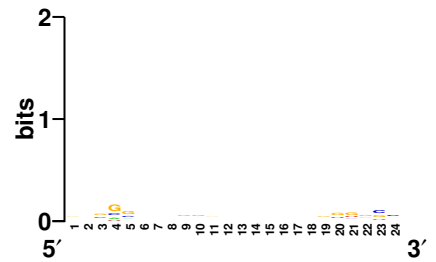
22-mers:



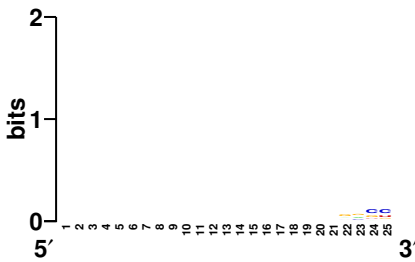
23-mers:



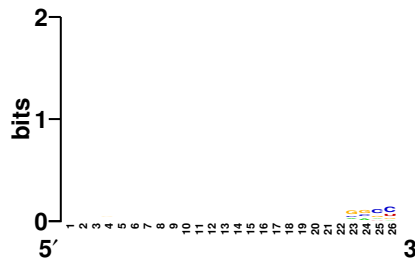
24-mers:



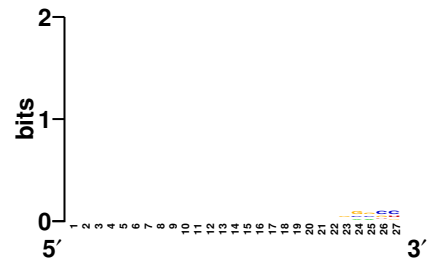
25-mers:



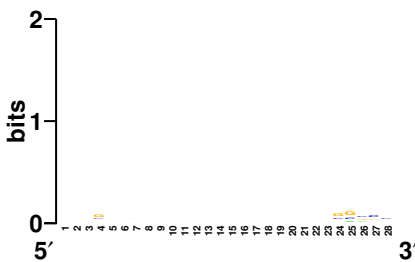
26-mers:



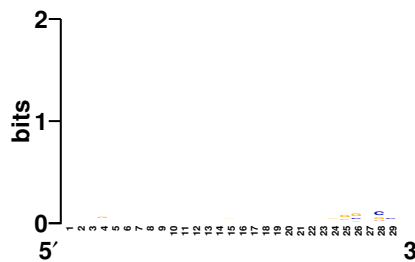
27-mers:



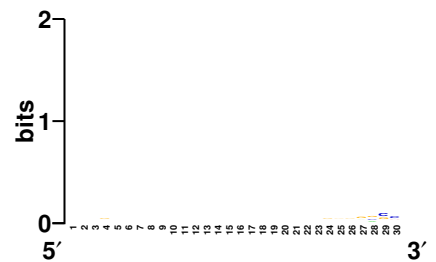
28-mers:



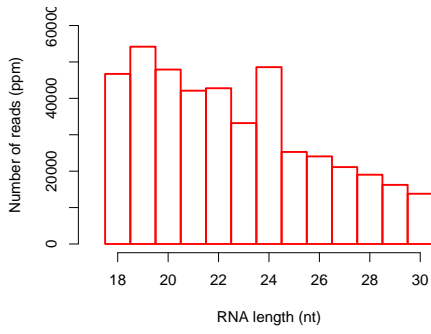
29-mers:



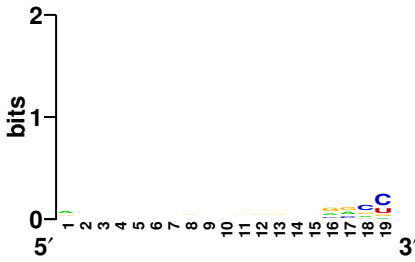
30-mers:



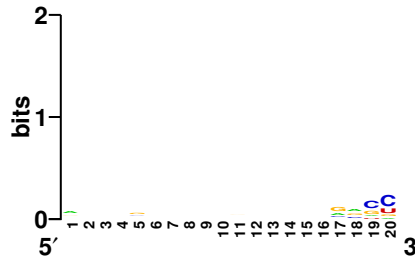
Embryo 60h, library 3:



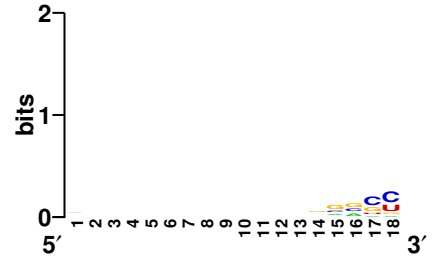
19-mers:



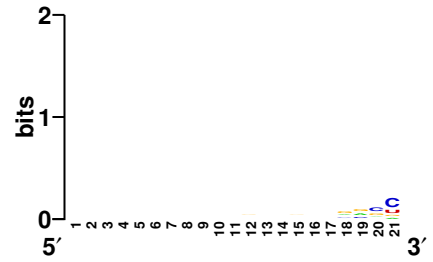
20-mers:



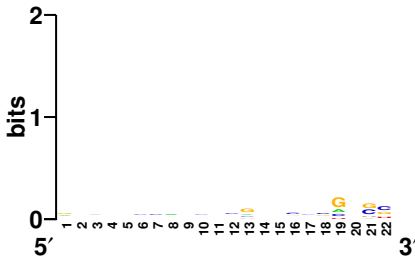
18-mers:



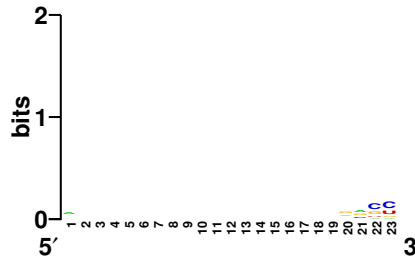
21-mers:



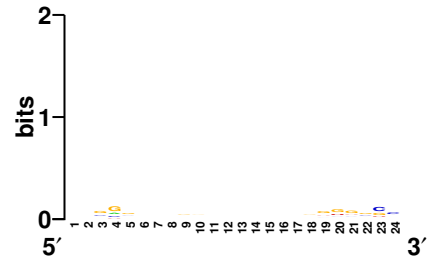
22-mers:



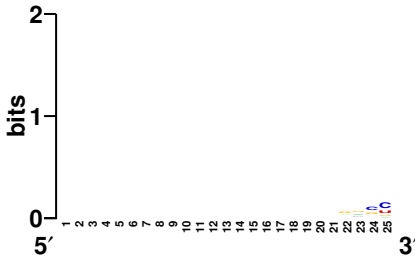
23-mers:



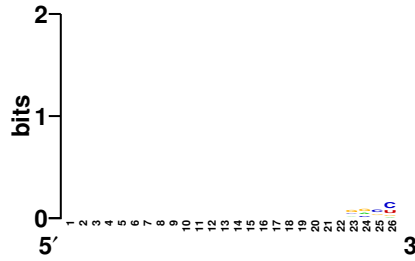
24-mers:



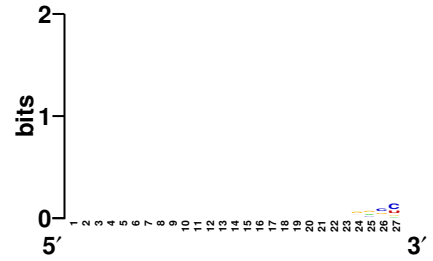
25-mers:



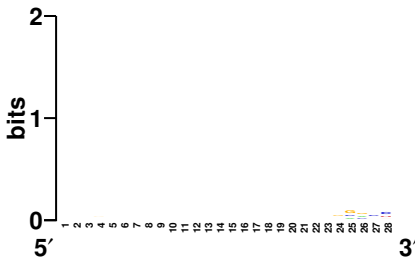
26-mers:



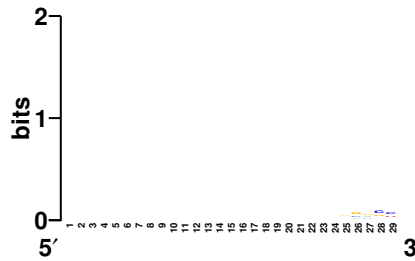
27-mers:



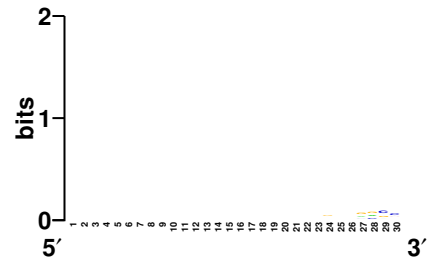
28-mers:



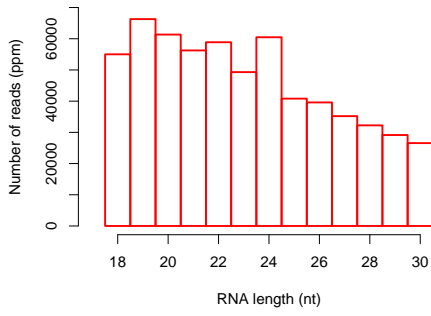
29-mers:



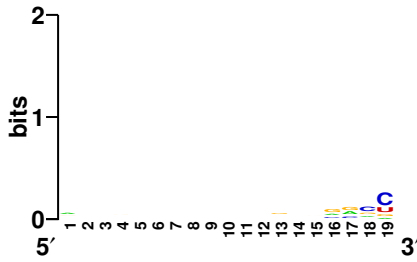
30-mers:



Adult female, library 3:



19-mers:



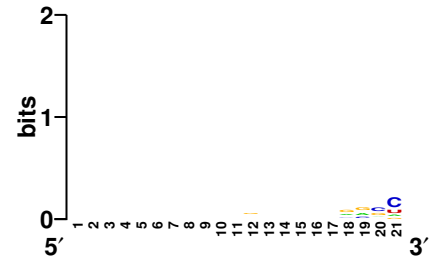
20-mers:



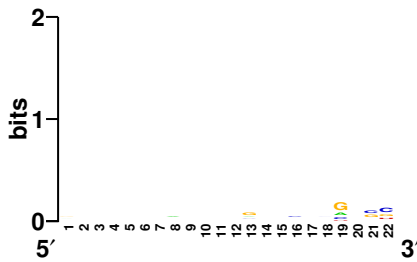
18-mers:



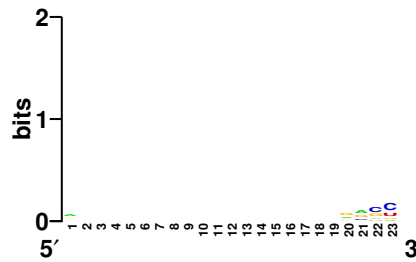
21-mers:



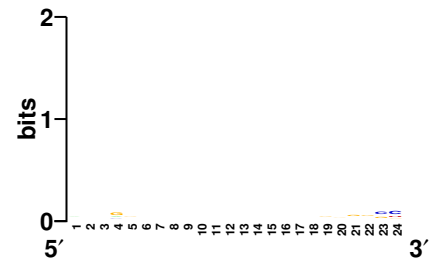
22-mers:



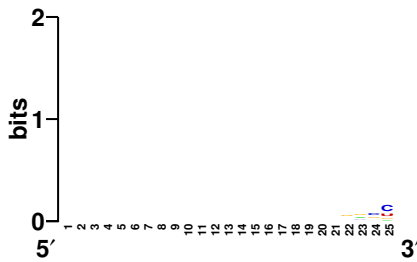
23-mers:



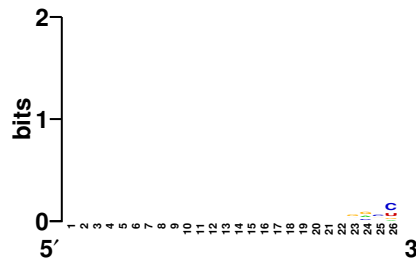
24-mers:



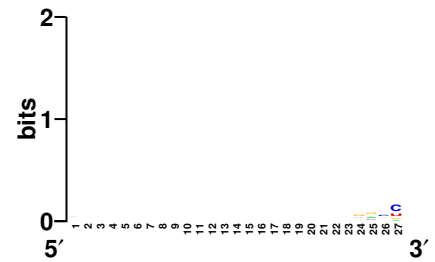
25-mers:



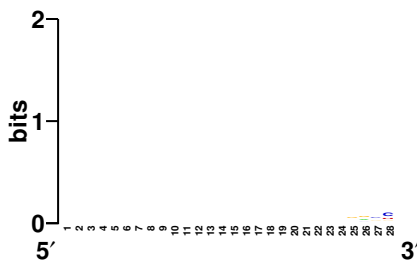
26-mers:



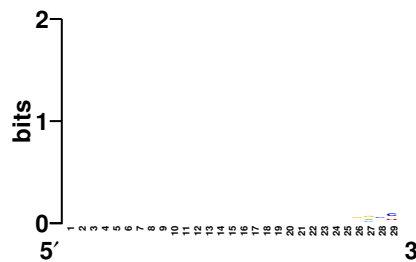
27-mers:



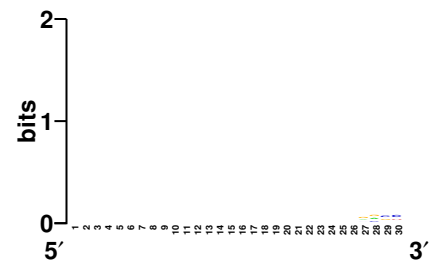
28-mers:



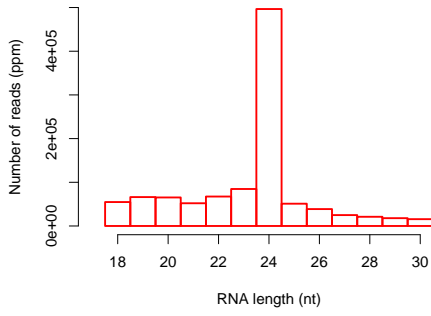
29-mers:



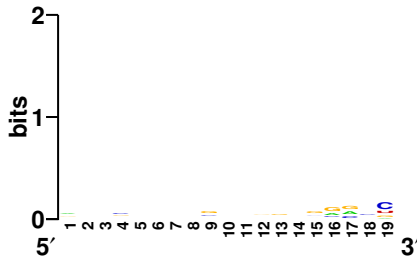
30-mers:



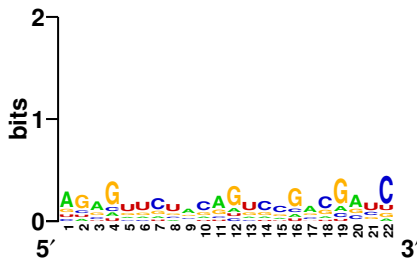
Adult male, library 3:



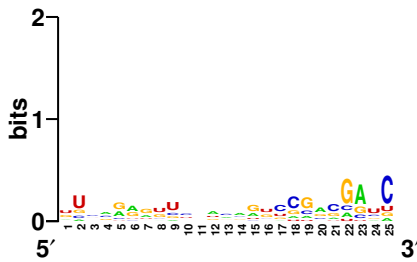
19-mers:



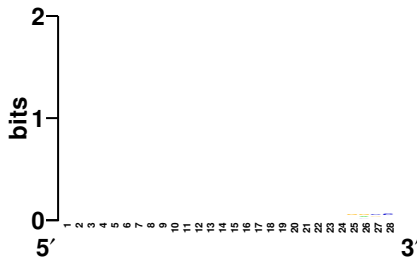
22-mers:



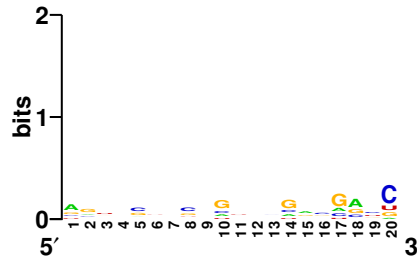
25-mers:



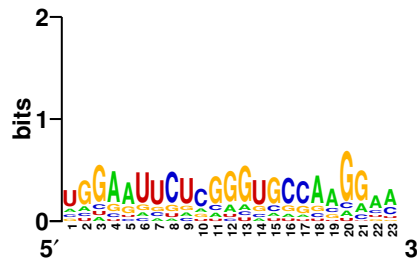
28-mers:



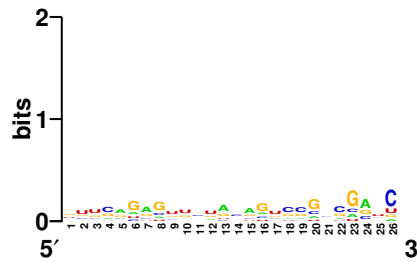
20-mers:



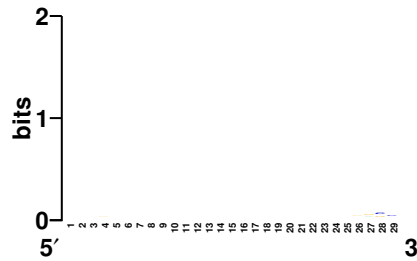
23-mers:



26-mers:



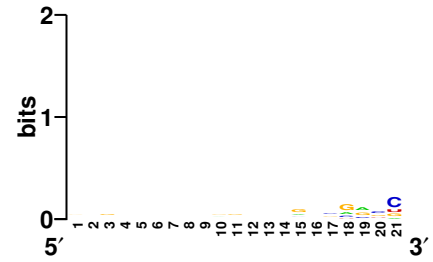
29-mers:



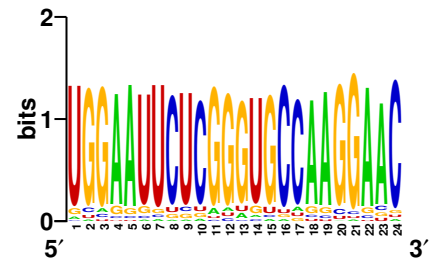
18-mers:



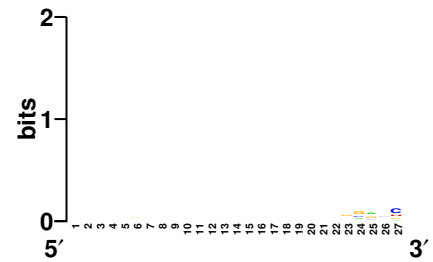
21-mers:



24-mers:



27-mers:

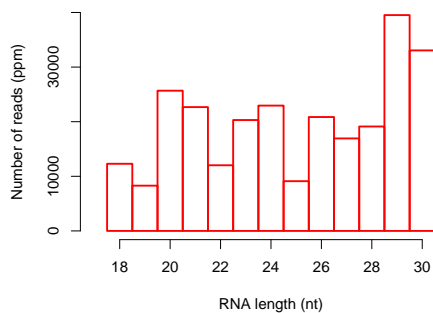


30-mers:

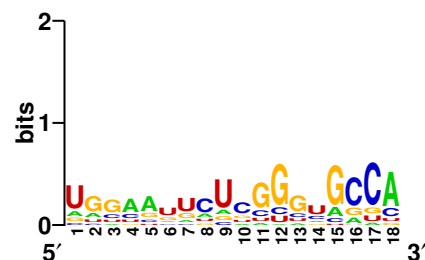


## 5.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

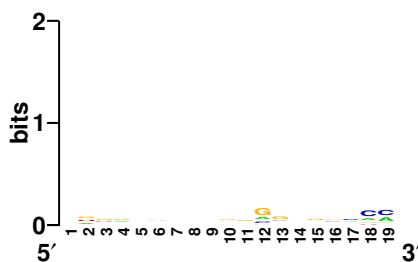
Embryo 8h, library 4:



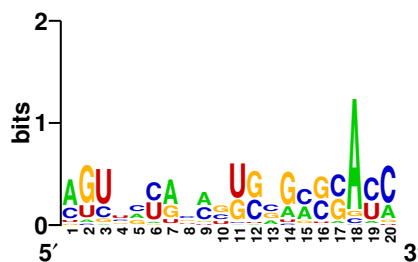
18-mers:



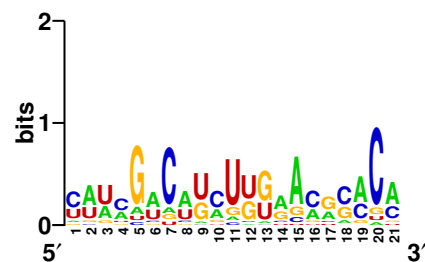
19-mers:



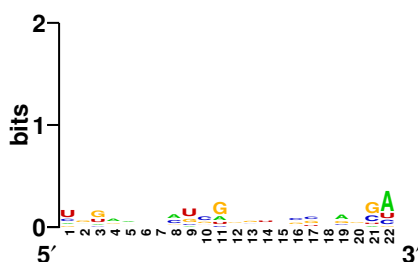
20-mers:



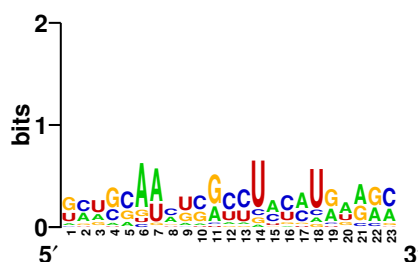
21-mers:



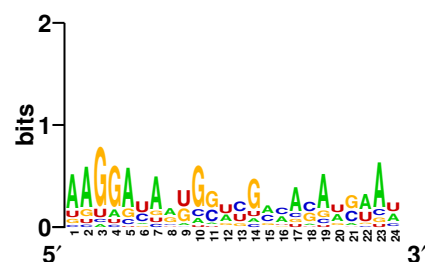
22-mers:



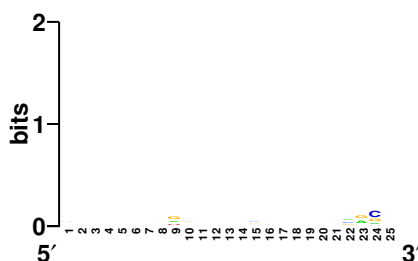
23-mers:



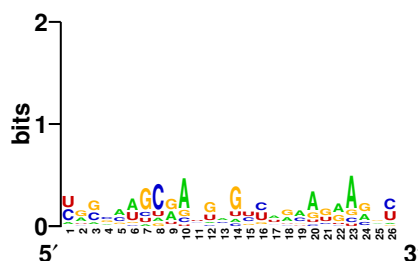
24-mers:



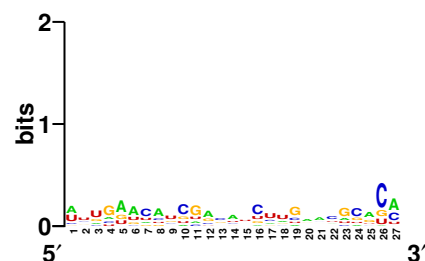
25-mers:



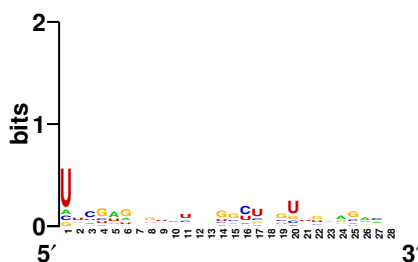
26-mers:



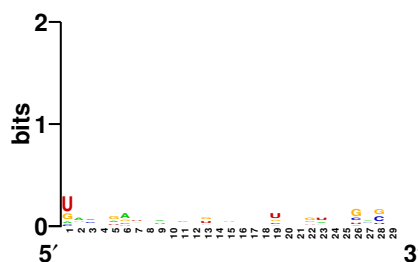
27-mers:



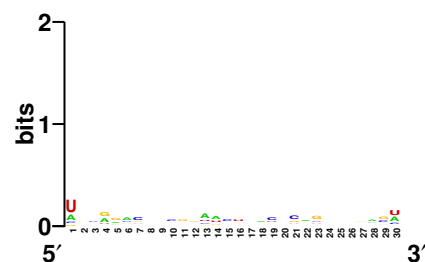
28-mers:



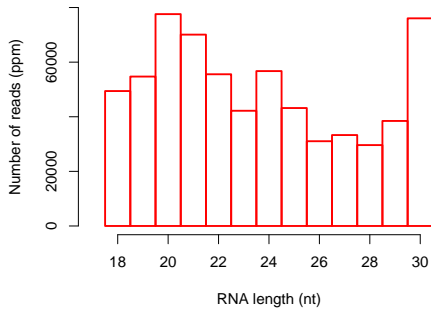
29-mers:



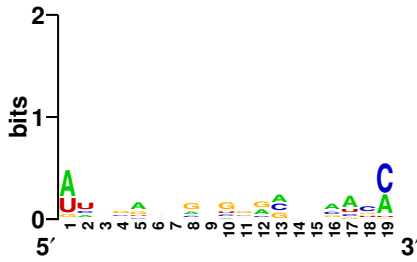
30-mers:



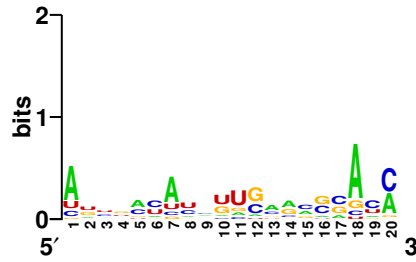
Embryo 15h, library 4:



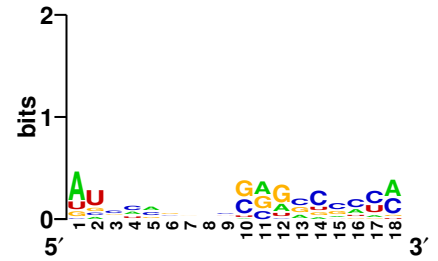
19-mers:



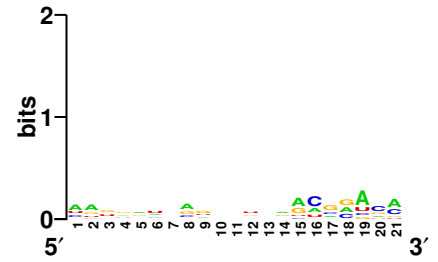
20-mers:



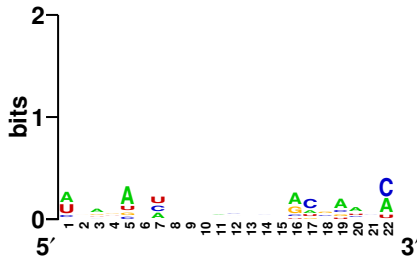
18-mers:



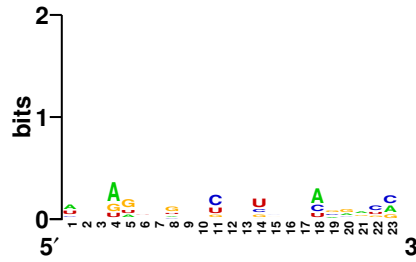
21-mers:



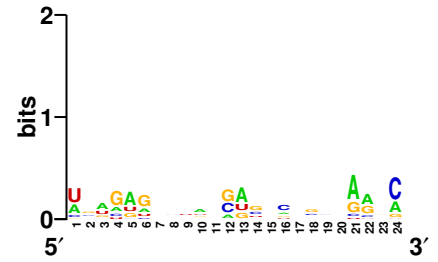
22-mers:



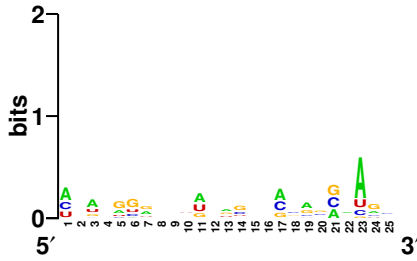
23-mers:



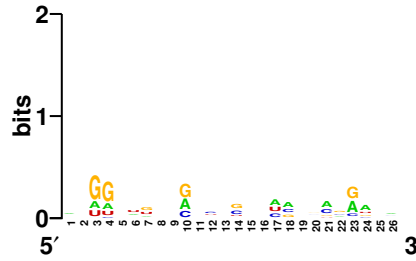
24-mers:



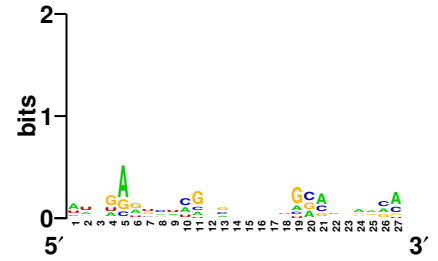
25-mers:



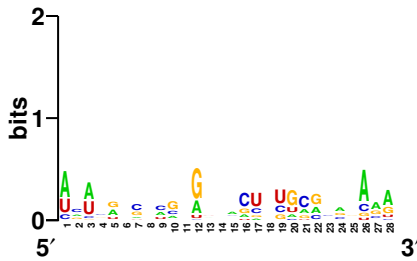
26-mers:



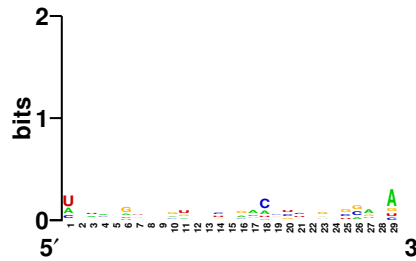
27-mers:



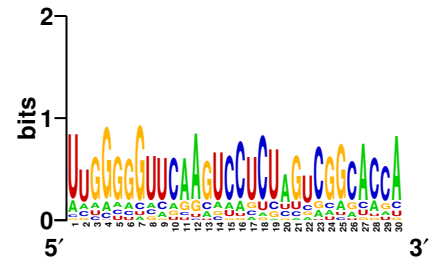
28-mers:



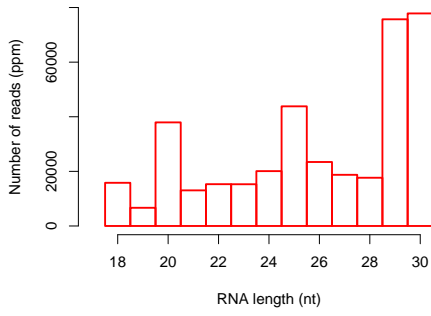
29-mers:



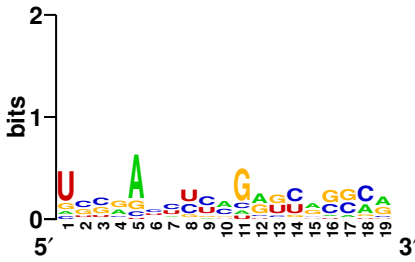
30-mers:



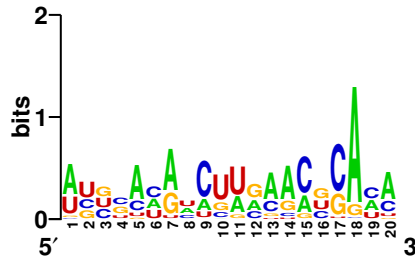
Embryo 36h, library 4:



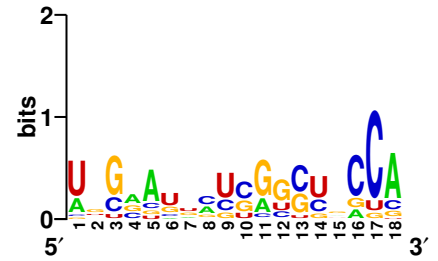
19-mers:



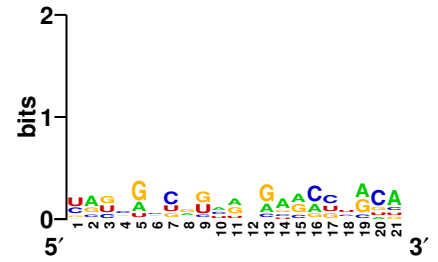
20-mers:



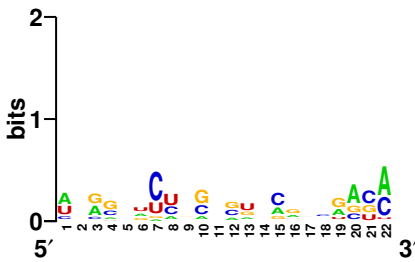
18-mers:



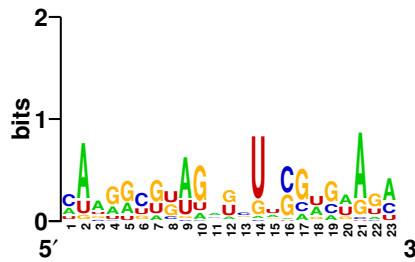
21-mers:



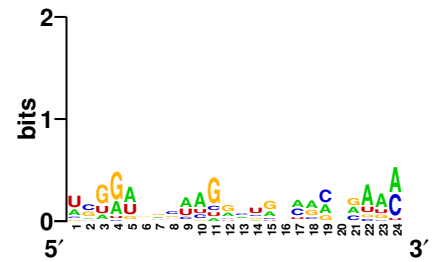
22-mers:



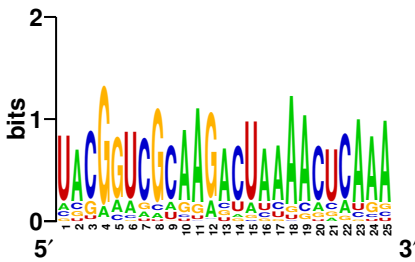
23-mers:



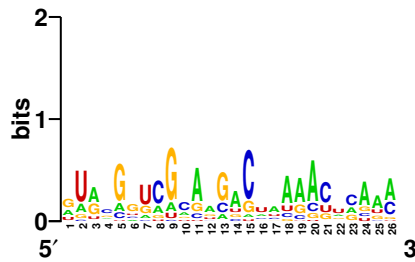
24-mers:



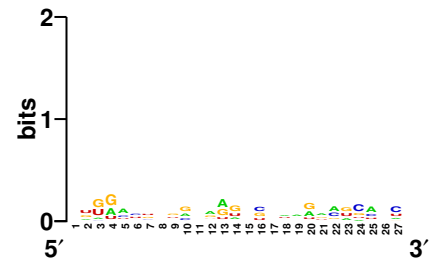
25-mers:



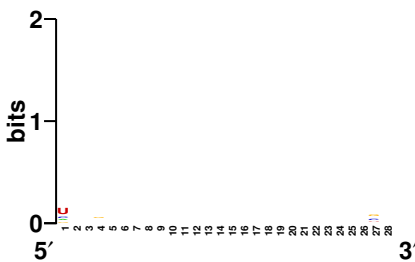
26-mers:



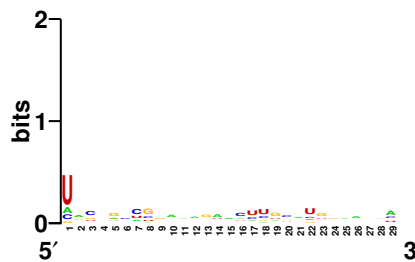
27-mers:



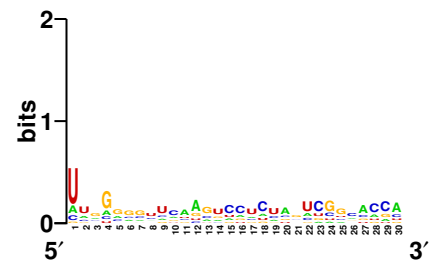
28-mers:



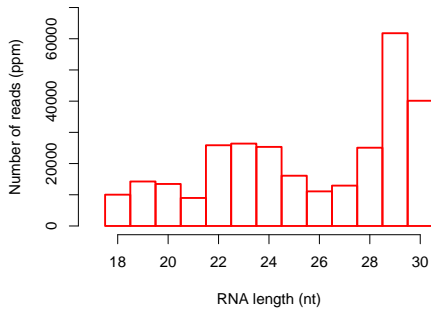
29-mers:



30-mers:



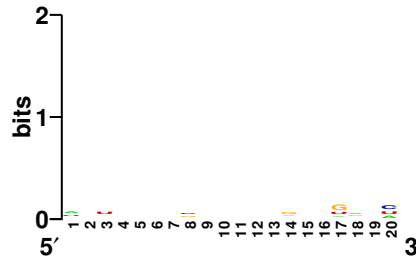
Embryo 60h, library 4:



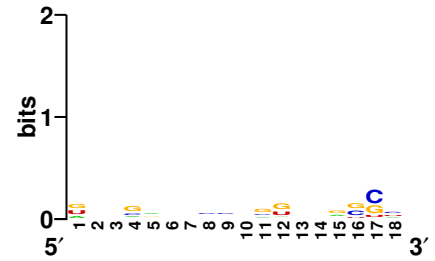
19-mers:



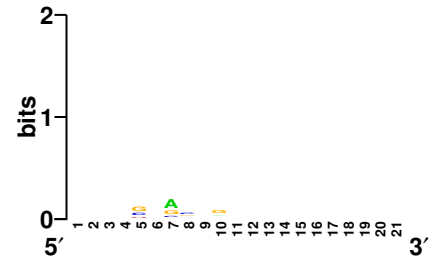
20-mers:



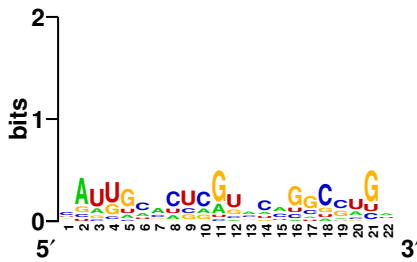
18-mers:



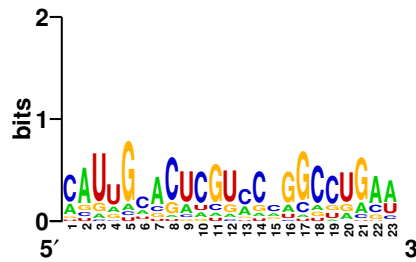
21-mers:



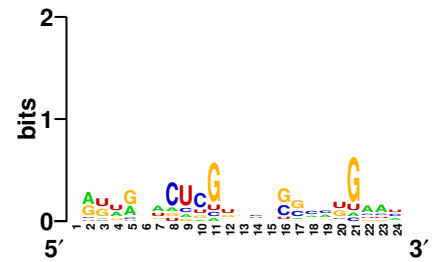
22-mers:



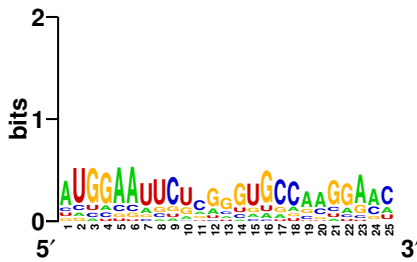
23-mers:



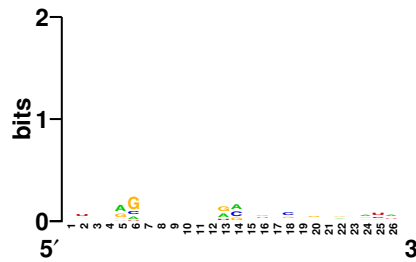
24-mers:



25-mers:



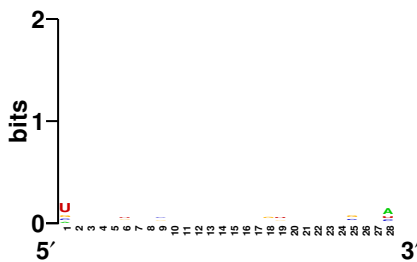
26-mers:



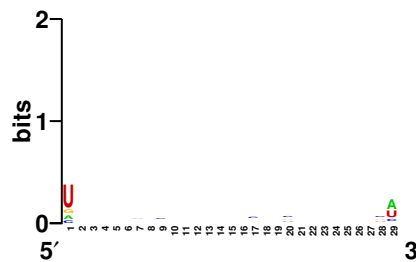
27-mers:



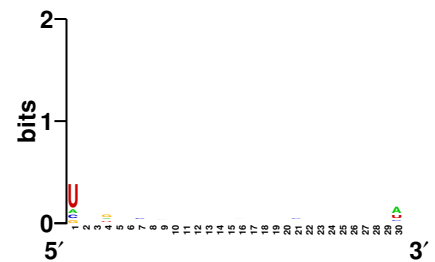
28-mers:



29-mers:

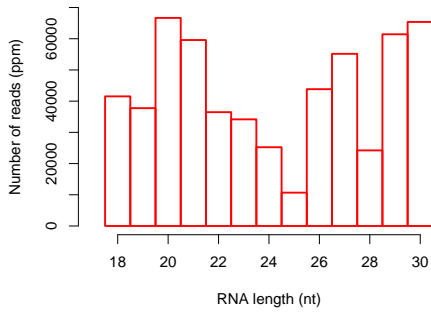


30-mers:





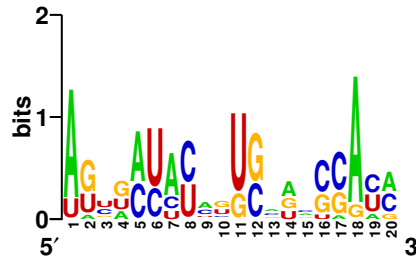
Adult female, library 4:



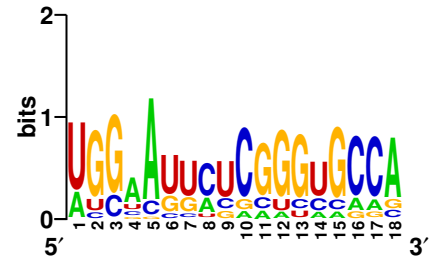
19-mers:



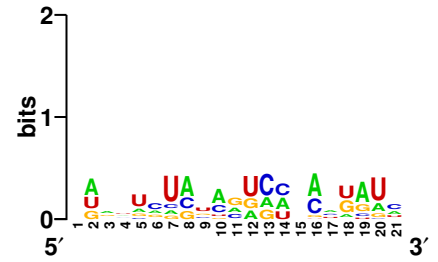
20-mers:



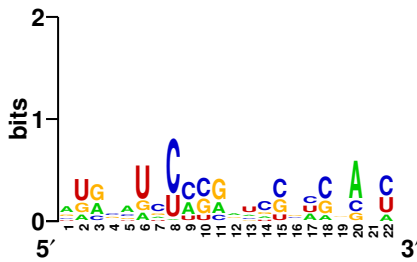
18-mers:



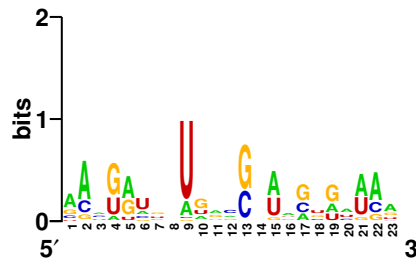
21-mers:



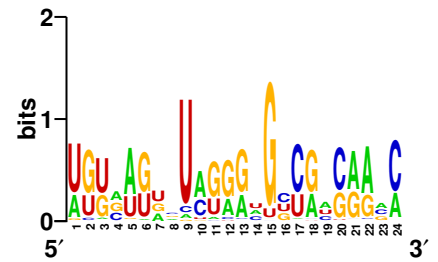
22-mers:



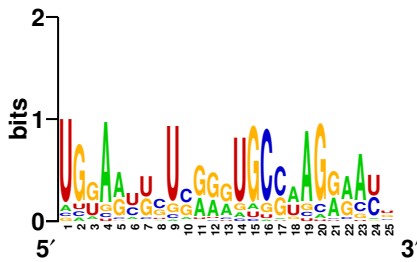
23-mers:



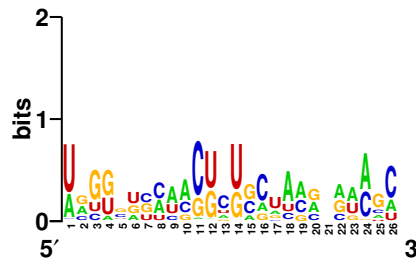
24-mers:



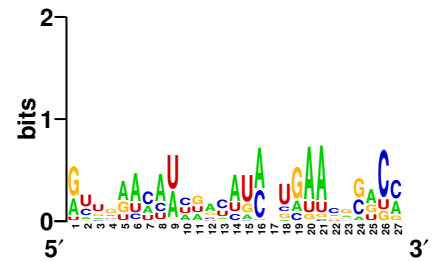
25-mers:



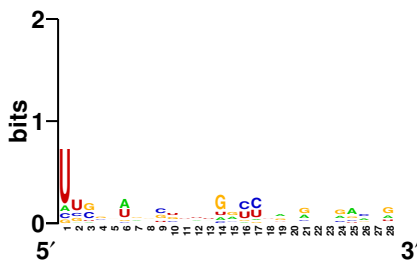
26-mers:



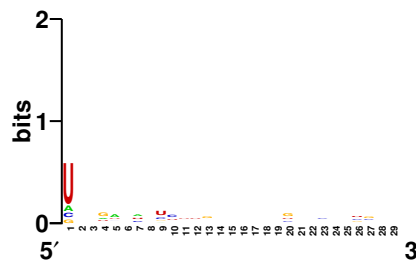
27-mers:



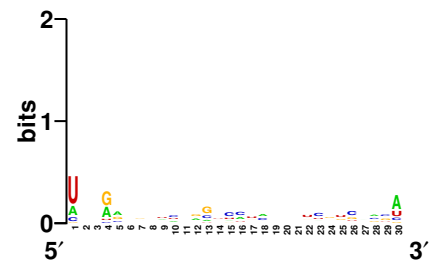
28-mers:



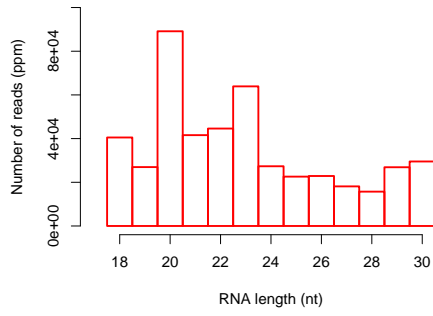
29-mers:



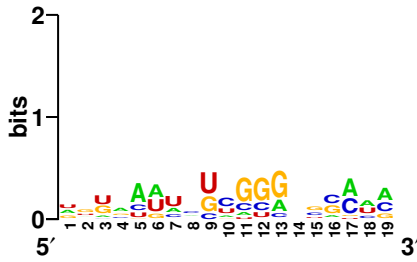
30-mers:



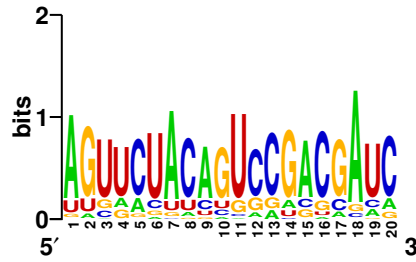
Adult male, library 4:



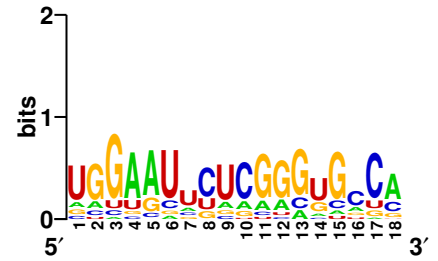
19-mers:



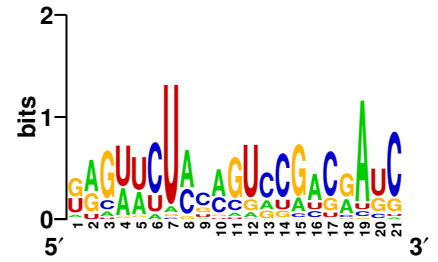
20-mers:



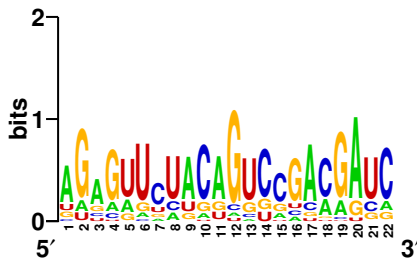
18-mers:



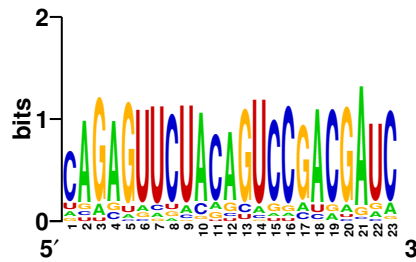
21-mers:



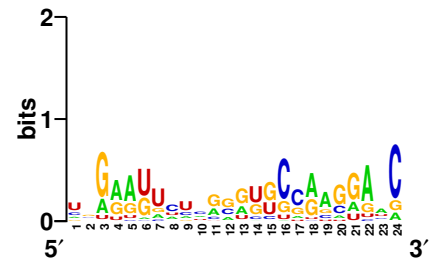
22-mers:



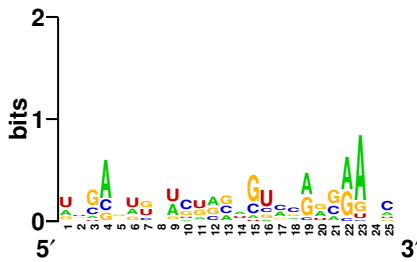
23-mers:



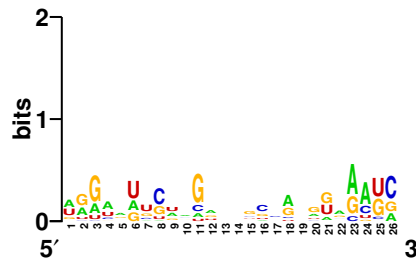
24-mers:



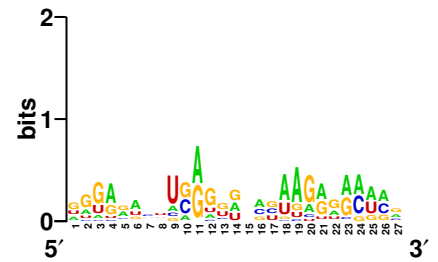
25-mers:



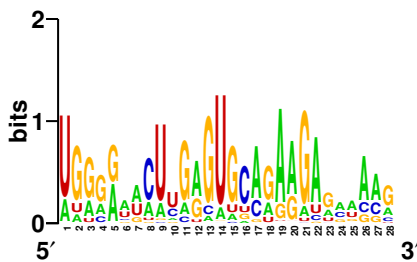
26-mers:



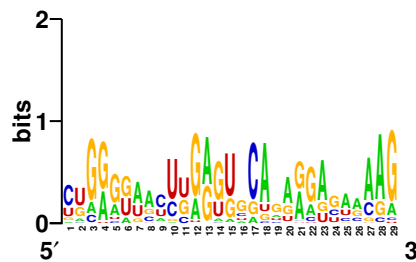
27-mers:



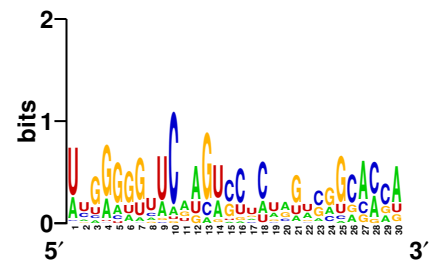
28-mers:



29-mers:



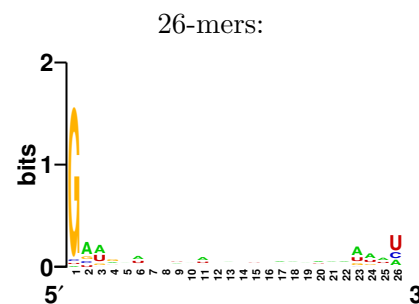
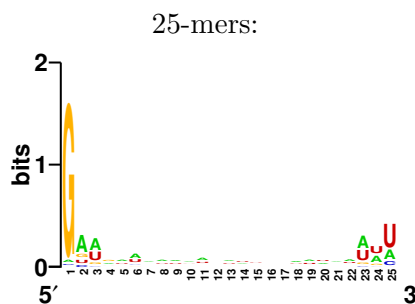
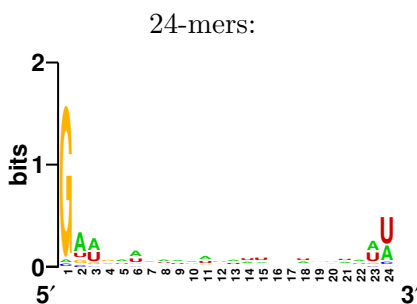
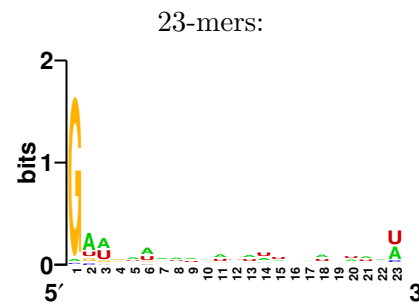
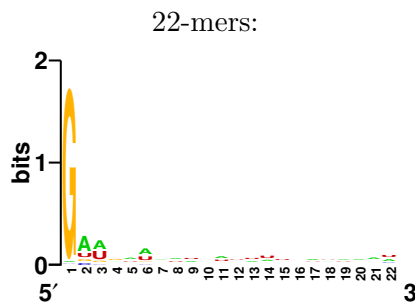
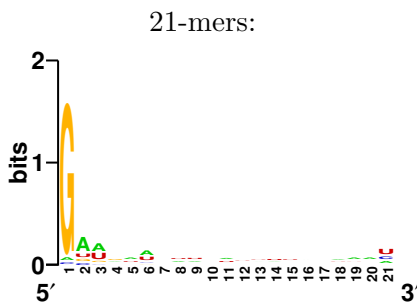
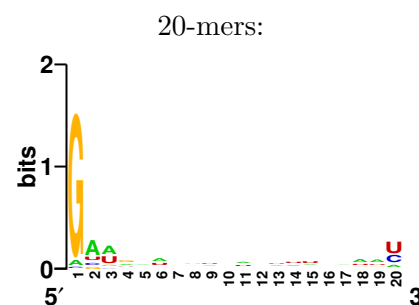
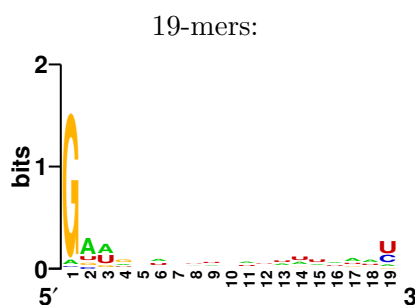
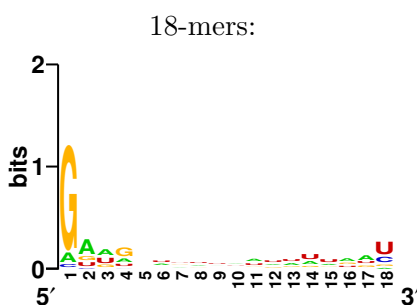
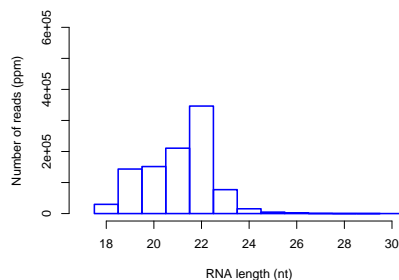
30-mers:



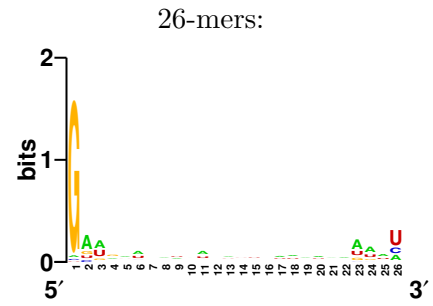
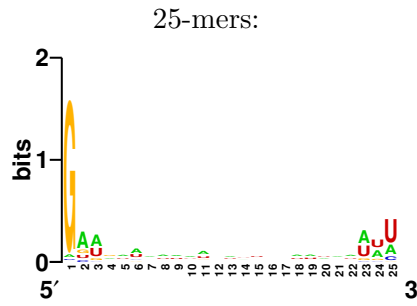
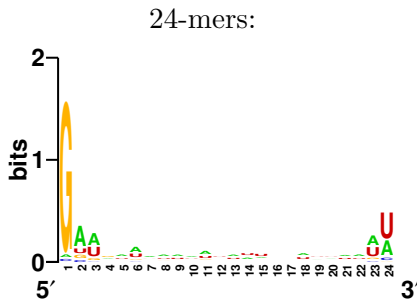
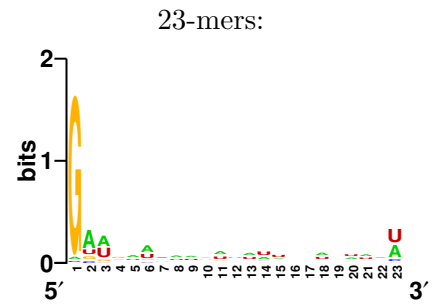
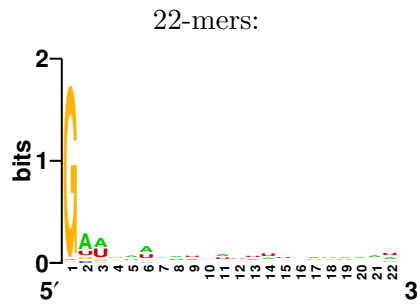
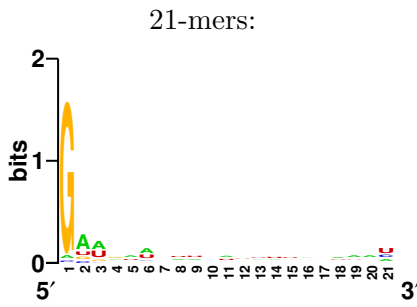
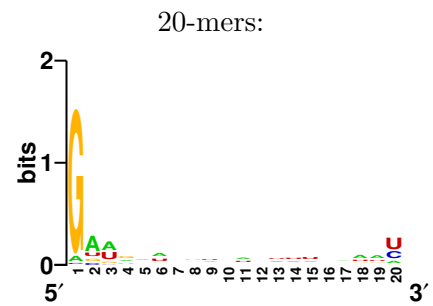
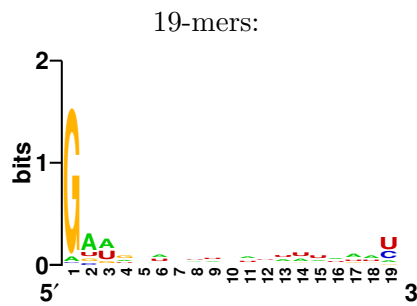
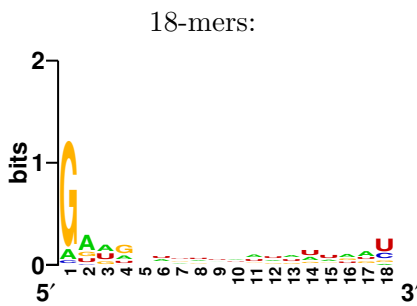
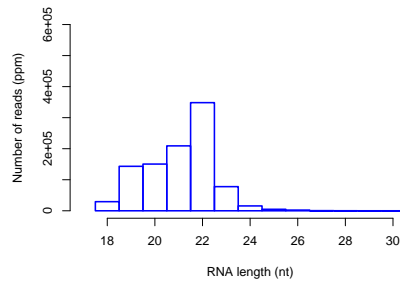
## 6 Analysis of *Cænorhabditis elegans* data [Gu et al., 2009] with the same method

### 6.1 Genomic reads not matching abundant ncRNAs

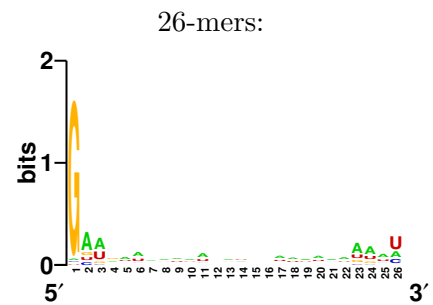
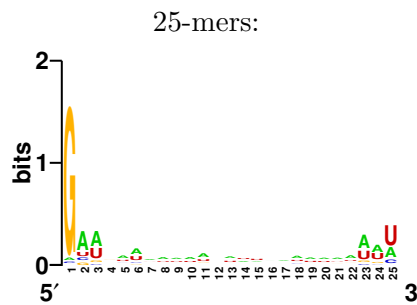
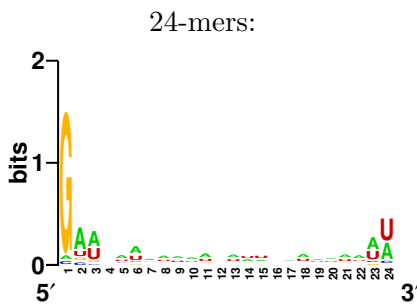
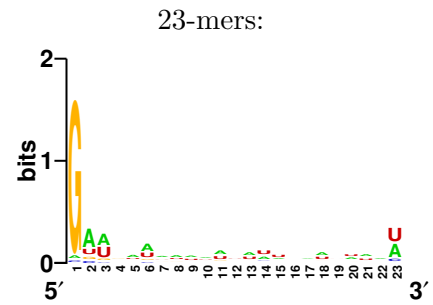
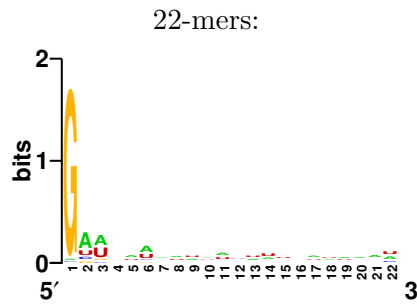
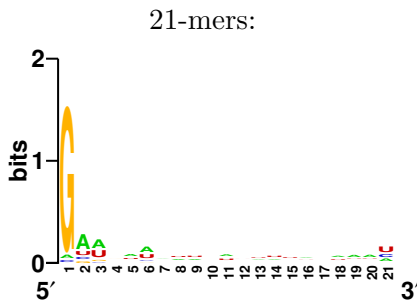
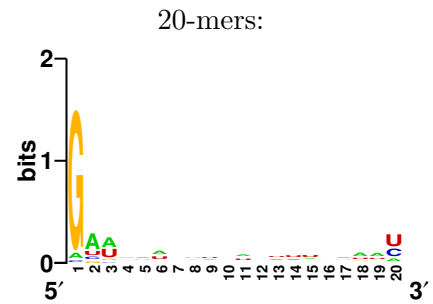
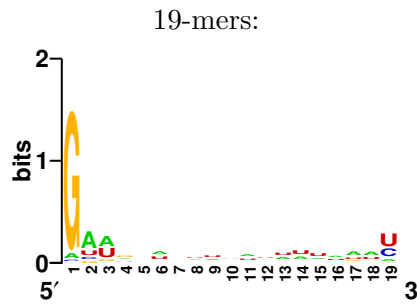
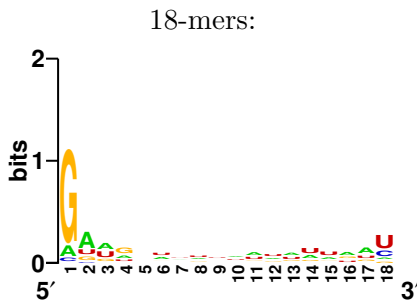
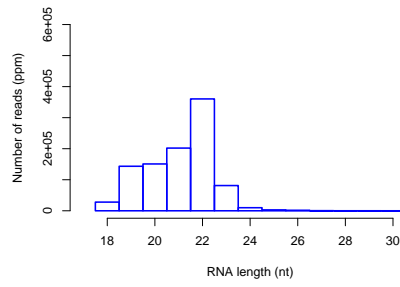
Library GSM455391 (18-26-mers, any number of 5' phosphates, replicate 1):



Library GSM455392 (18-26-mers, any number of 5' phosphates, replicate 2):

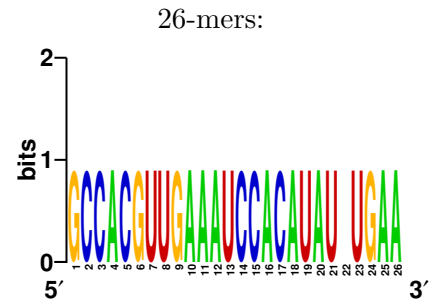
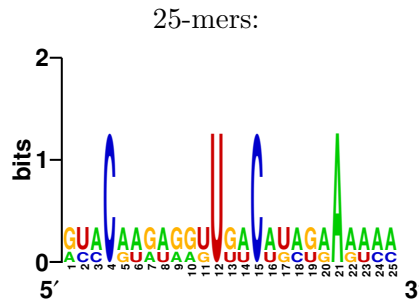
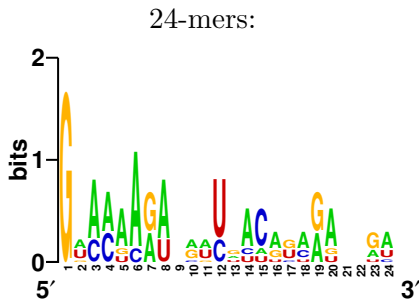
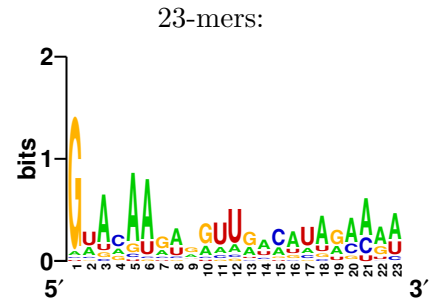
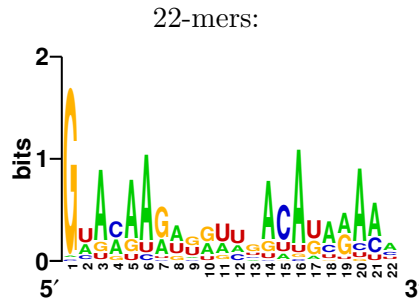
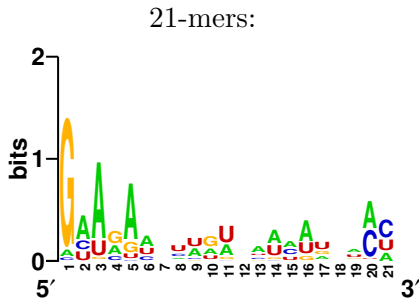
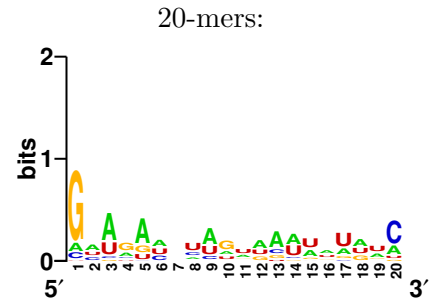
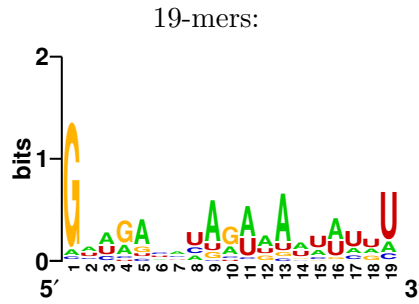
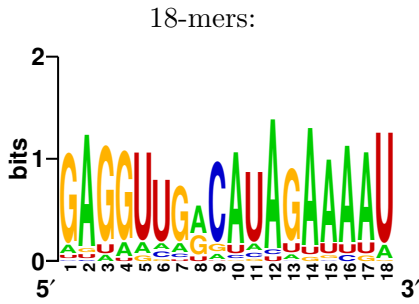


Library GSM455393 (18-26-mers, any number of 5' phosphates, replicate 3):

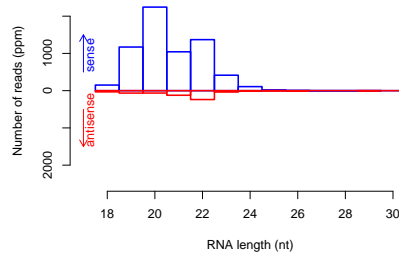




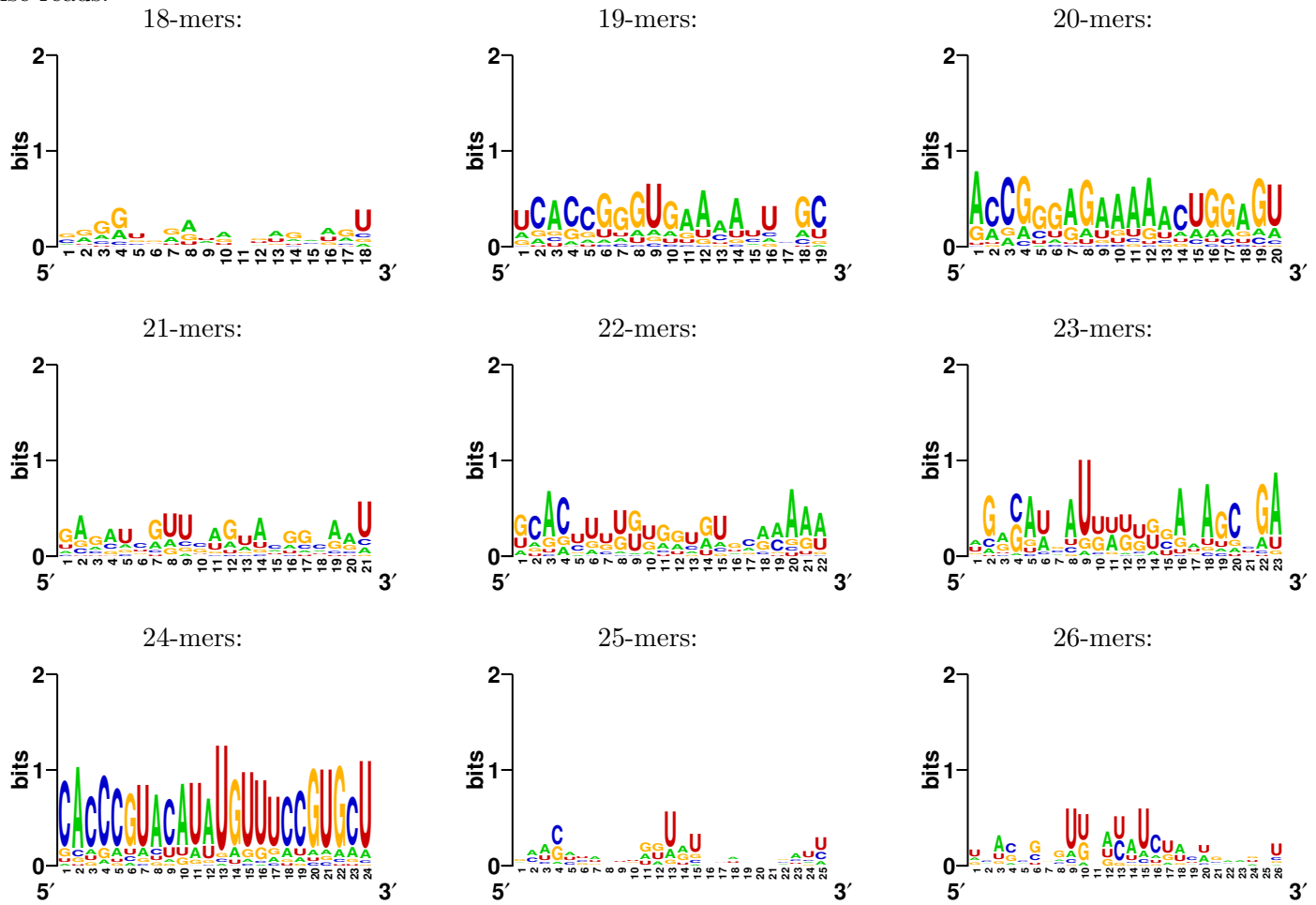
Antisense reads:



Library GSM455392 (18-26-mers, any number of 5' phosphates, replicate 2):

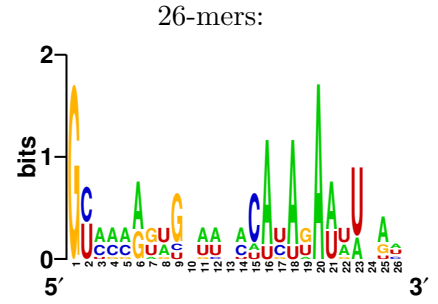
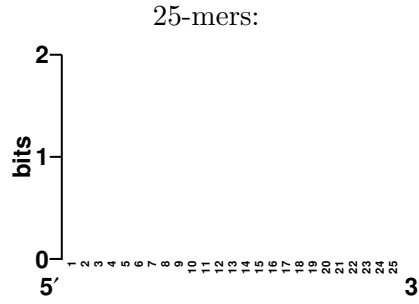
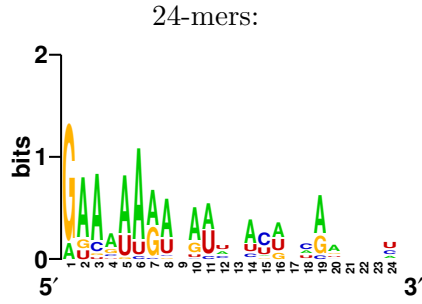
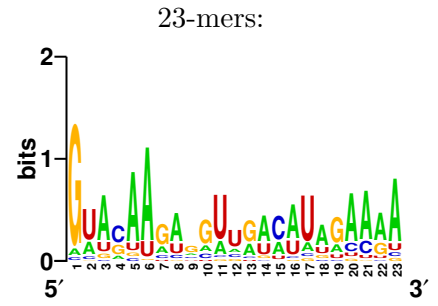
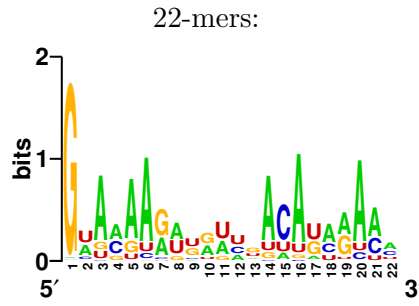
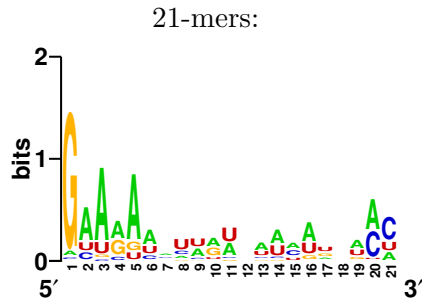
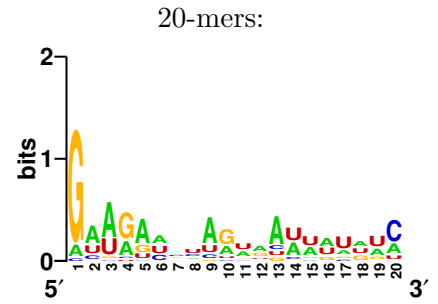
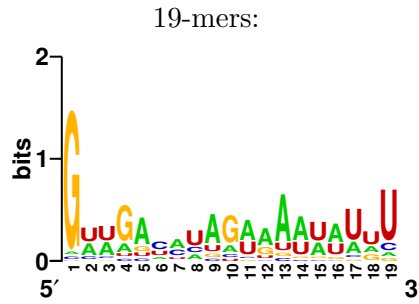
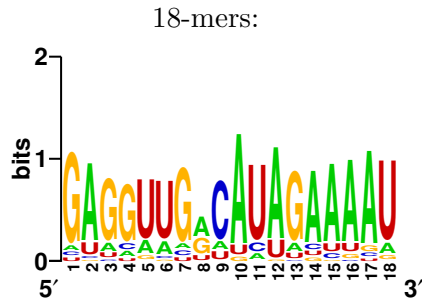


Sense reads:

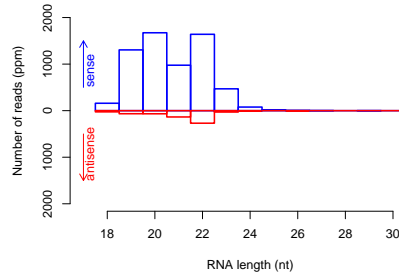




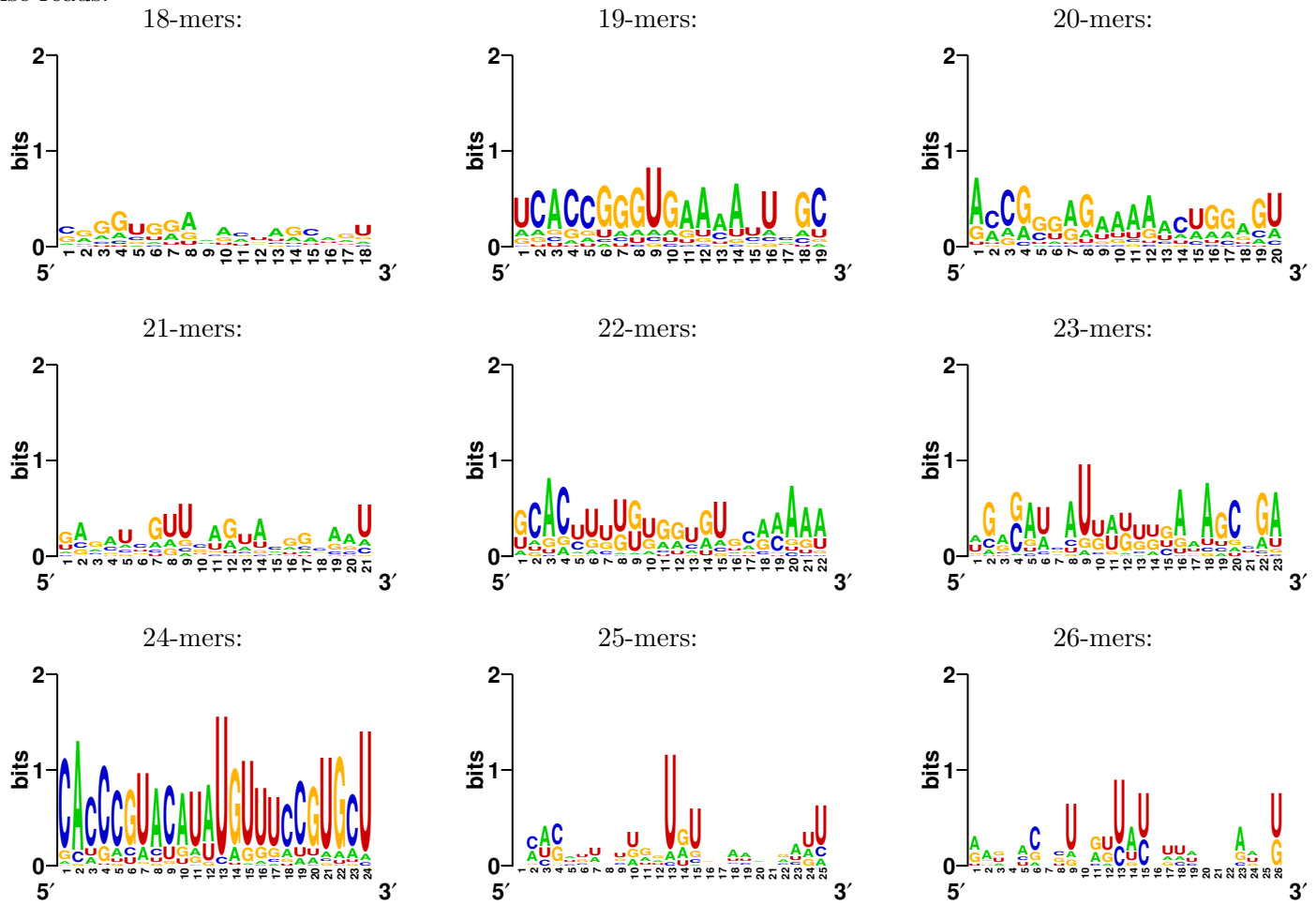
Antisense reads:



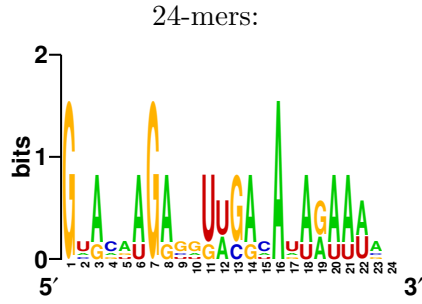
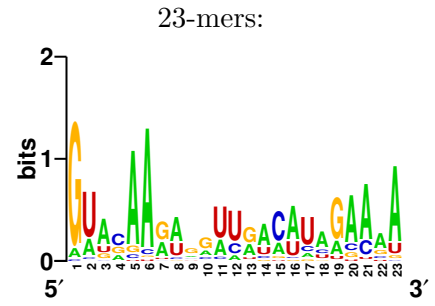
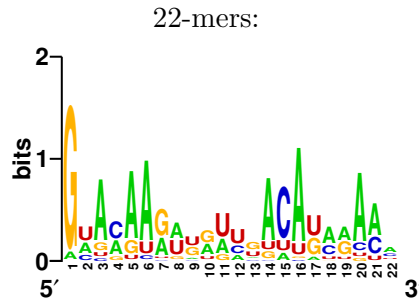
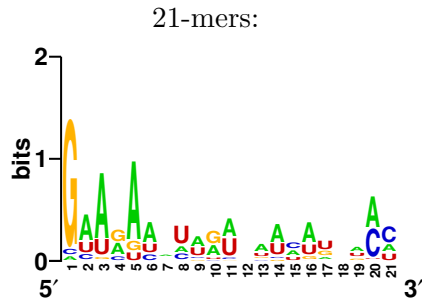
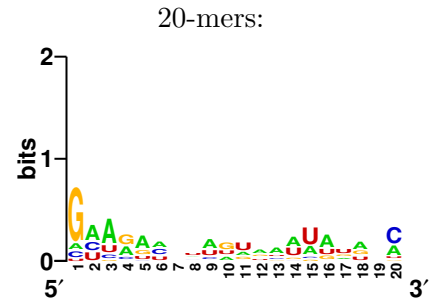
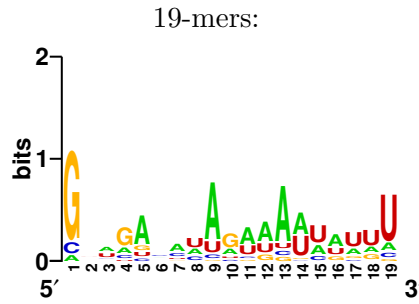
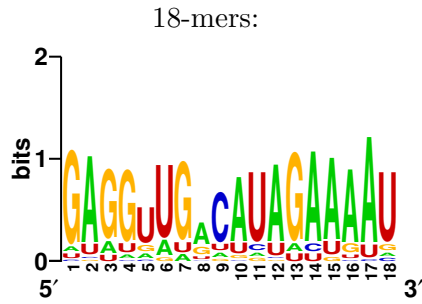
Library GSM455393 (18-26-mers, any number of 5' phosphates, replicate 3):



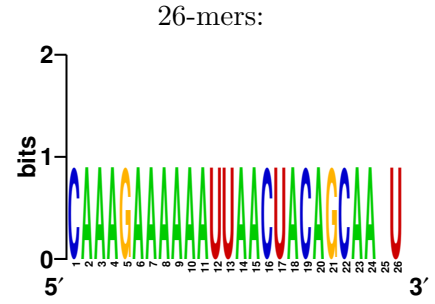
Sense reads:



Antisense reads:

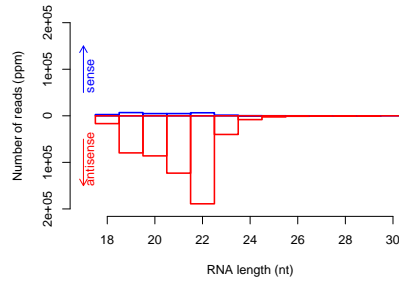


(no read)



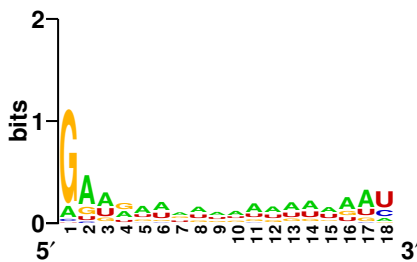
### 6.3 Transcriptome-matching reads (excluding pre-miRNA and abundant ncRNA-matching reads)

Library GSM455391 (18-26-mers, any number of 5' phosphates, replicate 1):

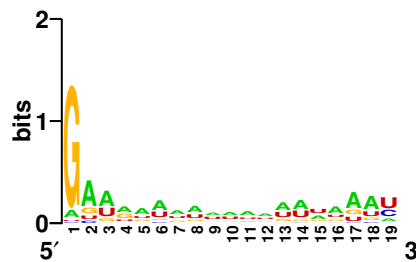


Sense reads:

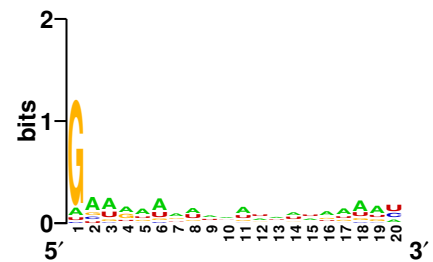
18-mers:



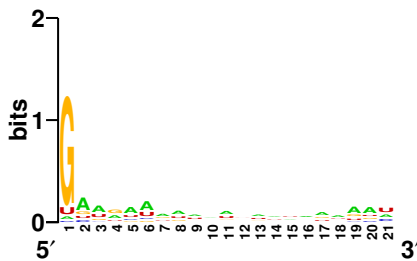
19-mers:



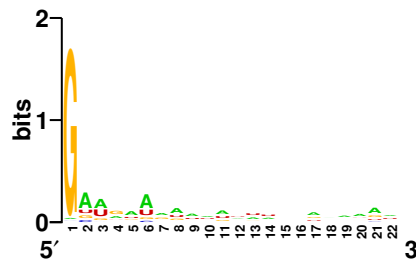
20-mers:



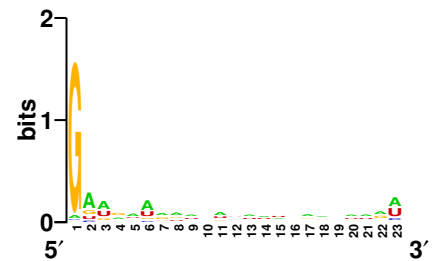
21-mers:



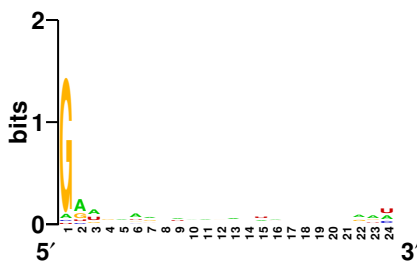
22-mers:



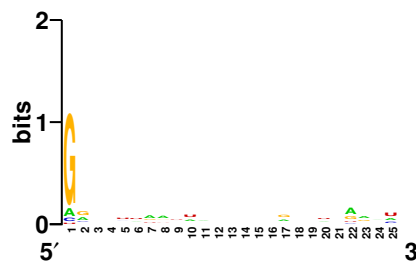
23-mers:



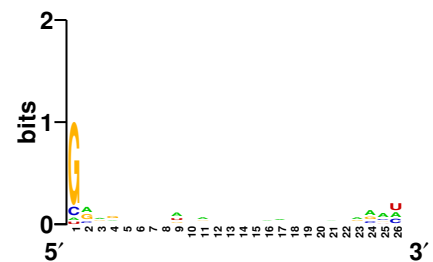
24-mers:



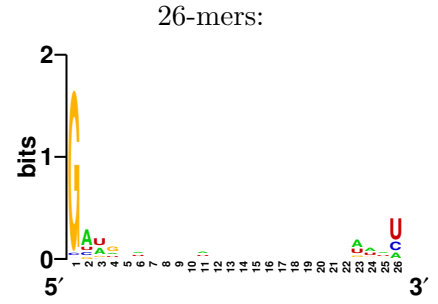
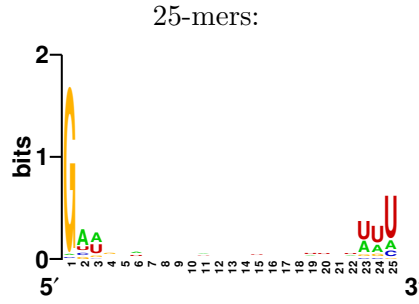
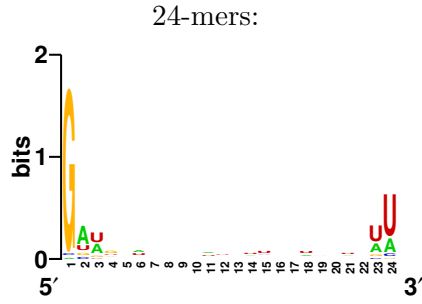
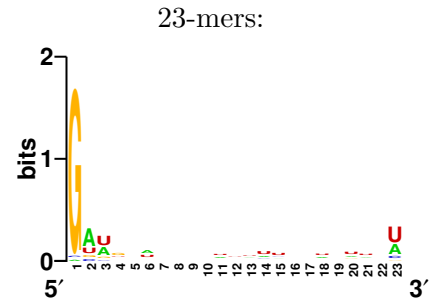
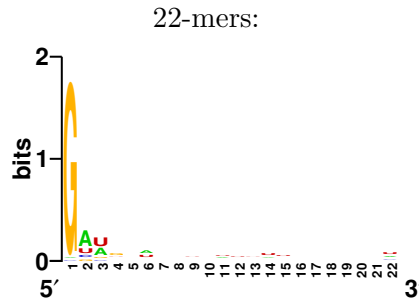
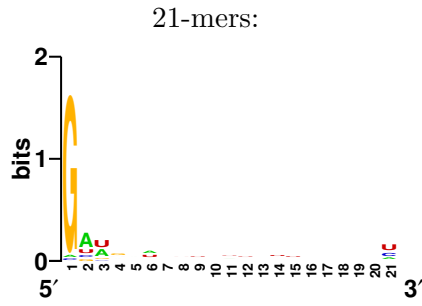
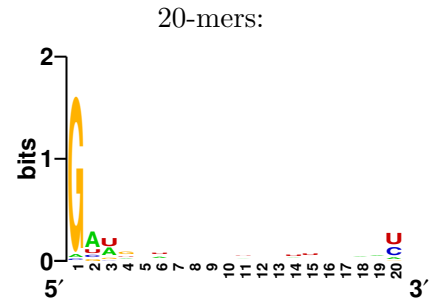
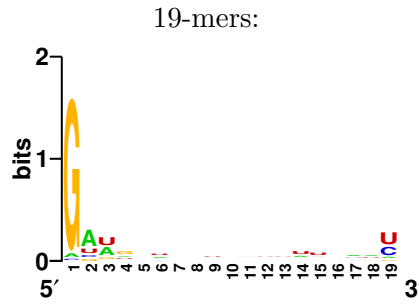
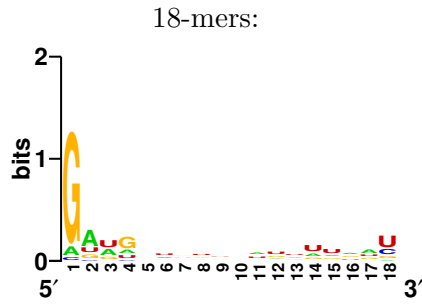
25-mers:



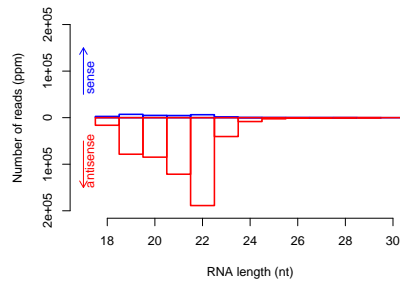
26-mers:



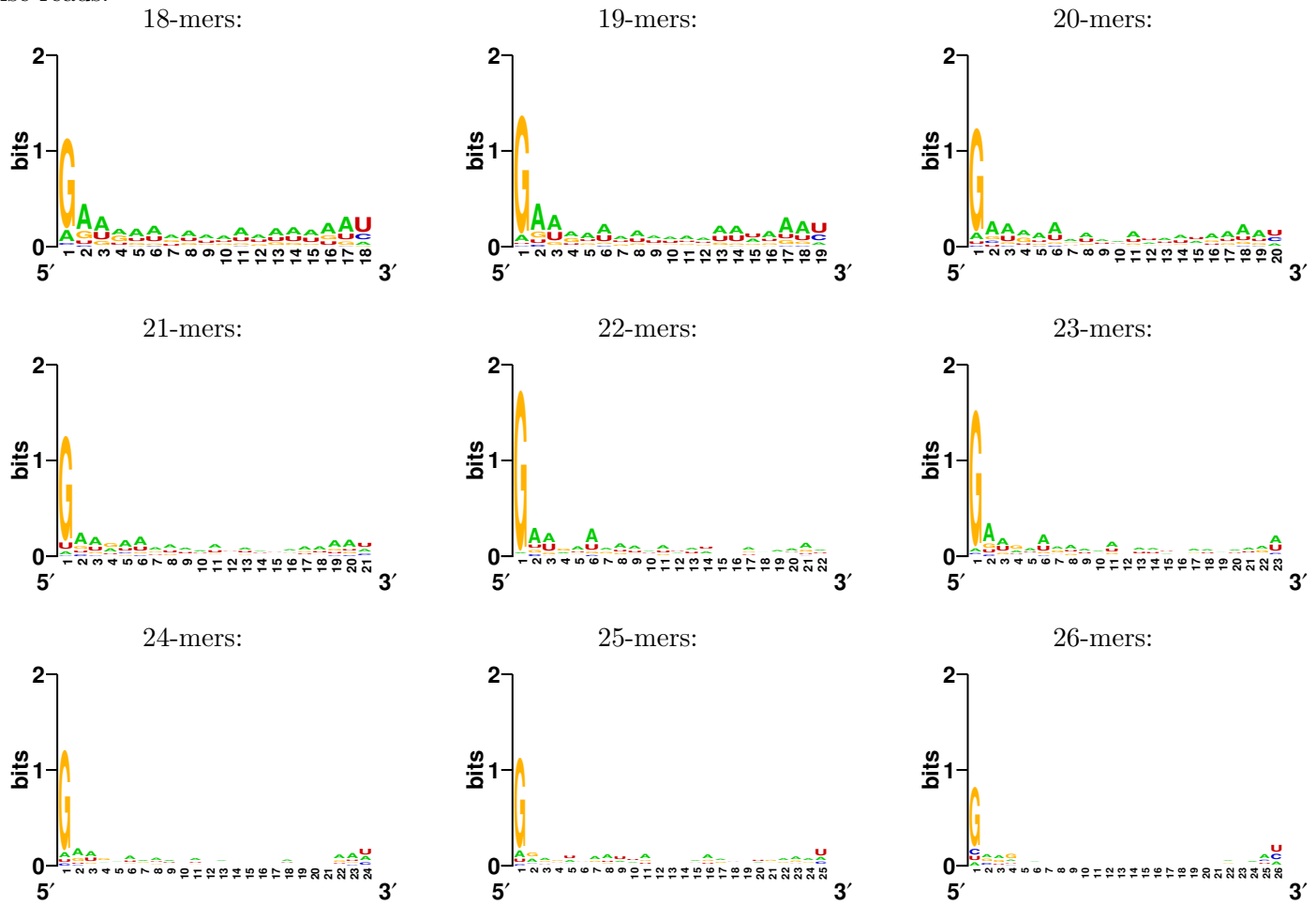
Antisense reads:



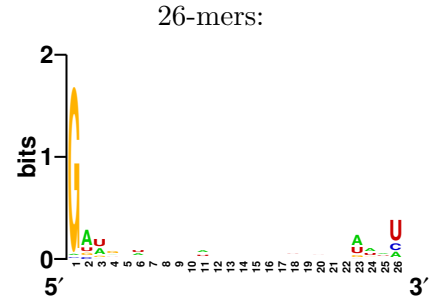
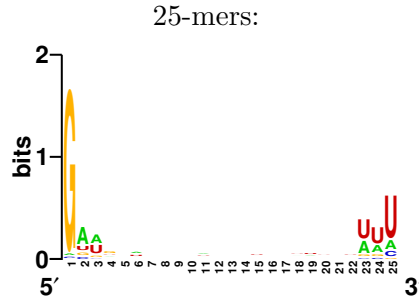
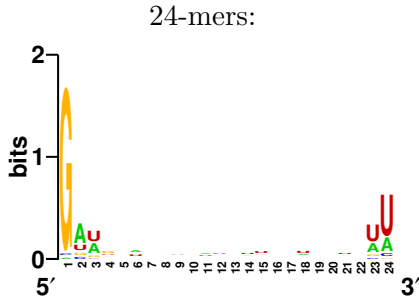
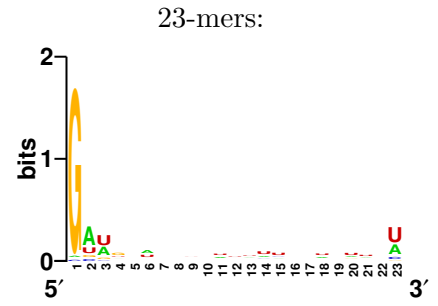
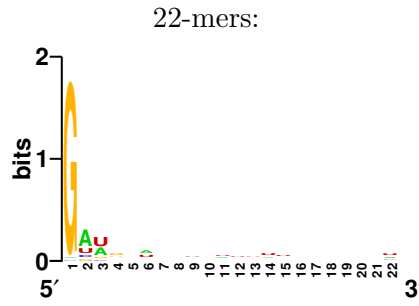
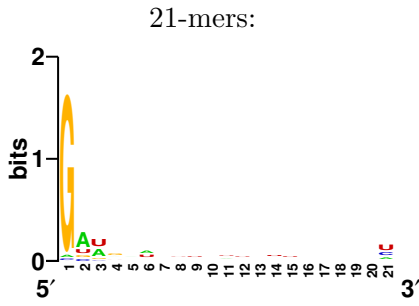
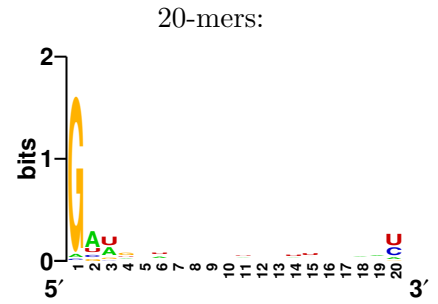
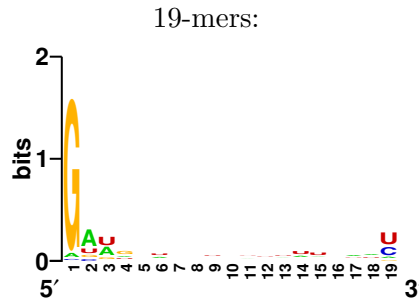
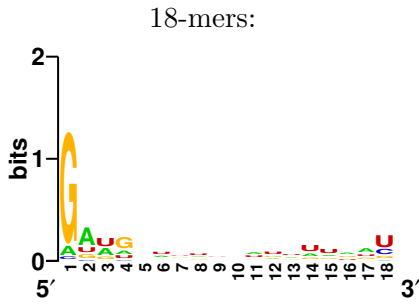
Library GSM455392 (18-26-mers, any number of 5' phosphates, replicate 2):



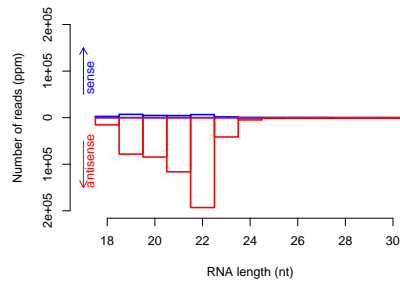
Sense reads:



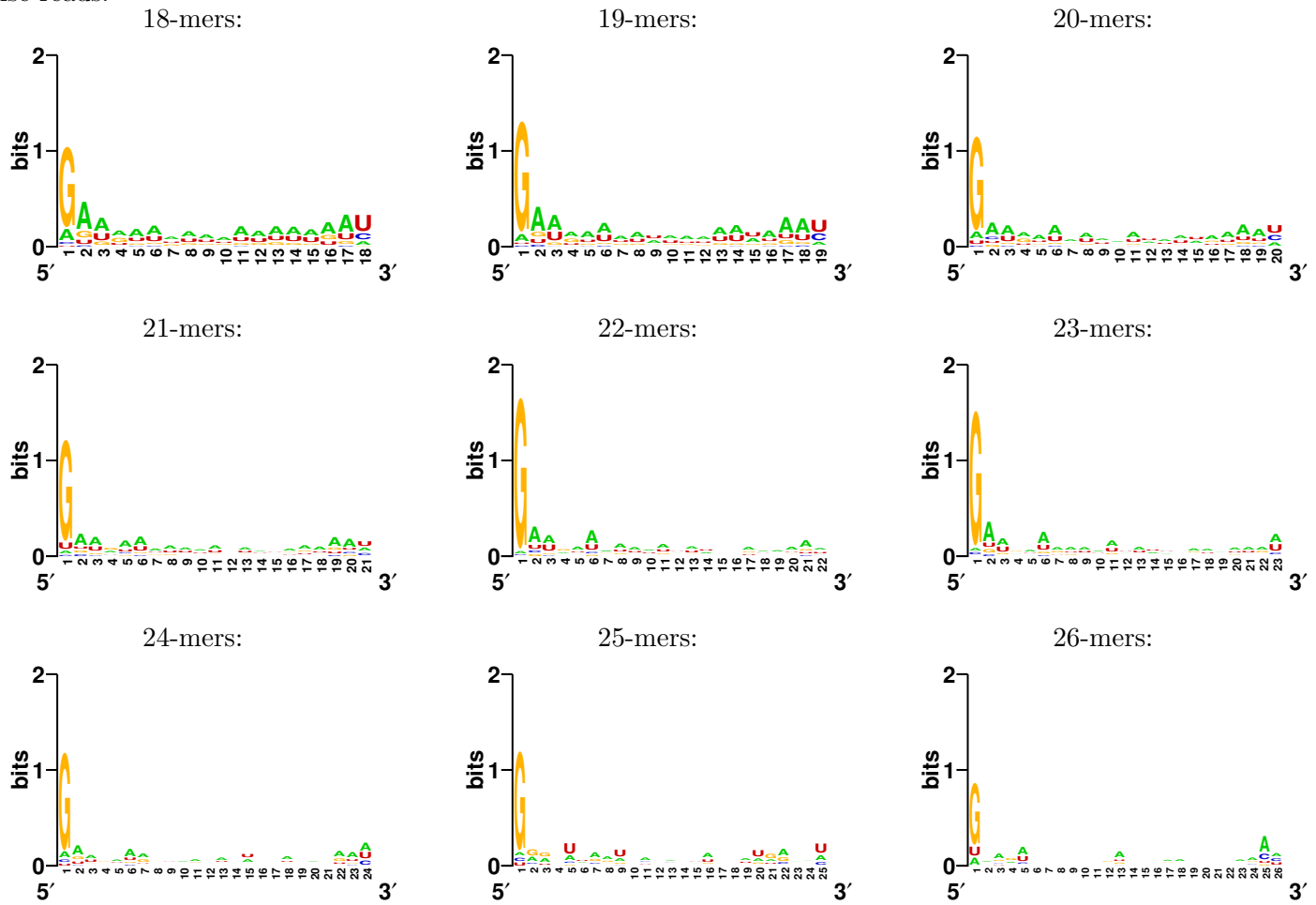
Antisense reads:



Library GSM455393 (18-26-mers, any number of 5' phosphates, replicate 3):

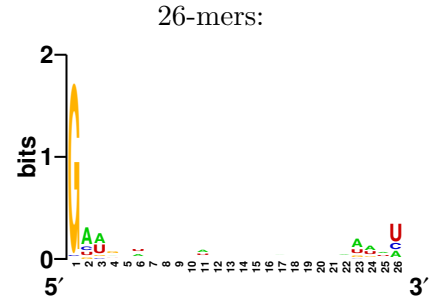
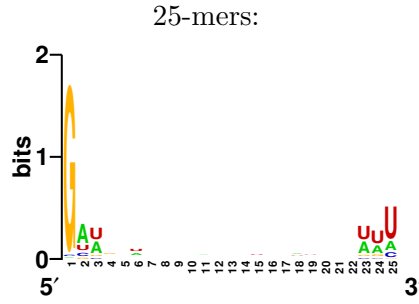
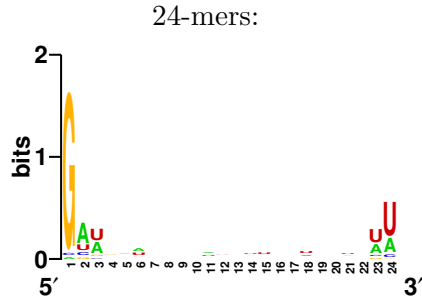
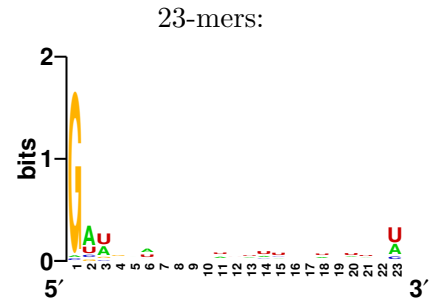
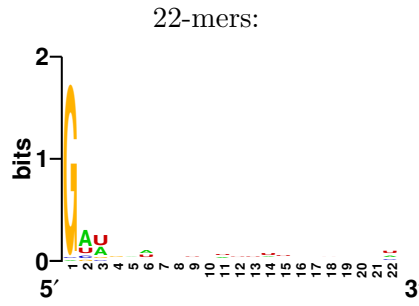
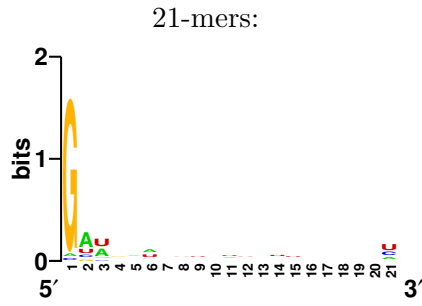
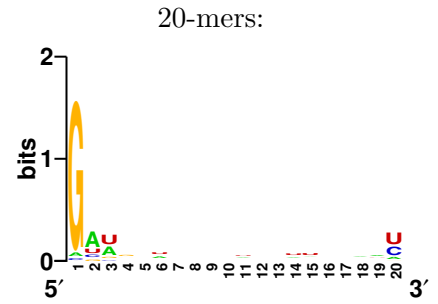
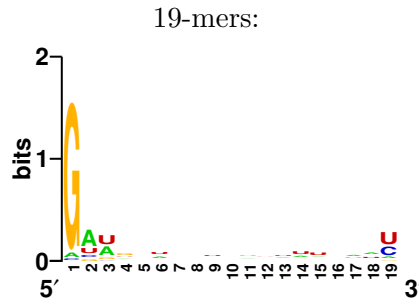
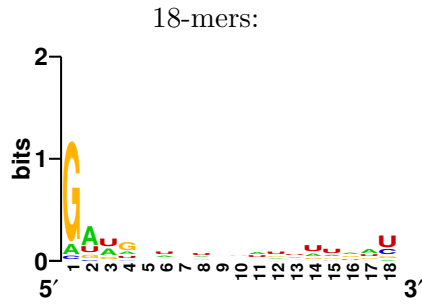


Sense reads:



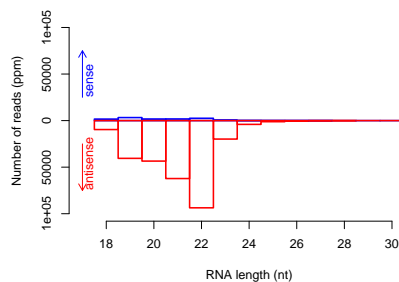


Antisense reads:

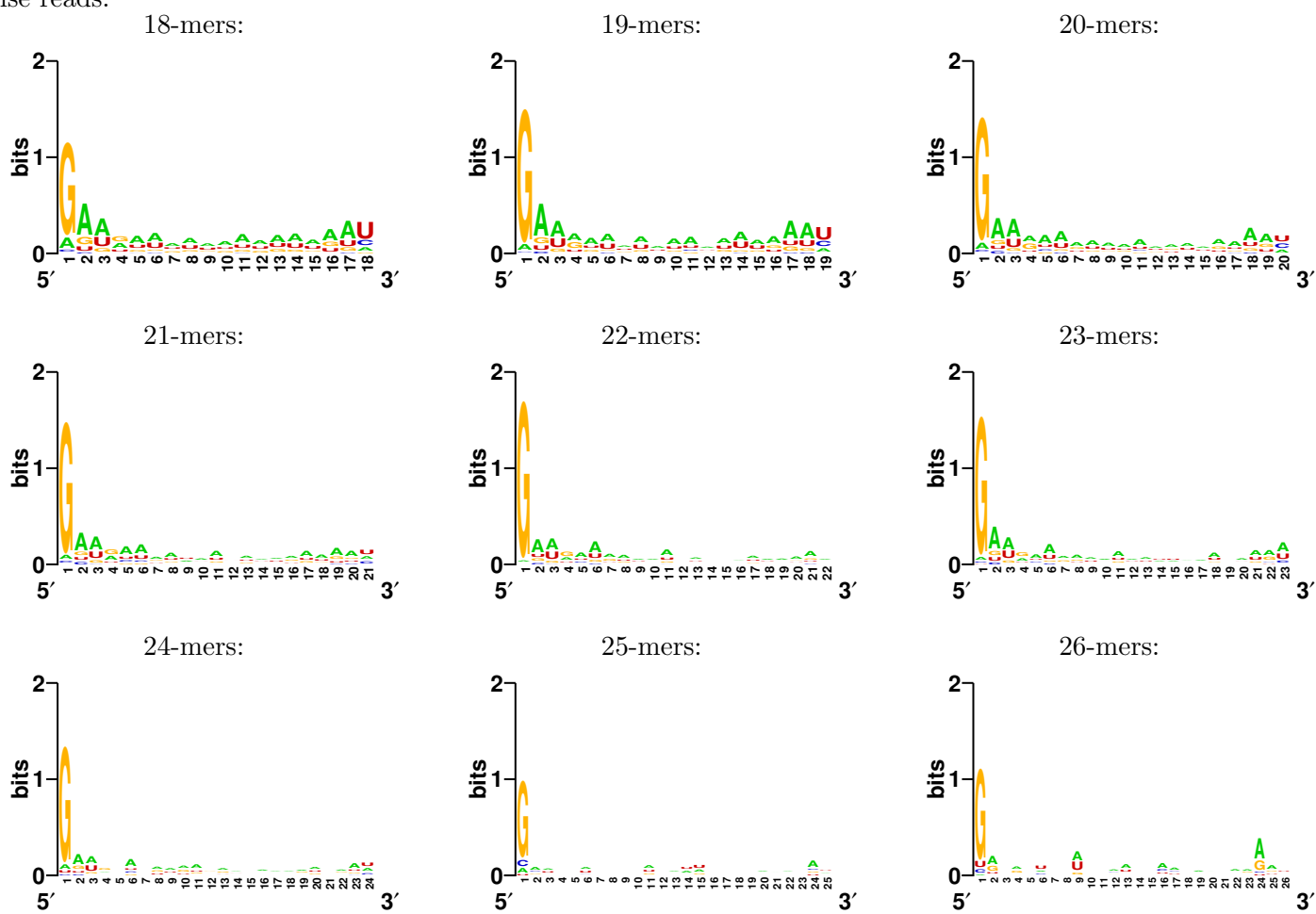


## 6.4 Reads matching RNAs with long ORF's

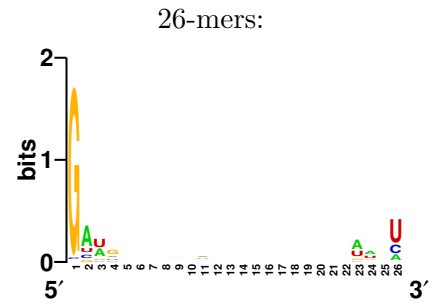
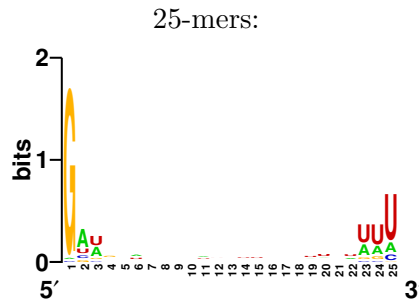
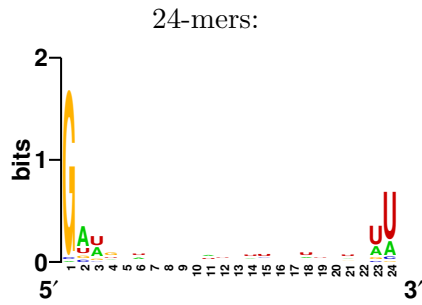
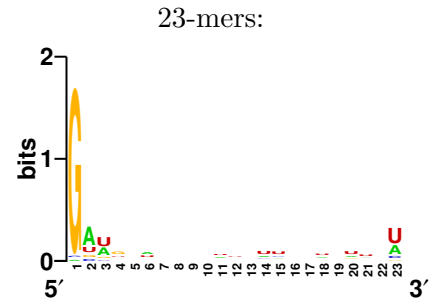
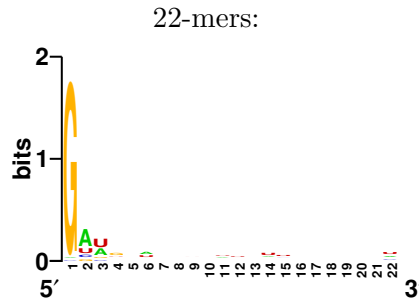
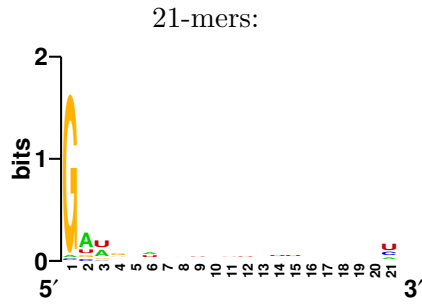
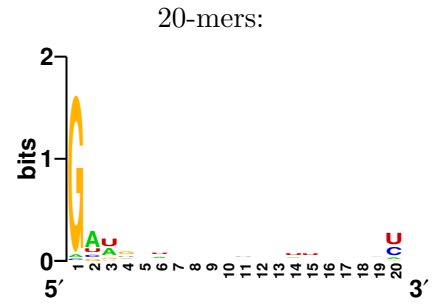
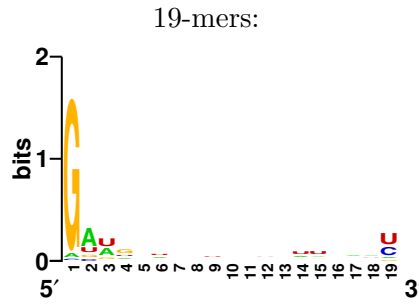
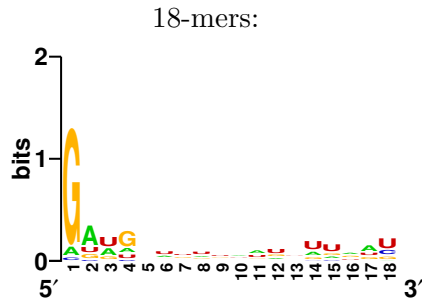
Library GSM455391 (18-26-mers, any number of 5' phosphates, replicate 1):



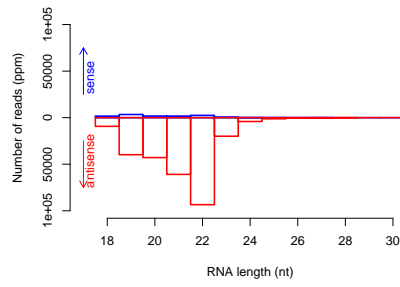
Sense reads:



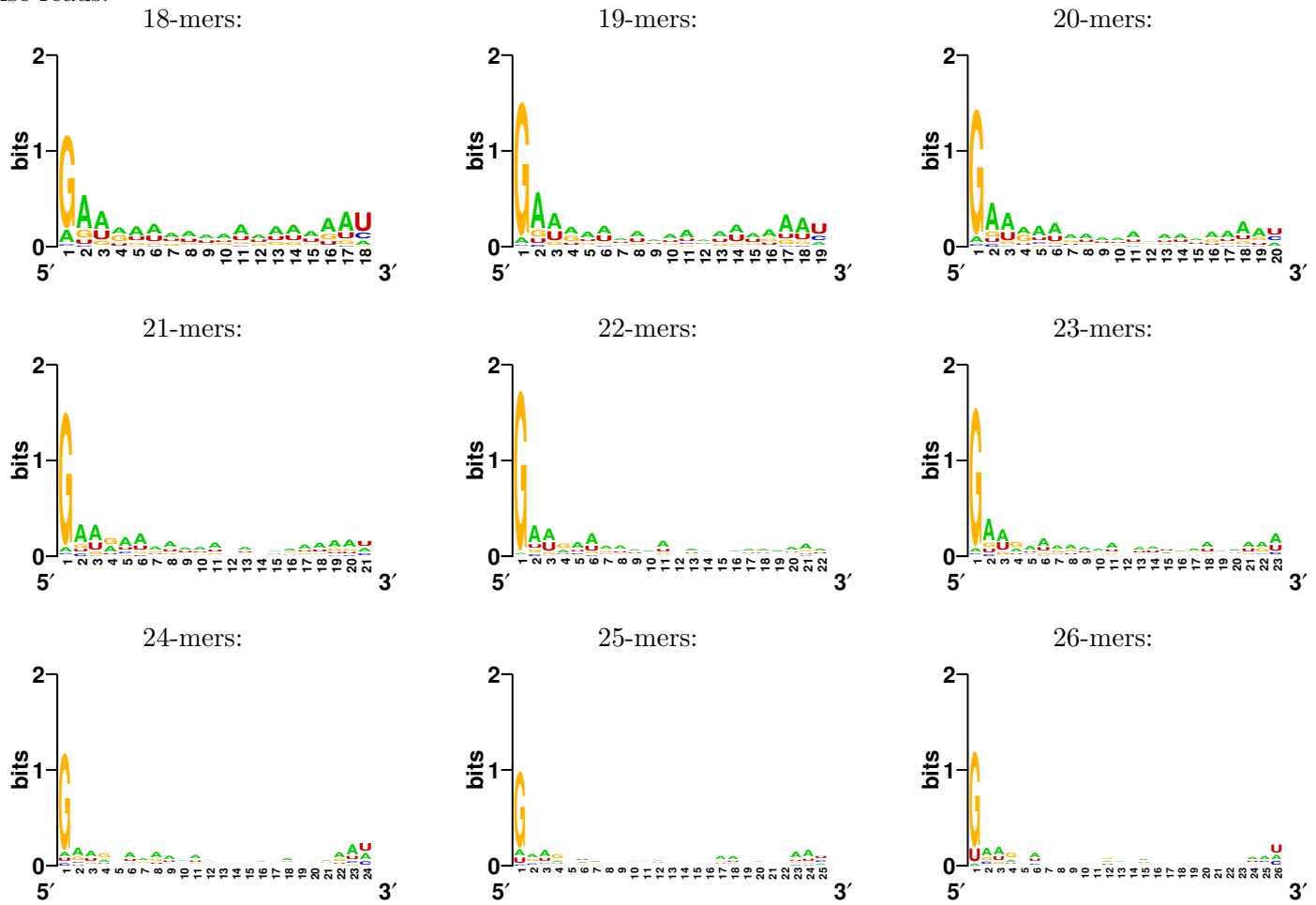
Antisense reads:



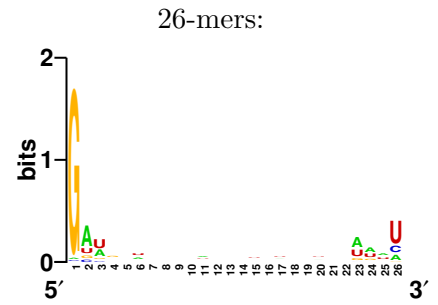
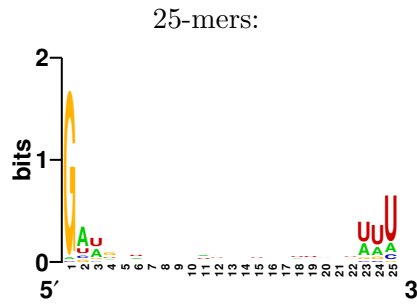
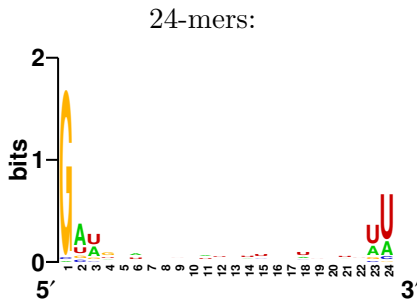
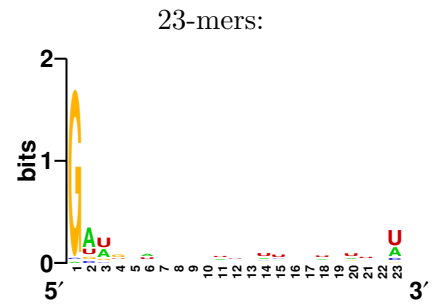
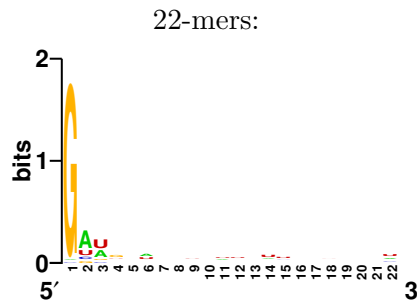
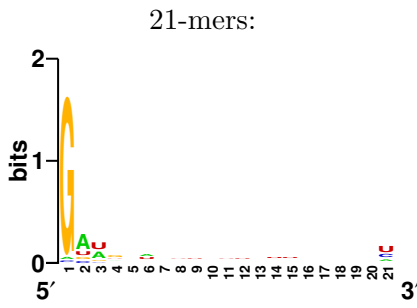
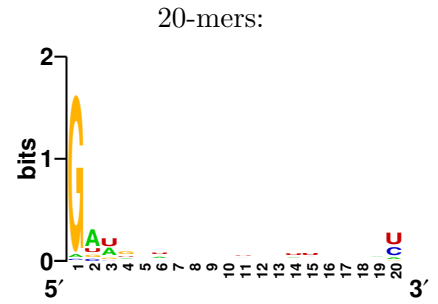
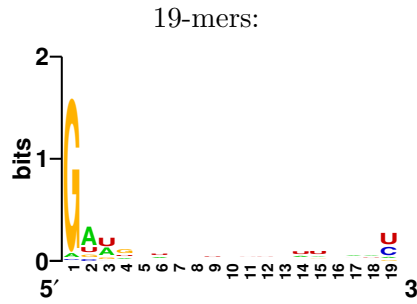
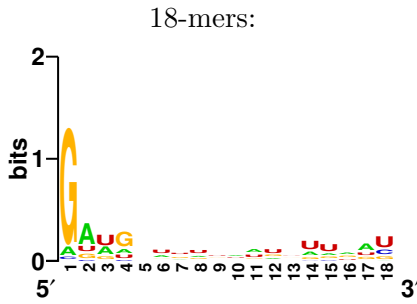
Library GSM455392 (18-26-mers, any number of 5' phosphates, replicate 2):



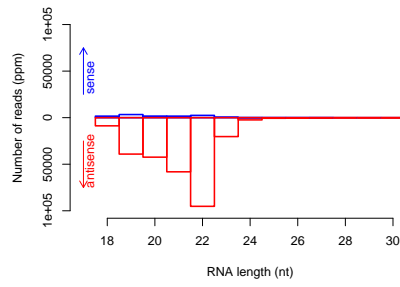
Sense reads:



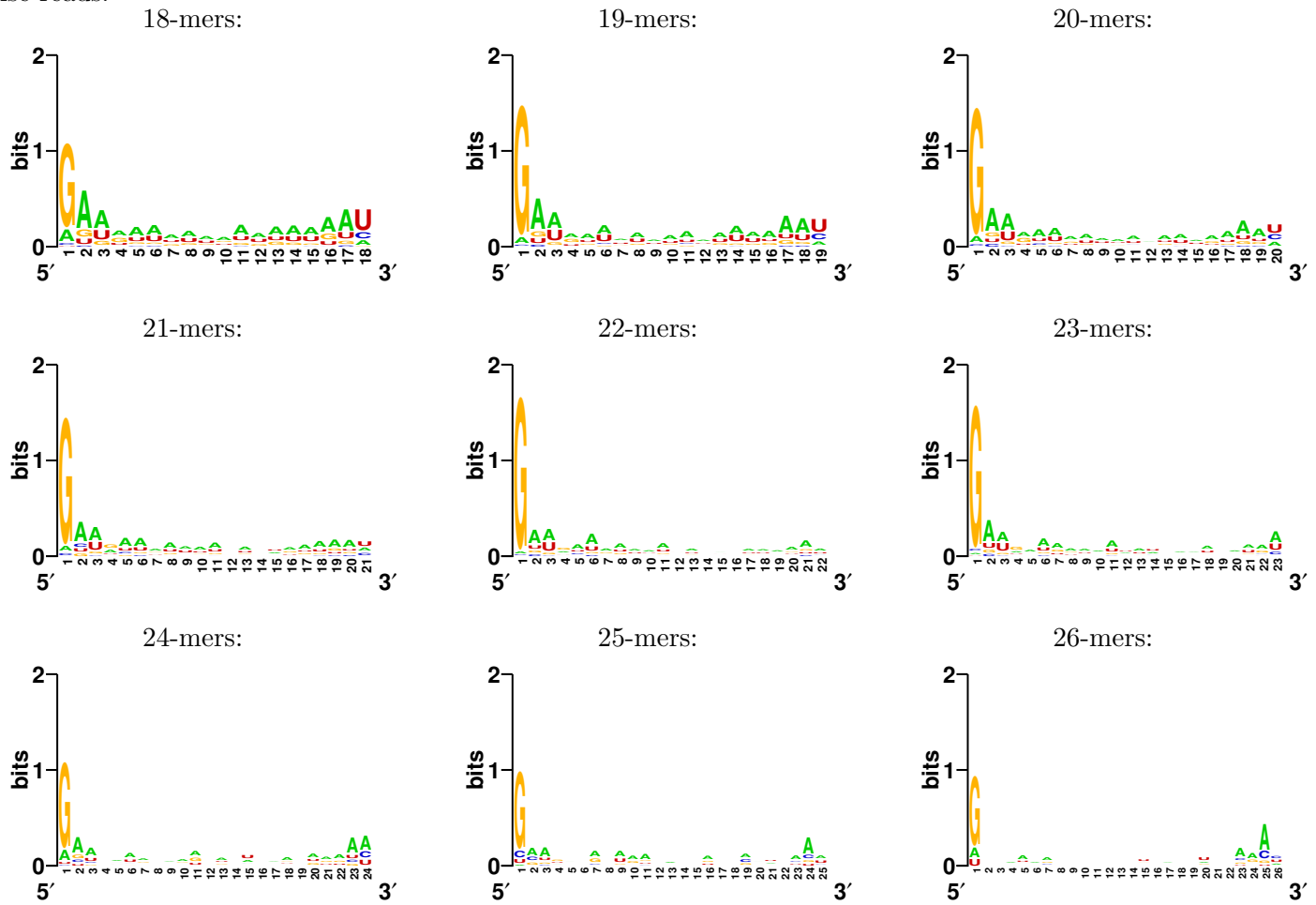
Antisense reads:



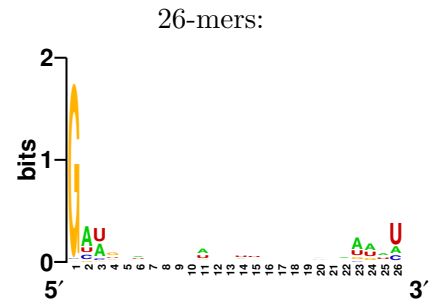
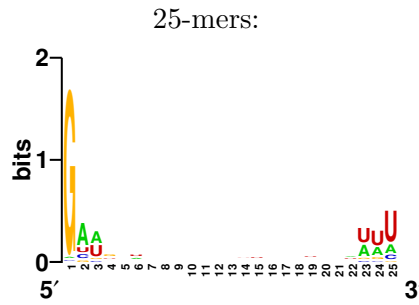
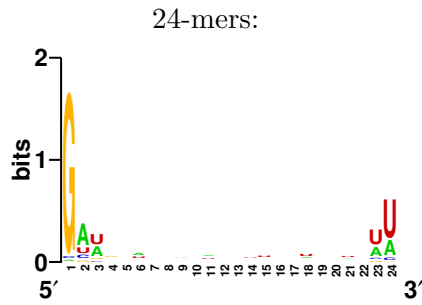
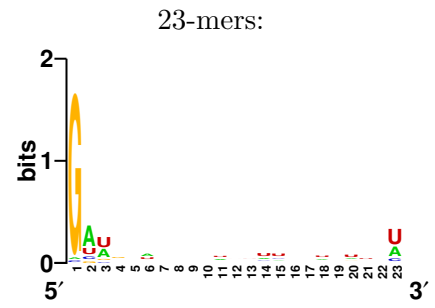
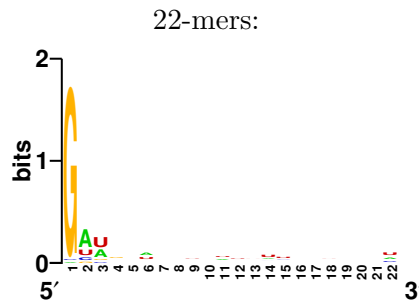
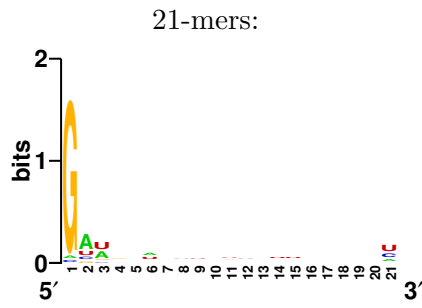
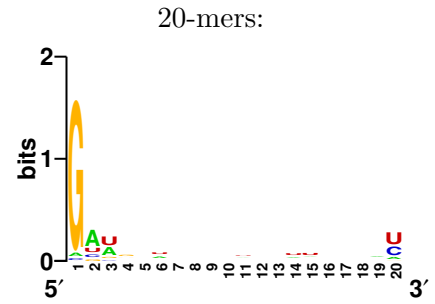
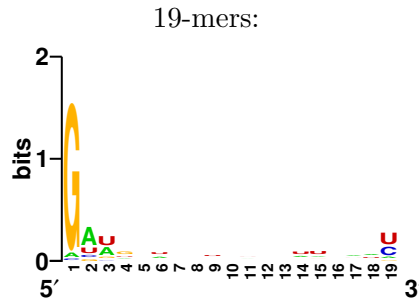
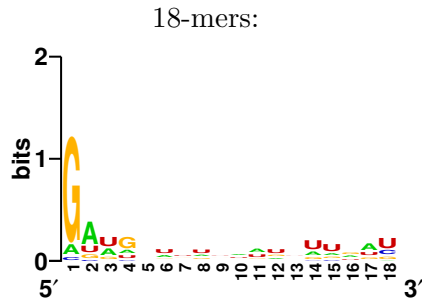
Library GSM455393 (18-26-mers, any number of 5' phosphates, replicate 3):



Sense reads:

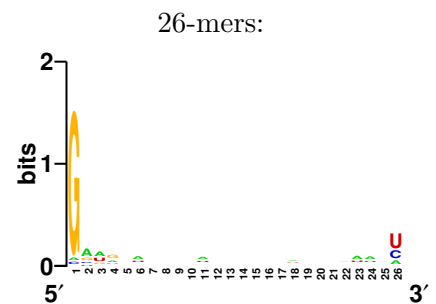
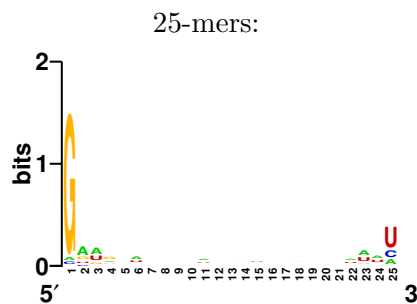
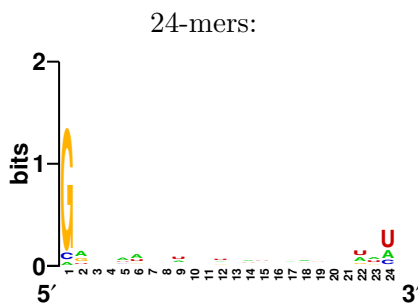
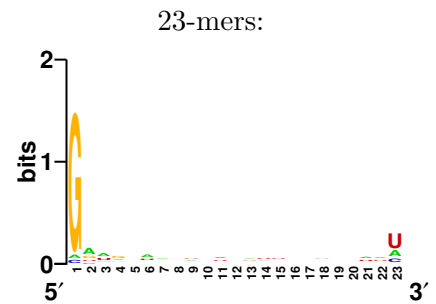
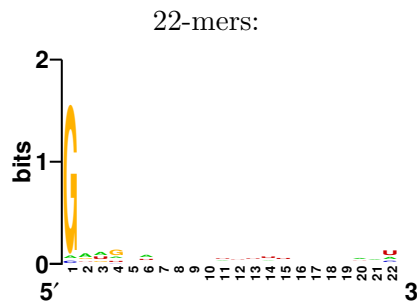
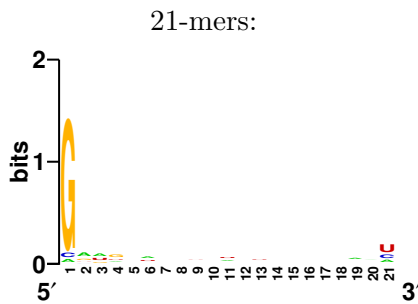
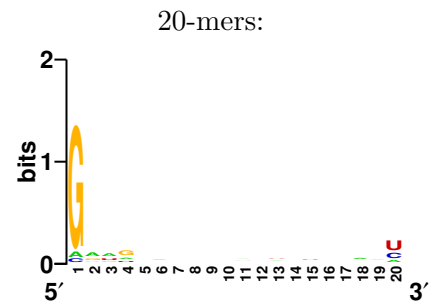
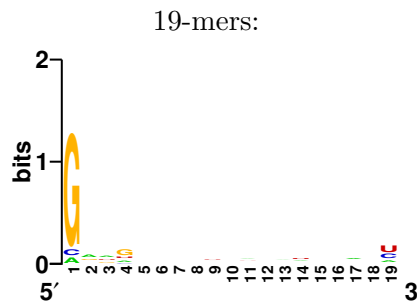
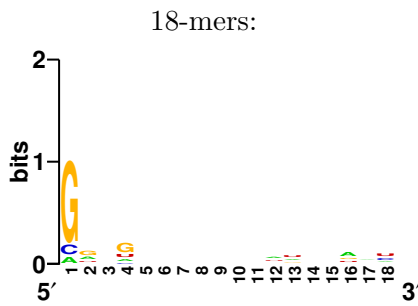
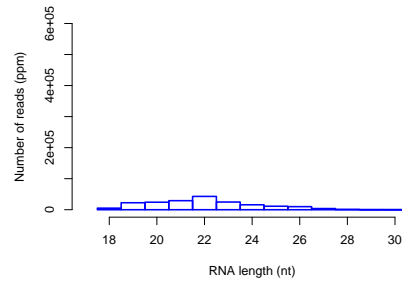


Antisense reads:



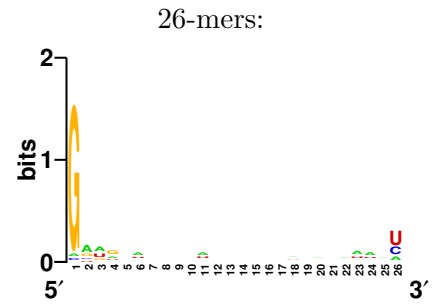
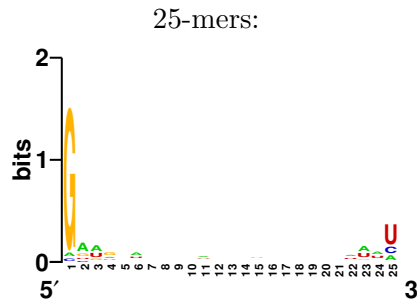
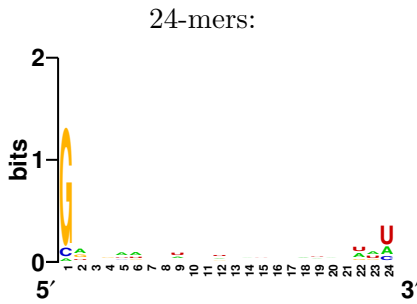
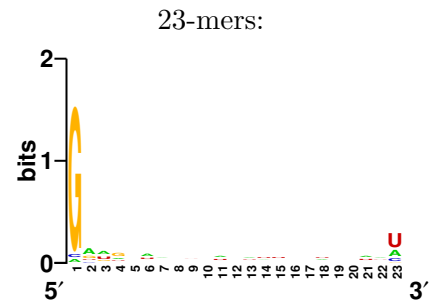
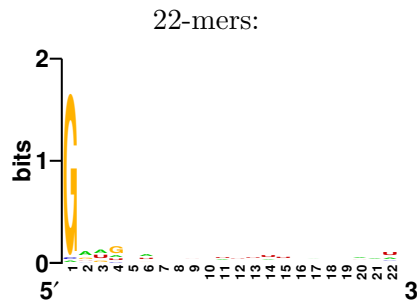
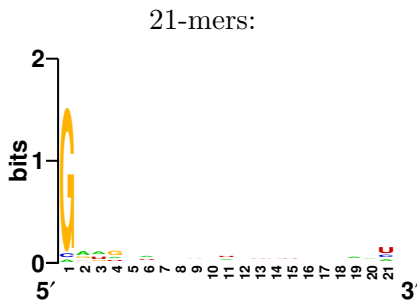
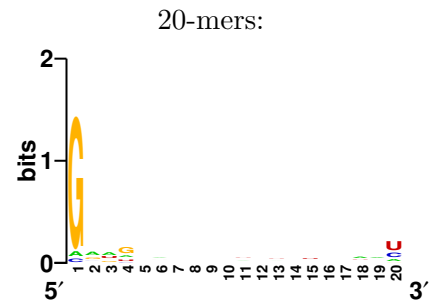
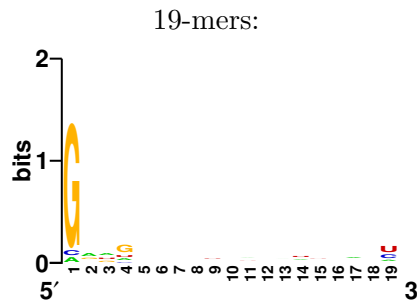
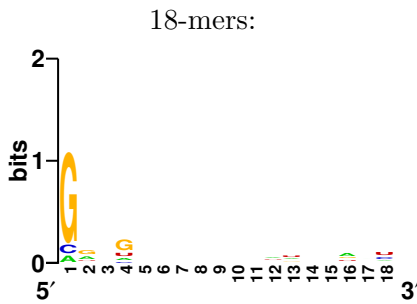
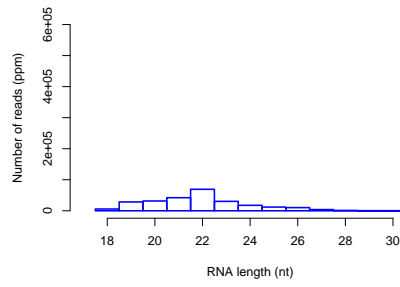
## 6.5 Extragenomic and extratranscriptomic reads

Library GSM455391 (18-26-mers, any number of 5' phosphates, replicate 1):

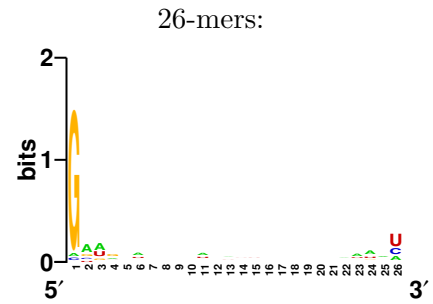
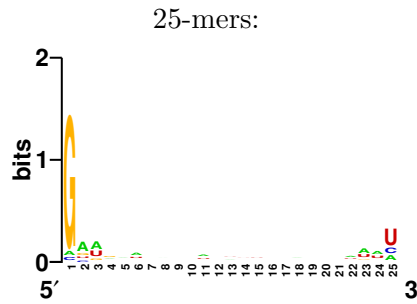
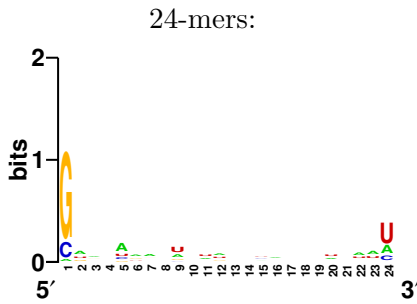
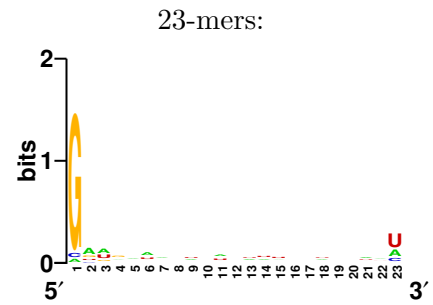
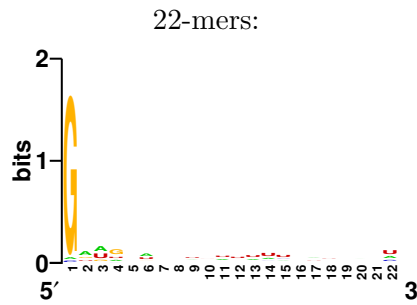
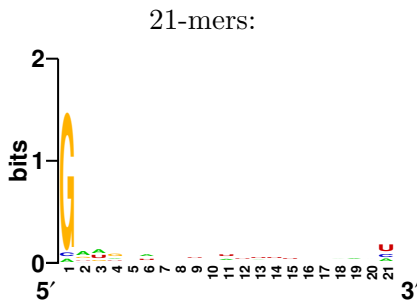
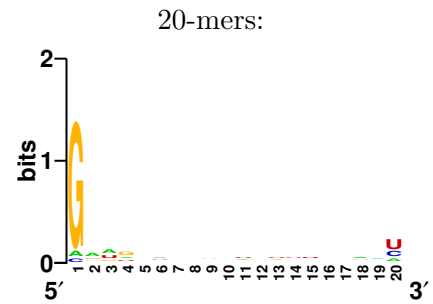
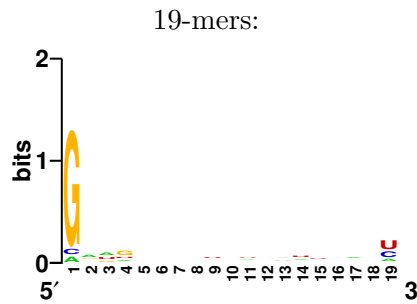
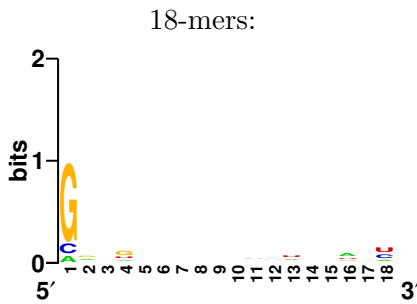
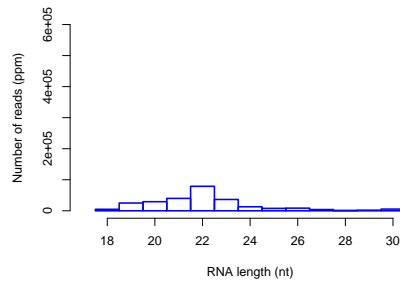




Library GSM455392 (18-26-mers, any number of 5' phosphates, replicate 2):

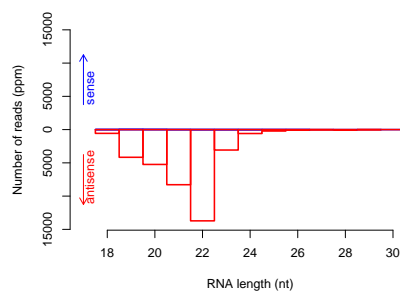


Library GSM455393 (18-26-mers, any number of 5' phosphates, replicate 3):



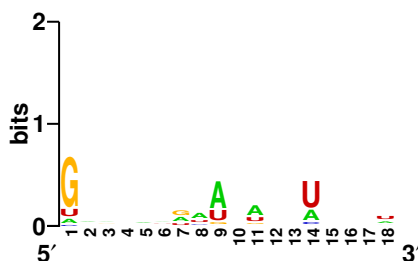
## 6.6 Extragenomic reads matching the transcriptome

Library GSM455391 (18-26-mers, any number of 5' phosphates, replicate 1):

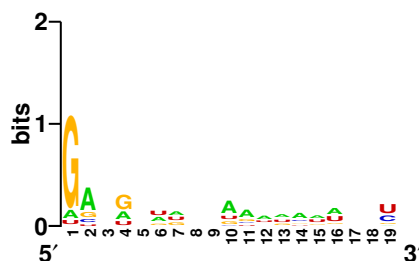


Sense reads:

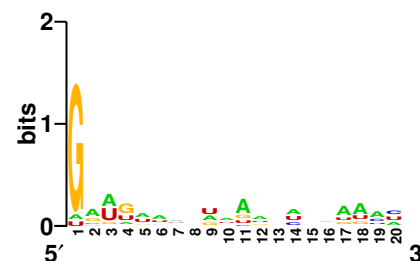
18-mers:



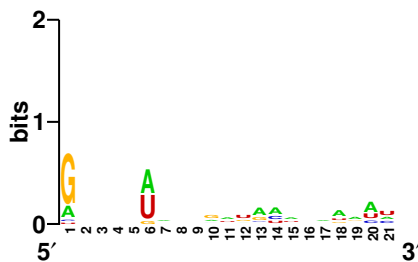
19-mers:



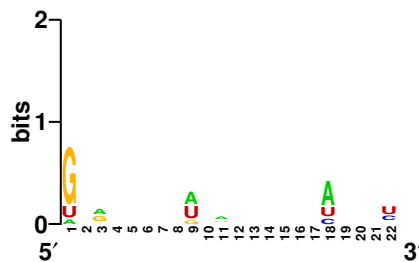
20-mers:



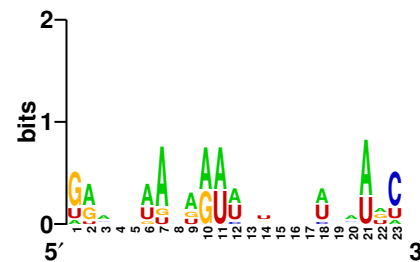
21-mers:



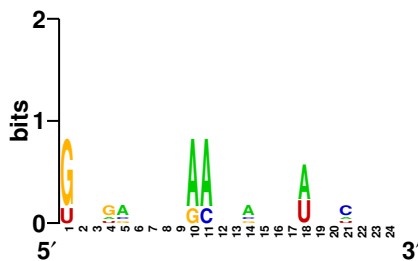
22-mers:



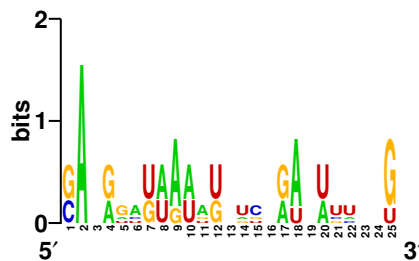
23-mers:



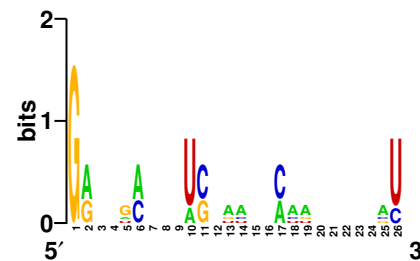
24-mers:



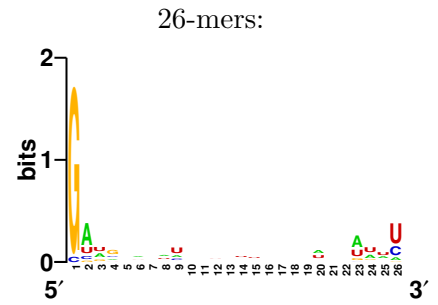
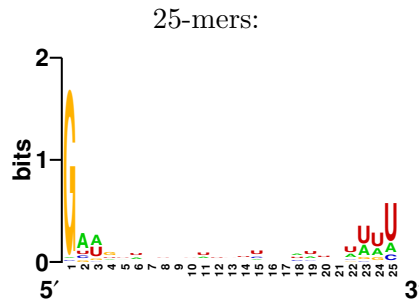
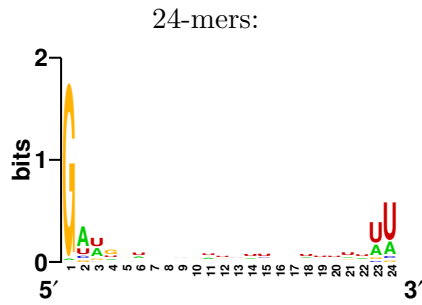
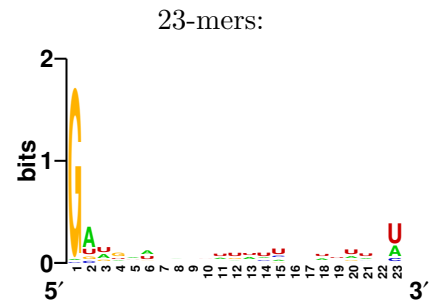
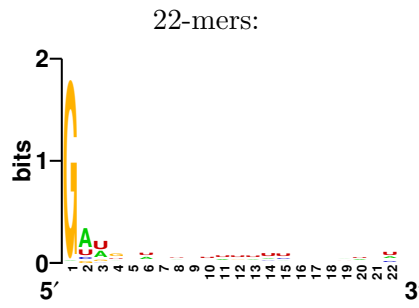
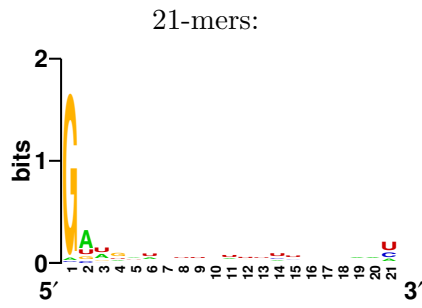
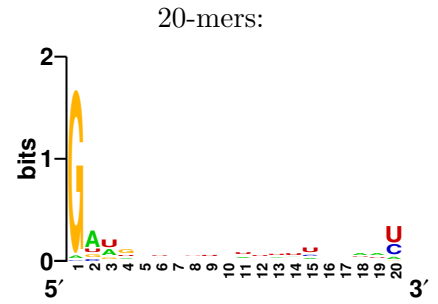
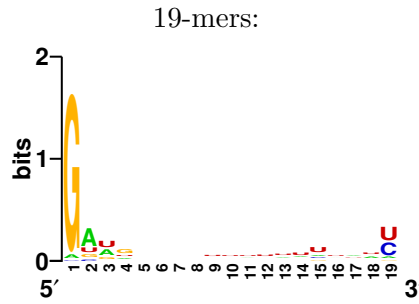
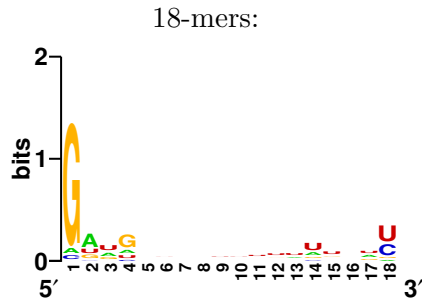
25-mers:



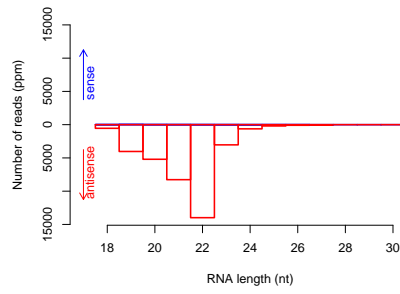
26-mers:



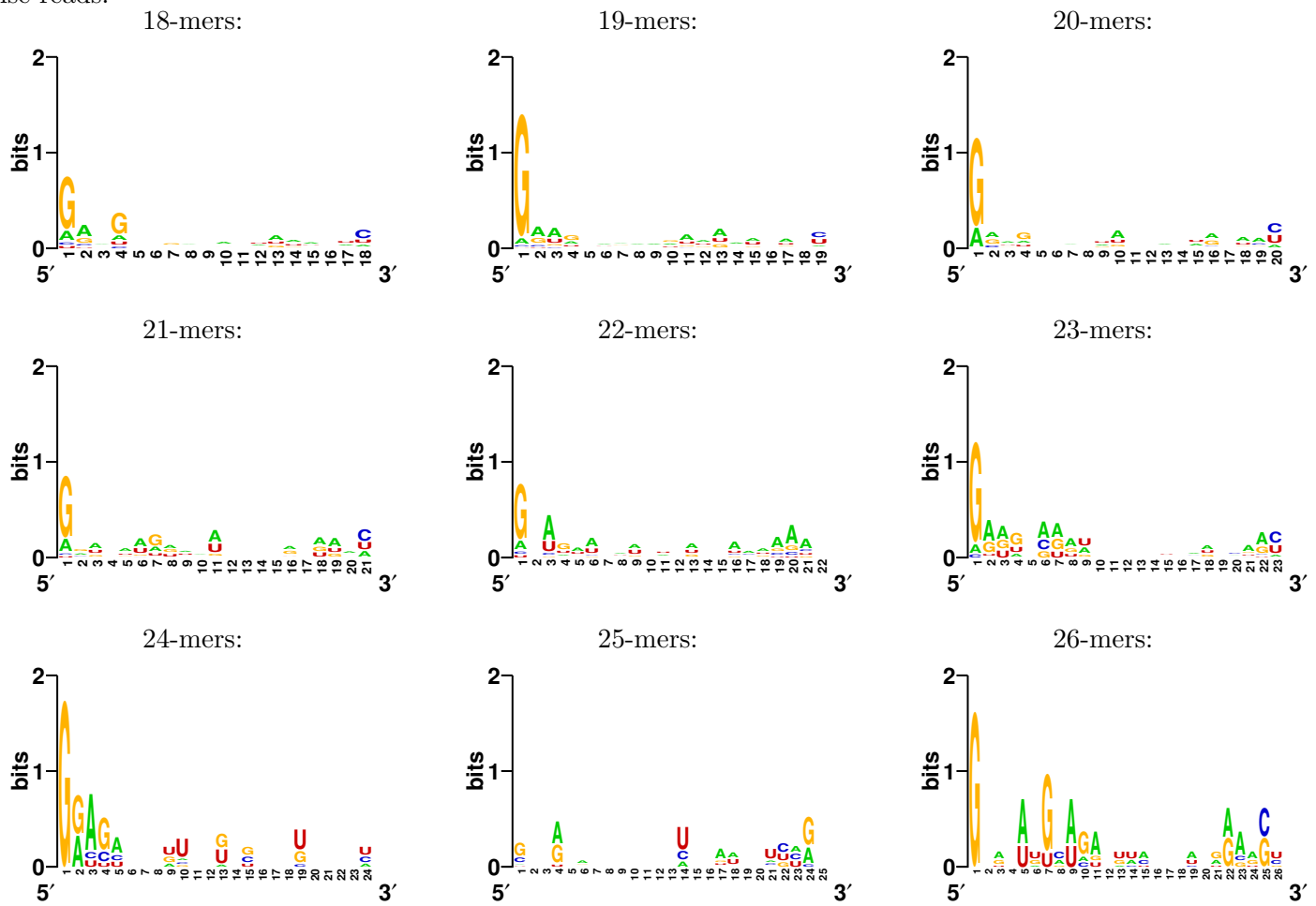
Antisense reads:



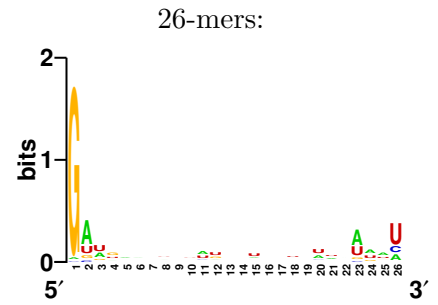
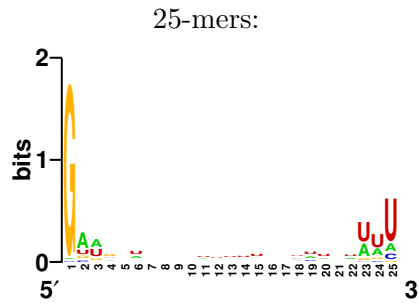
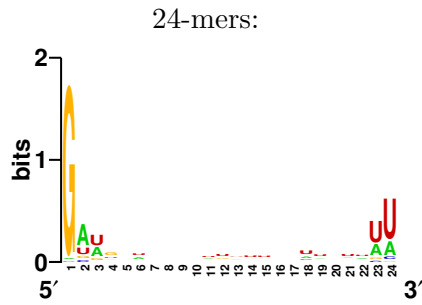
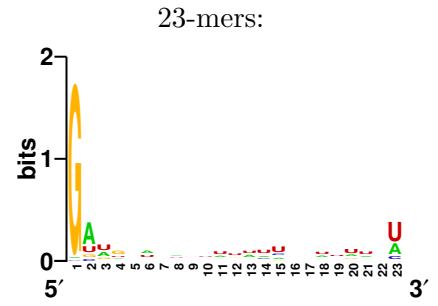
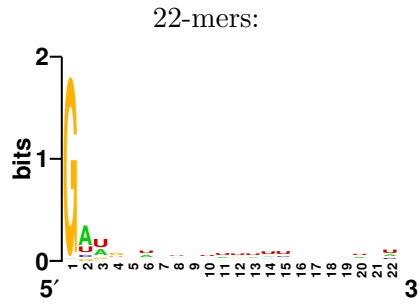
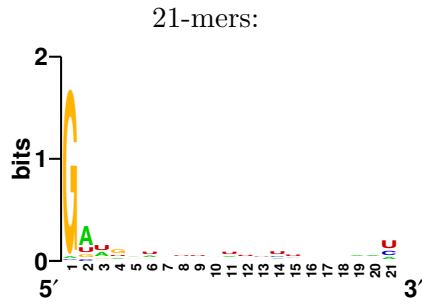
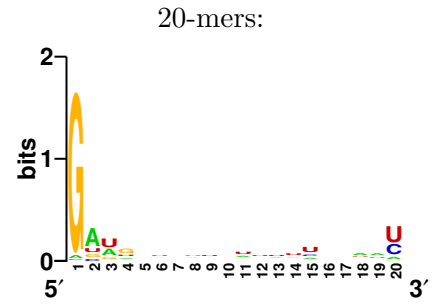
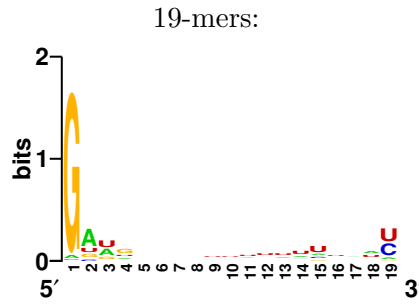
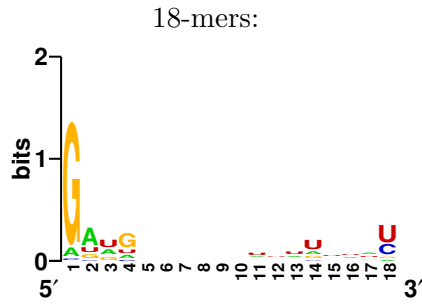
Library GSM455392 (18-26-mers, any number of 5' phosphates, replicate 2):



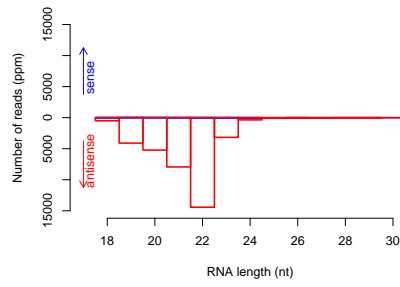
Sense reads:



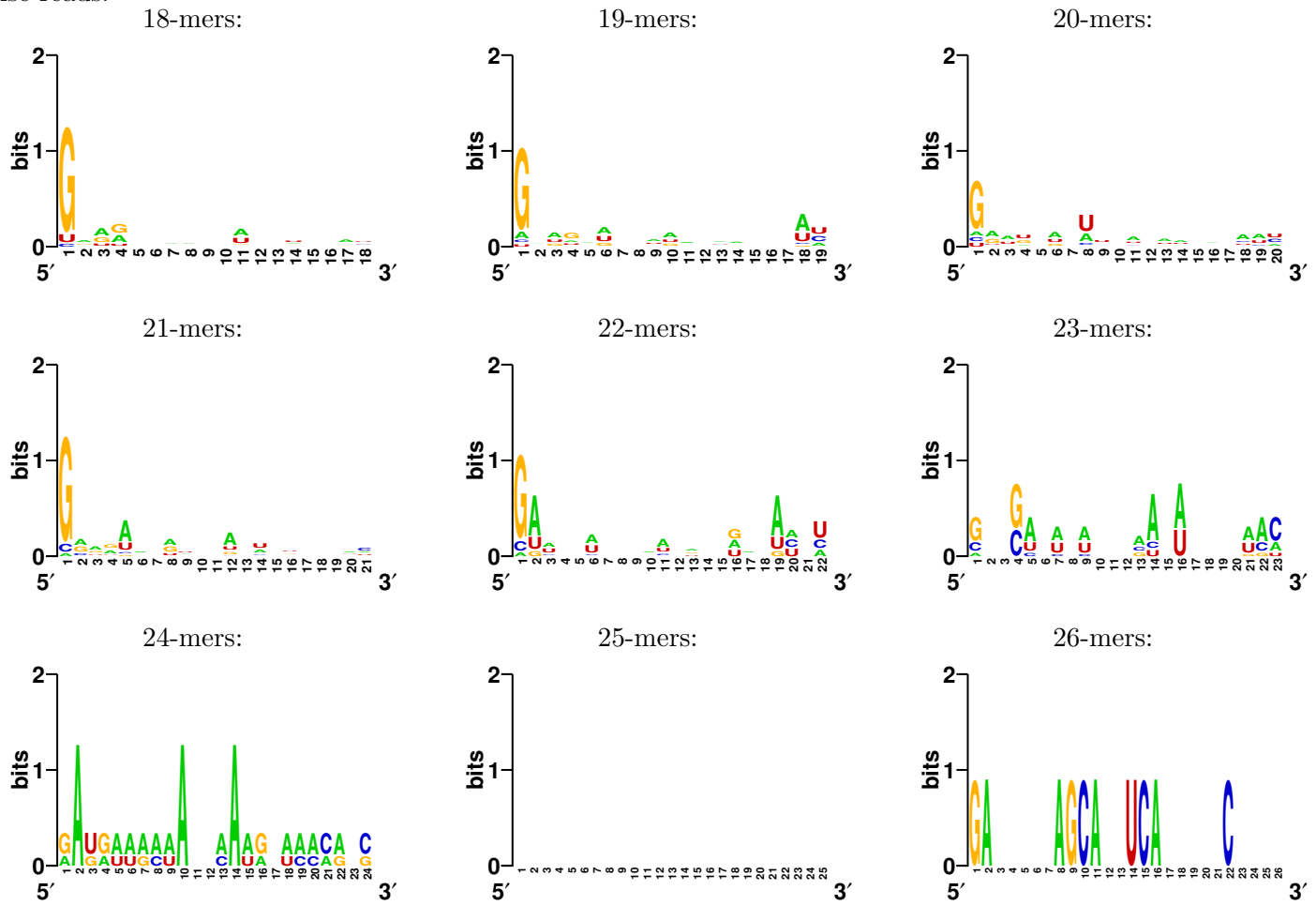
Antisense reads:



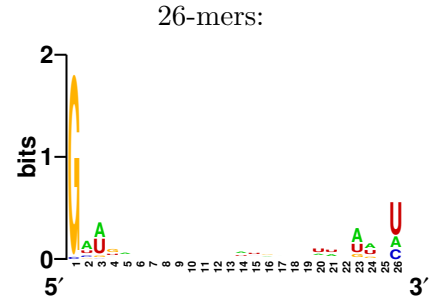
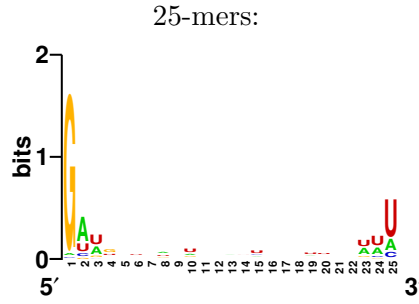
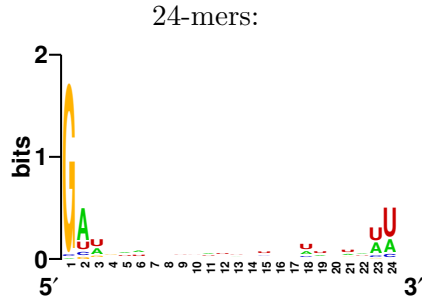
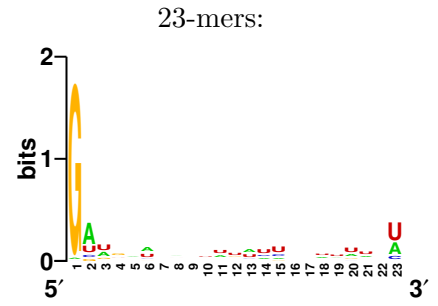
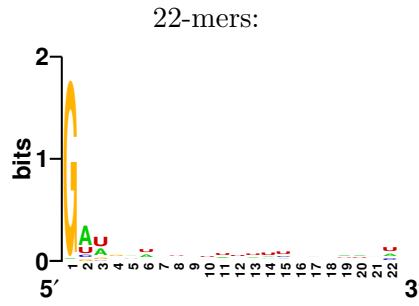
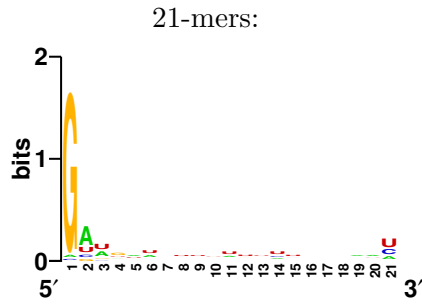
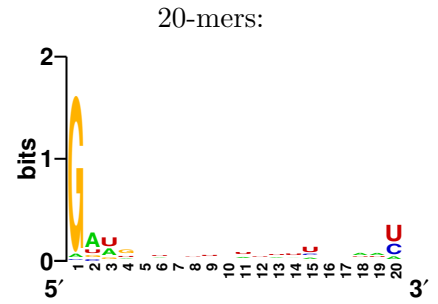
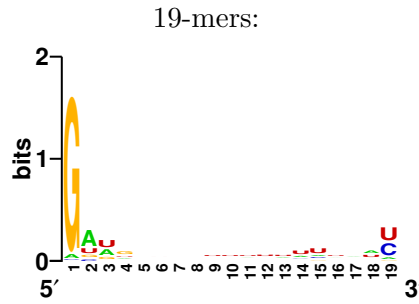
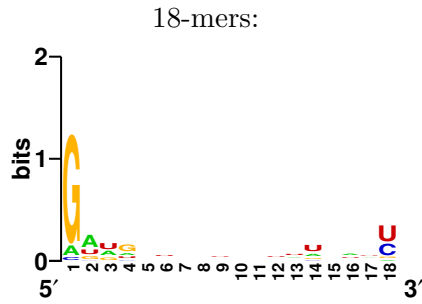
Library GSM455393 (18-26-mers, any number of 5' phosphates, replicate 3):



Sense reads:



Antisense reads:

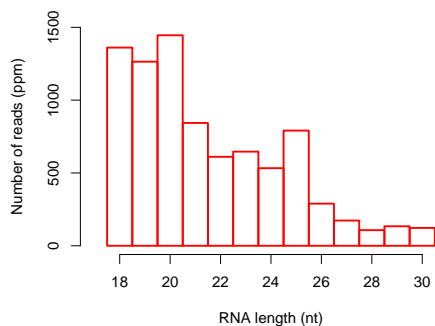




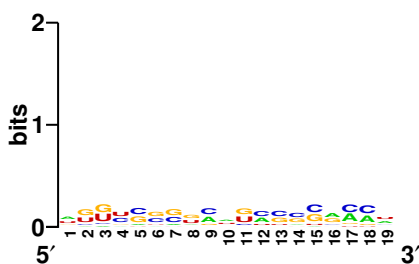
## 7 Extragenomic and extratranscriptomic reads matching the *Staphylococcus aureus* genome

### 7.1 Libraries #1 (total 5' monophosphorylated small RNAs)

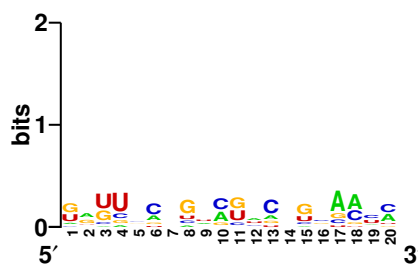
Embryo 8h, library 1:



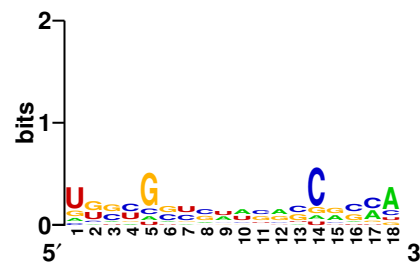
19-mers:



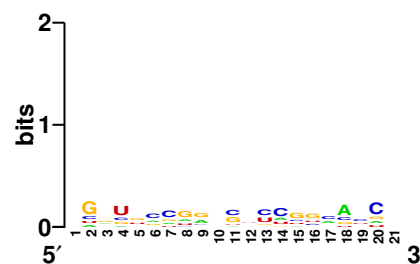
20-mers:



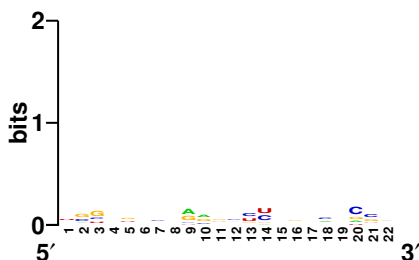
18-mers:



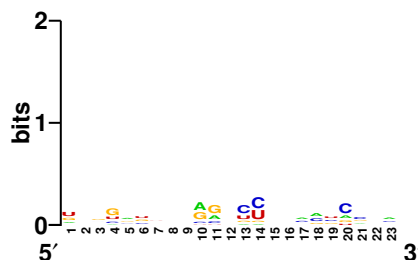
21-mers:



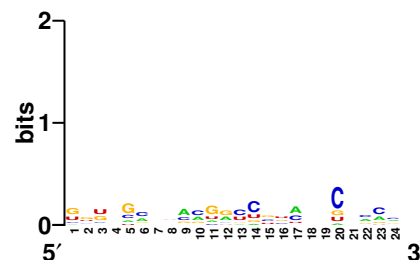
22-mers:



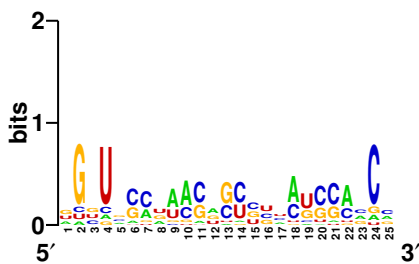
23-mers:



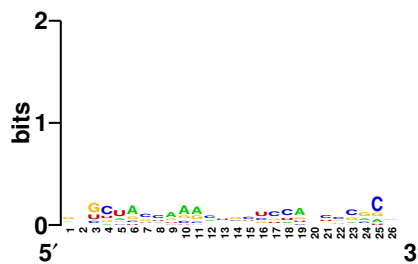
24-mers:



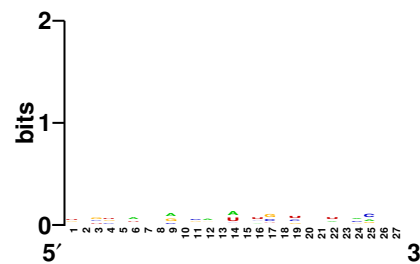
25-mers:



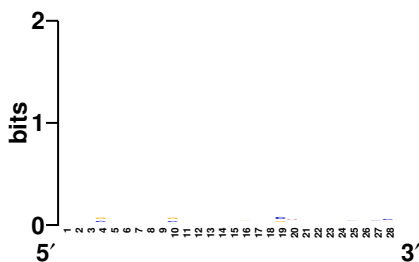
26-mers:



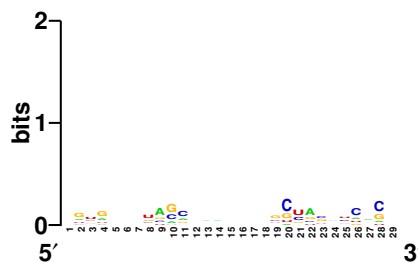
27-mers:



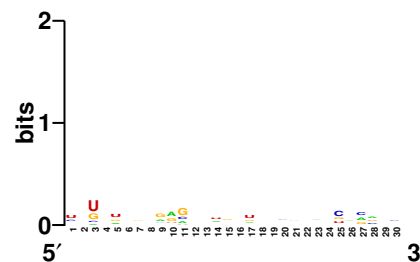
28-mers:



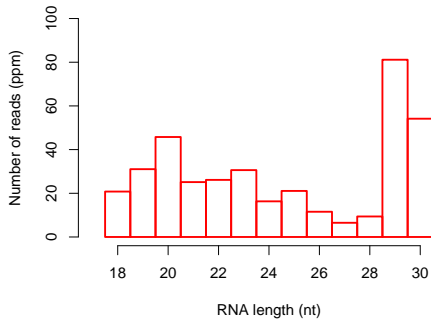
29-mers:



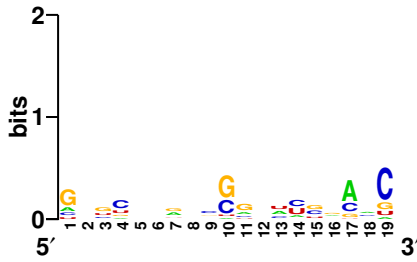
30-mers:



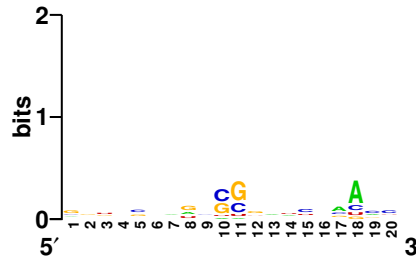
Embryo 15h, library 1:



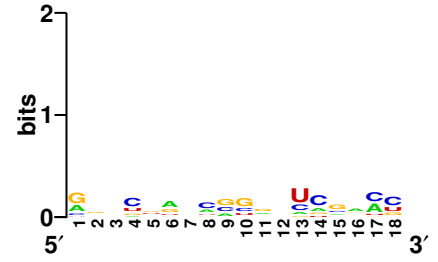
19-mers:



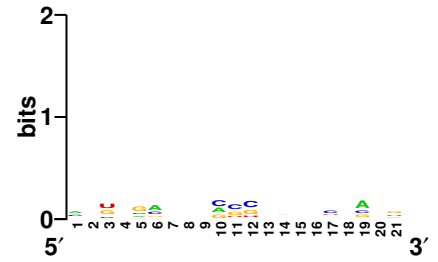
20-mers:



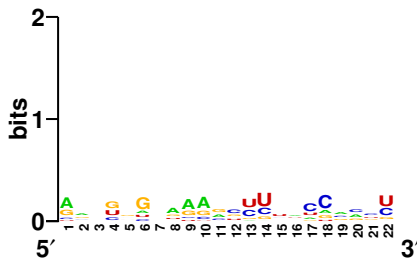
18-mers:



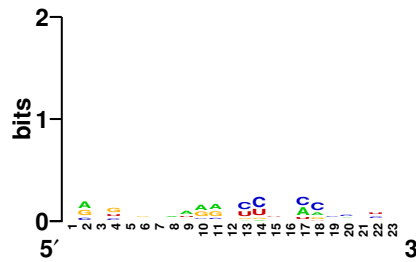
21-mers:



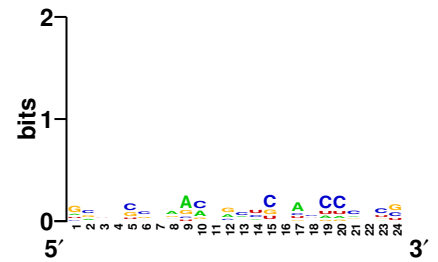
22-mers:



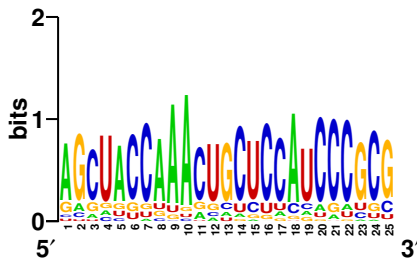
23-mers:



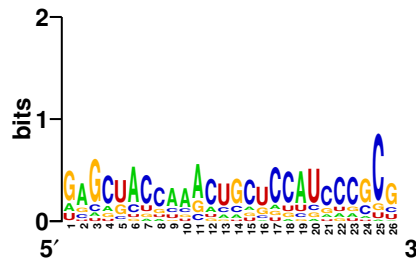
24-mers:



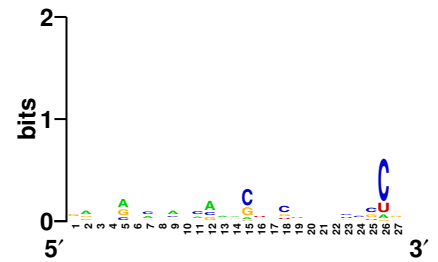
25-mers:



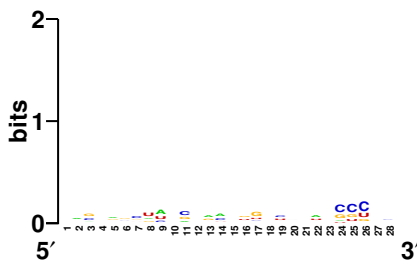
26-mers:



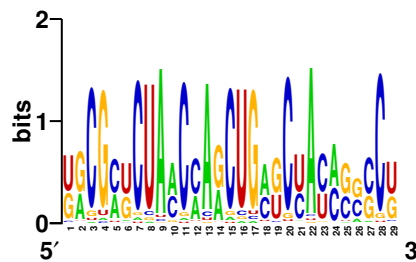
27-mers:



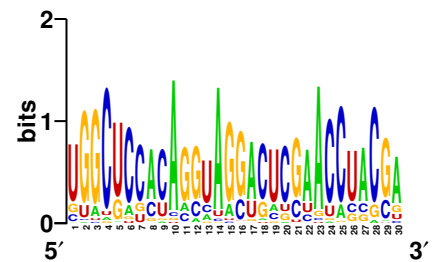
28-mers:



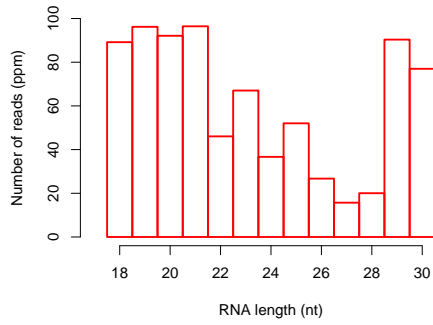
29-mers:



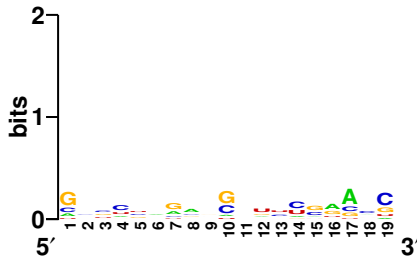
30-mers:



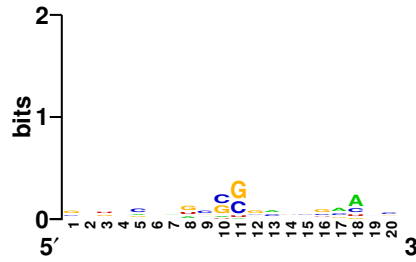
Embryo 36h, library 1:



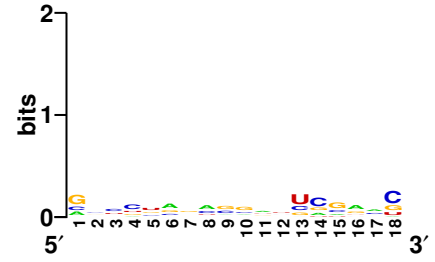
19-mers:



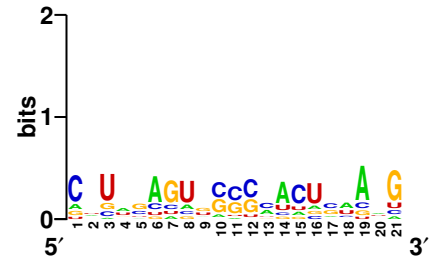
20-mers:



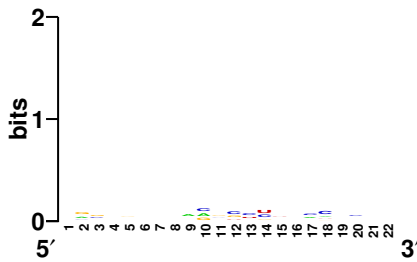
18-mers:



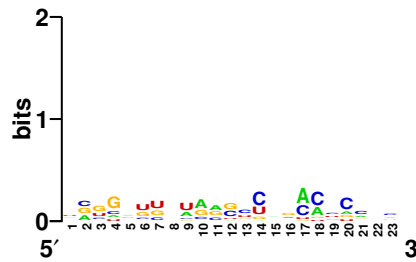
21-mers:



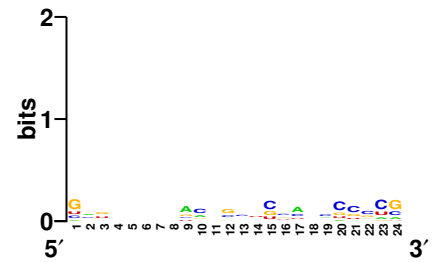
22-mers:



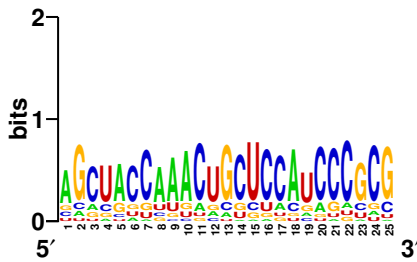
23-mers:



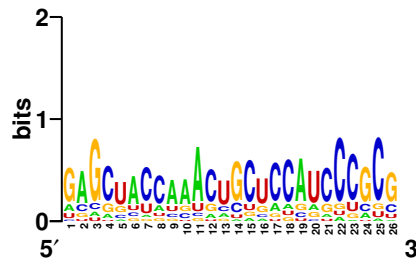
24-mers:



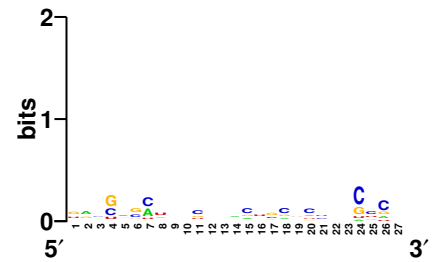
25-mers:



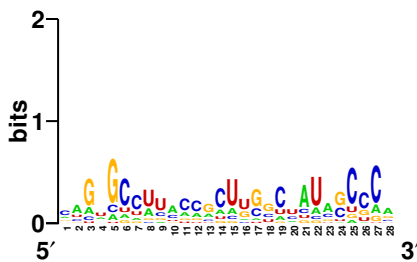
26-mers:



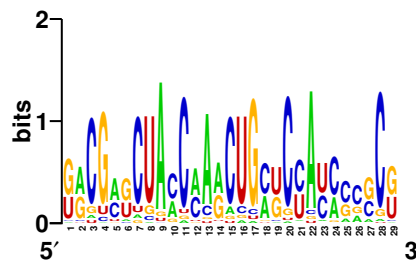
27-mers:



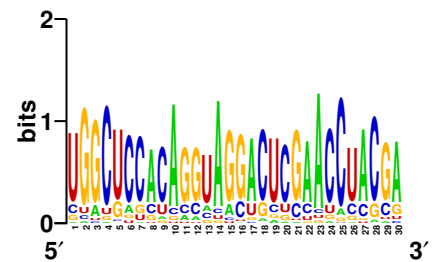
28-mers:



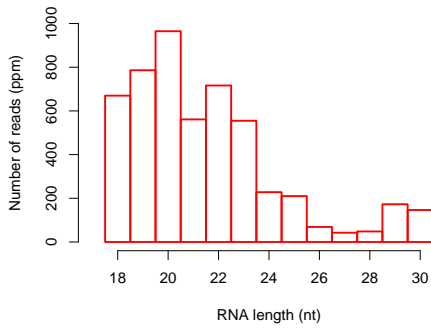
29-mers:



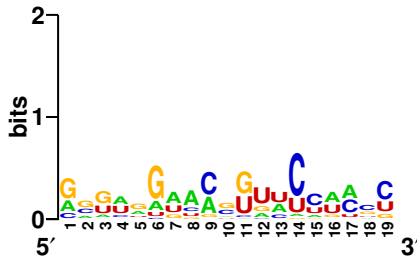
30-mers:



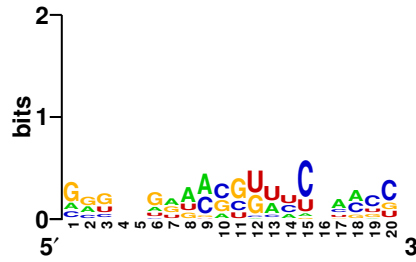
Embryo 60h, library 1:



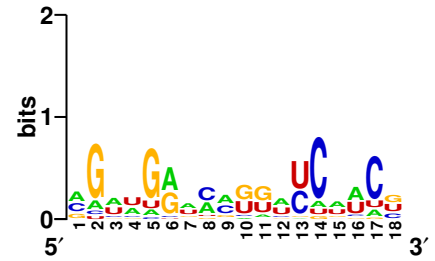
19-mers:



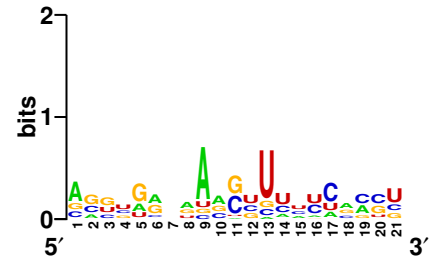
20-mers:



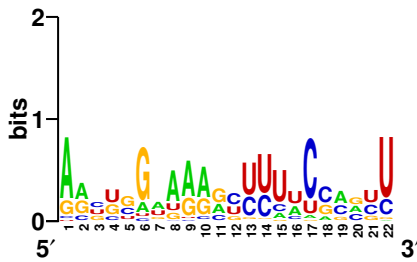
18-mers:



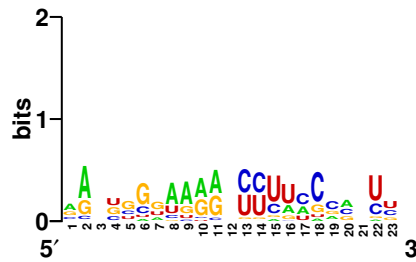
21-mers:



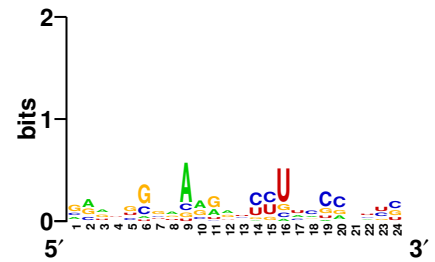
22-mers:



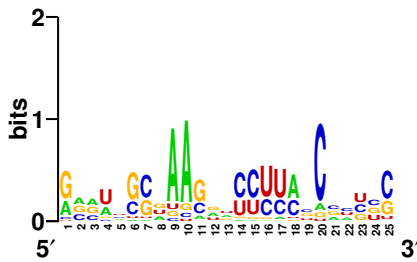
23-mers:



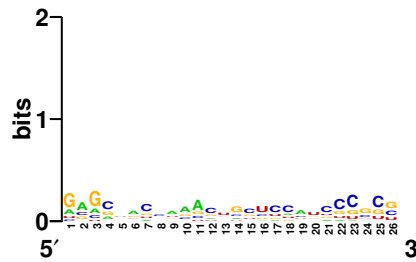
24-mers:



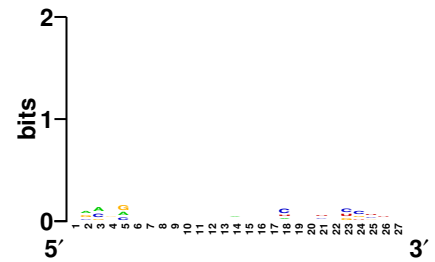
25-mers:



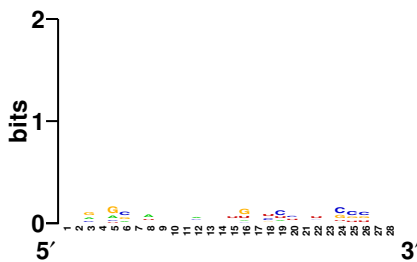
26-mers:



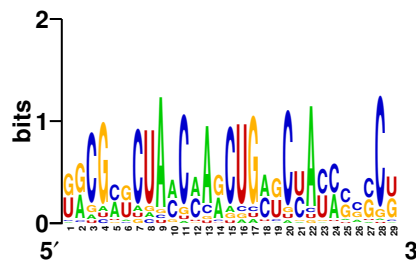
27-mers:



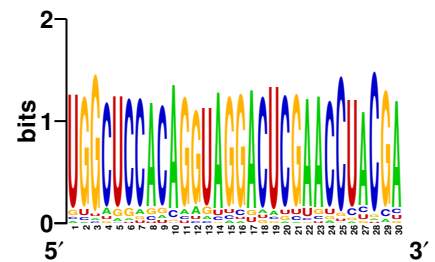
28-mers:



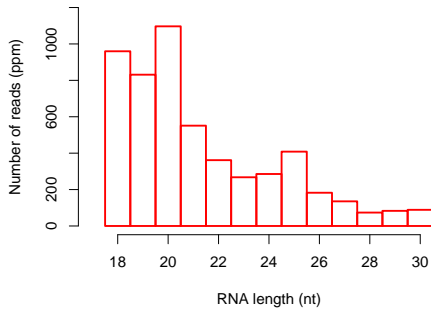
29-mers:



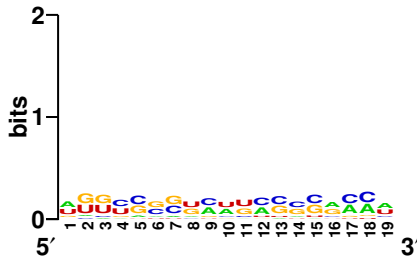
30-mers:



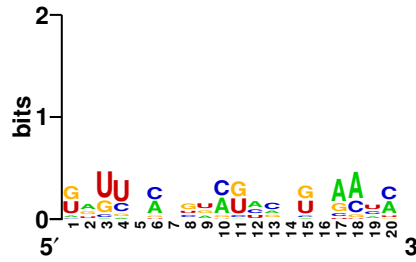
Adult female, library 1:



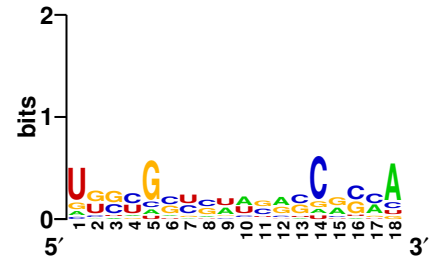
19-mers:



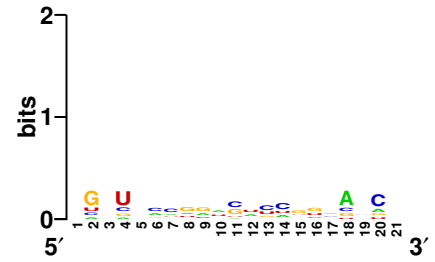
20-mers:



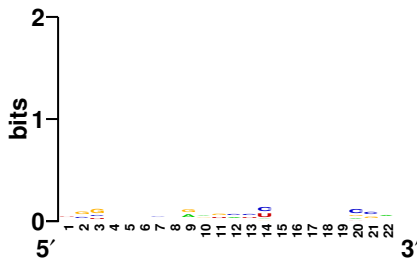
18-mers:



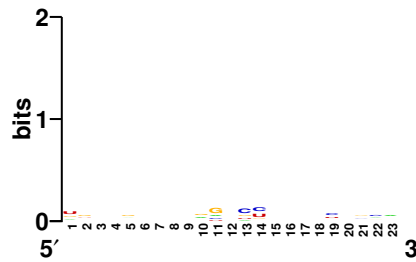
21-mers:



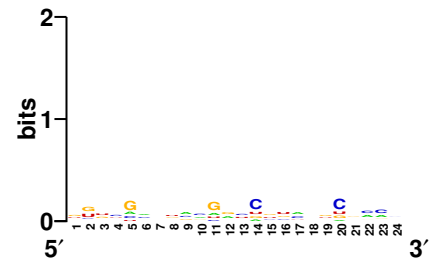
22-mers:



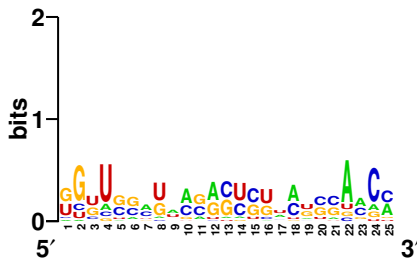
23-mers:



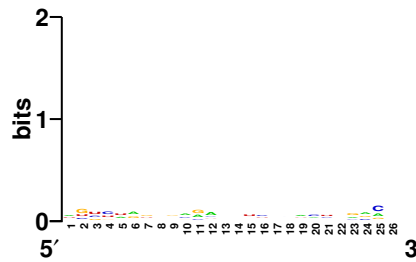
24-mers:



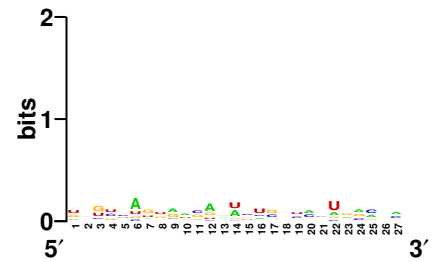
25-mers:



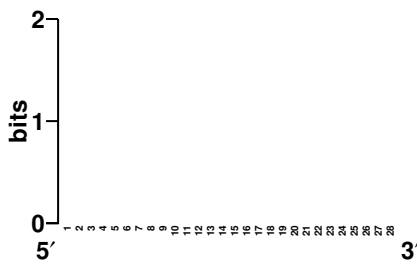
26-mers:



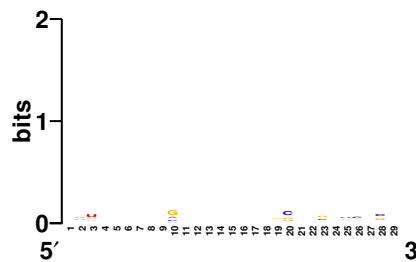
27-mers:



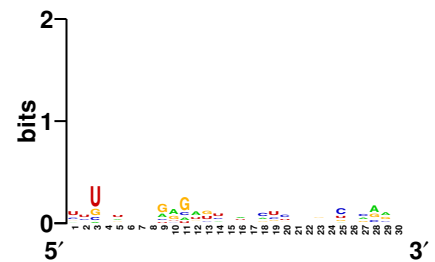
28-mers:



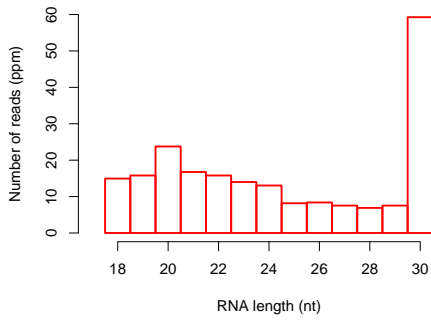
29-mers:



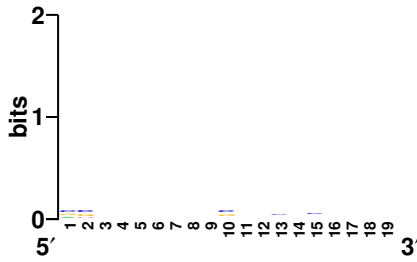
30-mers:



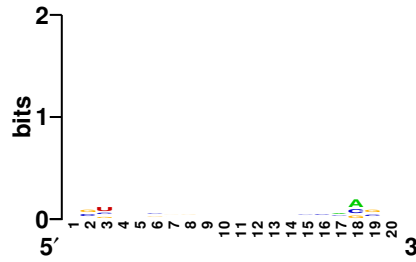
Adult male, library 1:



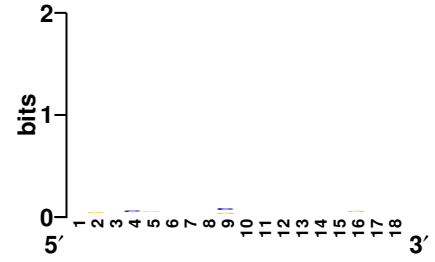
19-mers:



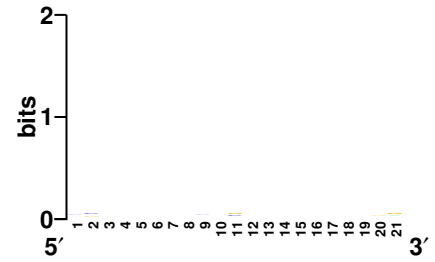
20-mers:



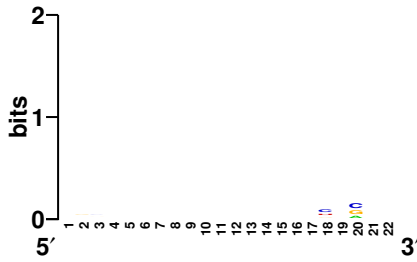
18-mers:



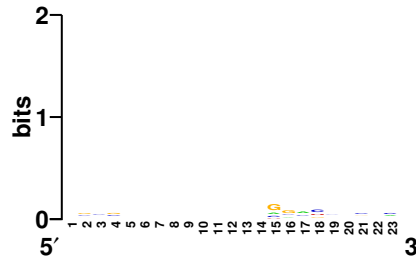
21-mers:



22-mers:



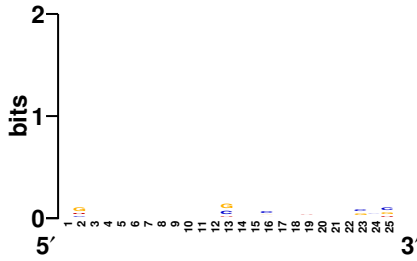
23-mers:



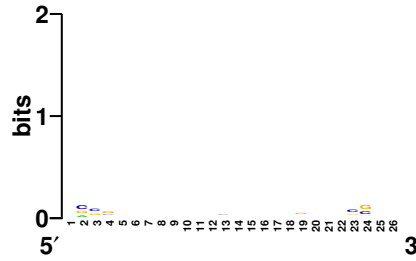
24-mers:



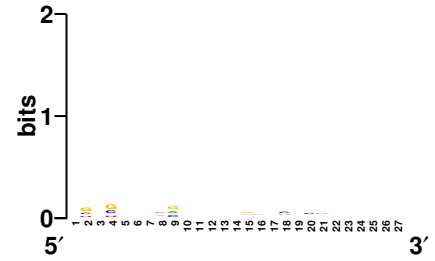
25-mers:



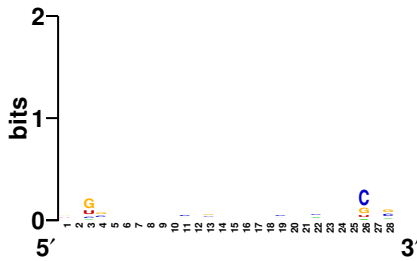
26-mers:



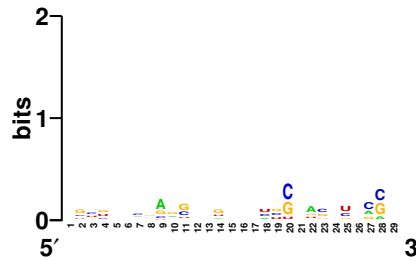
27-mers:



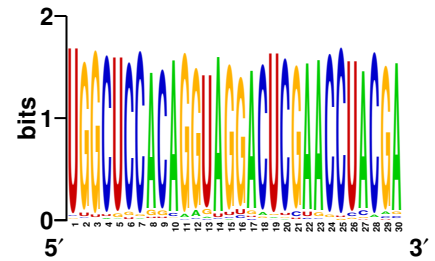
28-mers:



29-mers:

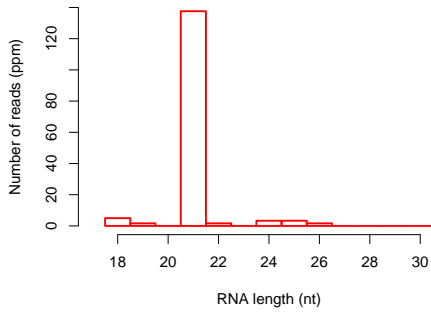


30-mers:

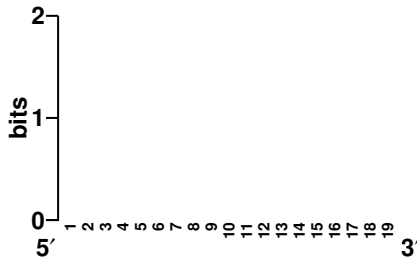


## 7.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

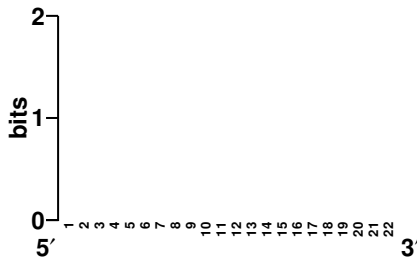
Embryo 8h, library 2:



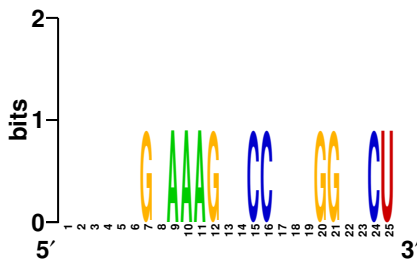
19-mers:



22-mers:



25-mers:



28-mers:  
(no read)

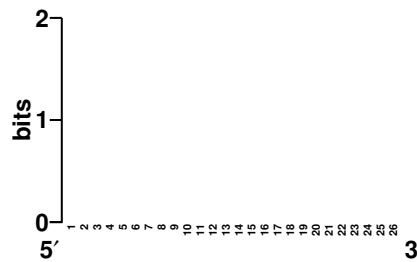
20-mers:

(no read)

23-mers:

(no read)

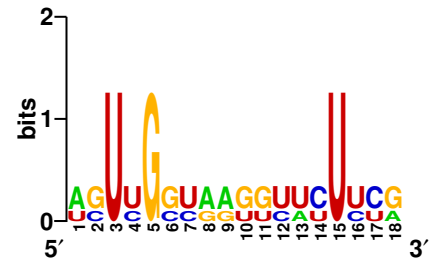
26-mers:



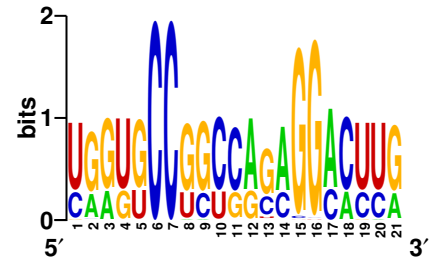
29-mers:

(no read)

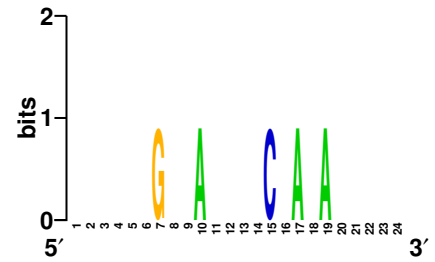
18-mers:



21-mers:



24-mers:



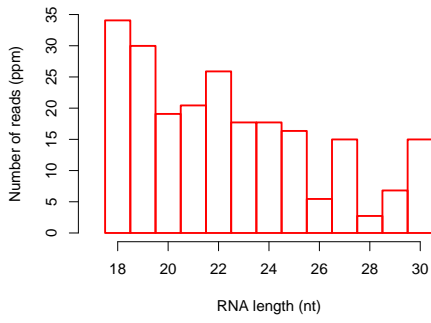
27-mers:

(no read)

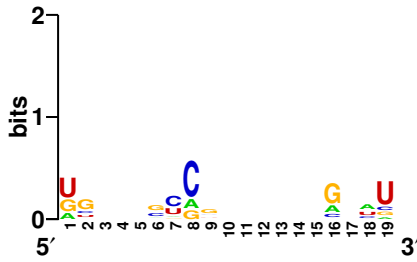
30-mers:

(no read)

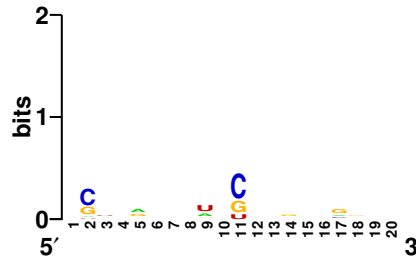
Embryo 15h, library 2:



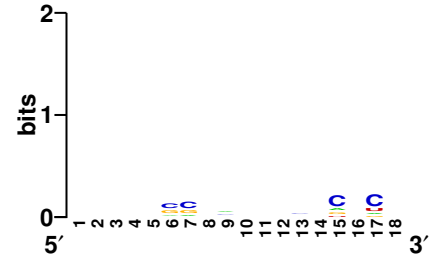
19-mers:



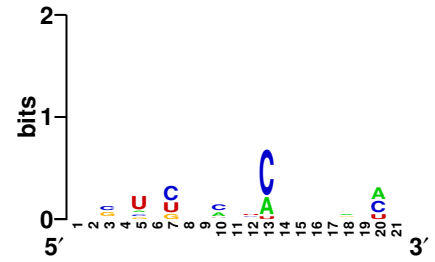
20-mers:



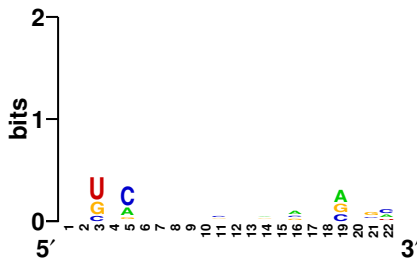
18-mers:



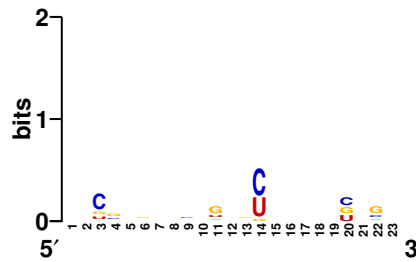
21-mers:



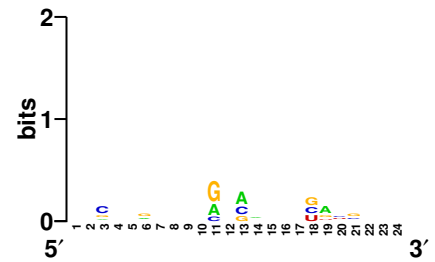
22-mers:



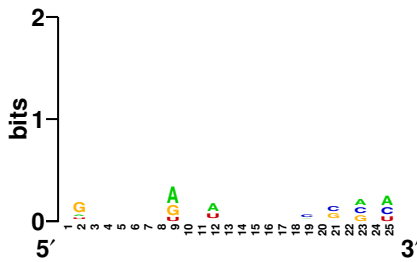
23-mers:



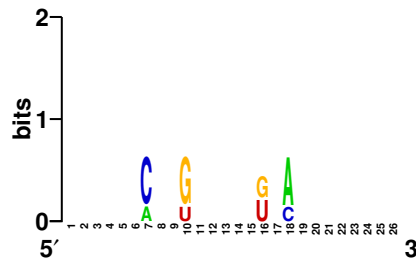
24-mers:



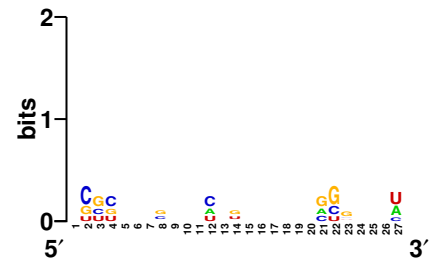
25-mers:



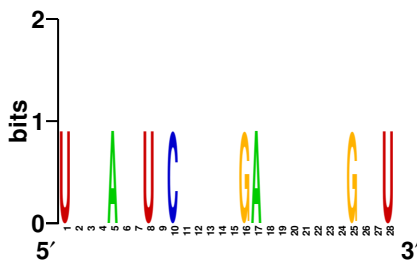
26-mers:



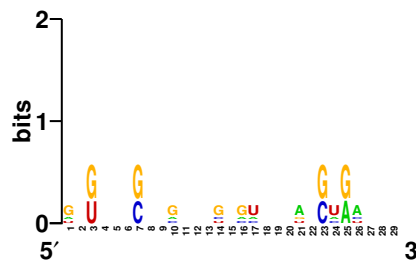
27-mers:



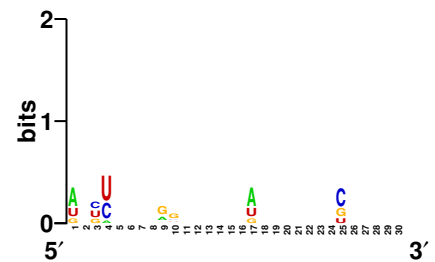
28-mers:



29-mers:



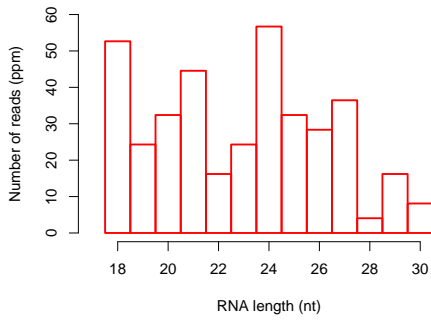
30-mers:



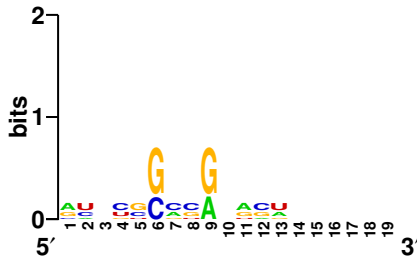




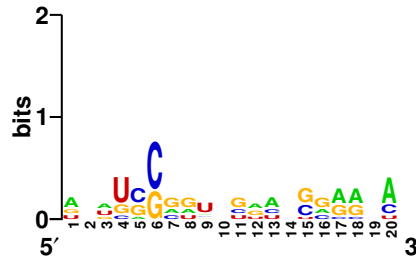
Embryo 60h, library 2:



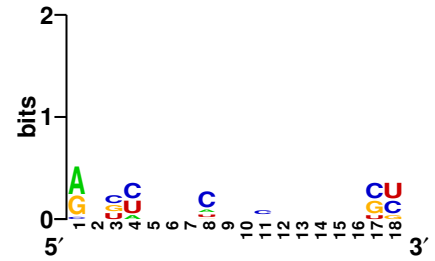
19-mers:



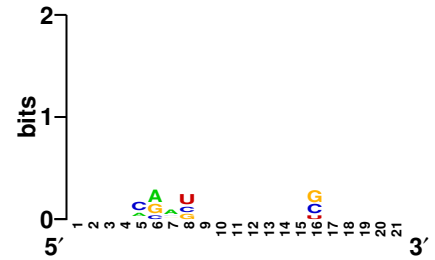
20-mers:



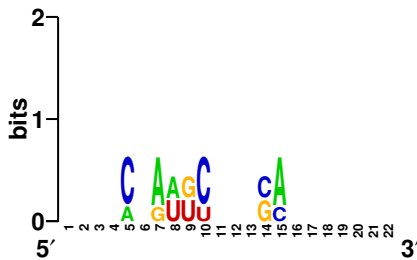
18-mers:



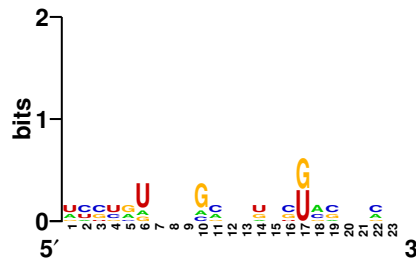
21-mers:



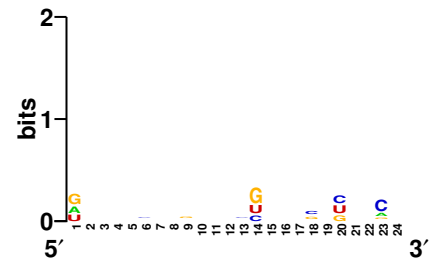
22-mers:



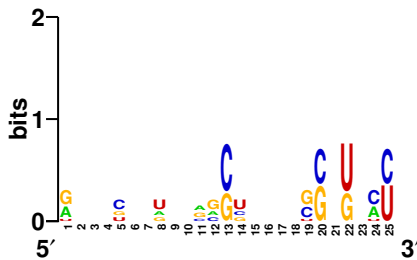
23-mers:



24-mers:



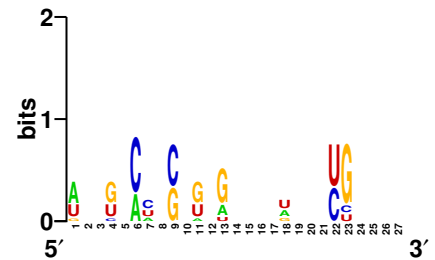
25-mers:



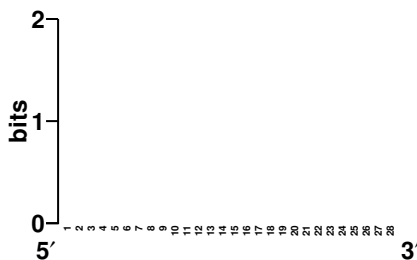
26-mers:



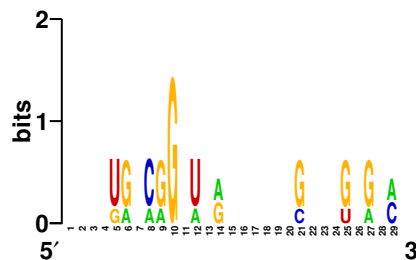
27-mers:



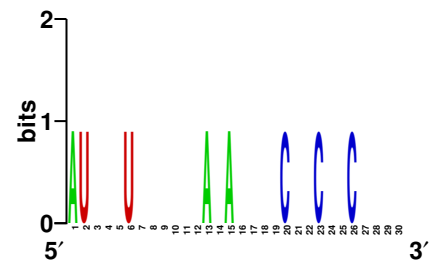
28-mers:



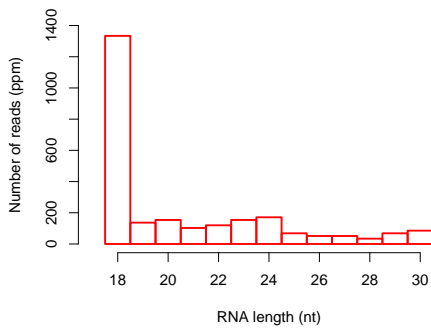
29-mers:



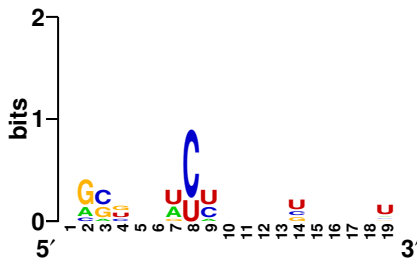
30-mers:



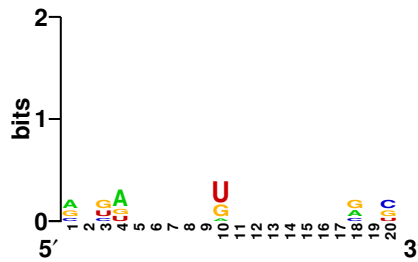
Adult female, library 2:



19-mers:



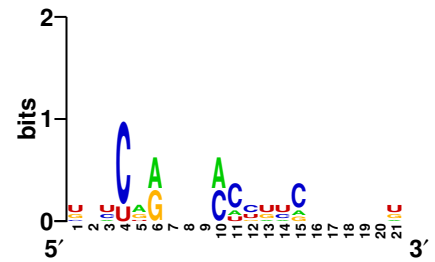
20-mers:



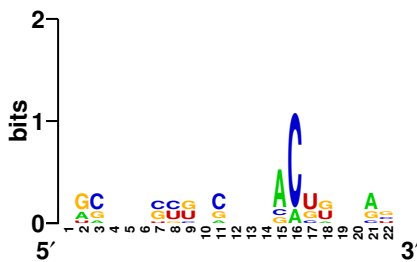
18-mers:



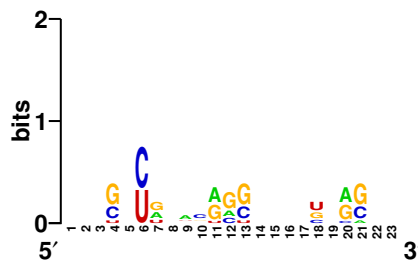
21-mers:



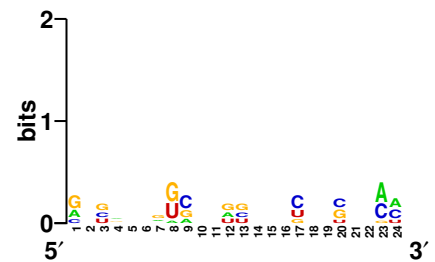
22-mers:



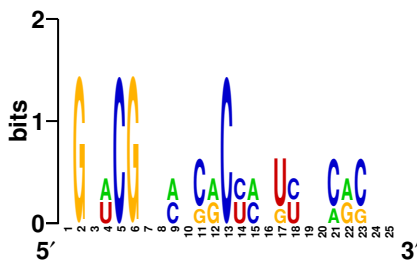
23-mers:



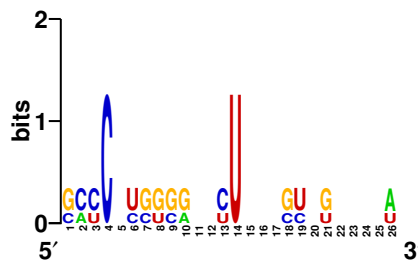
24-mers:



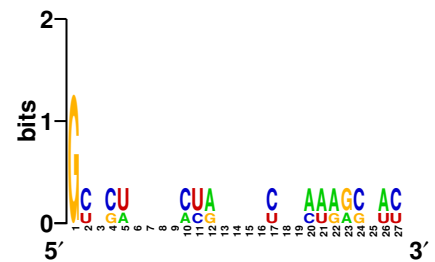
25-mers:



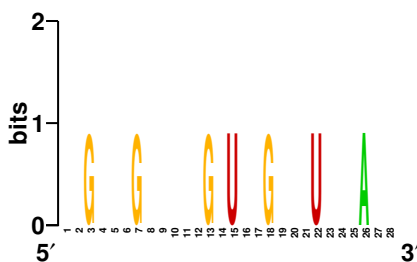
26-mers:



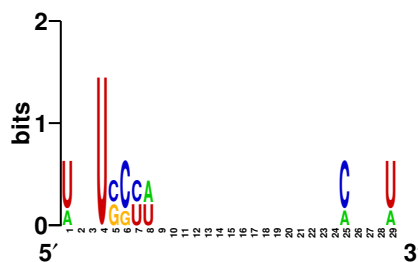
27-mers:



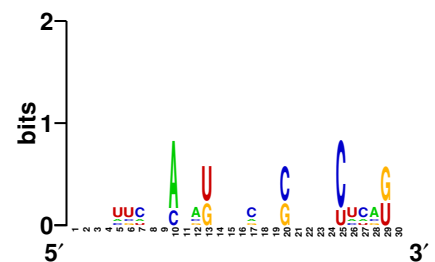
28-mers:



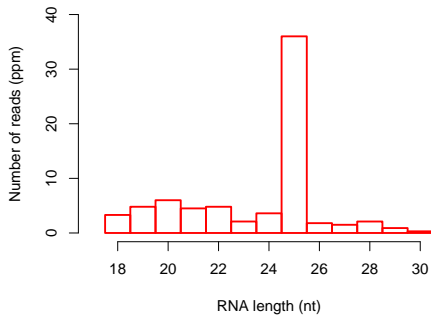
29-mers:



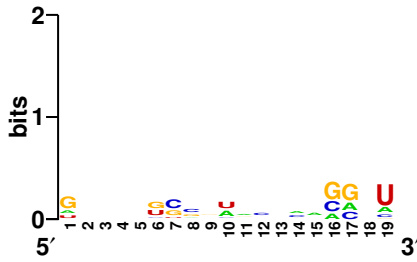
30-mers:



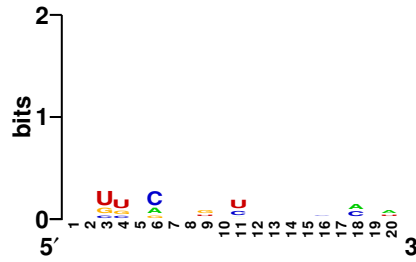
Adult male, library 2:



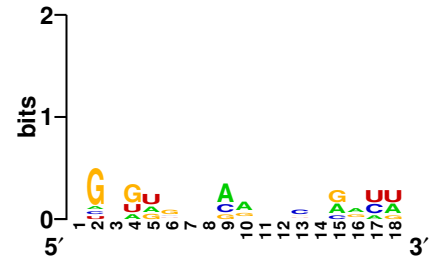
19-mers:



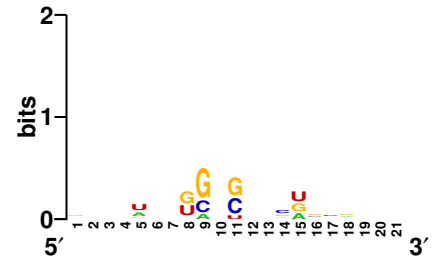
20-mers:



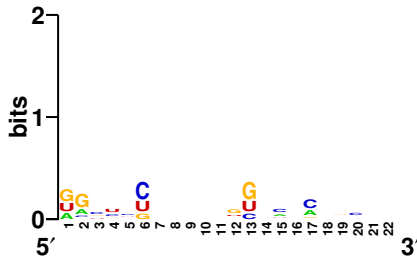
18-mers:



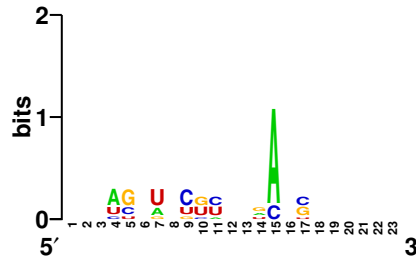
21-mers:



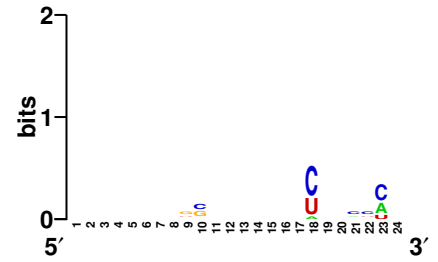
22-mers:



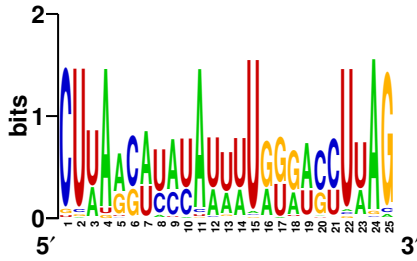
23-mers:



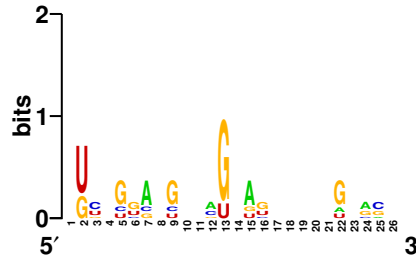
24-mers:



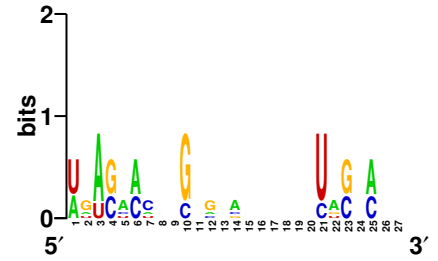
25-mers:



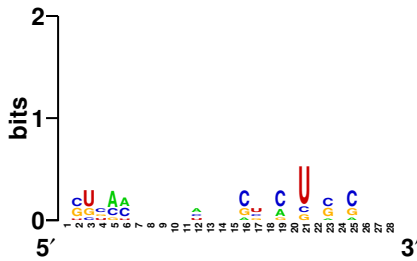
26-mers:



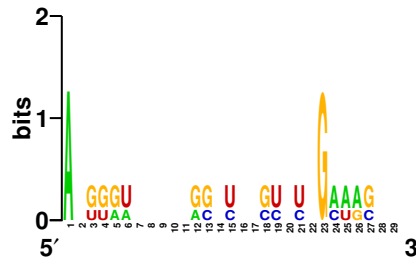
27-mers:



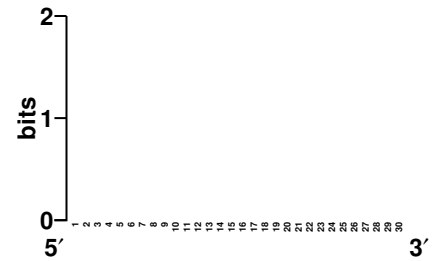
28-mers:



29-mers:

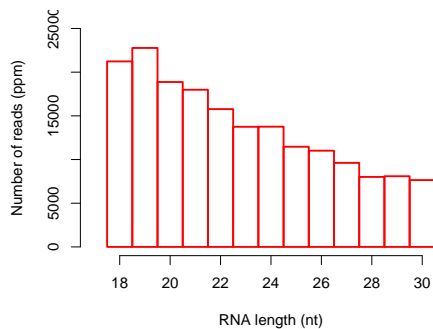


30-mers:

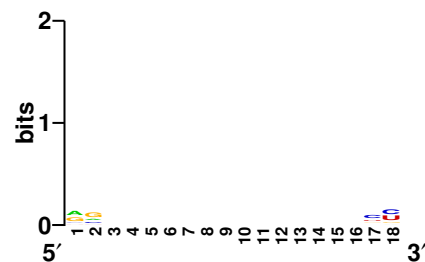


### 7.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

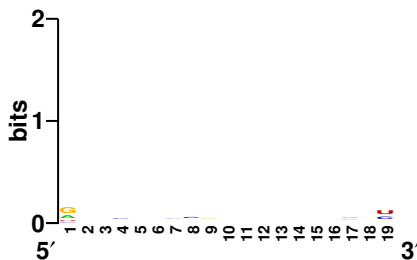
Embryo 8h, library 3:



18-mers:



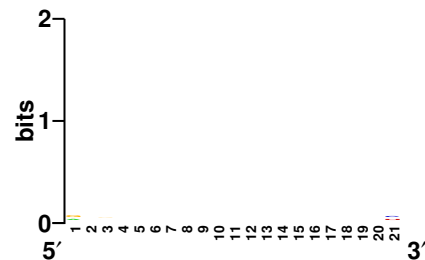
19-mers:



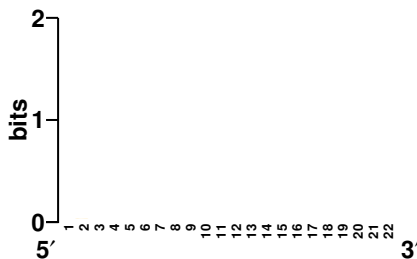
20-mers:



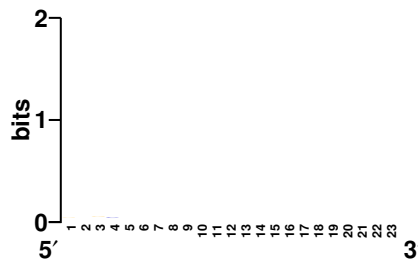
21-mers:



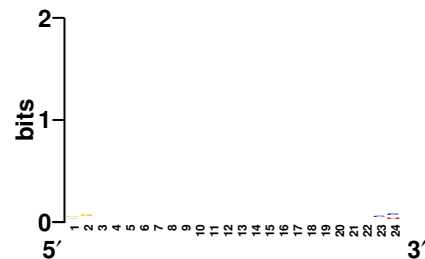
22-mers:



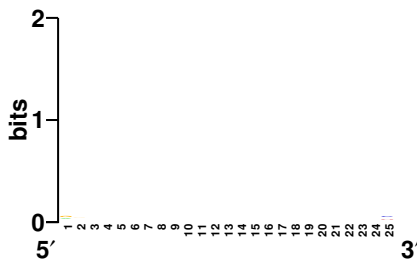
23-mers:



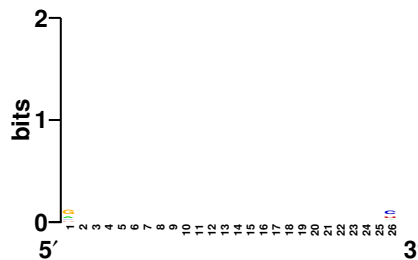
24-mers:



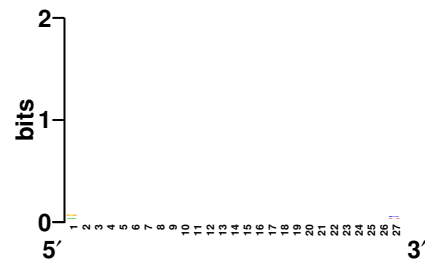
25-mers:



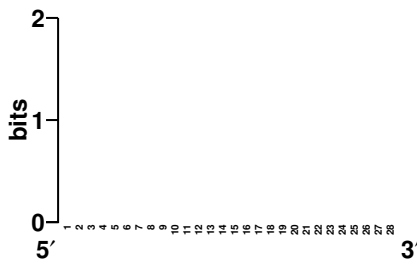
26-mers:



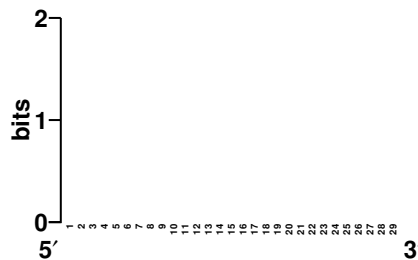
27-mers:



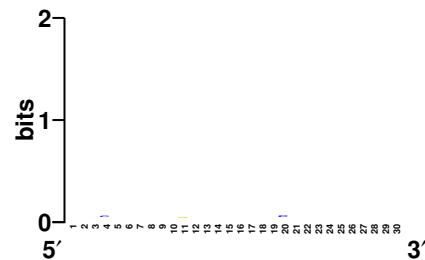
28-mers:



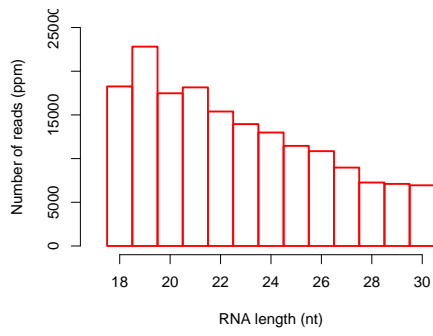
29-mers:



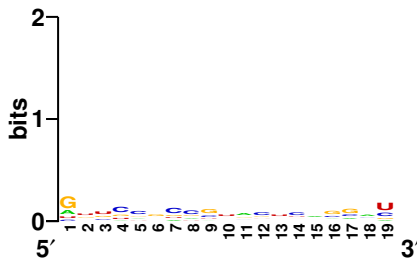
30-mers:



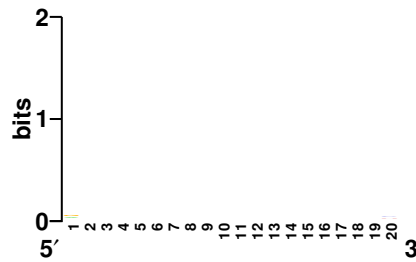
Embryo 15h, library 3:



19-mers:



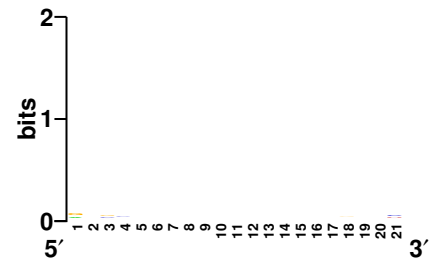
20-mers:



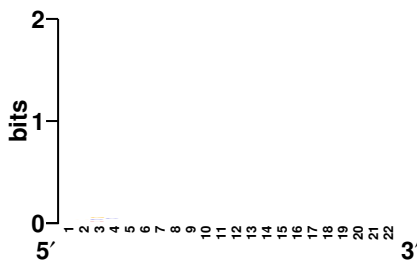
18-mers:



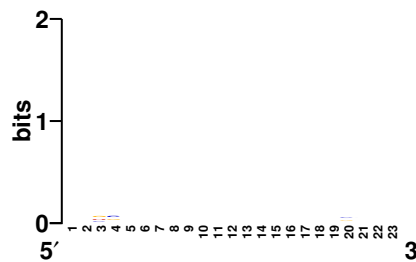
21-mers:



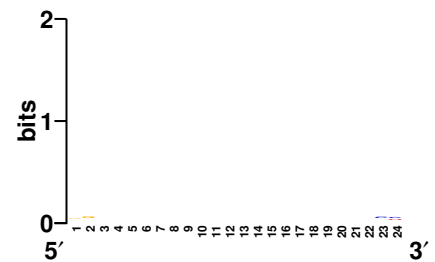
22-mers:



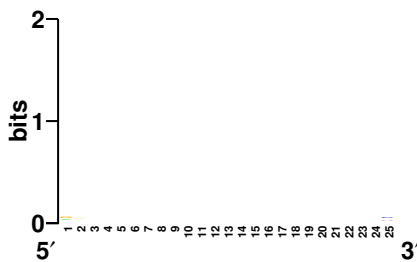
23-mers:



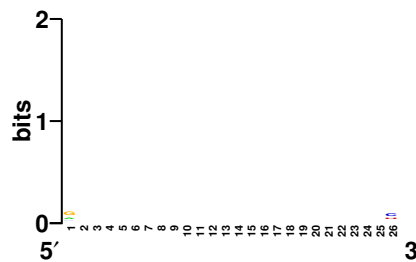
24-mers:



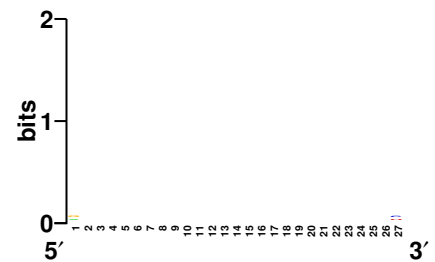
25-mers:



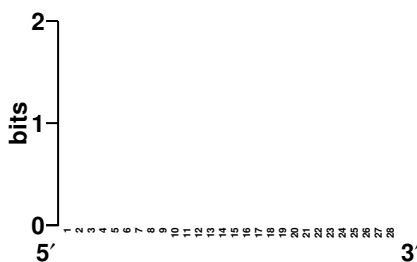
26-mers:



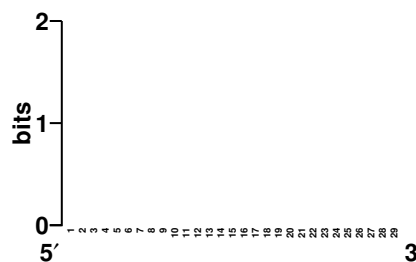
27-mers:



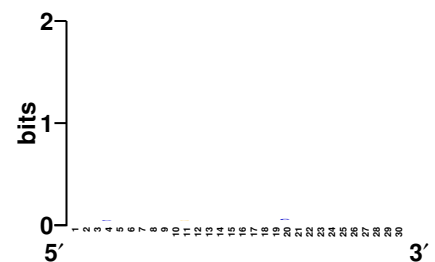
28-mers:



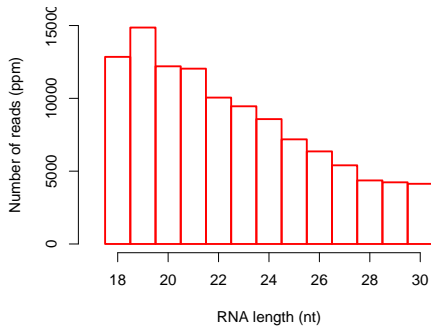
29-mers:



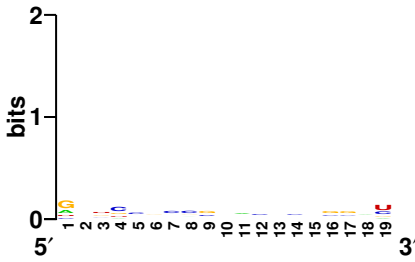
30-mers:



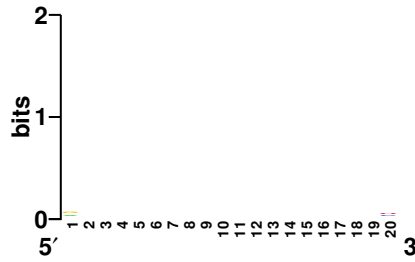
Embryo 36h, library 3:



19-mers:



20-mers:



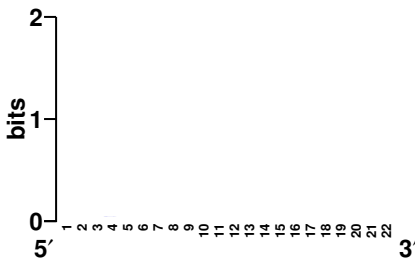
18-mers:



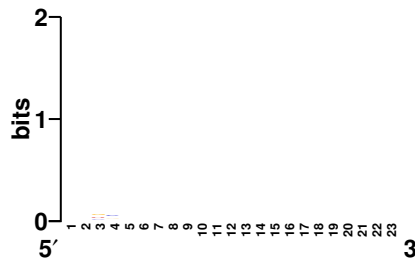
21-mers:



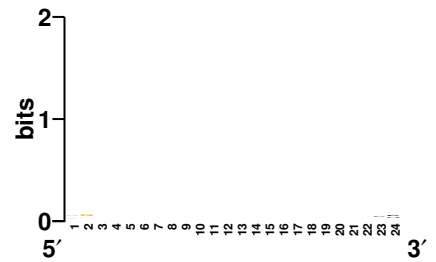
22-mers:



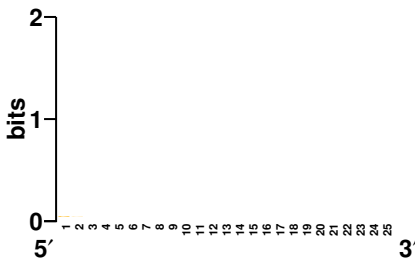
23-mers:



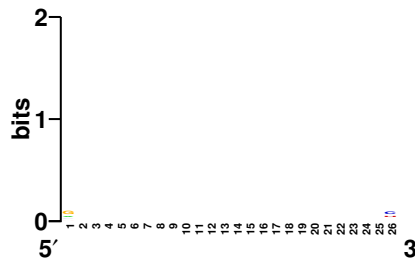
24-mers:



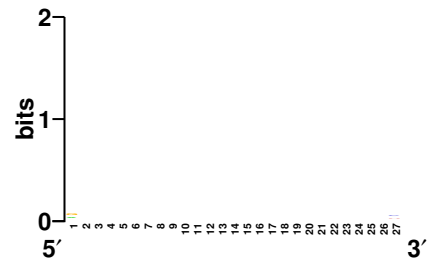
25-mers:



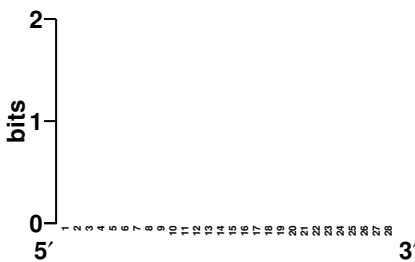
26-mers:



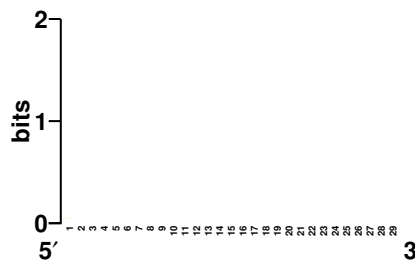
27-mers:



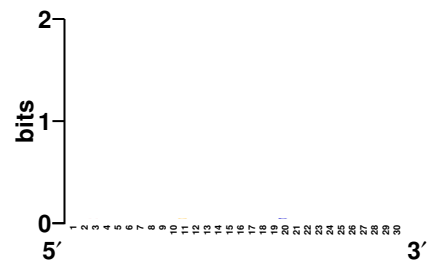
28-mers:



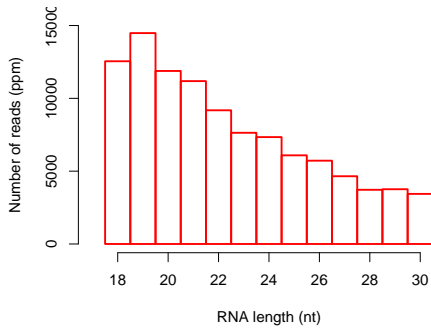
29-mers:



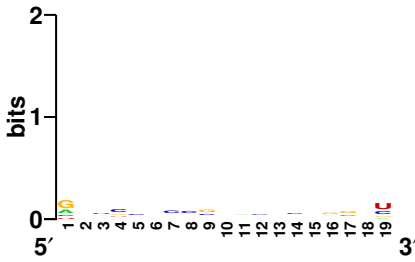
30-mers:



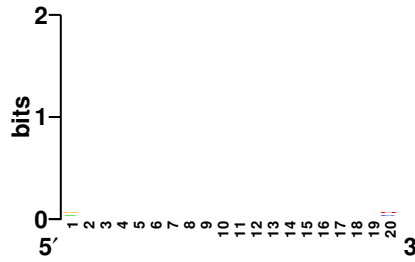
Embryo 60h, library 3:



19-mers:



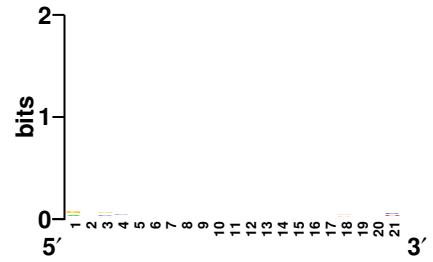
20-mers:



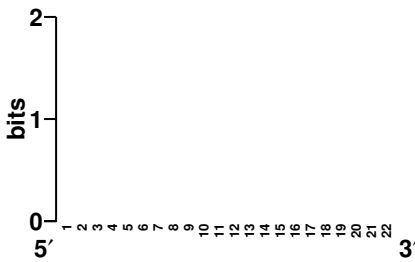
18-mers:



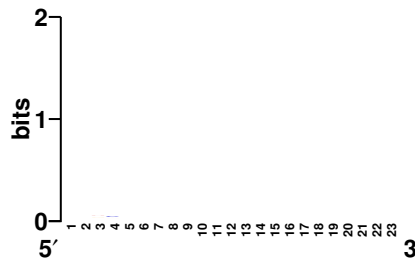
21-mers:



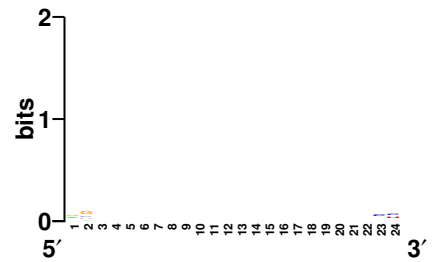
22-mers:



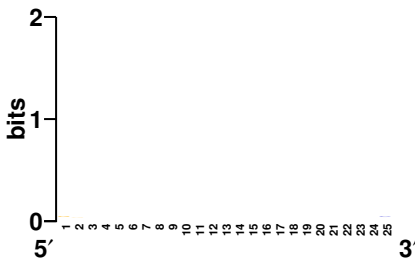
23-mers:



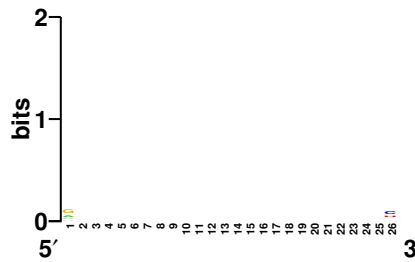
24-mers:



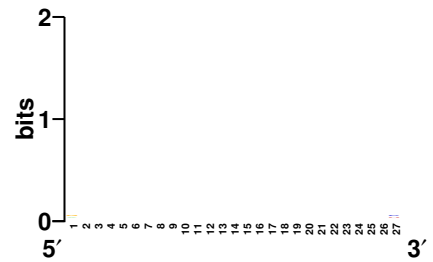
25-mers:



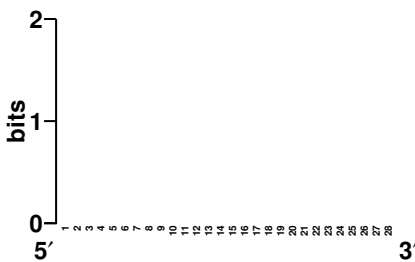
26-mers:



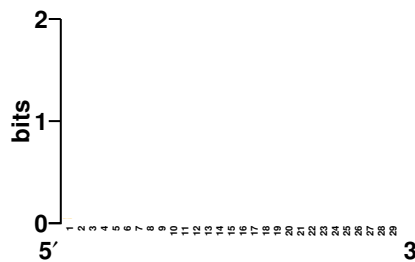
27-mers:



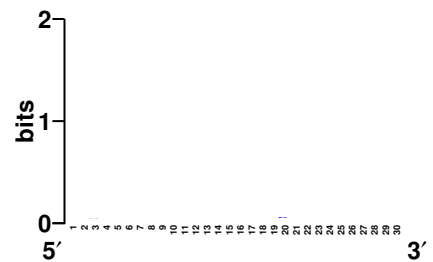
28-mers:



29-mers:

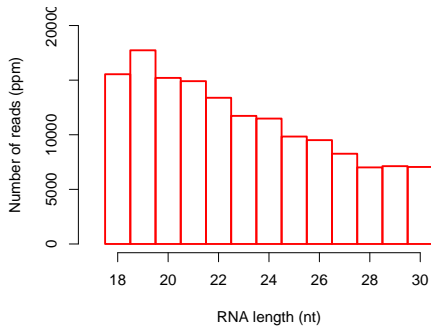


30-mers:

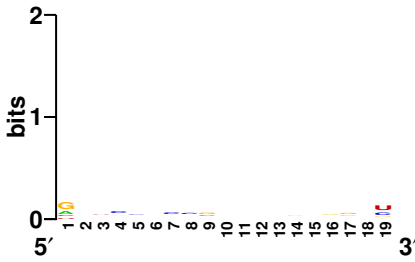




Adult female, library 3:



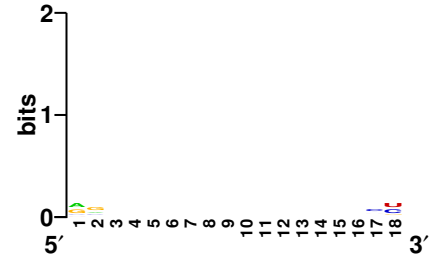
19-mers:



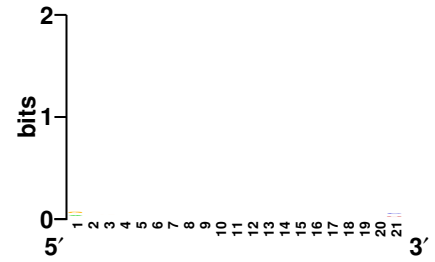
20-mers:



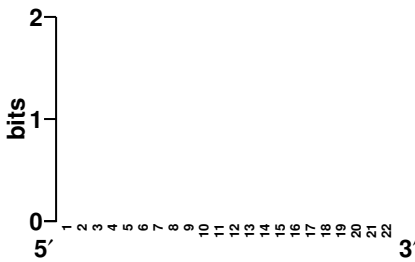
18-mers:



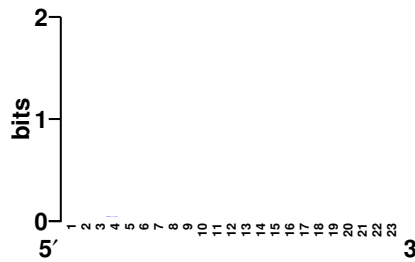
21-mers:



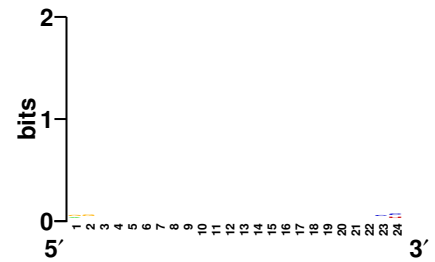
22-mers:



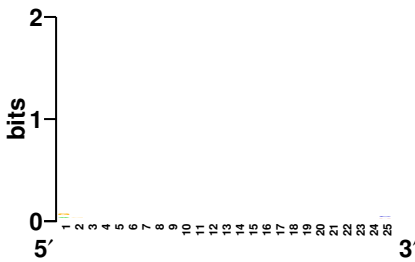
23-mers:



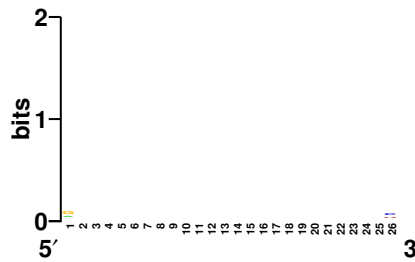
24-mers:



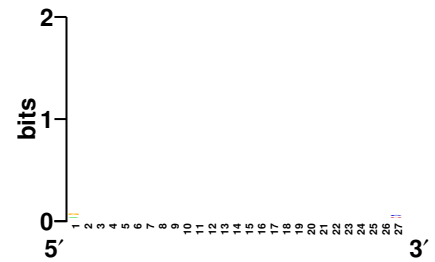
25-mers:



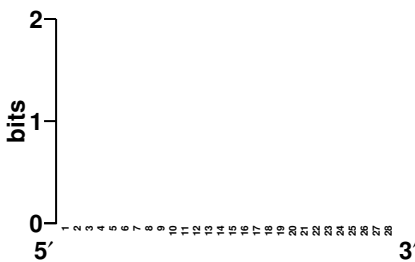
26-mers:



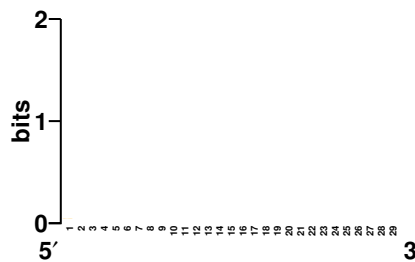
27-mers:



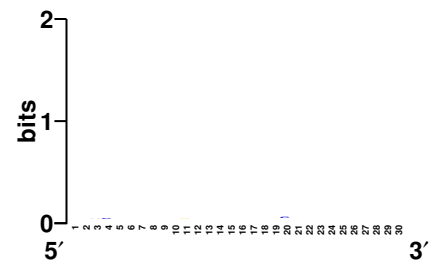
28-mers:



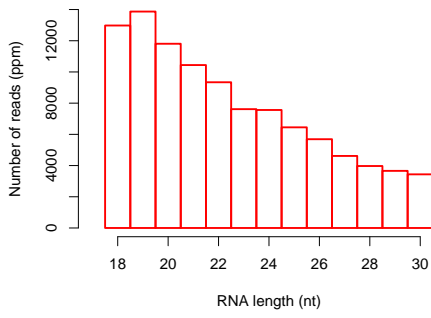
29-mers:



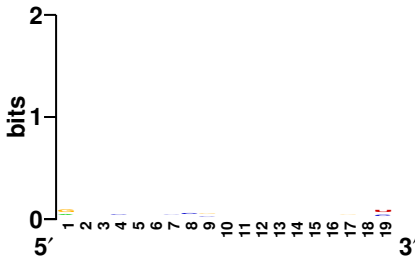
30-mers:



Adult male, library 3:



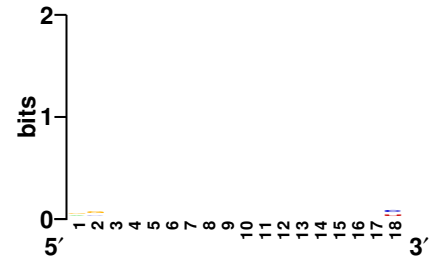
19-mers:



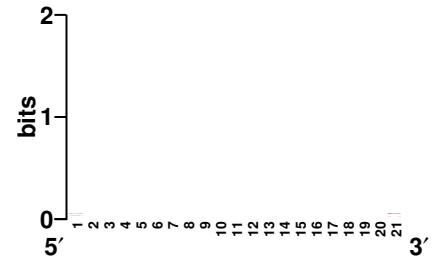
20-mers:



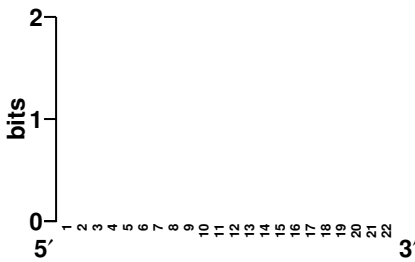
18-mers:



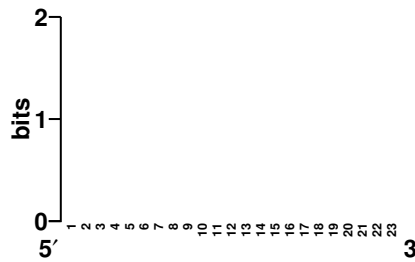
21-mers:



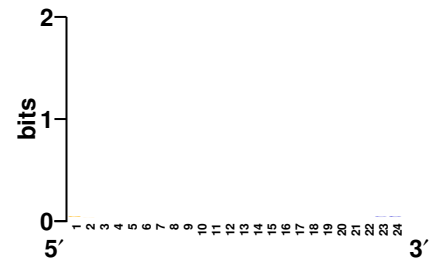
22-mers:



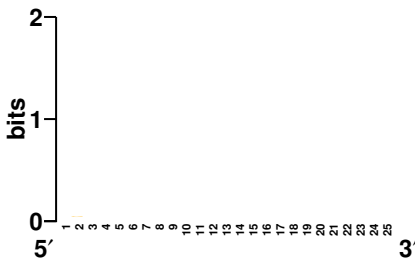
23-mers:



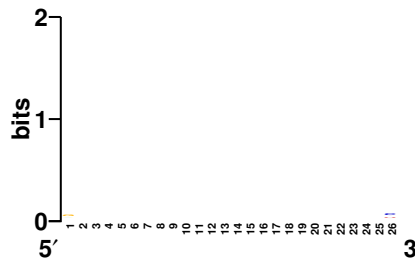
24-mers:



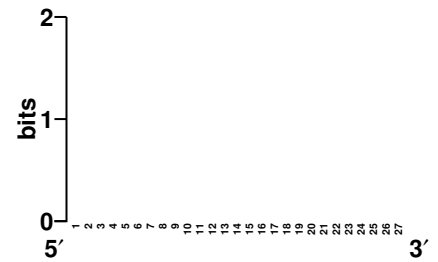
25-mers:



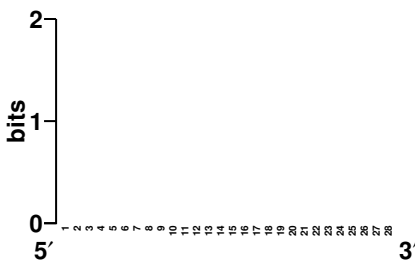
26-mers:



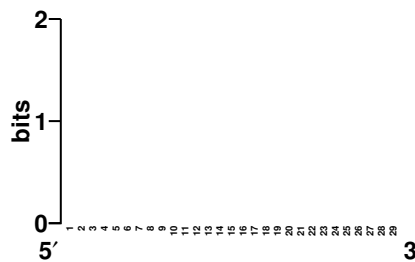
27-mers:



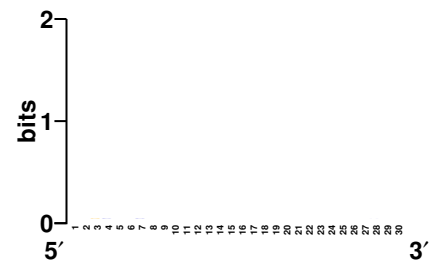
28-mers:



29-mers:

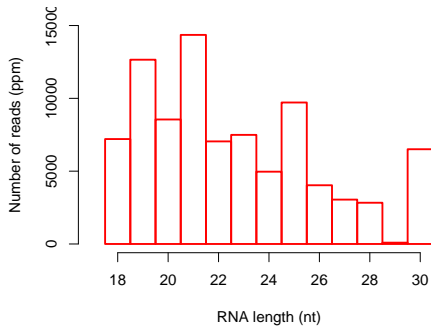


30-mers:

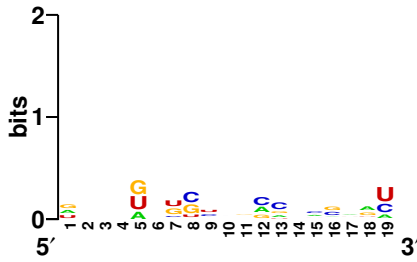
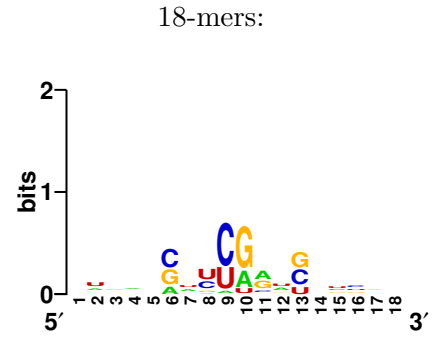




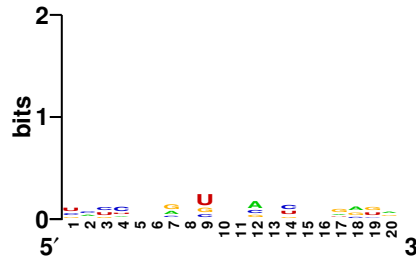
Embryo 15h, library 4:



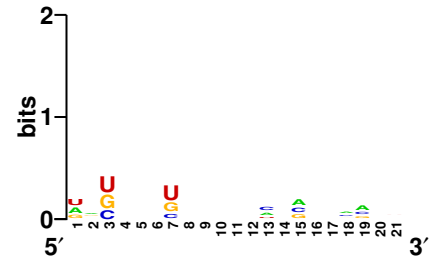
18-mers:



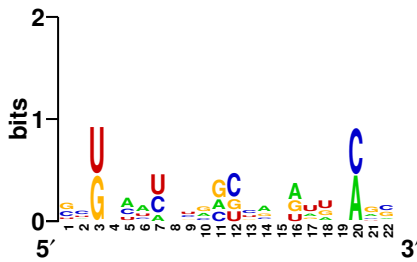
20-mers:



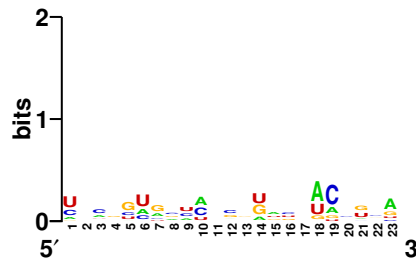
21-mers:



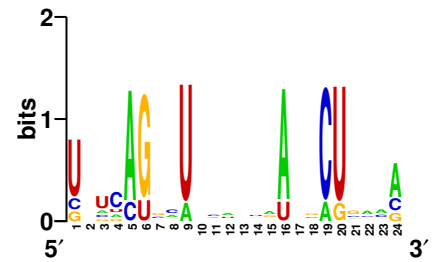
22-mers:



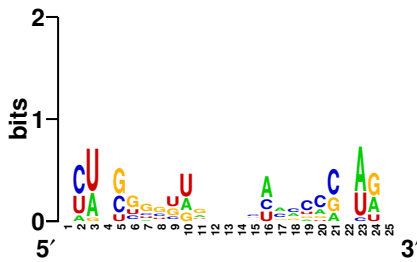
23-mers:



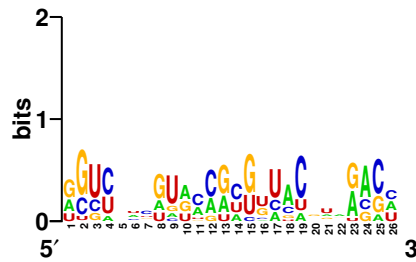
24-mers:



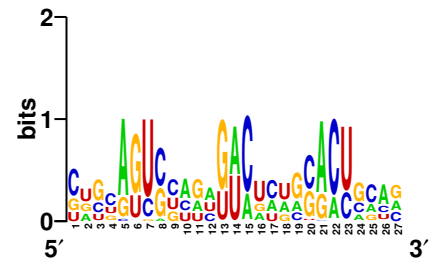
25-mers:



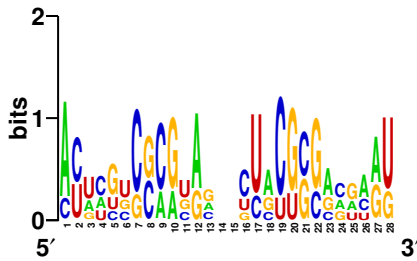
26-mers:



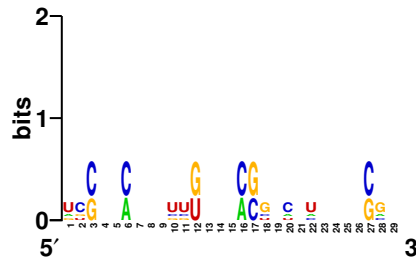
27-mers:



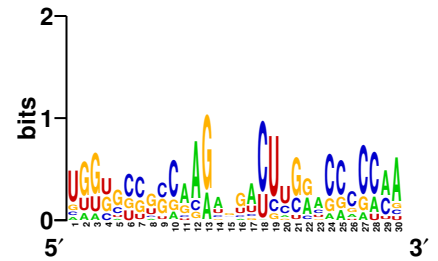
28-mers:



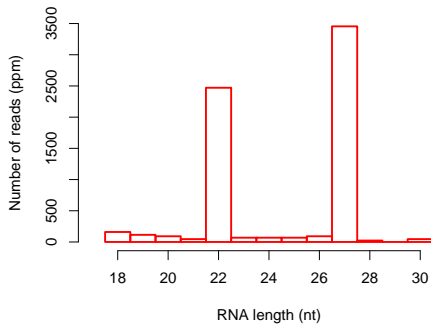
29-mers:



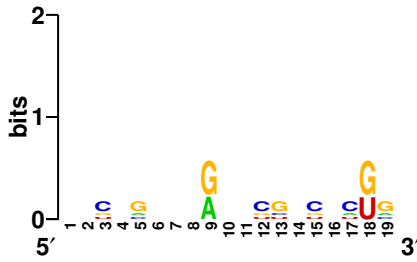
30-mers:



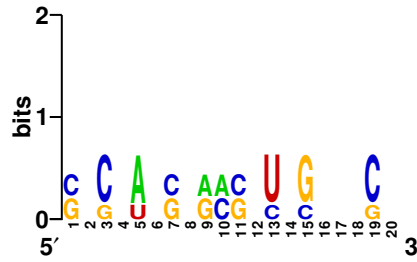
Embryo 36h, library 4:



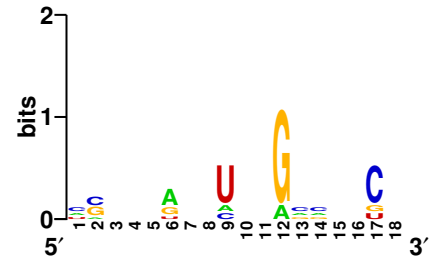
19-mers:



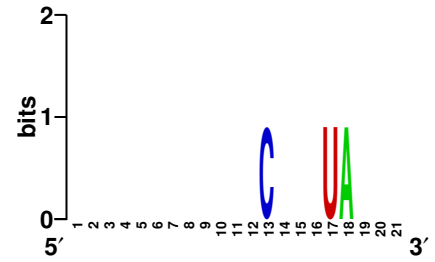
20-mers:



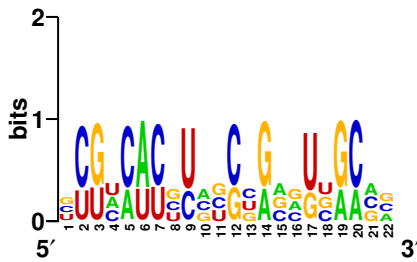
18-mers:



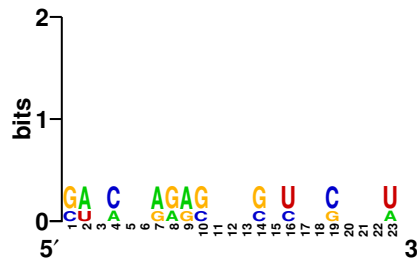
21-mers:



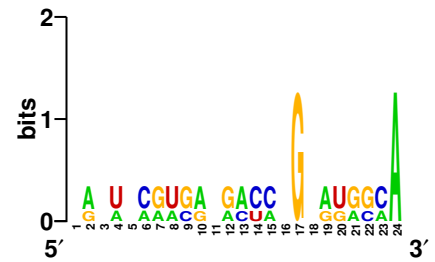
22-mers:



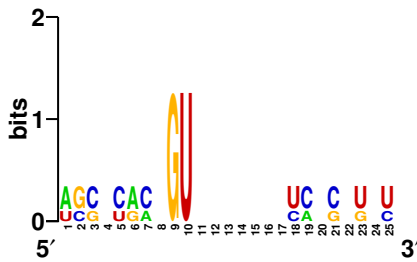
23-mers:



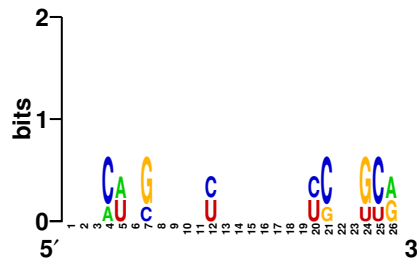
24-mers:



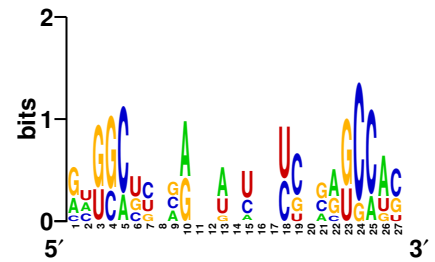
25-mers:



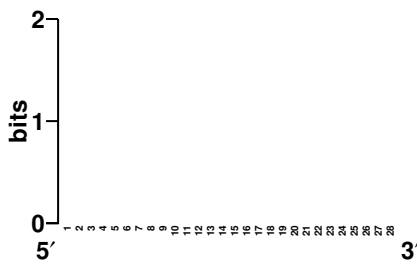
26-mers:



27-mers:



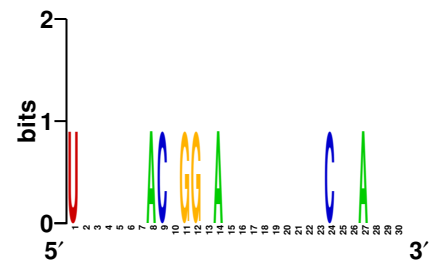
28-mers:



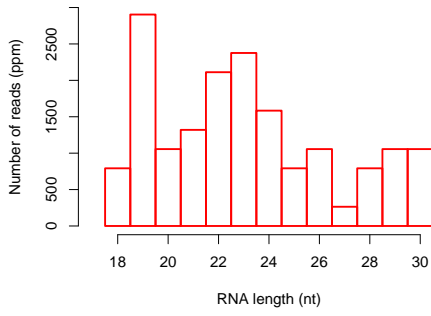
29-mers:

(no read)

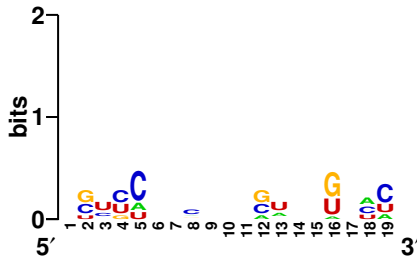
30-mers:



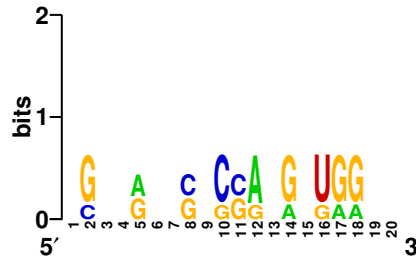
Embryo 60h, library 4:



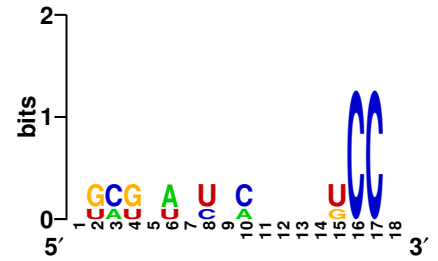
19-mers:



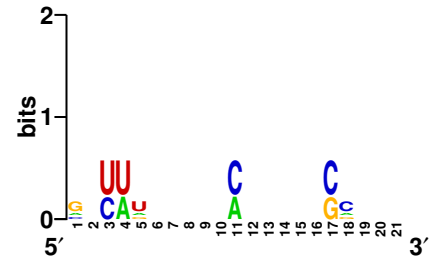
20-mers:



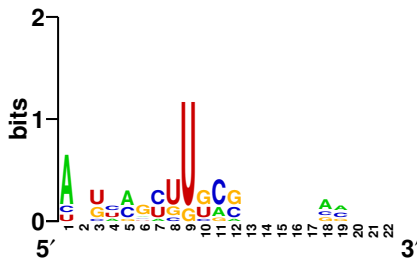
18-mers:



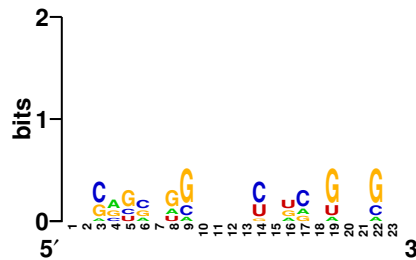
21-mers:



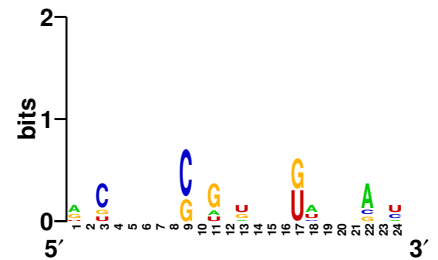
22-mers:



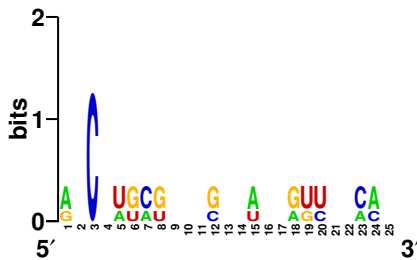
23-mers:



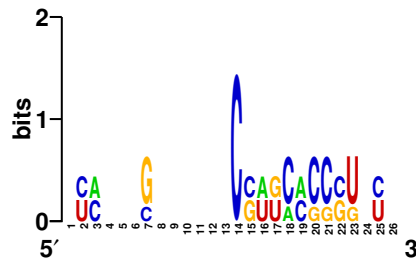
24-mers:



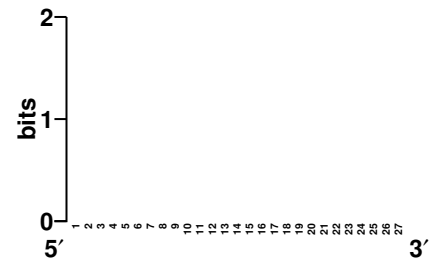
25-mers:



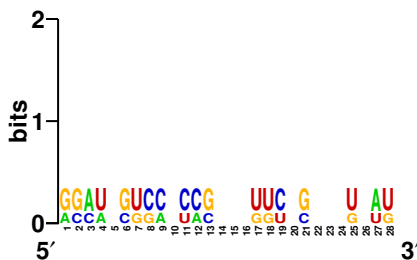
26-mers:



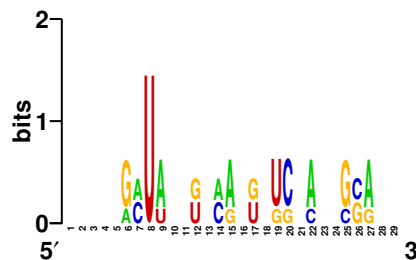
27-mers:



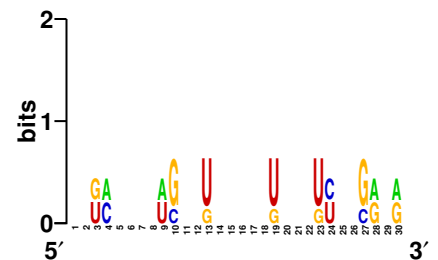
28-mers:



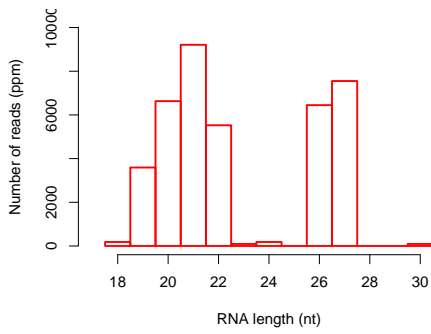
29-mers:



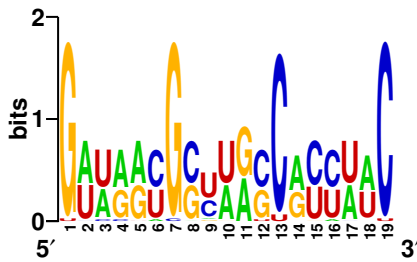
30-mers:



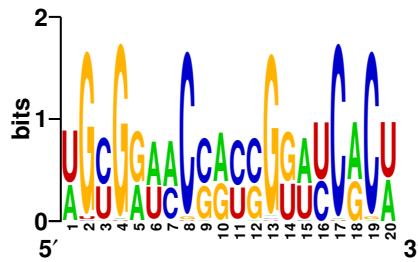
Adult female, library 4:



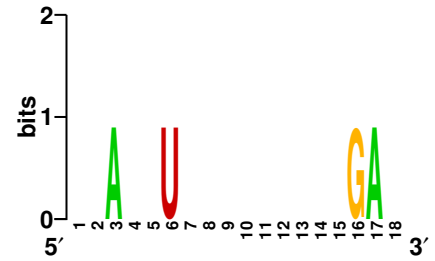
19-mers:



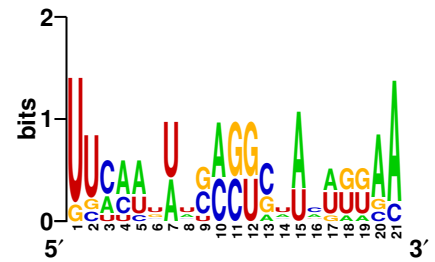
20-mers:



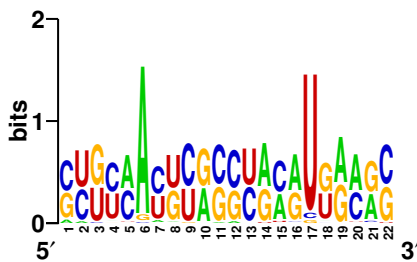
18-mers:



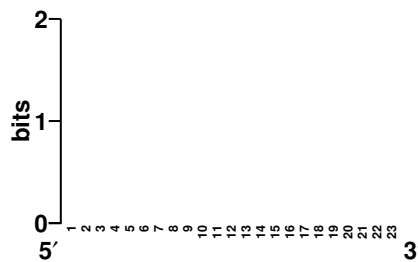
21-mers:



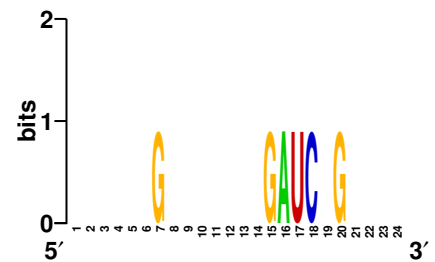
22-mers:



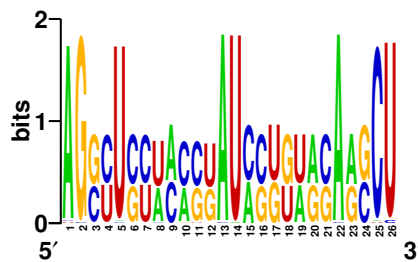
23-mers:



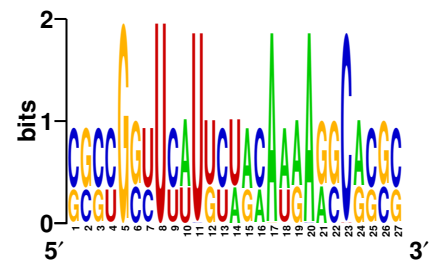
24-mers:



25-mers:



27-mers:

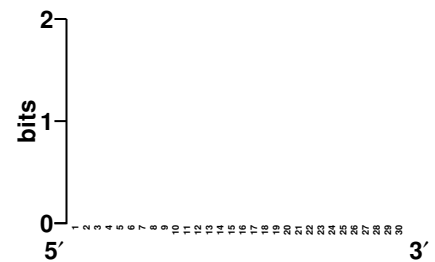


(no read)

28-mers:

29-mers:

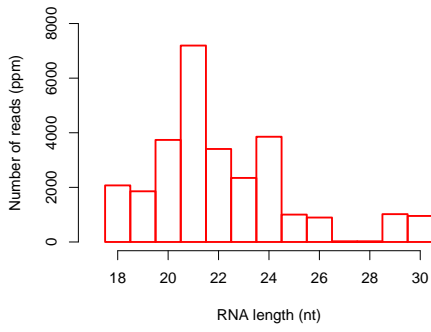
30-mers:



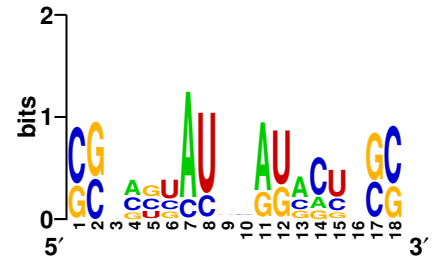
(no read)

(no read)

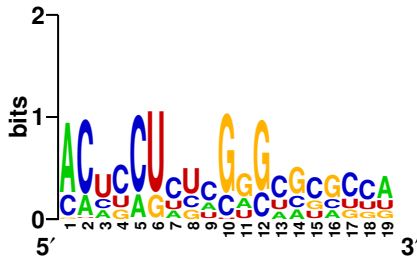
Adult male, library 4:



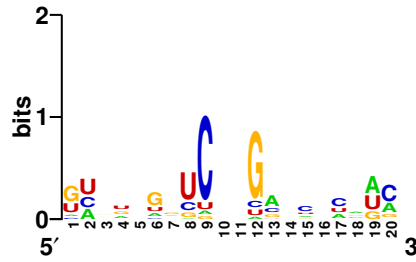
18-mers:



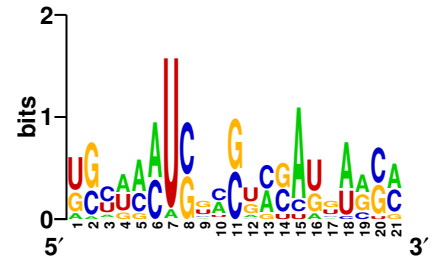
19-mers:



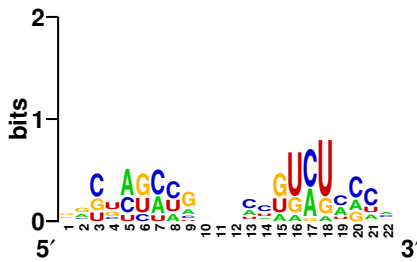
20-mers:



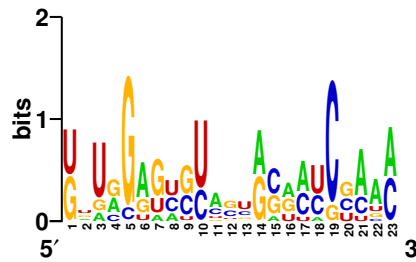
21-mers:



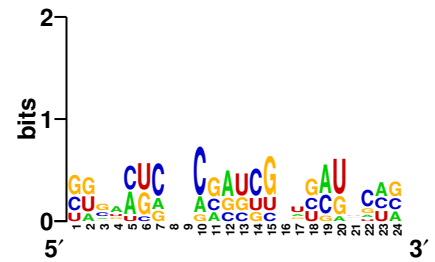
22-mers:



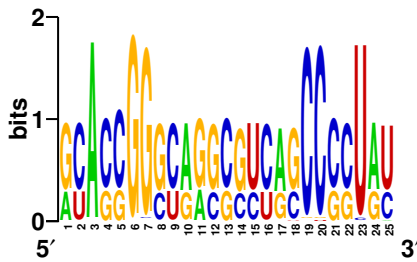
23-mers:



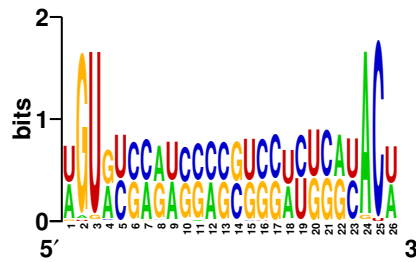
24-mers:



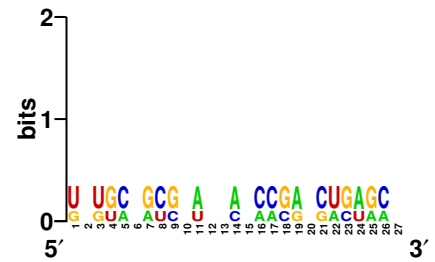
25-mers:



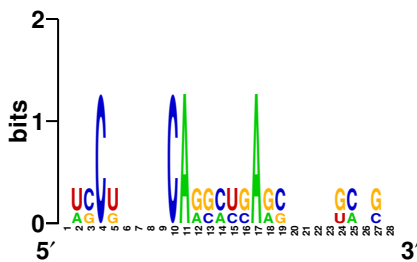
26-mers:



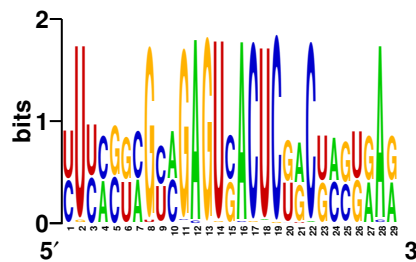
27-mers:



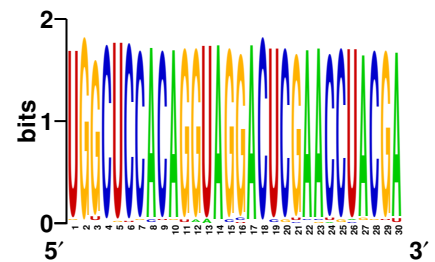
28-mers:



29-mers:



30-mers:

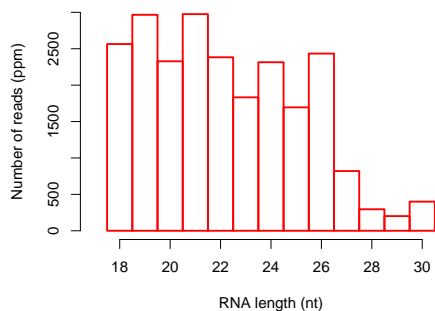




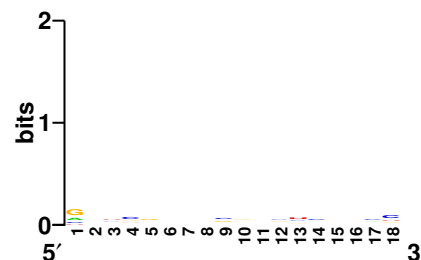
## 8 Extragenomic and extratranscriptomic reads matching the *Vibrio alginolyticus* genome

### 8.1 Libraries #1 (total 5' monophosphorylated small RNAs)

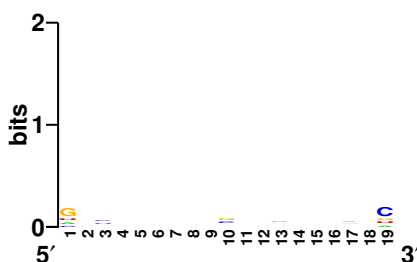
Embryo 8h, library 1:



18-mers:



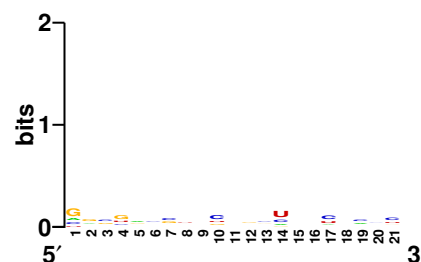
19-mers:



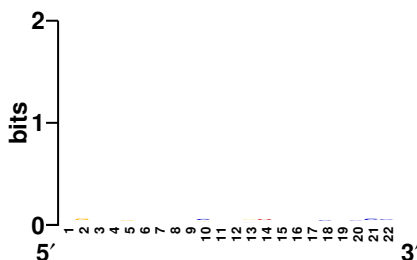
20-mers:



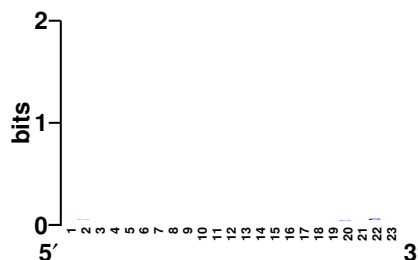
21-mers:



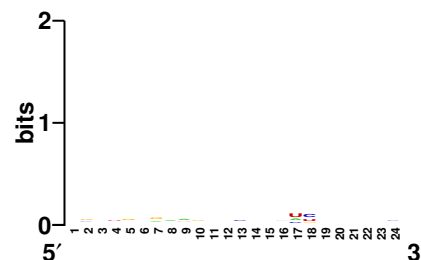
22-mers:



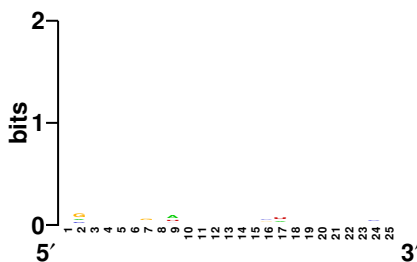
23-mers:



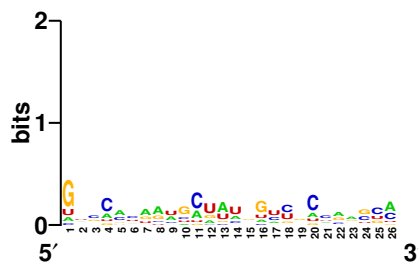
24-mers:



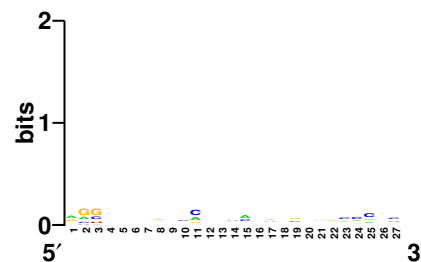
25-mers:



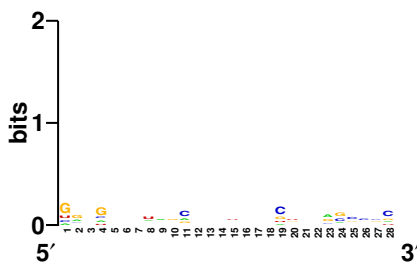
26-mers:



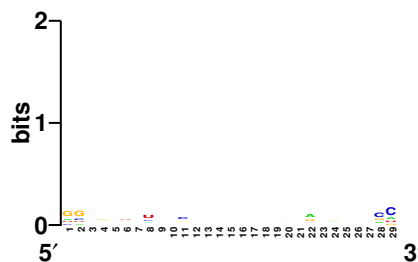
27-mers:



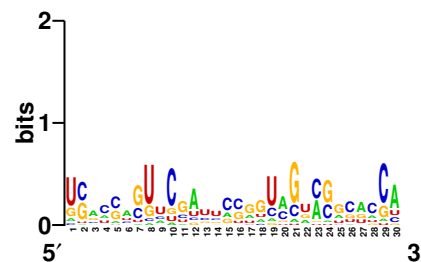
28-mers:



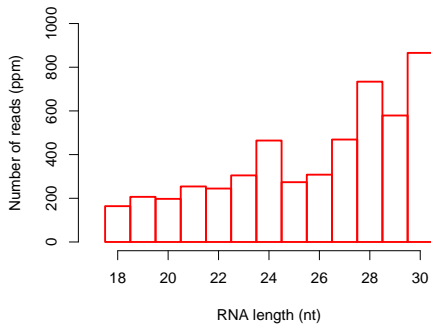
29-mers:



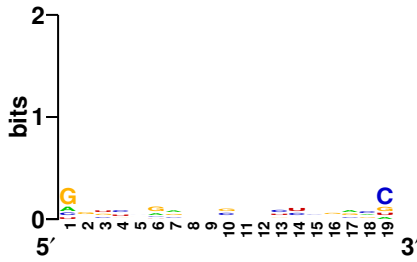
30-mers:



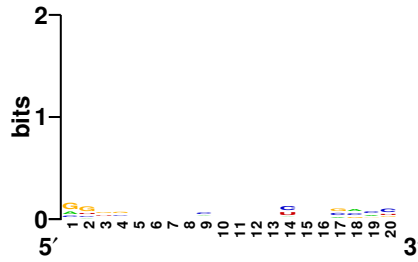
Embryo 15h, library 1:



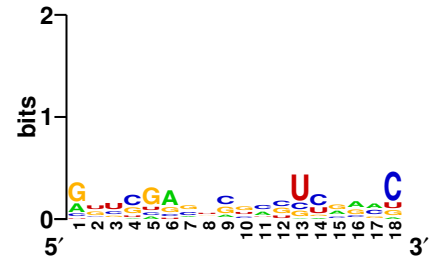
19-mers:



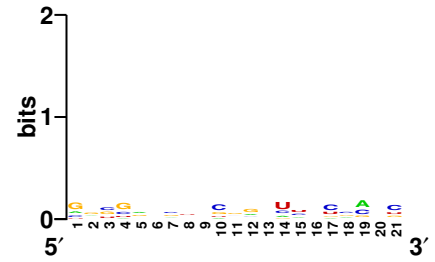
20-mers:



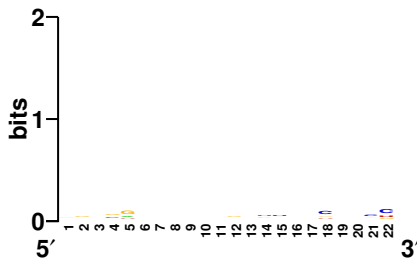
18-mers:



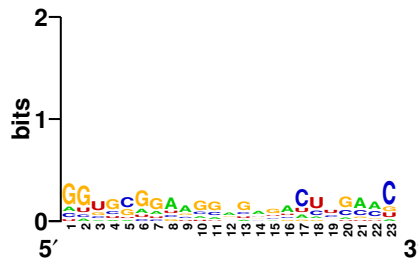
21-mers:



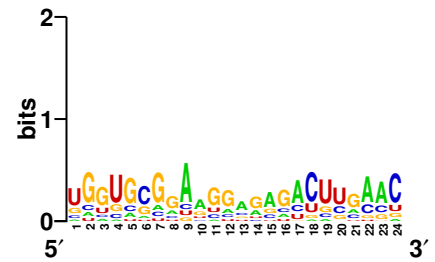
22-mers:



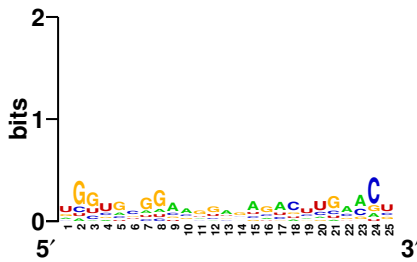
23-mers:



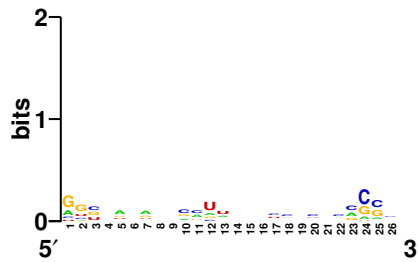
24-mers:



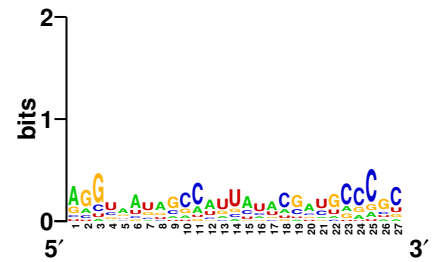
25-mers:



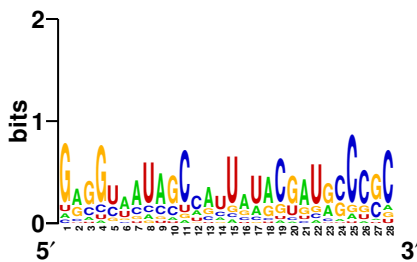
26-mers:



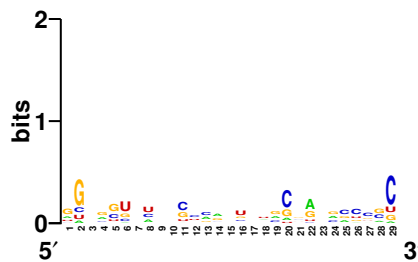
27-mers:



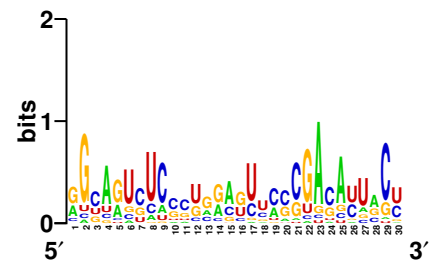
28-mers:



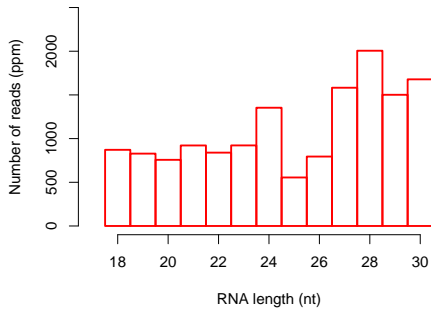
29-mers:



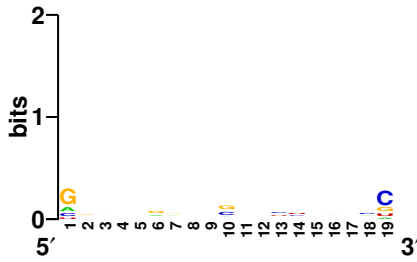
30-mers:



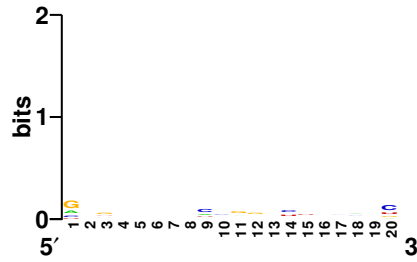
Embryo 36h, library 1:



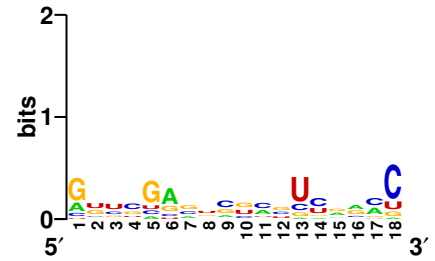
19-mers:



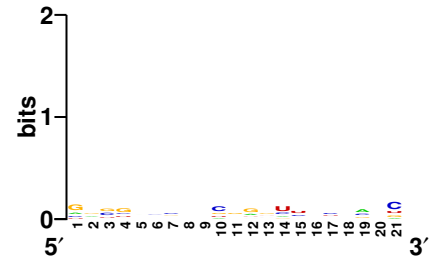
20-mers:



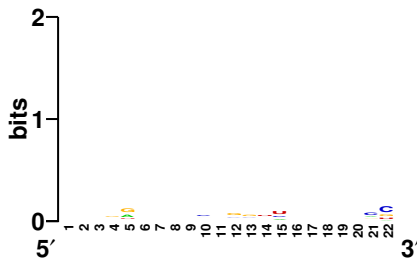
18-mers:



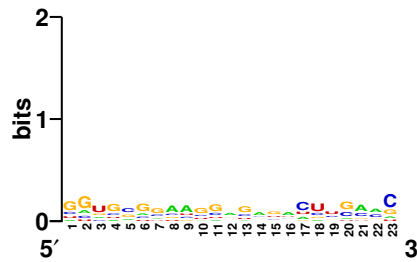
21-mers:



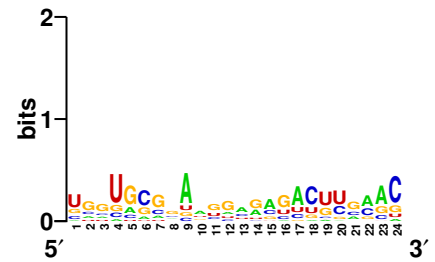
22-mers:



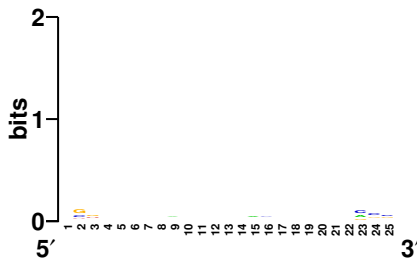
23-mers:



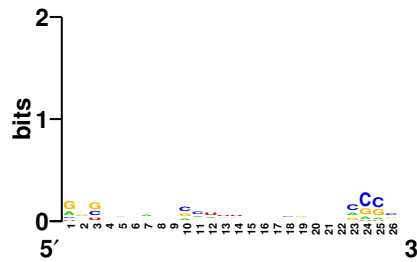
24-mers:



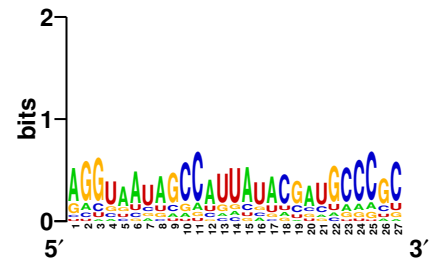
25-mers:



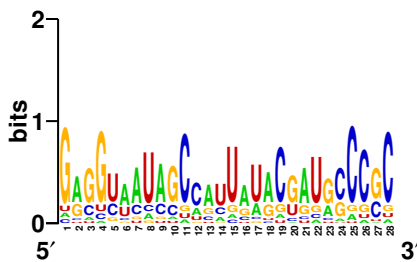
26-mers:



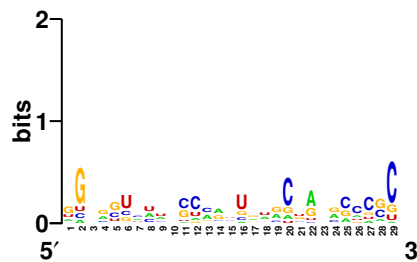
27-mers:



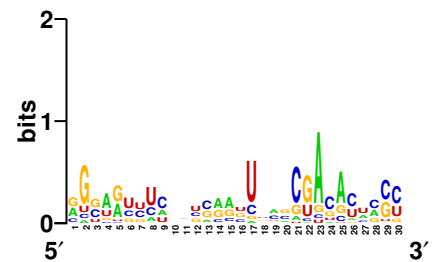
28-mers:



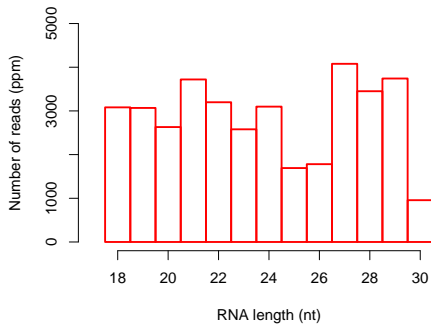
29-mers:



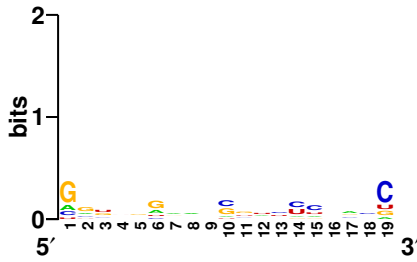
30-mers:



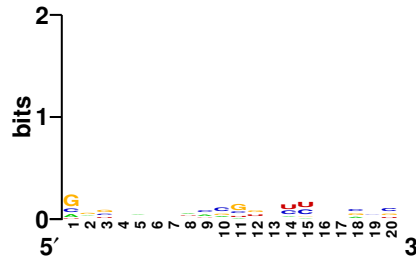
Embryo 60h, library 1:



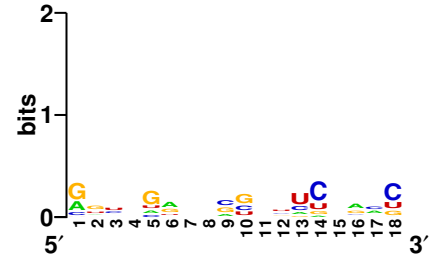
19-mers:



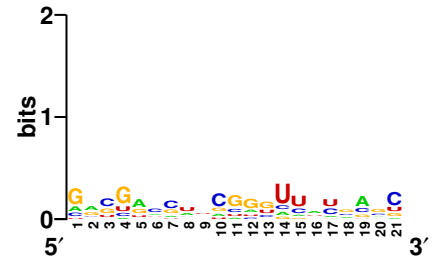
20-mers:



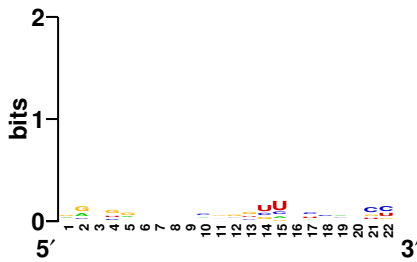
18-mers:



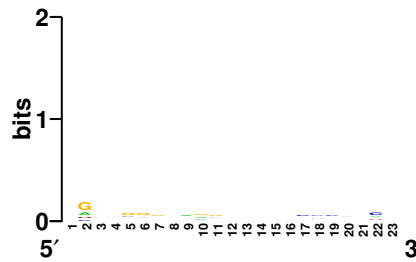
21-mers:



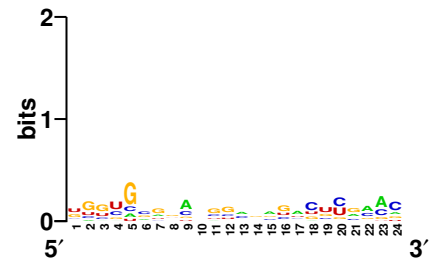
22-mers:



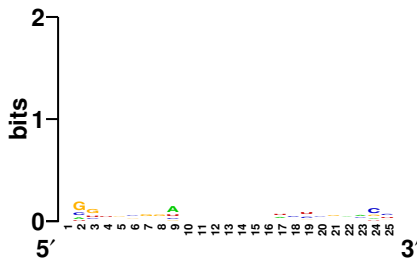
23-mers:



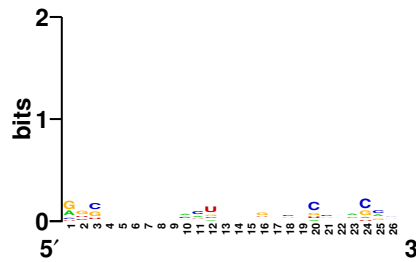
24-mers:



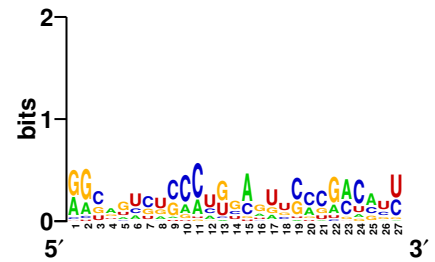
25-mers:



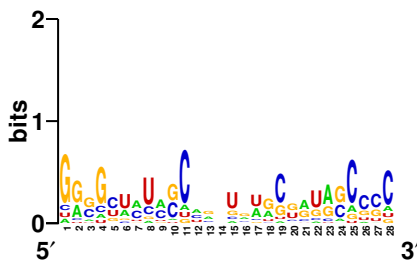
26-mers:



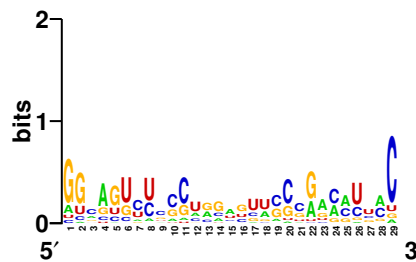
27-mers:



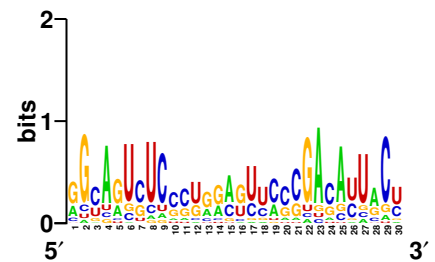
28-mers:



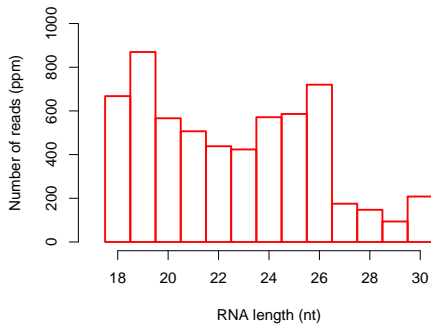
29-mers:



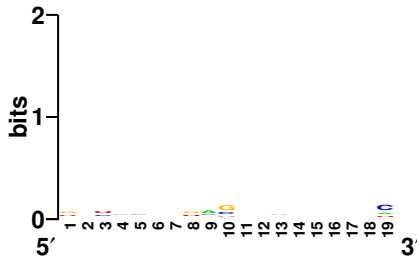
30-mers:



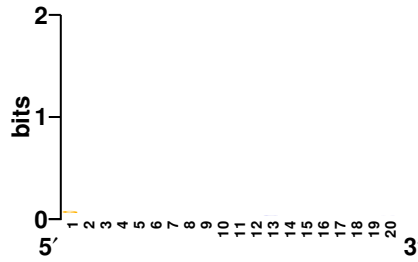
Adult female, library 1:



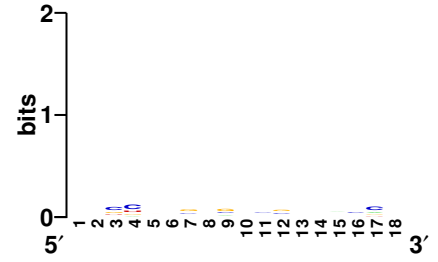
19-mers:



20-mers:



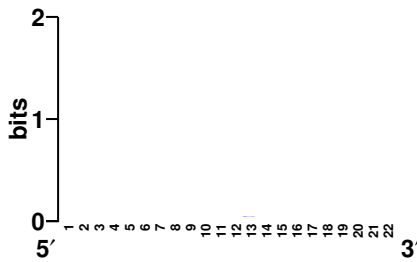
18-mers:



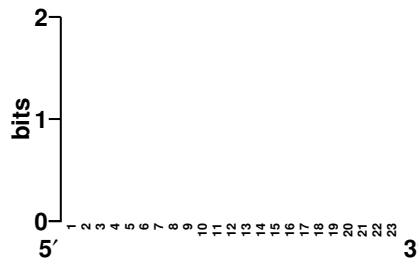
21-mers:



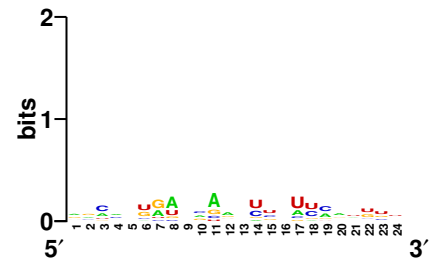
22-mers:



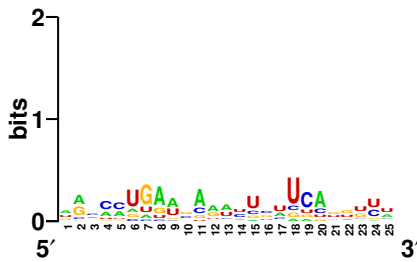
23-mers:



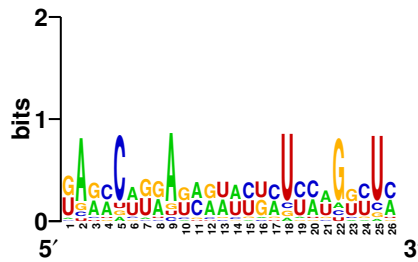
24-mers:



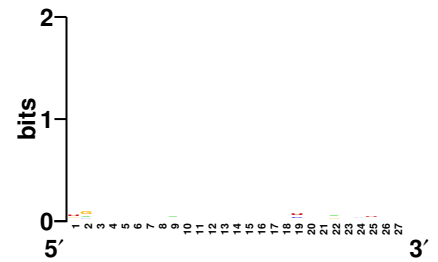
25-mers:



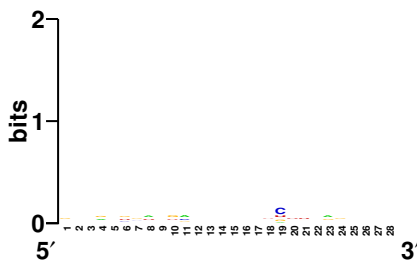
26-mers:



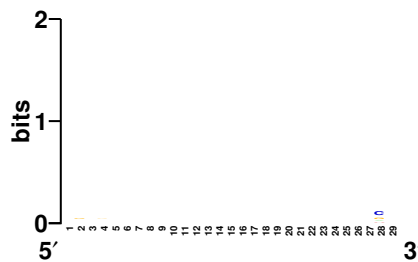
27-mers:



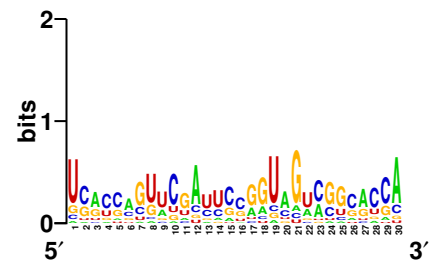
28-mers:



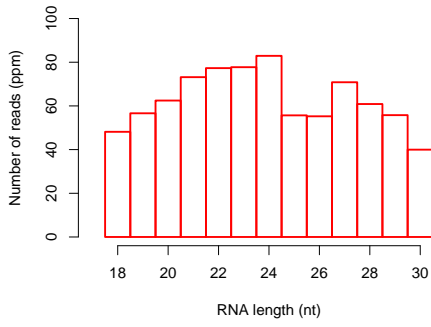
29-mers:



30-mers:



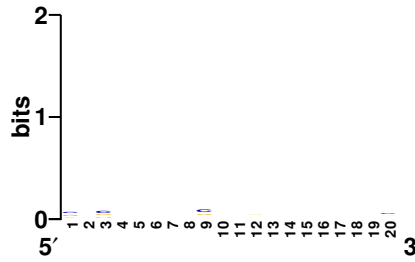
Adult male, library 1:



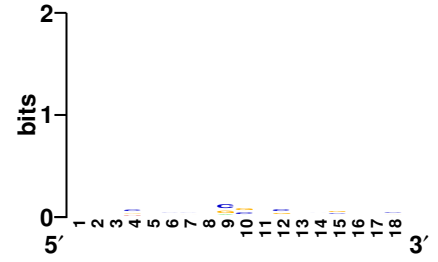
19-mers:



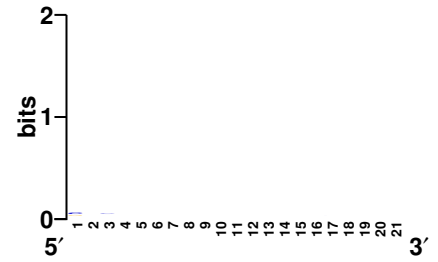
20-mers:



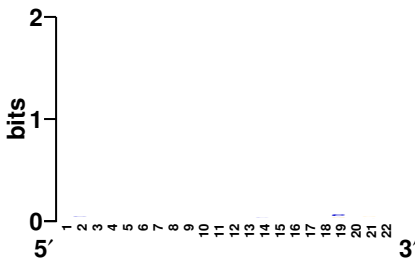
18-mers:



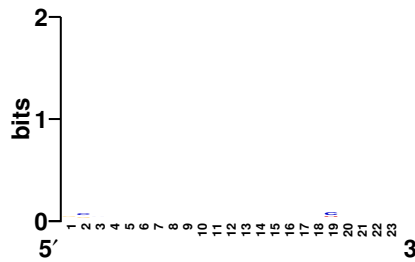
21-mers:



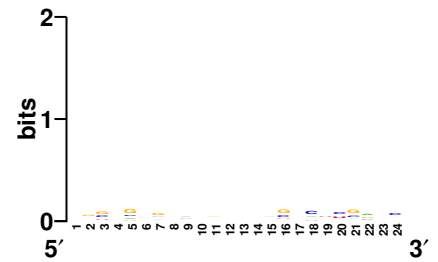
22-mers:



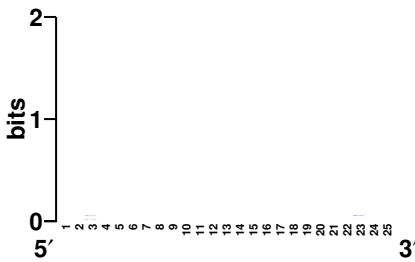
23-mers:



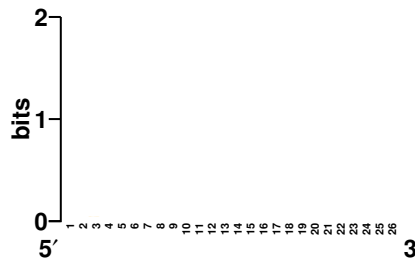
24-mers:



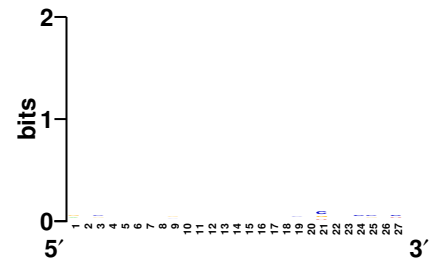
25-mers:



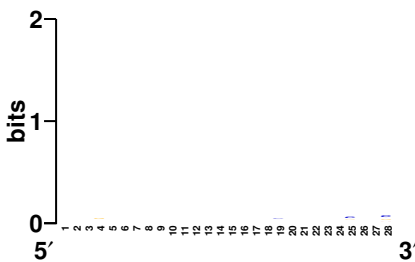
26-mers:



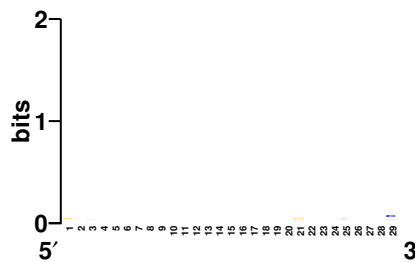
27-mers:



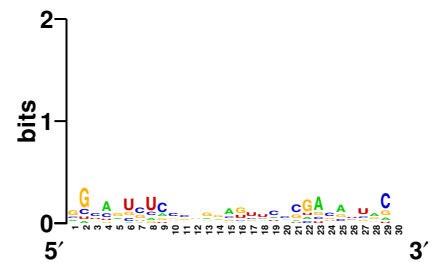
28-mers:



29-mers:

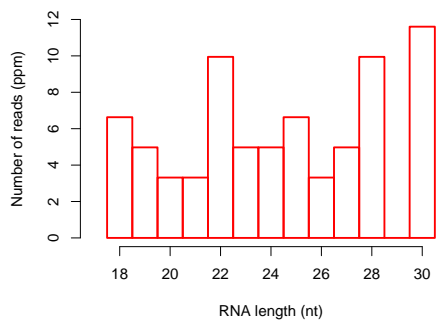


30-mers:

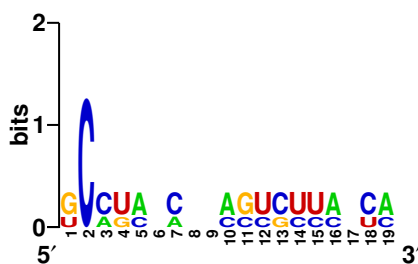


## 8.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

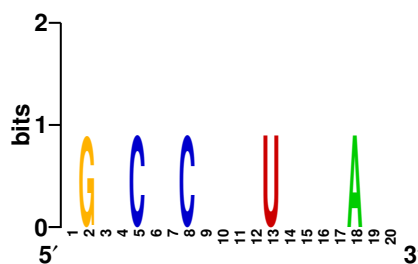
Embryo 8h, library 2:



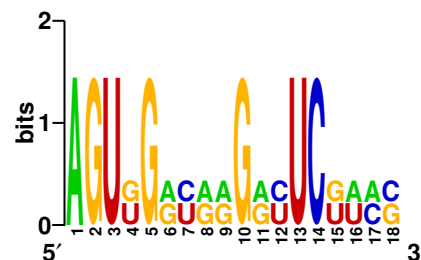
19-mers:



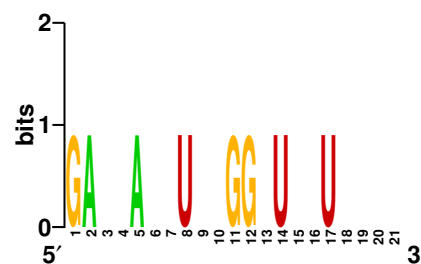
20-mers:



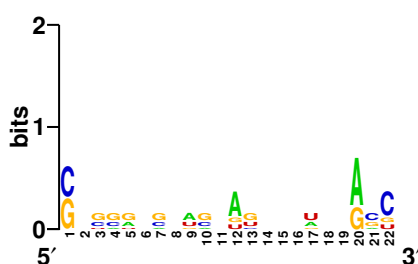
18-mers:



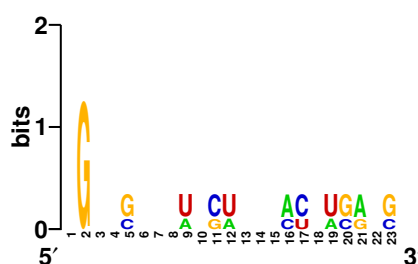
21-mers:



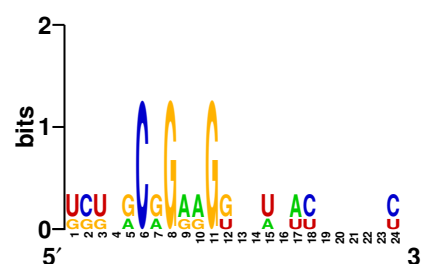
22-mers:



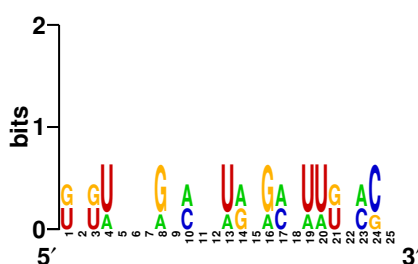
23-mers:



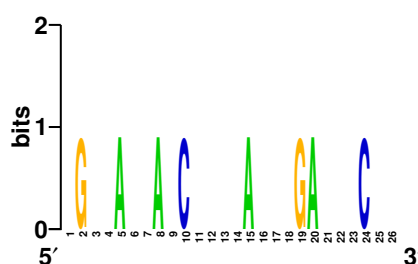
24-mers:



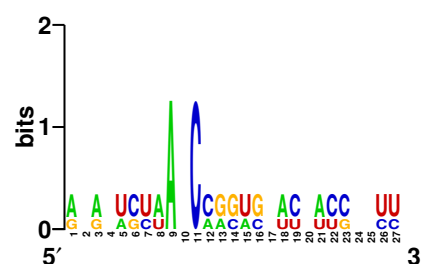
25-mers:



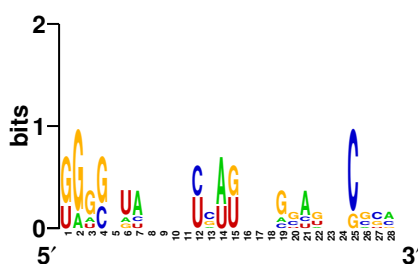
26-mers:



27-mers:



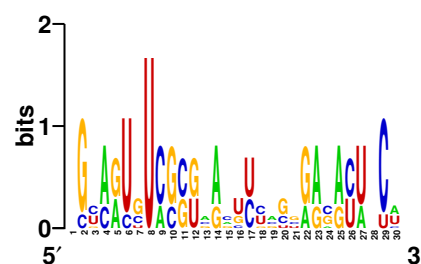
28-mers:



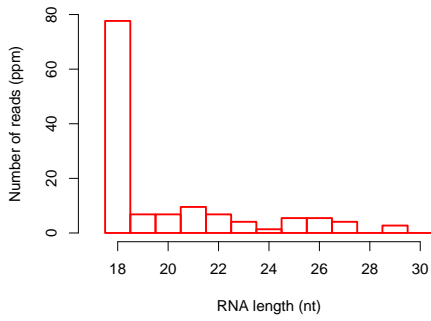
29-mers:

(no read)

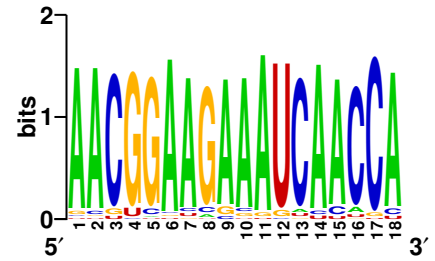
30-mers:



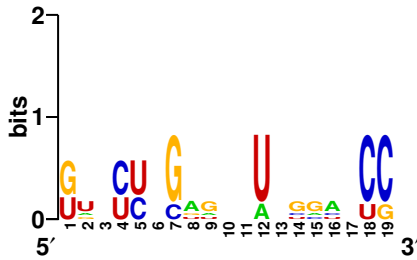
Embryo 15h, library 2:



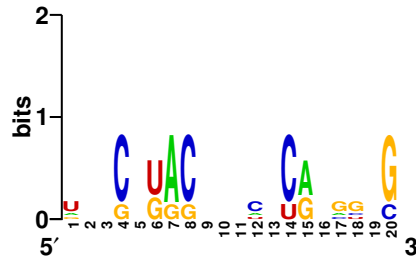
18-mers:



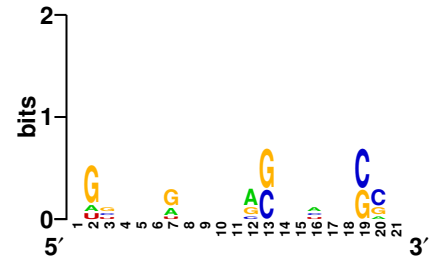
19-mers:



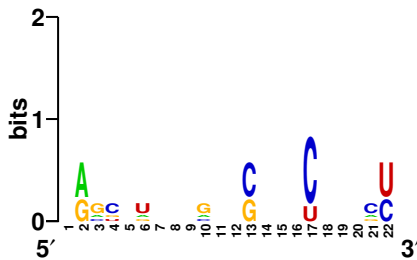
20-mers:



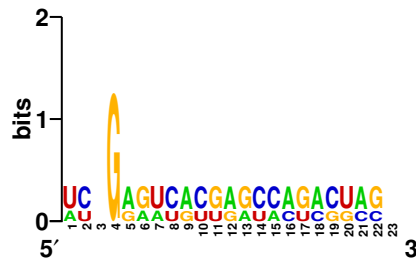
21-mers:



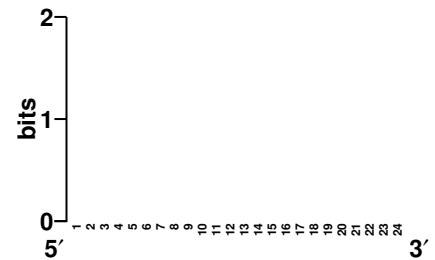
22-mers:



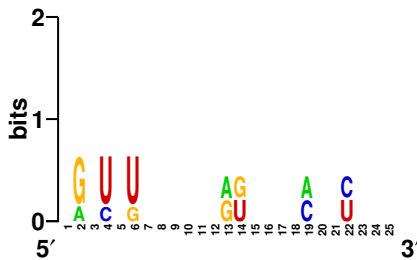
23-mers:



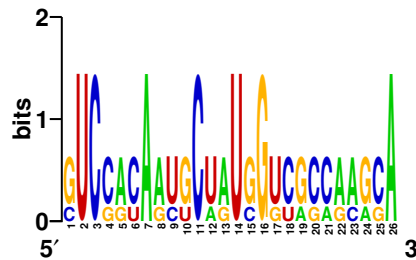
24-mers:



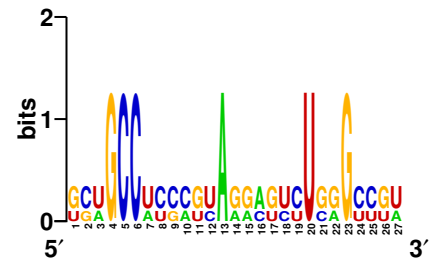
25-mers:



26-mers:



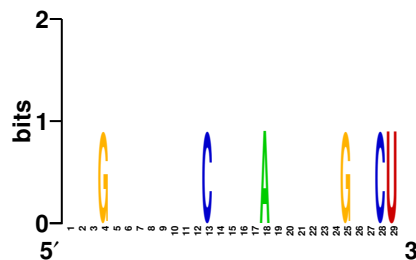
27-mers:



28-mers:



29-mers:



30-mers:

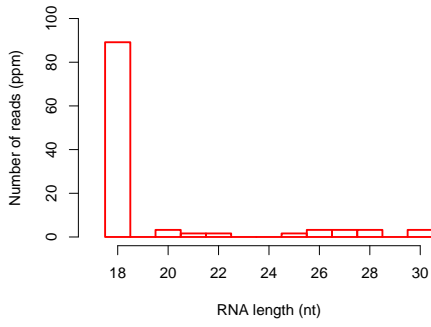


(no read)

(no read)

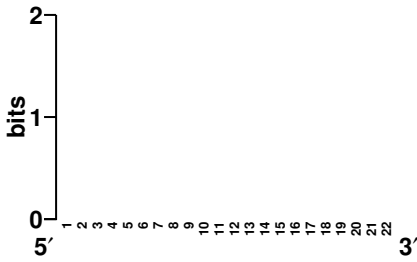


Embryo 36h, library 2:

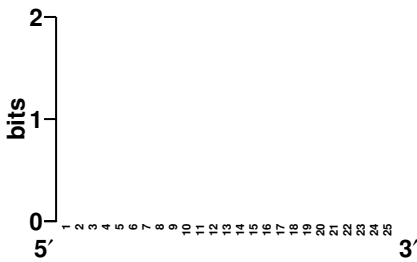


19-mers:

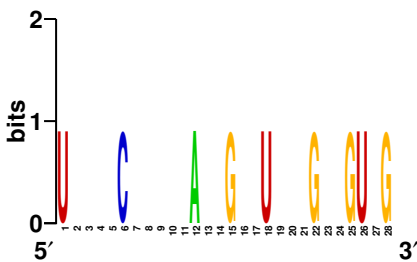
(no read)  
22-mers:



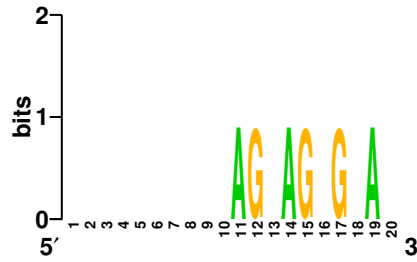
25-mers:



28-mers:

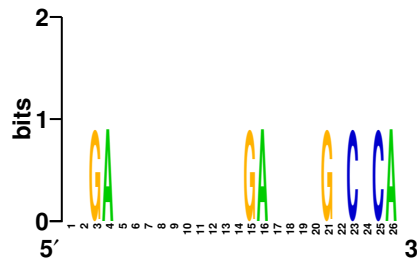


20-mers:



23-mers:

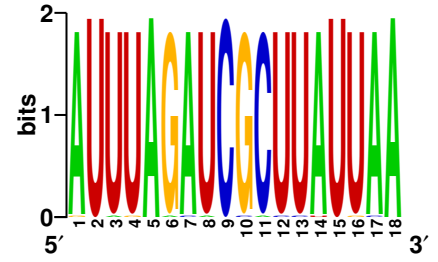
(no read)  
26-mers:



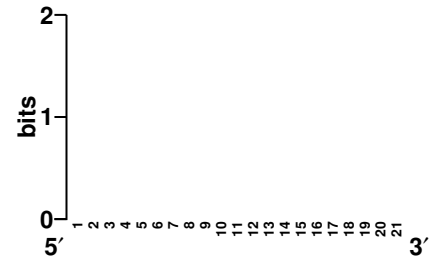
29-mers:

(no read)

18-mers:

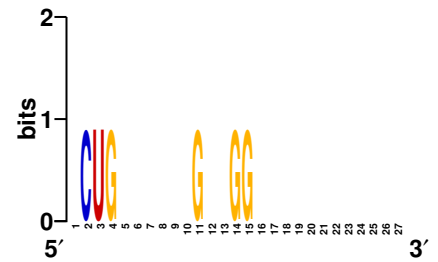


21-mers:

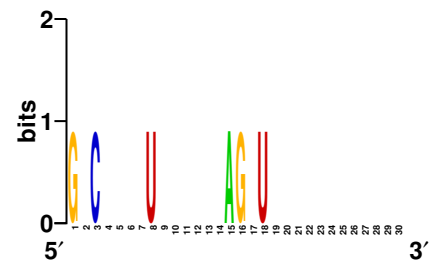


24-mers:

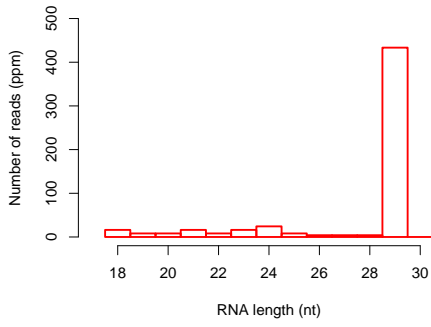
(no read)  
27-mers:



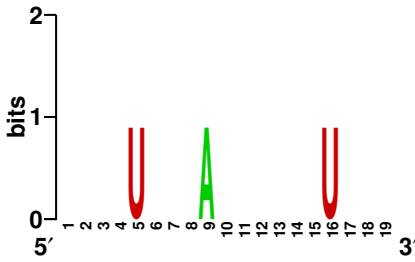
30-mers:



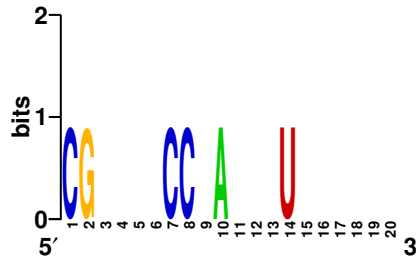
Embryo 60h, library 2:



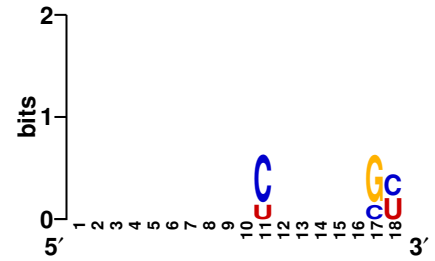
19-mers:



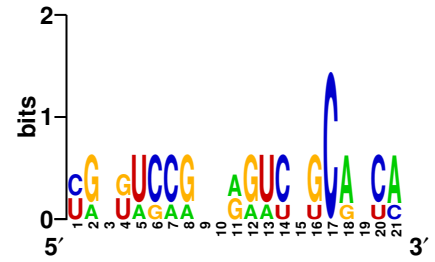
20-mers:



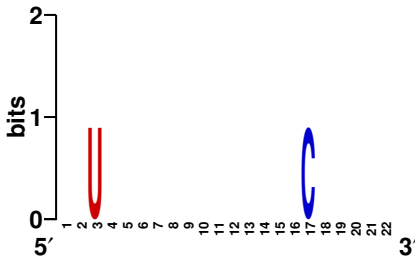
18-mers:



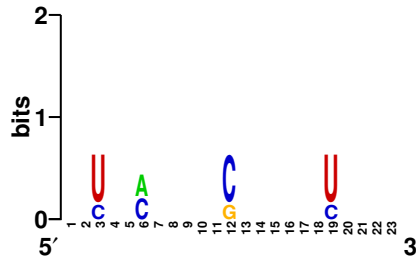
21-mers:



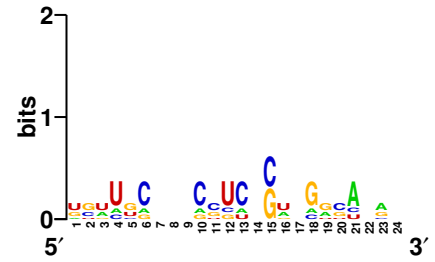
22-mers:



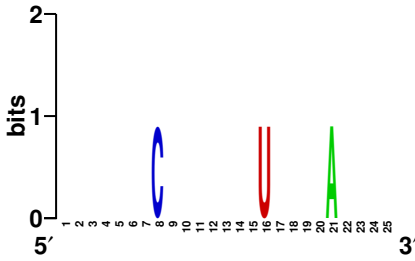
23-mers:



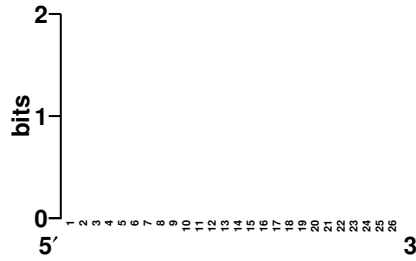
24-mers:



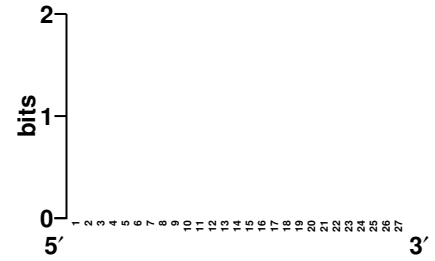
25-mers:



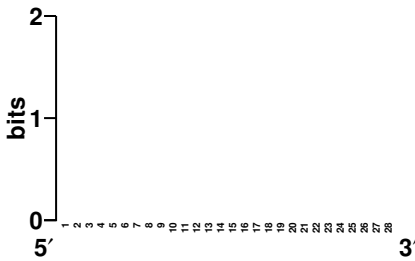
26-mers:



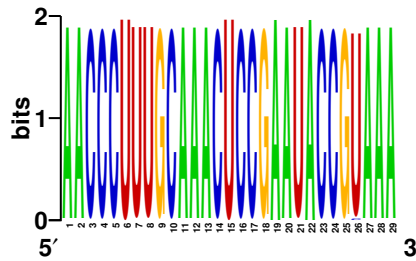
27-mers:



28-mers:



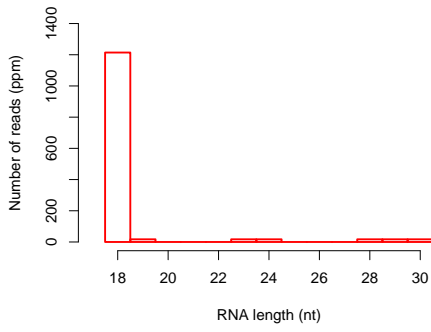
29-mers:



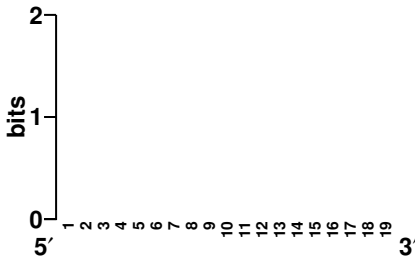
30-mers:

(no read)

Adult female, library 2:

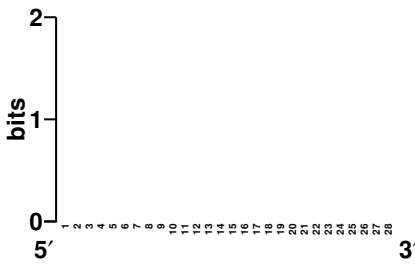


19-mers:



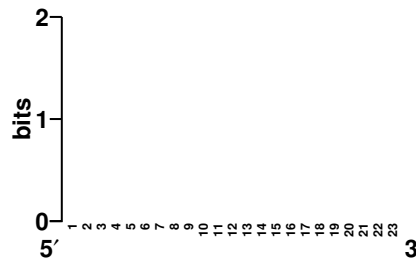
22-mers:

(no read)  
25-mers:  
(no read)  
28-mers:

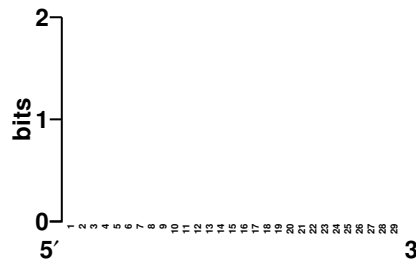


20-mers:

(no read)  
23-mers:



26-mers:  
(no read)  
29-mers:

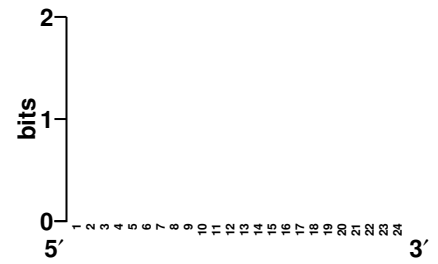


18-mers:

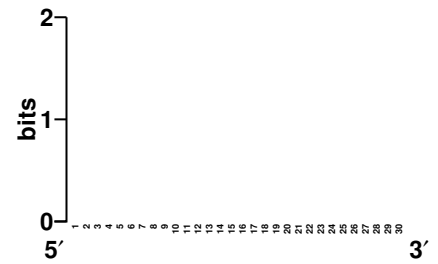


21-mers:

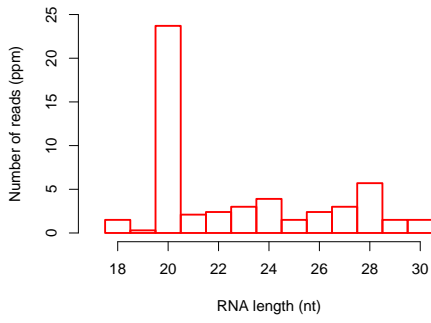
(no read)  
24-mers:



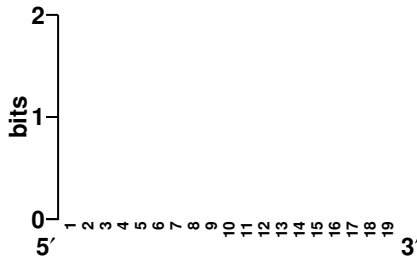
27-mers:  
(no read)  
30-mers:



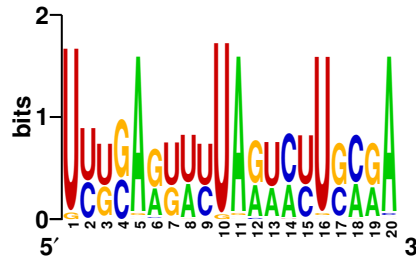
Adult male, library 2:



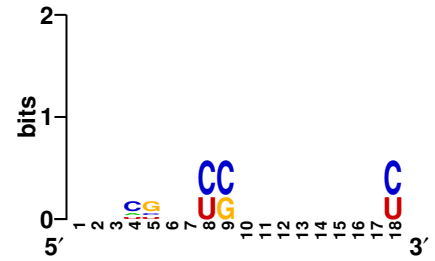
19-mers:



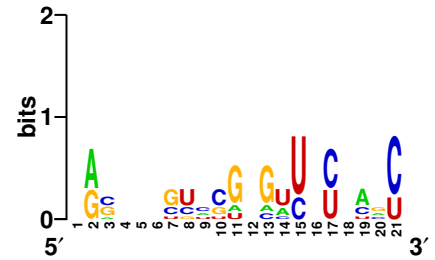
20-mers:



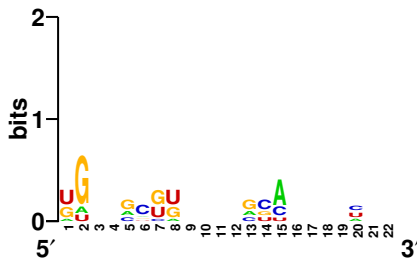
18-mers:



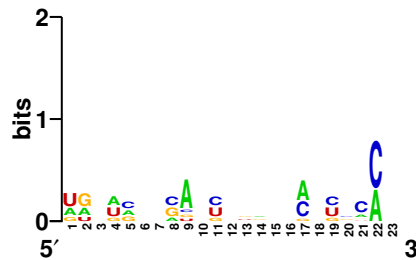
21-mers:



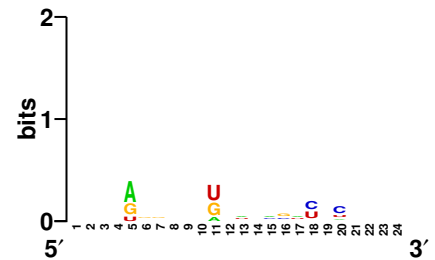
22-mers:



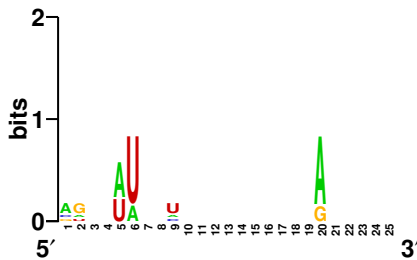
23-mers:



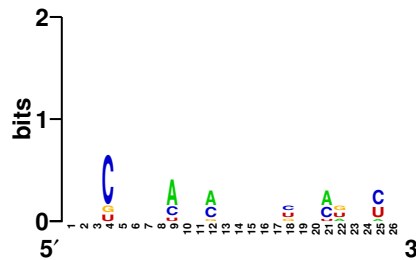
24-mers:



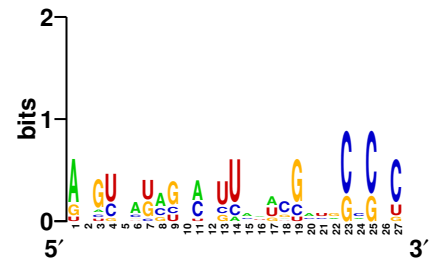
25-mers:



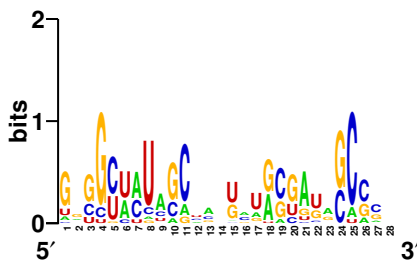
26-mers:



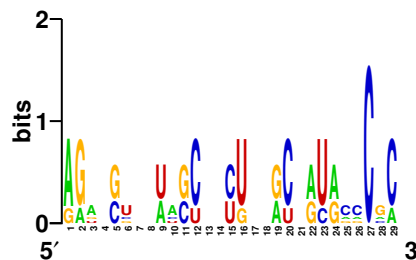
27-mers:



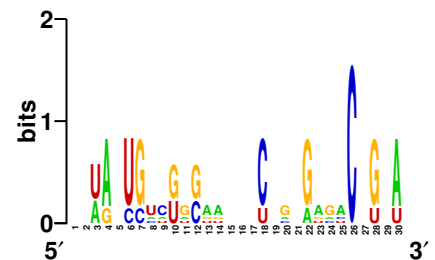
28-mers:



29-mers:

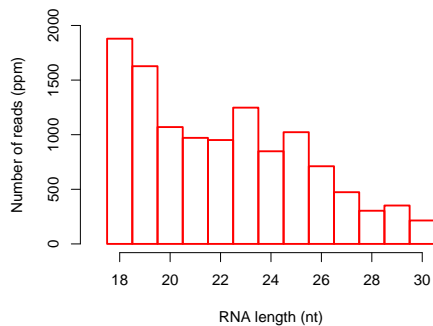


30-mers:

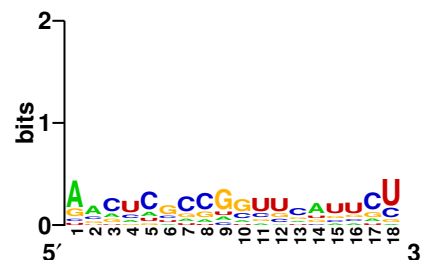


### 8.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

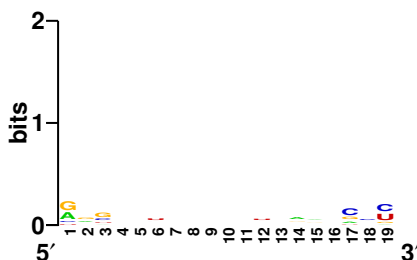
Embryo 8h, library 3:



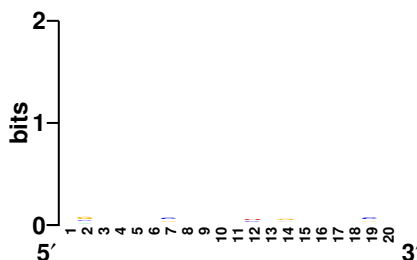
18-mers:



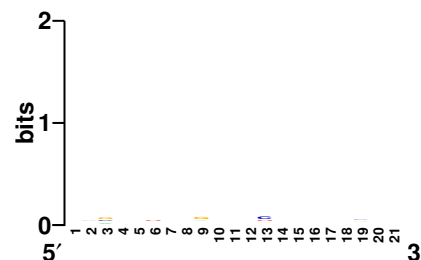
19-mers:



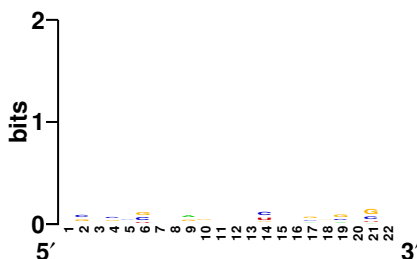
20-mers:



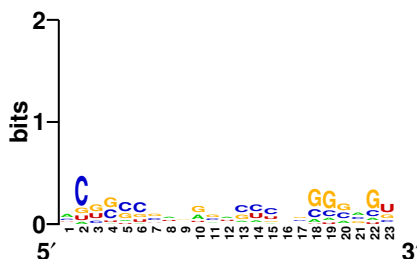
21-mers:



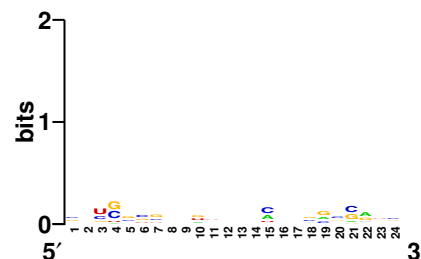
22-mers:



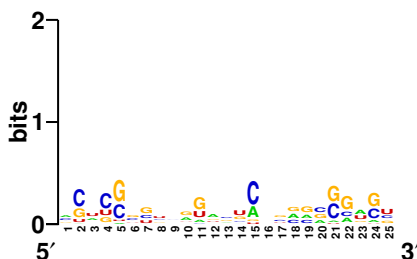
23-mers:



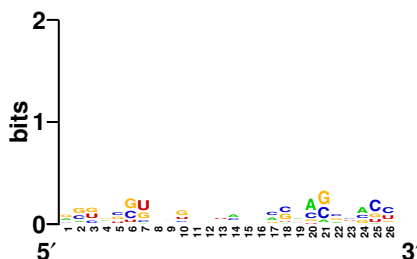
24-mers:



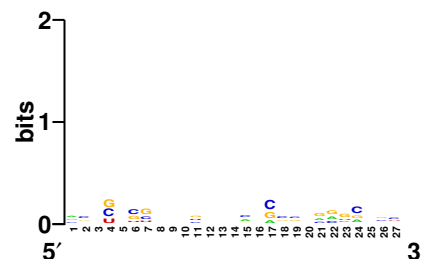
25-mers:



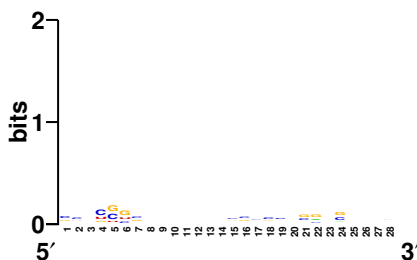
26-mers:



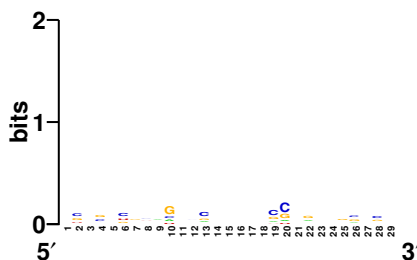
27-mers:



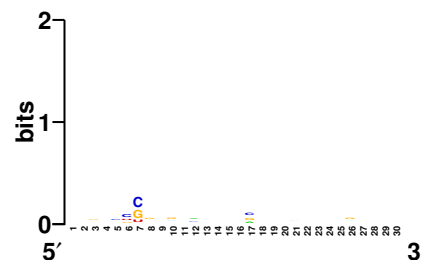
28-mers:



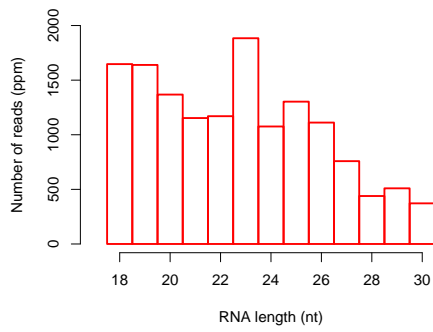
29-mers:



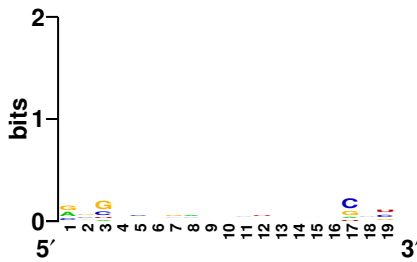
30-mers:



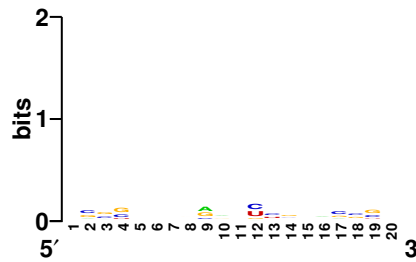
Embryo 15h, library 3:



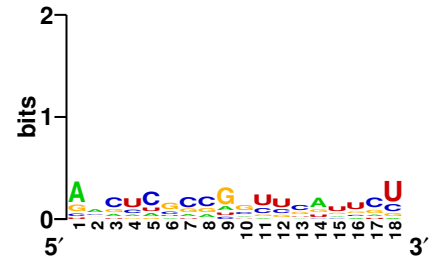
19-mers:



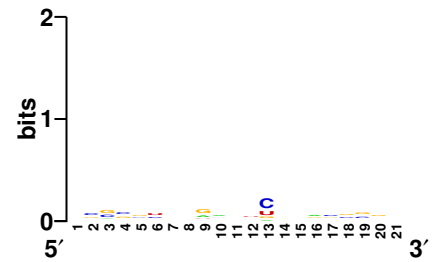
20-mers:



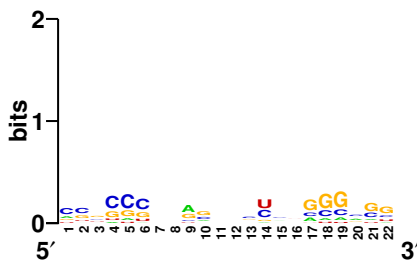
18-mers:



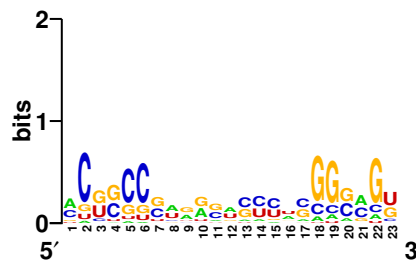
21-mers:



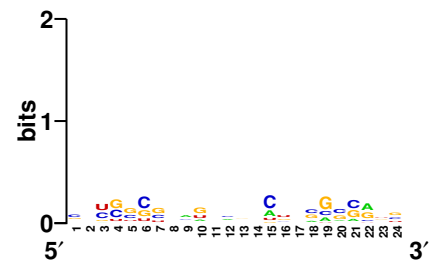
22-mers:



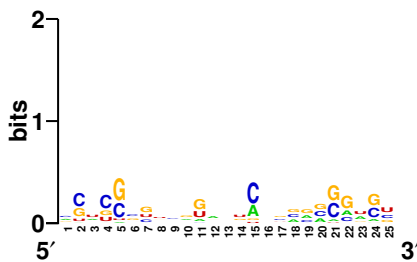
23-mers:



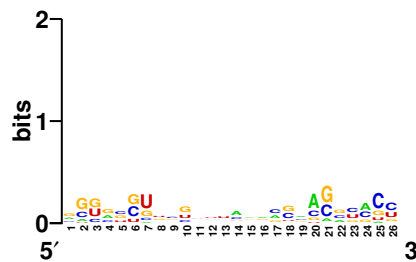
24-mers:



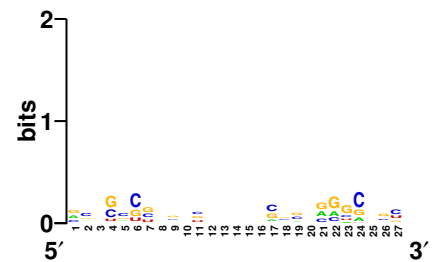
25-mers:



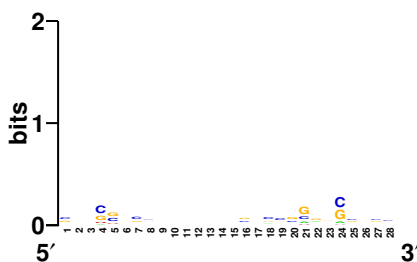
26-mers:



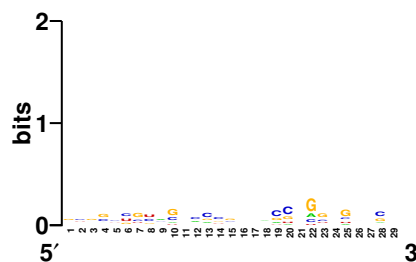
27-mers:



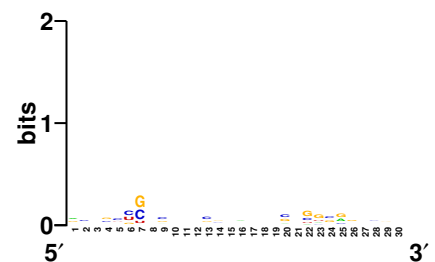
28-mers:



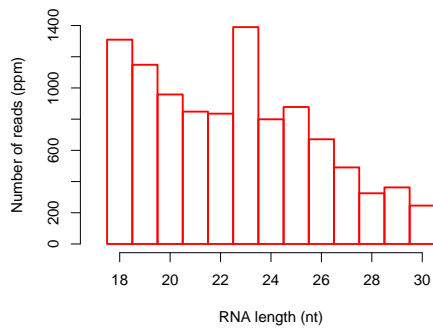
29-mers:



30-mers:



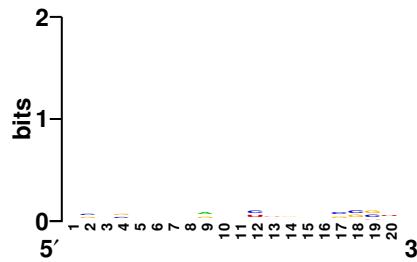
Embryo 36h, library 3:



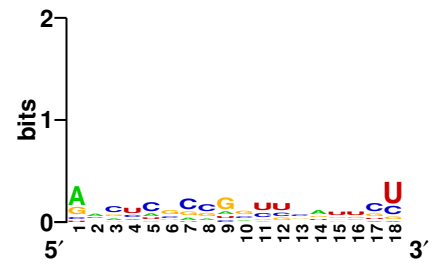
19-mers:



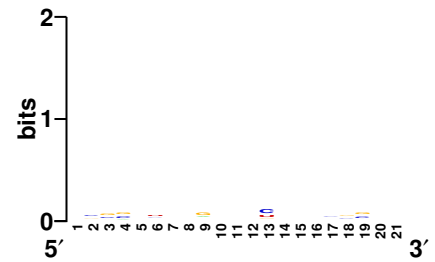
20-mers:



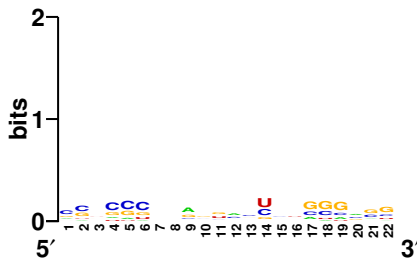
18-mers:



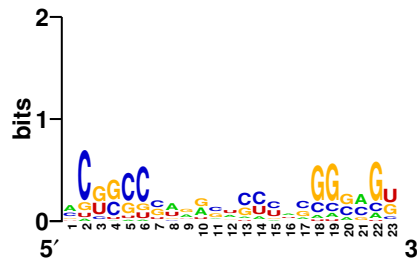
21-mers:



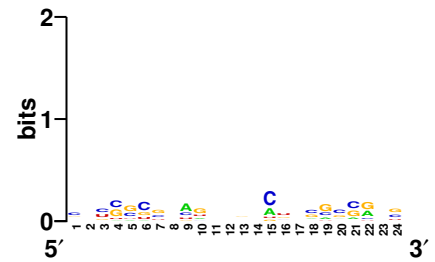
22-mers:



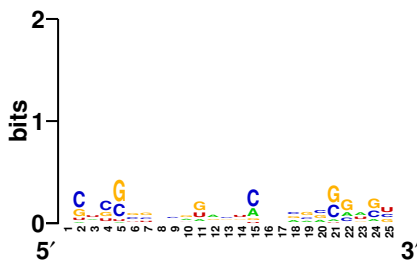
23-mers:



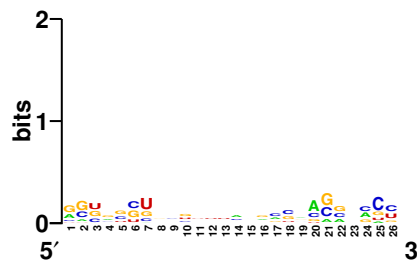
24-mers:



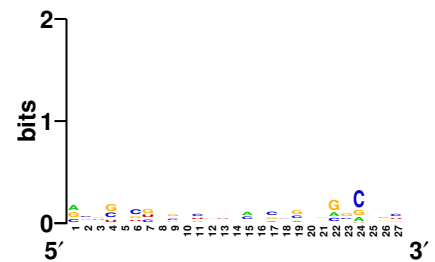
25-mers:



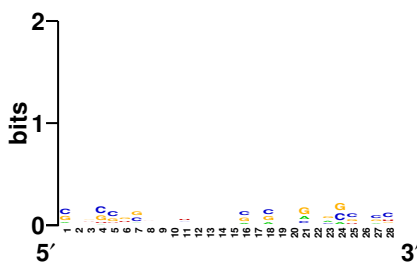
26-mers:



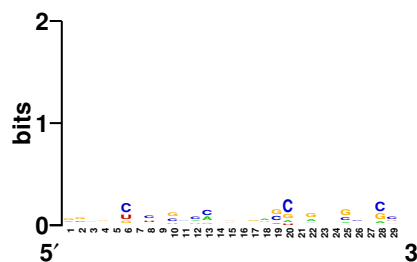
27-mers:



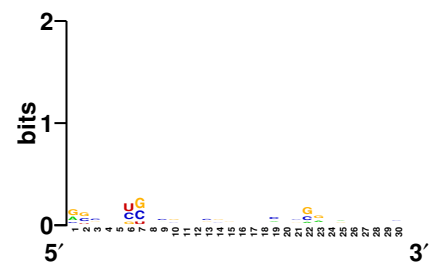
28-mers:



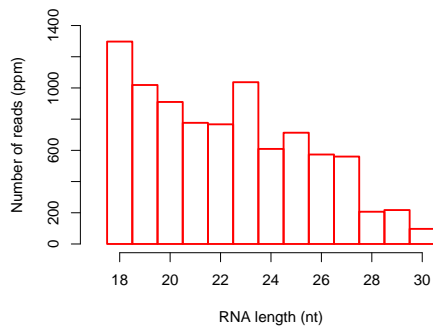
29-mers:



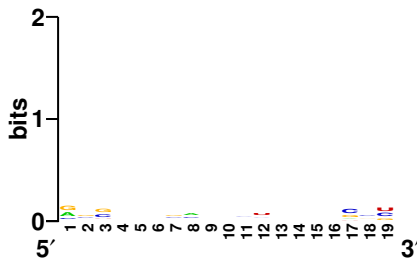
30-mers:



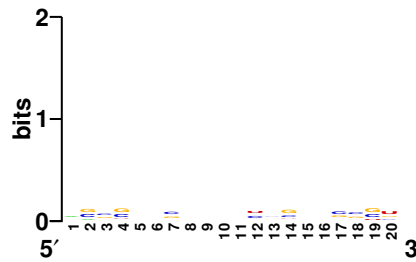
Embryo 60h, library 3:



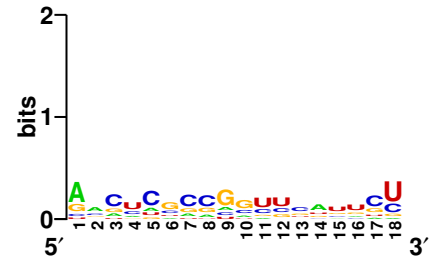
19-mers:



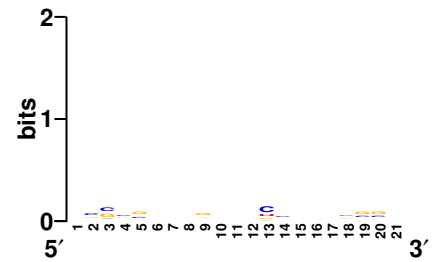
20-mers:



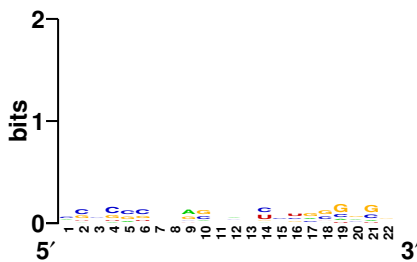
18-mers:



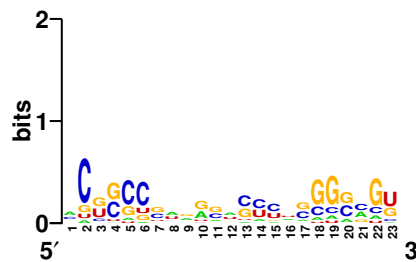
21-mers:



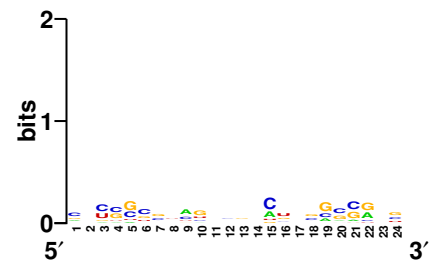
22-mers:



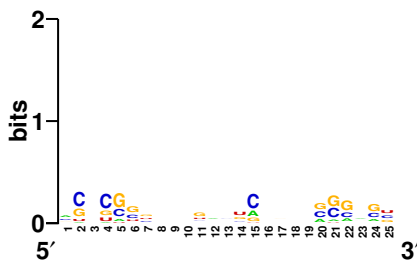
23-mers:



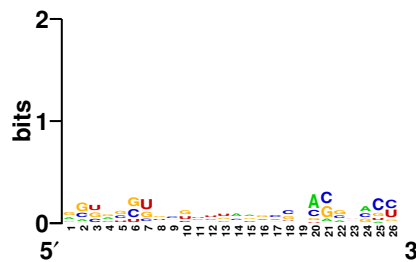
24-mers:



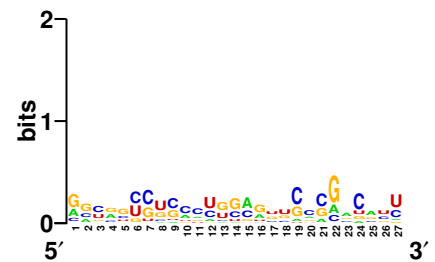
25-mers:



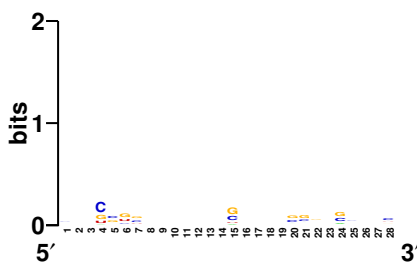
26-mers:



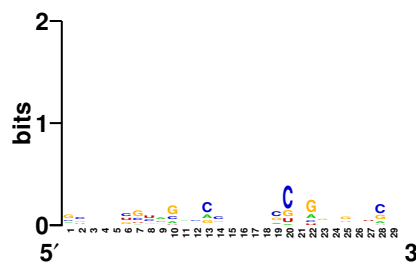
27-mers:



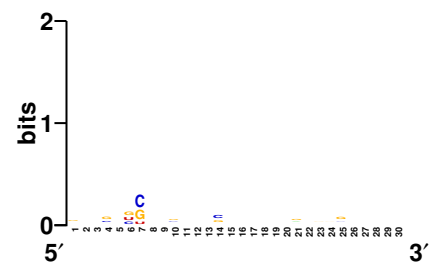
28-mers:



29-mers:

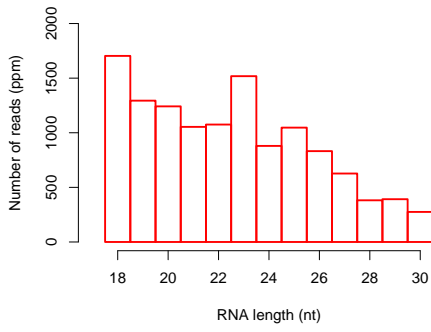


30-mers:





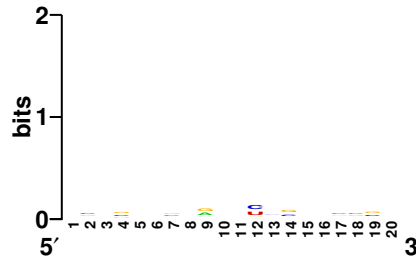
Adult female, library 3:



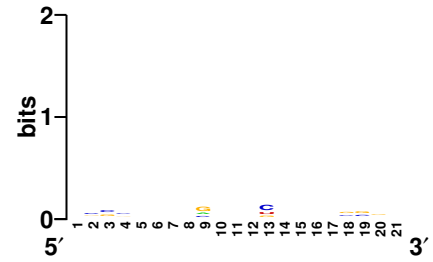
19-mers:



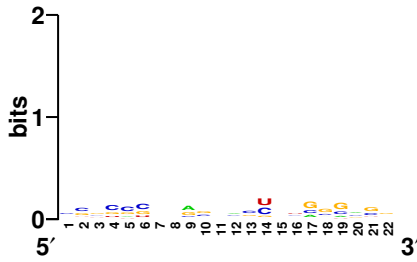
20-mers:



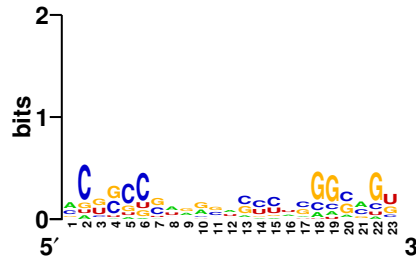
21-mers:



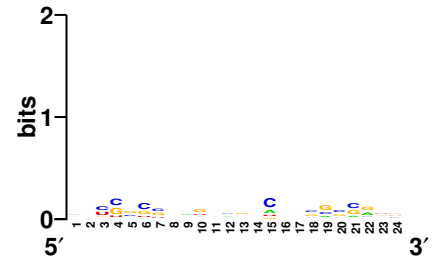
22-mers:



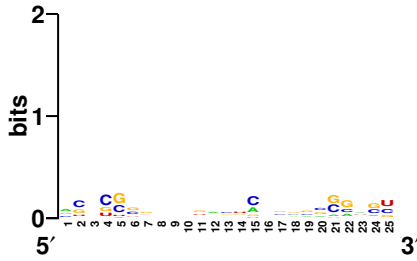
23-mers:



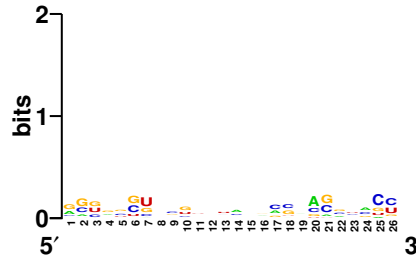
24-mers:



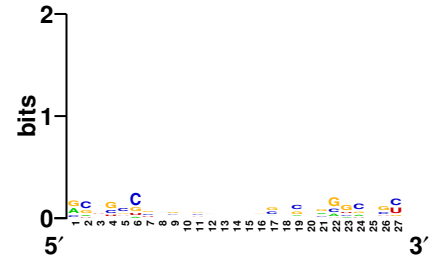
25-mers:



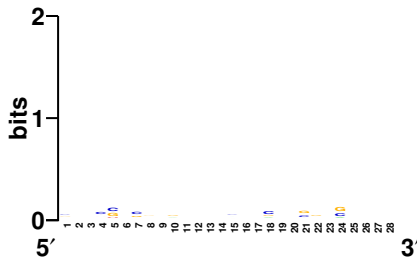
26-mers:



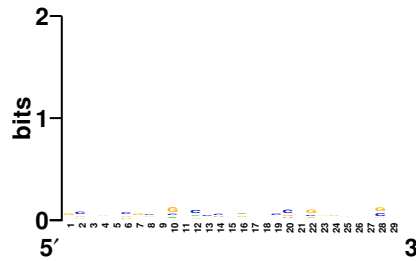
27-mers:



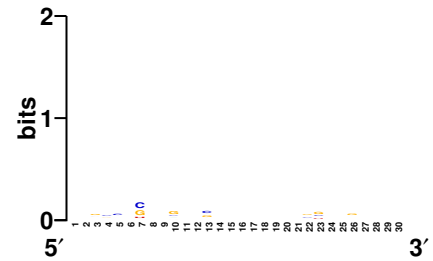
28-mers:



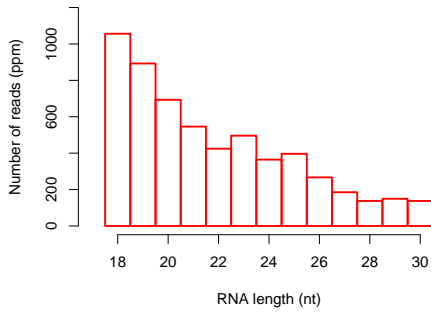
29-mers:



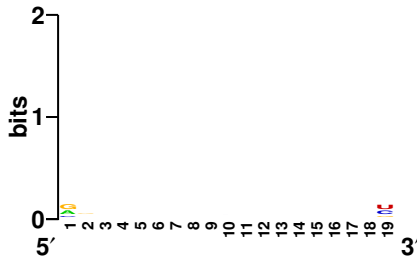
30-mers:



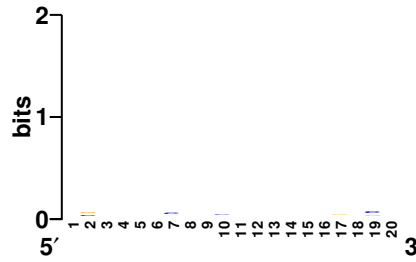
Adult male, library 3:



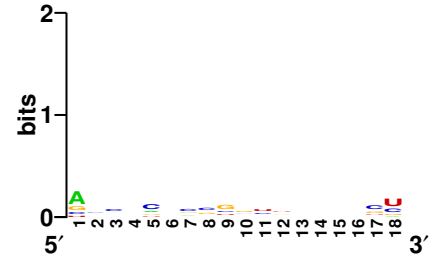
19-mers:



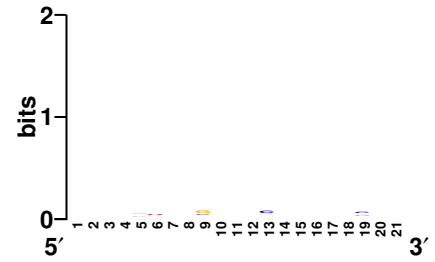
20-mers:



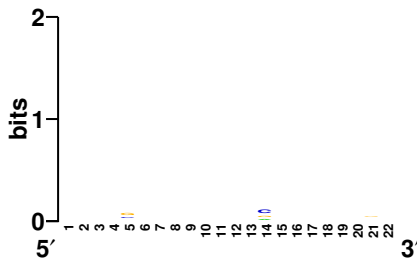
18-mers:



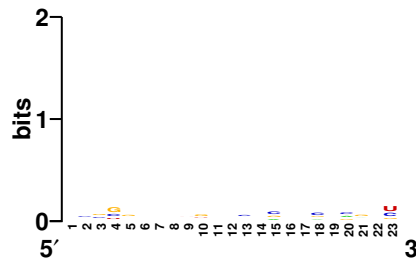
21-mers:



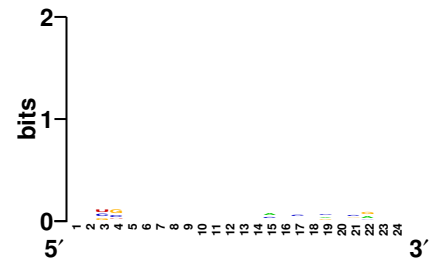
22-mers:



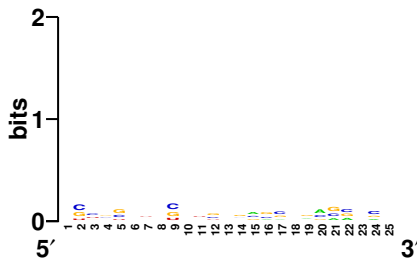
23-mers:



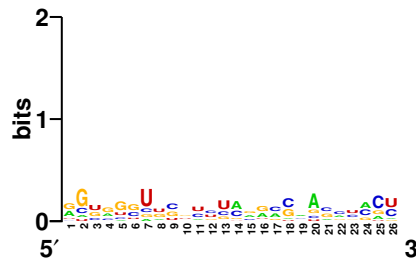
24-mers:



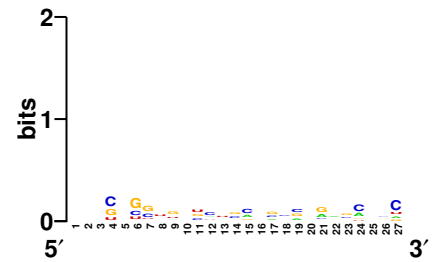
25-mers:



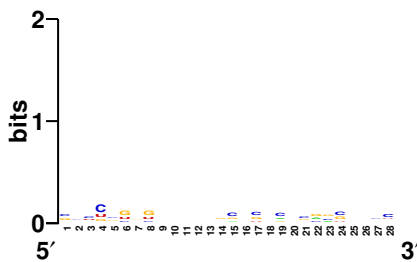
26-mers:



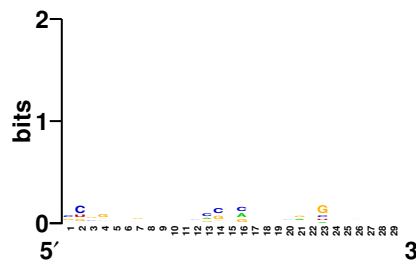
27-mers:



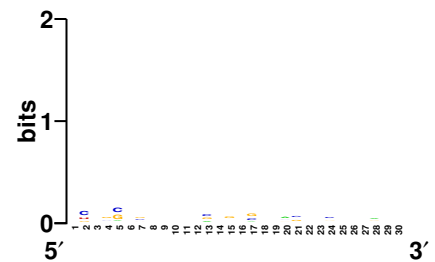
28-mers:



29-mers:



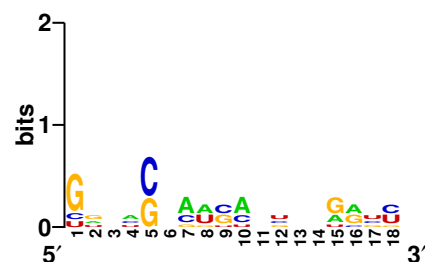
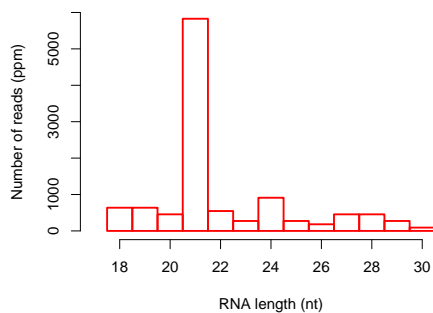
30-mers:



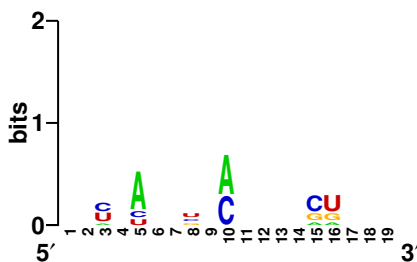
## 8.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 4:

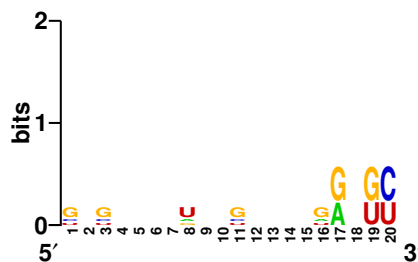
18-mers:



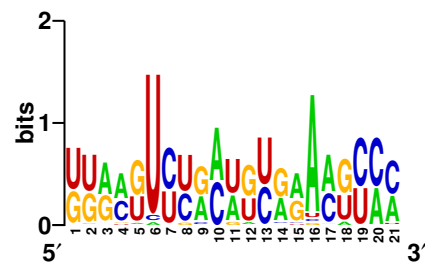
19-mers:



20-mers:



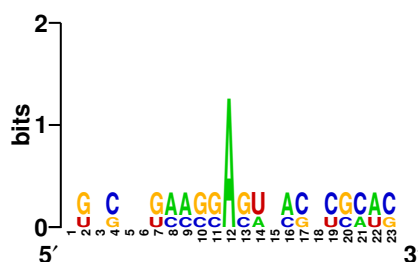
21-mers:



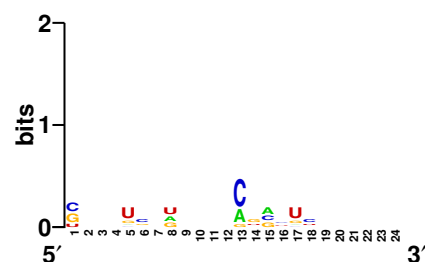
22-mers:



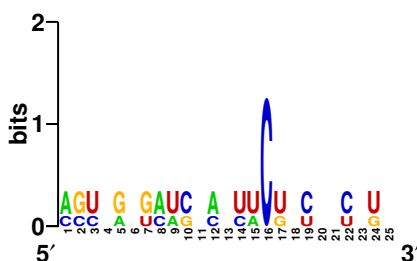
23-mers:



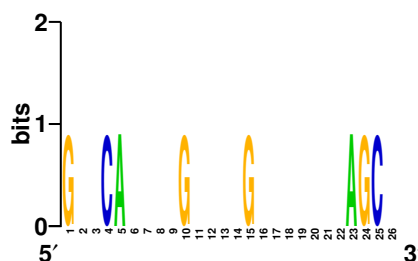
24-mers:



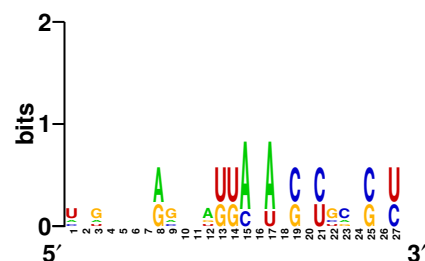
25-mers:



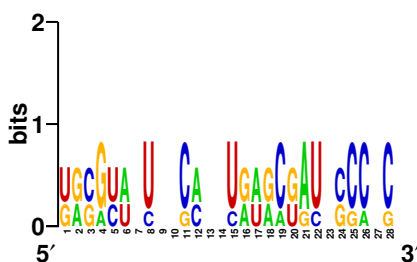
26-mers:



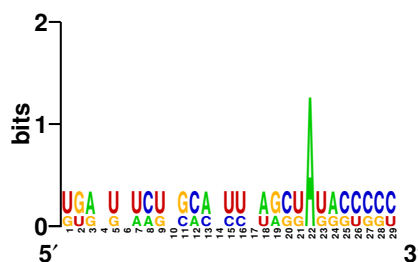
27-mers:



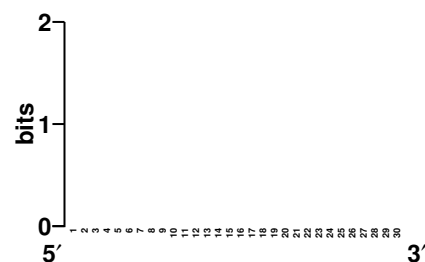
28-mers:



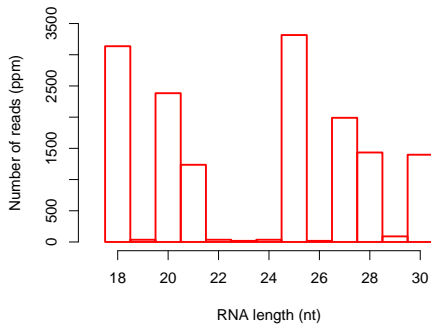
29-mers:



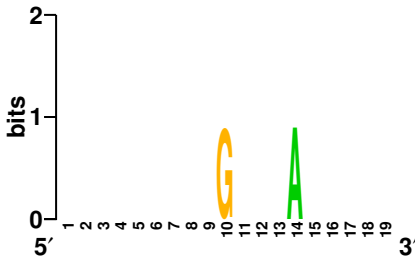
30-mers:



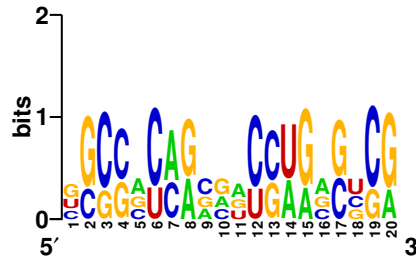
Embryo 15h, library 4:



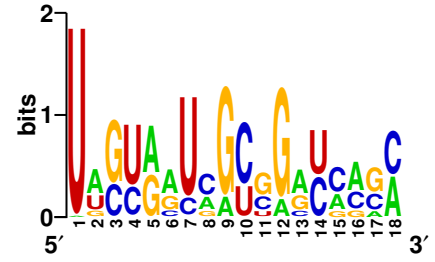
19-mers:



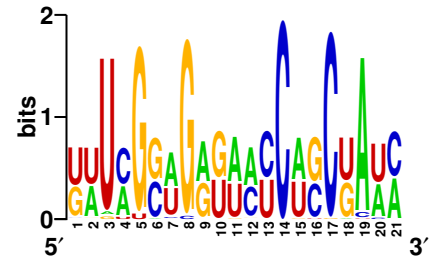
20-mers:



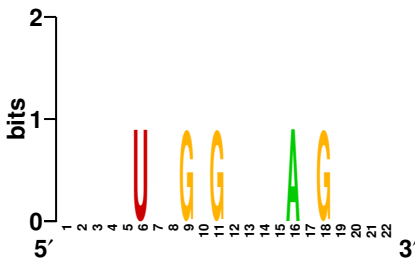
18-mers:



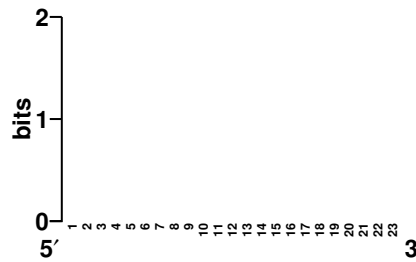
21-mers:



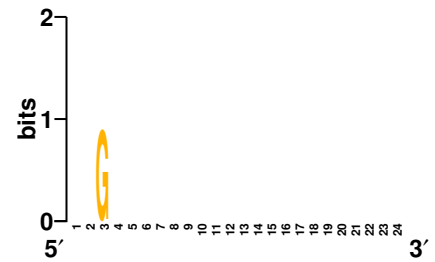
22-mers:



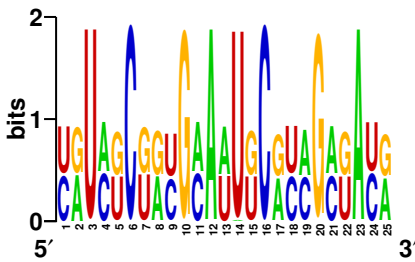
23-mers:



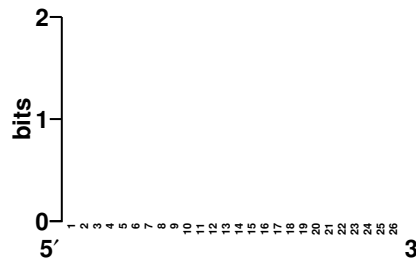
24-mers:



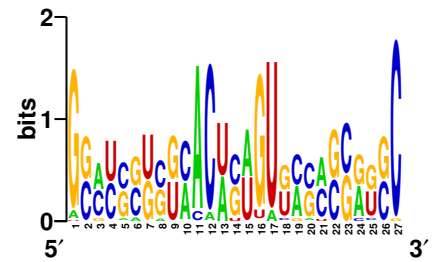
25-mers:



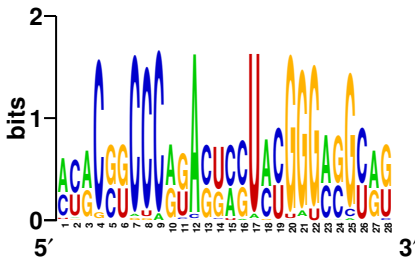
26-mers:



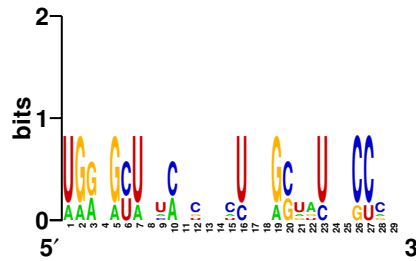
27-mers:



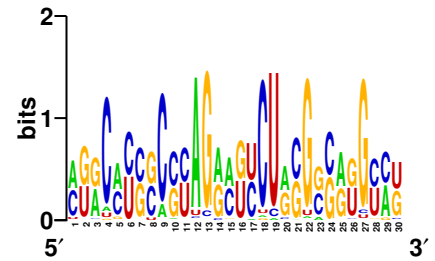
28-mers:



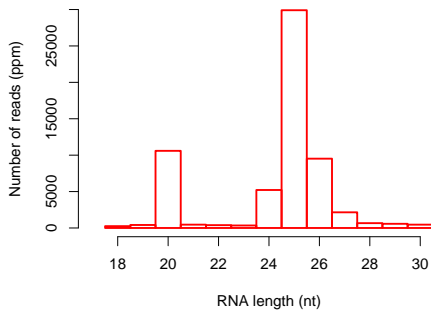
29-mers:



30-mers:



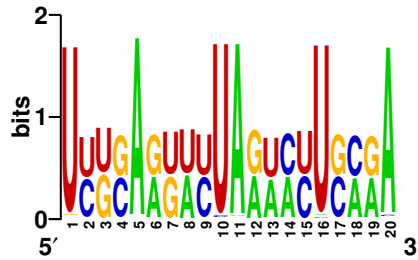
Embryo 36h, library 4:



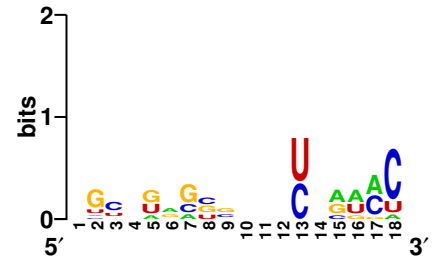
19-mers:



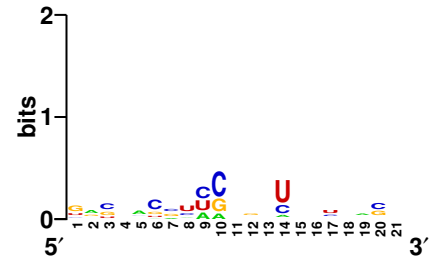
20-mers:



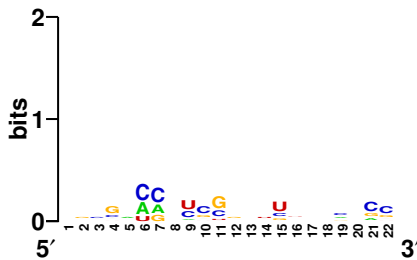
18-mers:



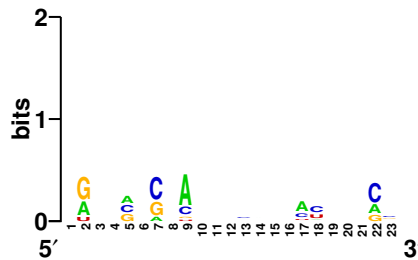
21-mers:



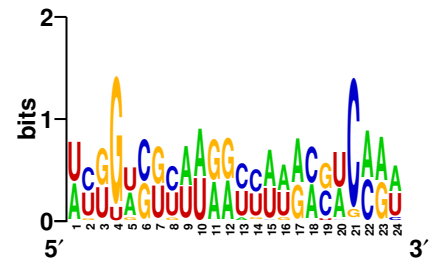
22-mers:



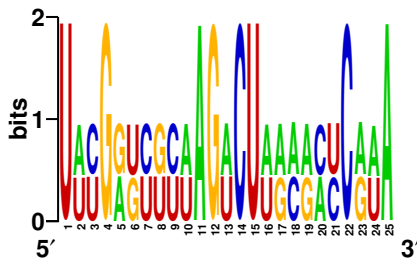
23-mers:



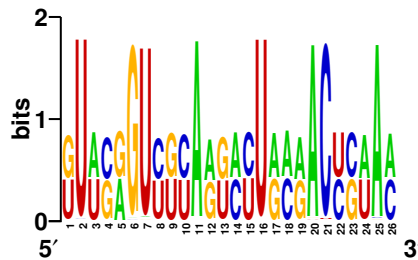
24-mers:



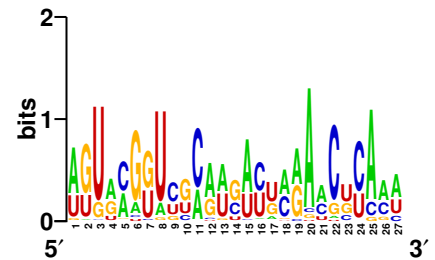
25-mers:



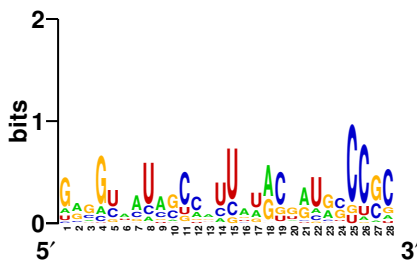
26-mers:



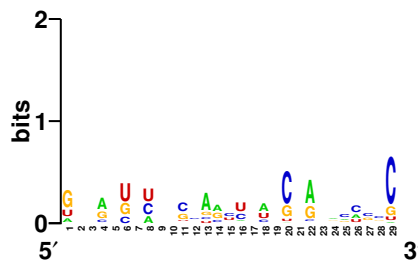
27-mers:



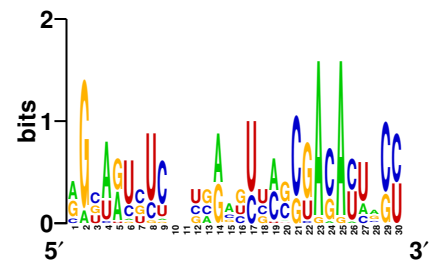
28-mers:



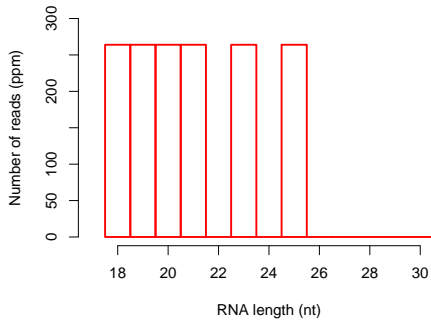
29-mers:



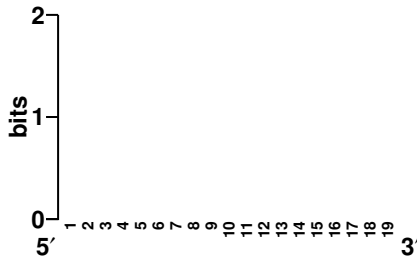
30-mers:



Embryo 60h, library 4:



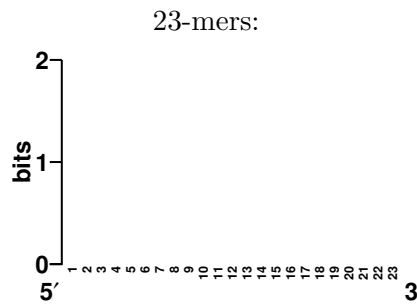
19-mers:



22-mers:

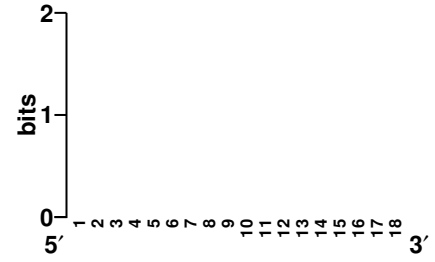


20-mers:

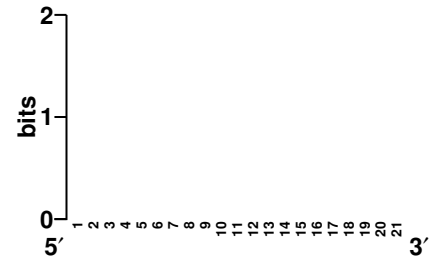


23-mers:

18-mers:

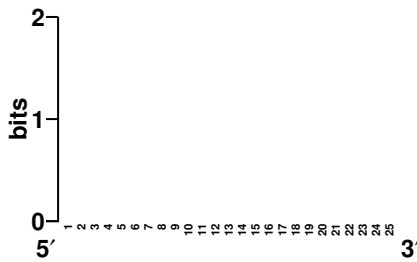


21-mers:



24-mers:

(no read)  
25-mers:



26-mers:

(no read)

29-mers:

(no read)

(no read)  
27-mers:

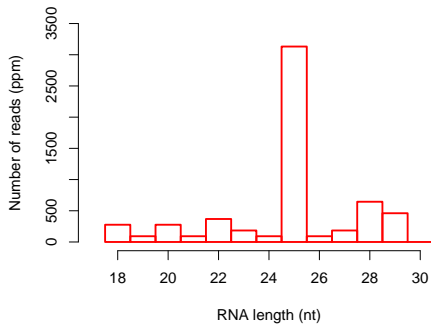
(no read)

30-mers:

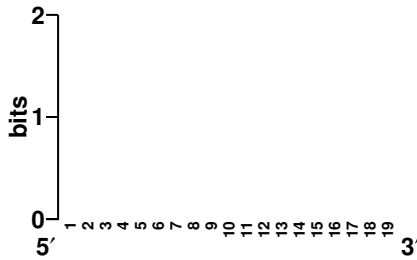
(no read)

28-mers:  
(no read)

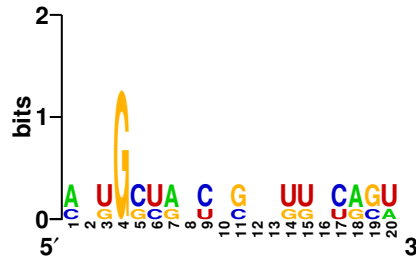
Adult female, library 4:



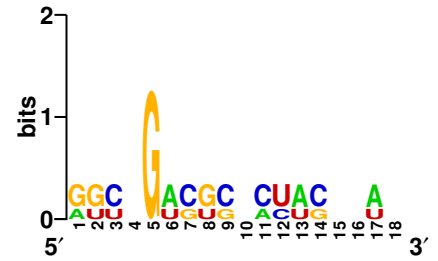
19-mers:



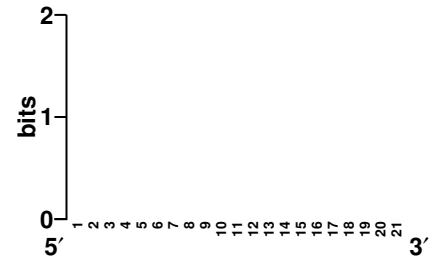
20-mers:



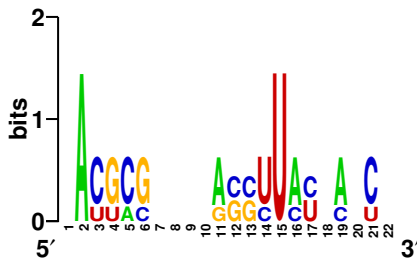
18-mers:



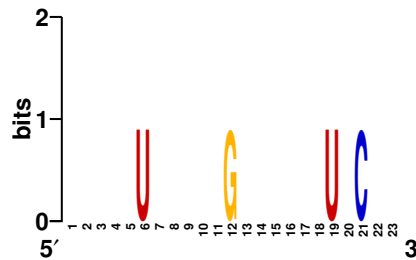
21-mers:



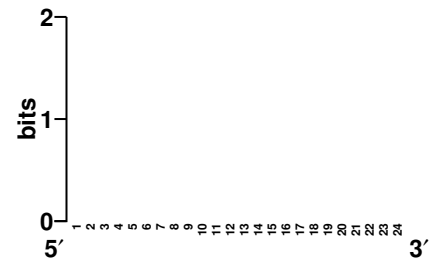
22-mers:



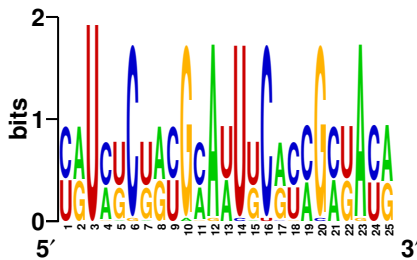
23-mers:



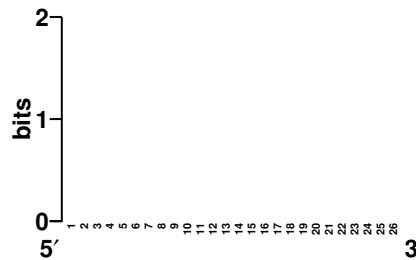
24-mers:



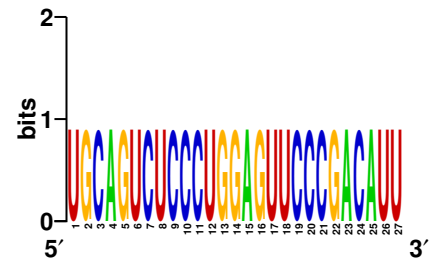
25-mers:



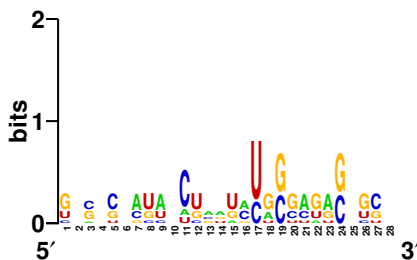
26-mers:



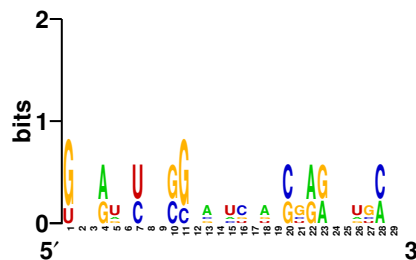
27-mers:



28-mers:



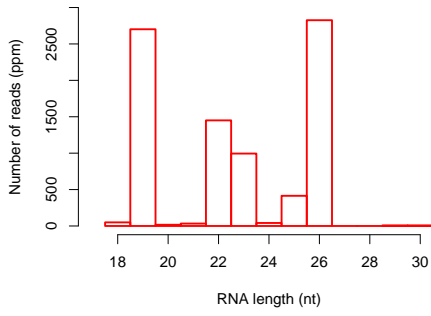
29-mers:



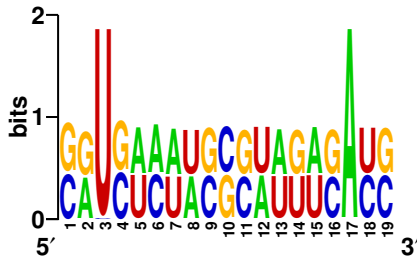
30-mers:

(no read)

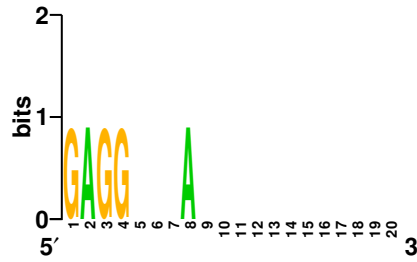
Adult male, library 4:



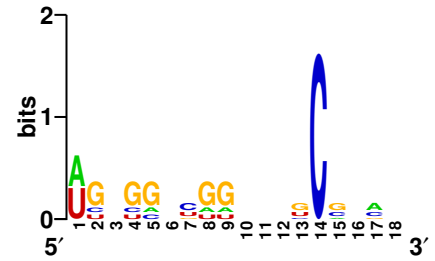
19-mers:



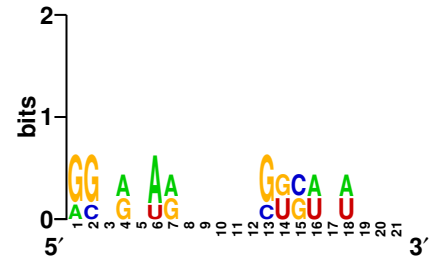
20-mers:



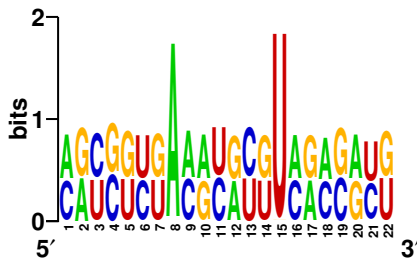
18-mers:



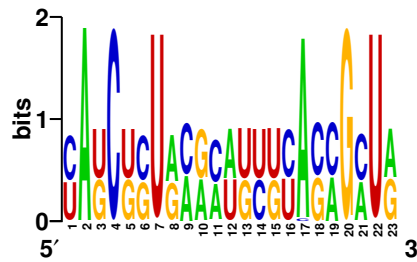
21-mers:



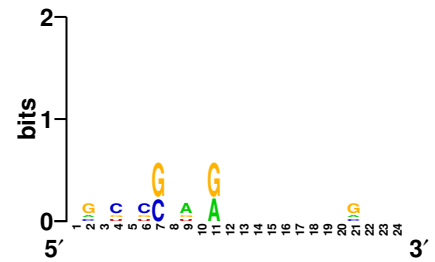
22-mers:



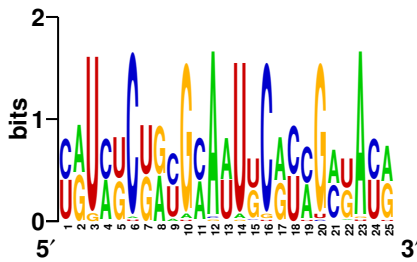
23-mers:



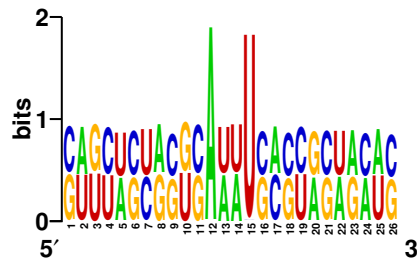
24-mers:



25-mers:

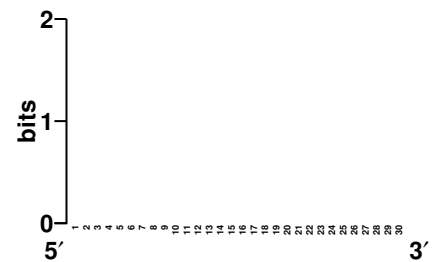


26-mers:



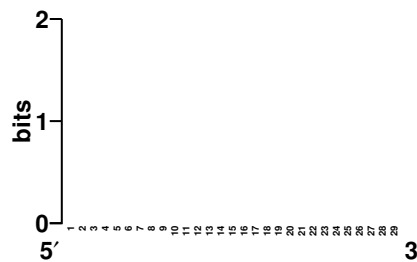
27-mers:

(no read)  
30-mers:



(no read)

29-mers:

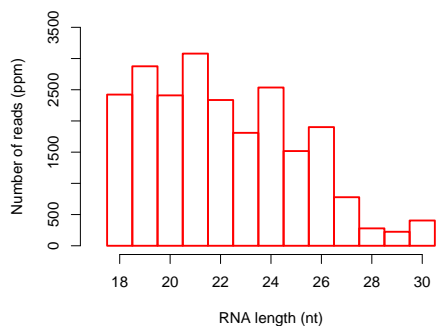




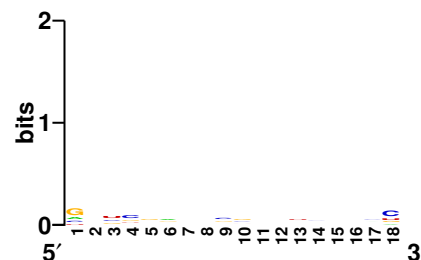
# 9 Extragenomic and extratranscriptomic reads matching the *Vibrio anguillarum* genome

## 9.1 Libraries #1 (total 5' monophosphorylated small RNAs)

Embryo 8h, library 1:



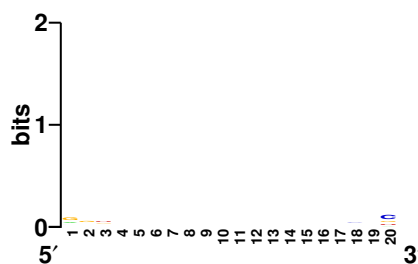
18-mers:



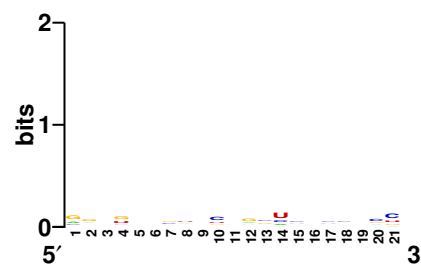
19-mers:



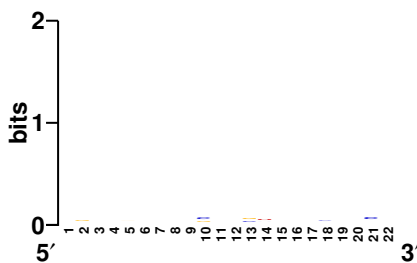
20-mers:



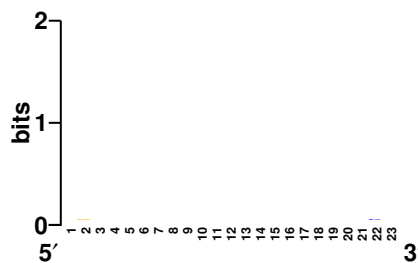
21-mers:



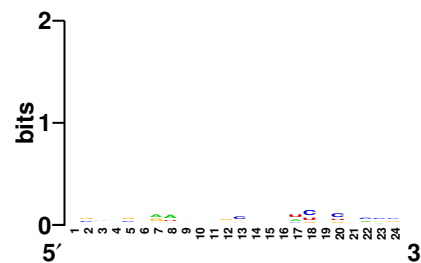
22-mers:



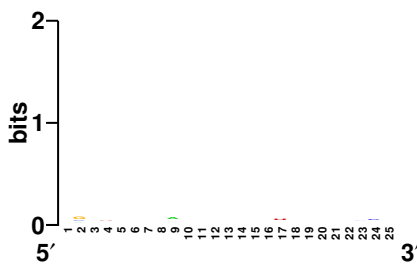
23-mers:



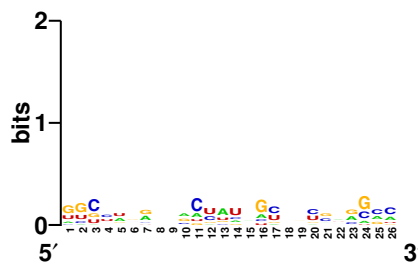
24-mers:



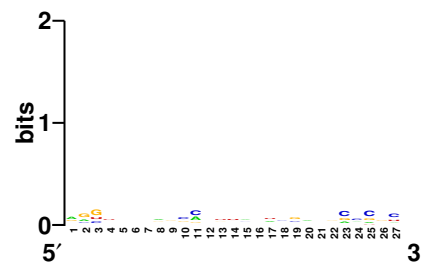
25-mers:



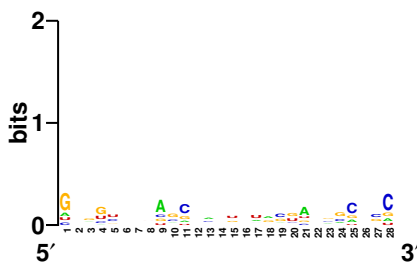
26-mers:



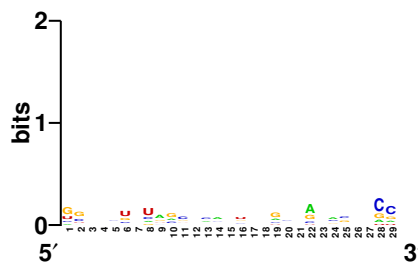
27-mers:



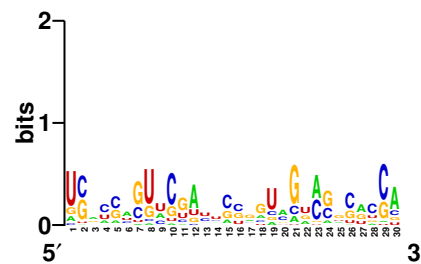
28-mers:



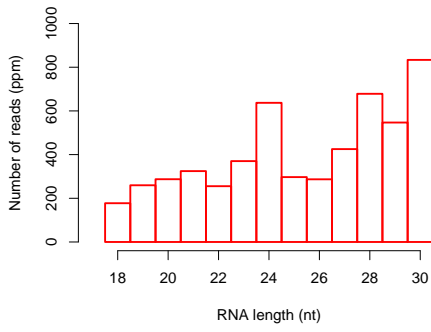
29-mers:



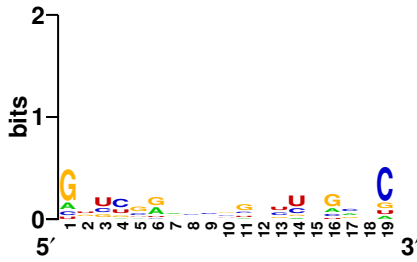
30-mers:



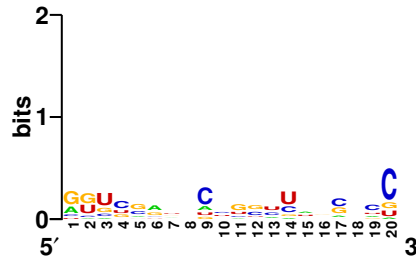
Embryo 15h, library 1:



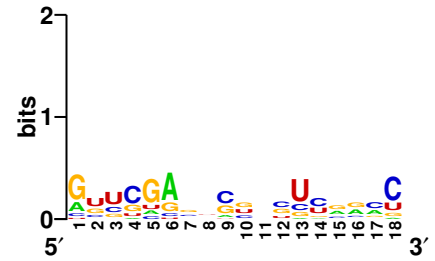
19-mers:



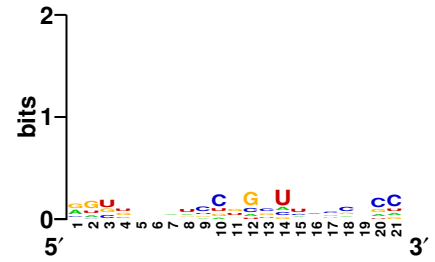
20-mers:



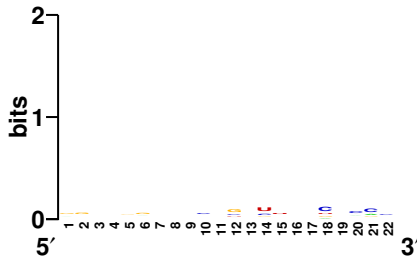
18-mers:



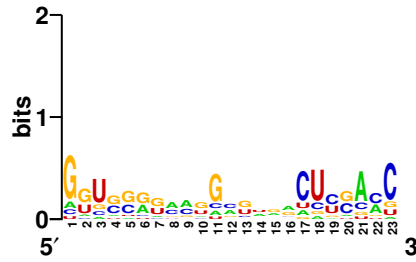
21-mers:



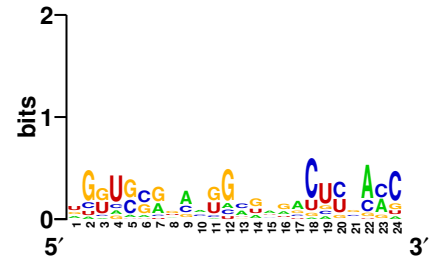
22-mers:



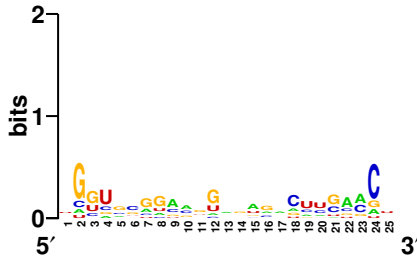
23-mers:



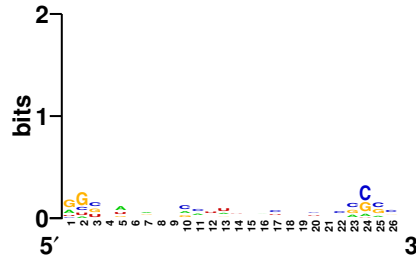
24-mers:



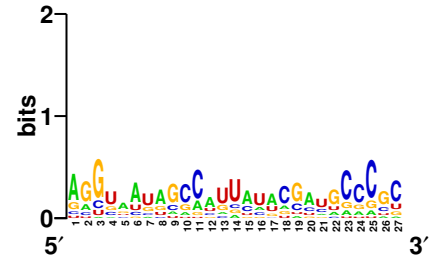
25-mers:



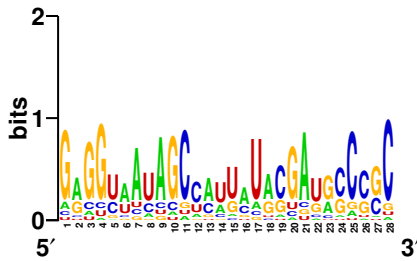
26-mers:



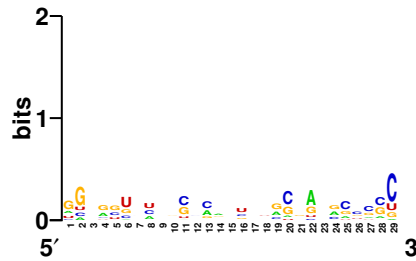
27-mers:



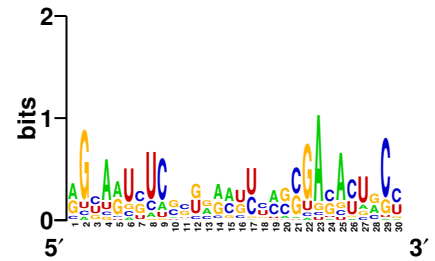
28-mers:



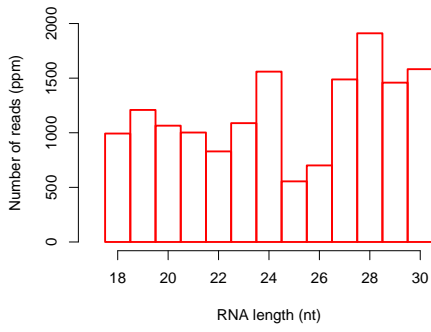
29-mers:



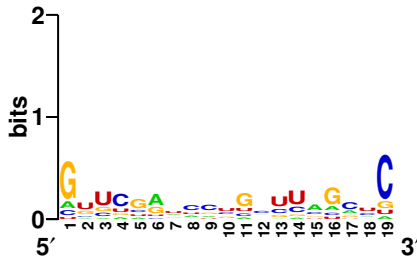
30-mers:



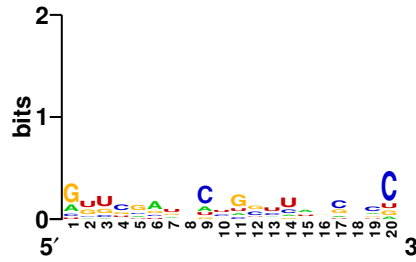
Embryo 36h, library 1:



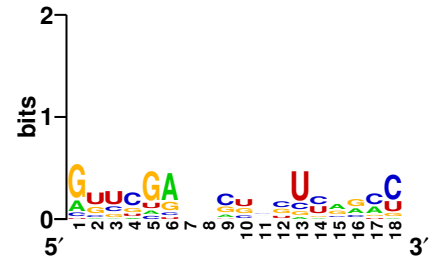
19-mers:



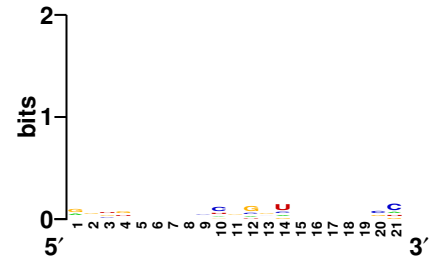
20-mers:



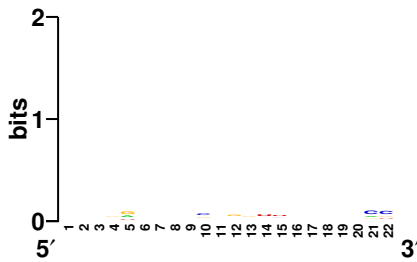
18-mers:



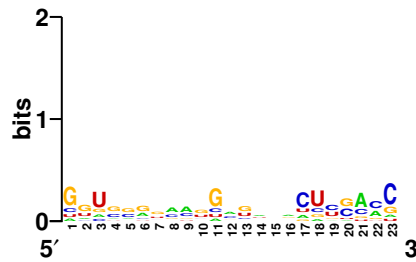
21-mers:



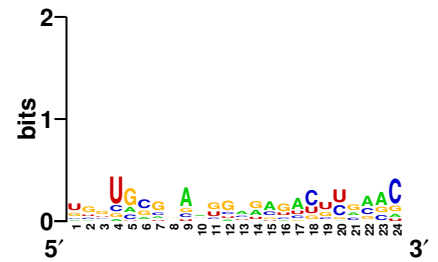
22-mers:



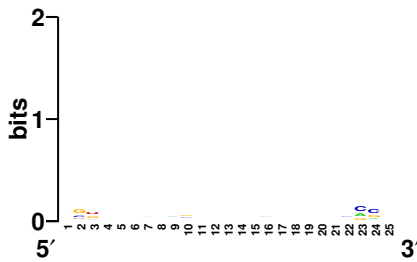
23-mers:



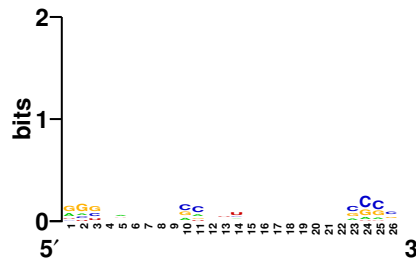
24-mers:



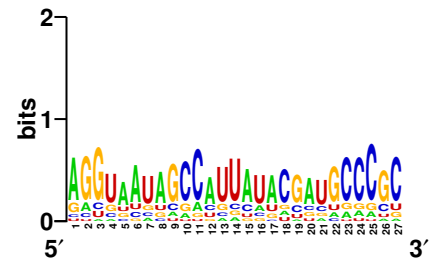
25-mers:



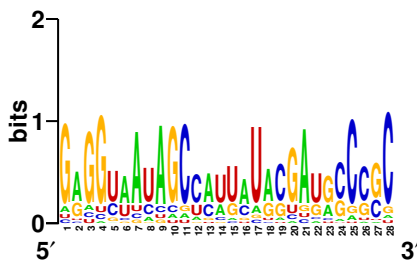
26-mers:



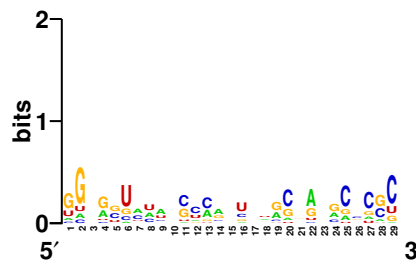
27-mers:



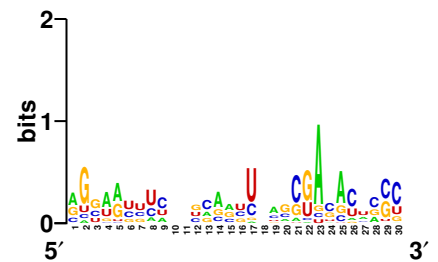
28-mers:



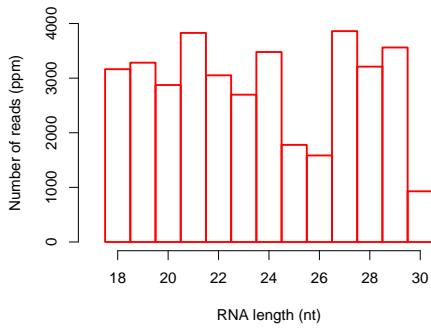
29-mers:



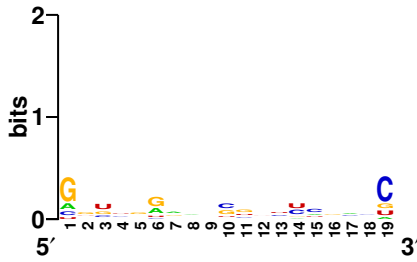
30-mers:



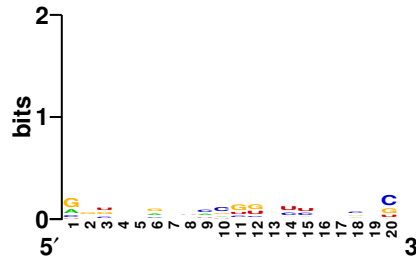
Embryo 60h, library 1:



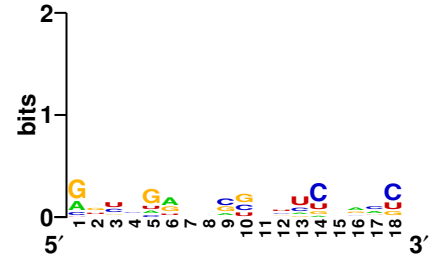
19-mers:



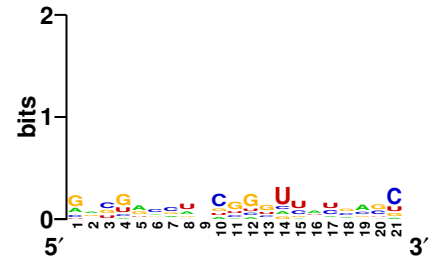
20-mers:



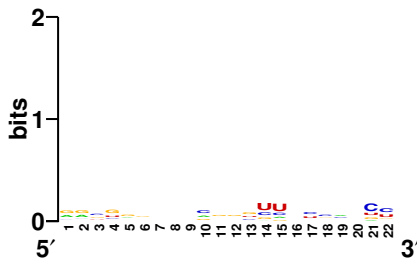
18-mers:



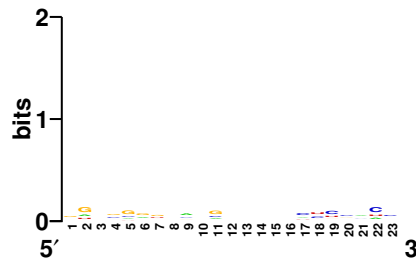
21-mers:



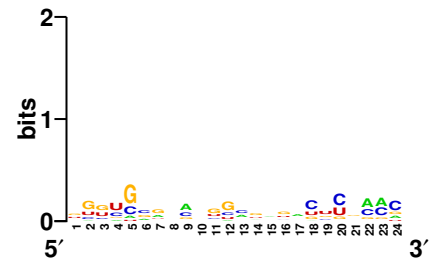
22-mers:



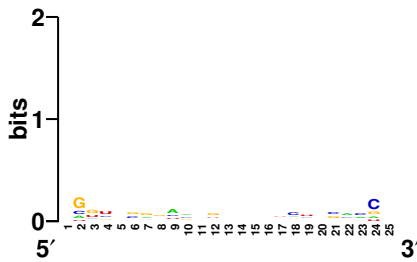
23-mers:



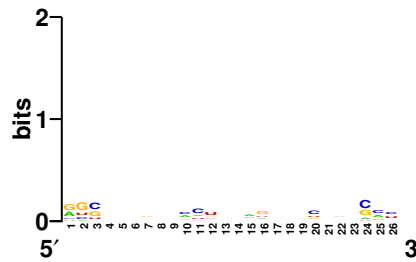
24-mers:



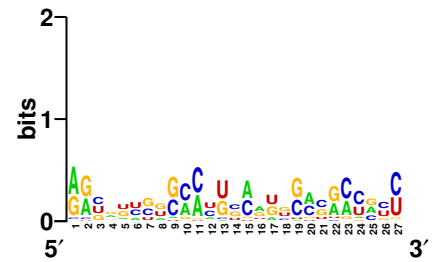
25-mers:



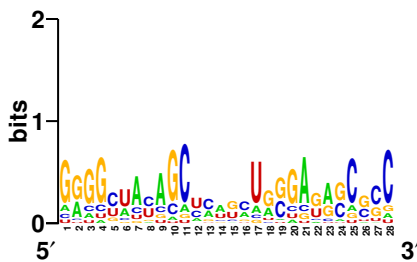
26-mers:



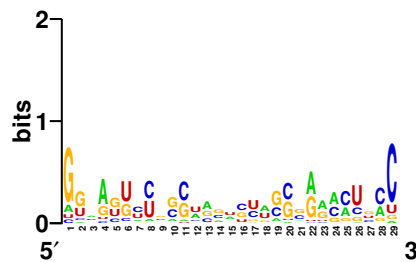
27-mers:



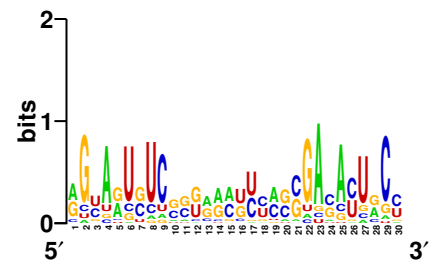
28-mers:



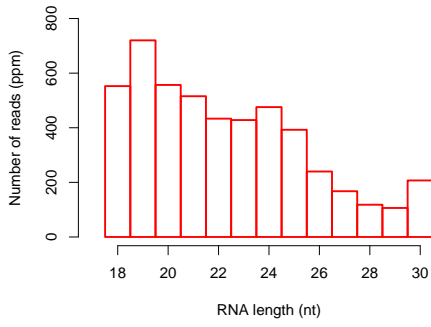
29-mers:



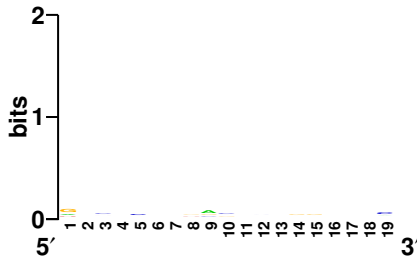
30-mers:



Adult female, library 1:



19-mers:



20-mers:



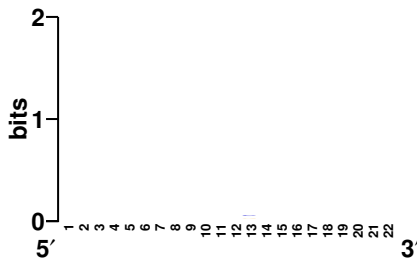
18-mers:



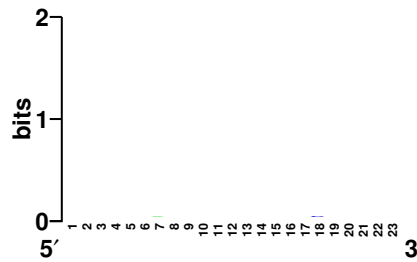
21-mers:



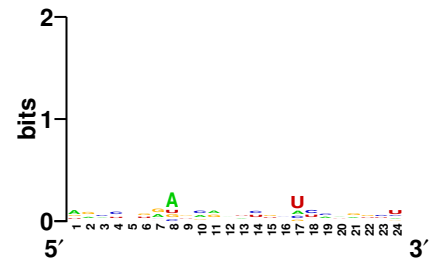
22-mers:



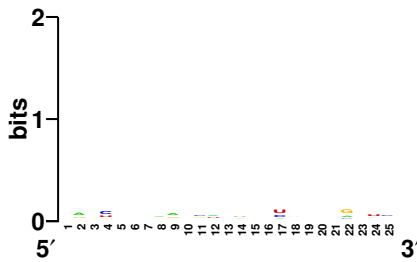
23-mers:



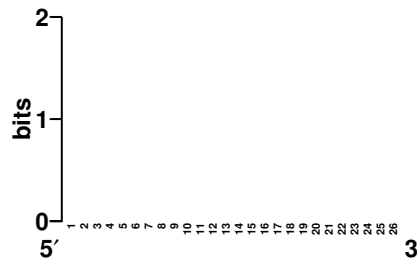
24-mers:



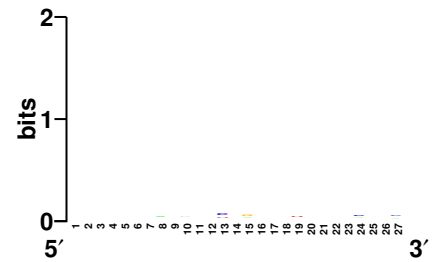
25-mers:



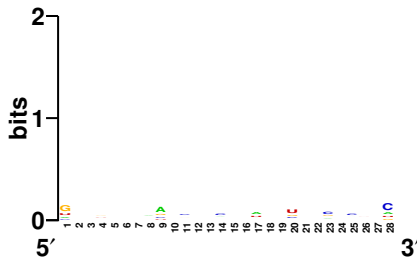
26-mers:



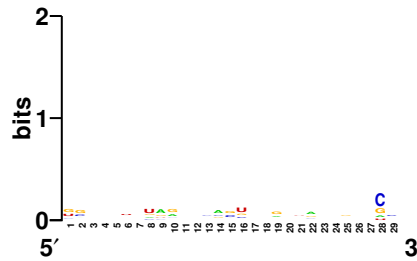
27-mers:



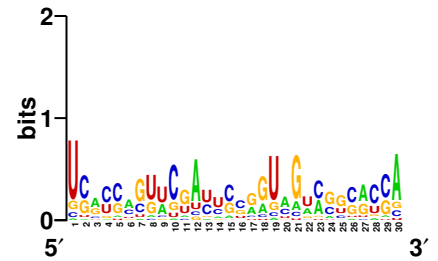
28-mers:



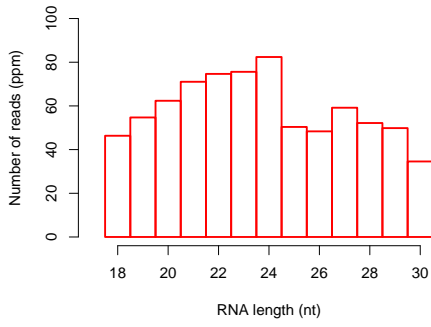
29-mers:



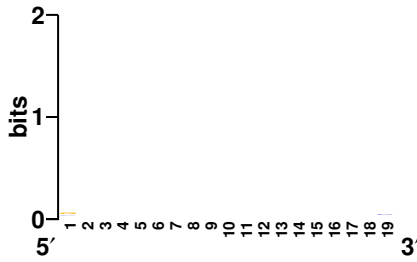
30-mers:



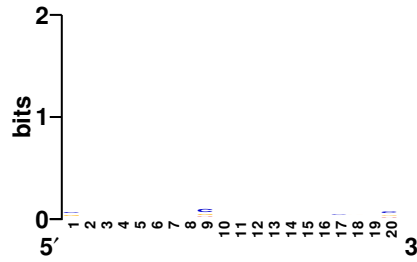
Adult male, library 1:



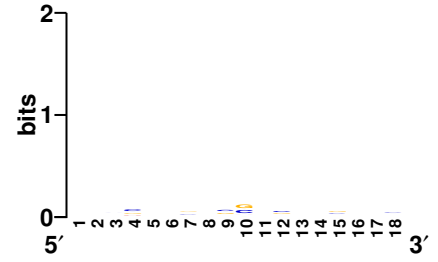
19-mers:



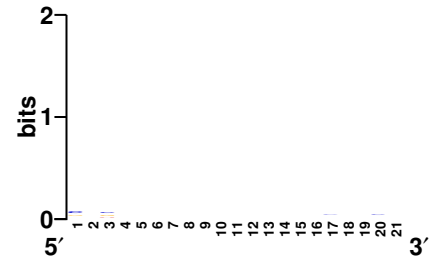
20-mers:



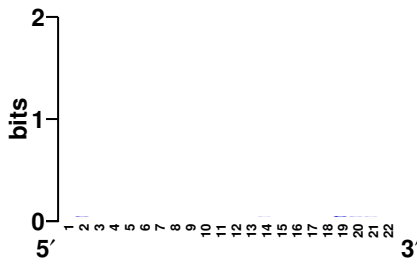
18-mers:



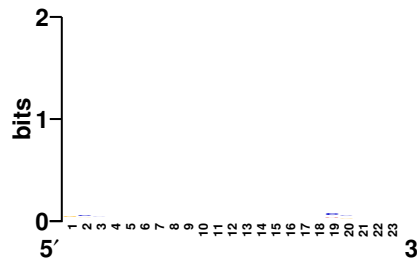
21-mers:



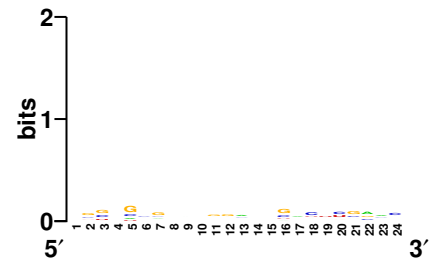
22-mers:



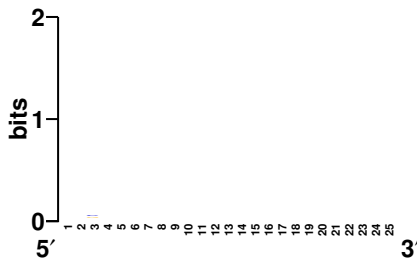
23-mers:



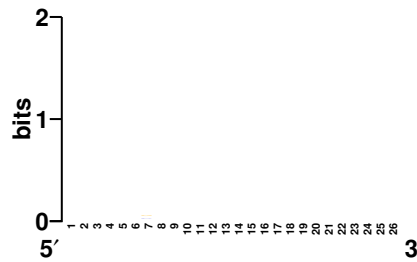
24-mers:



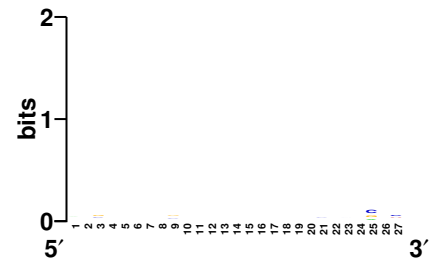
25-mers:



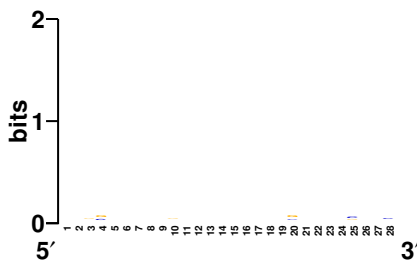
26-mers:



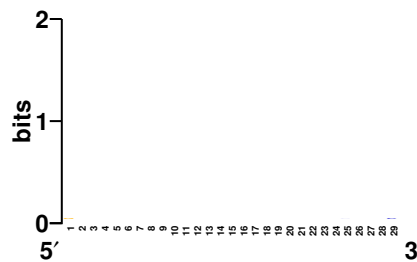
27-mers:



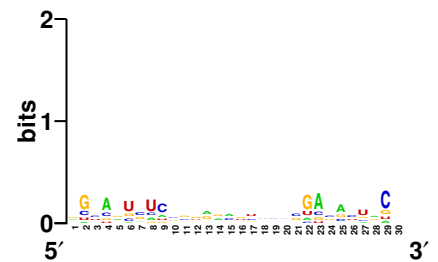
28-mers:



29-mers:

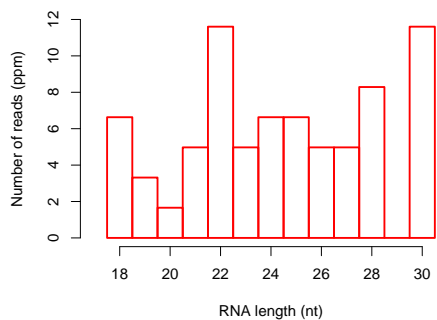


30-mers:

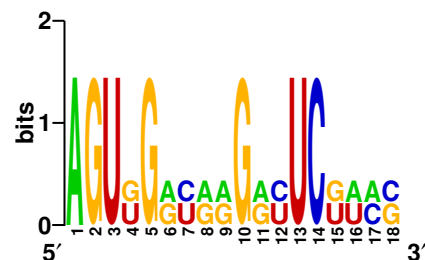


## 9.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

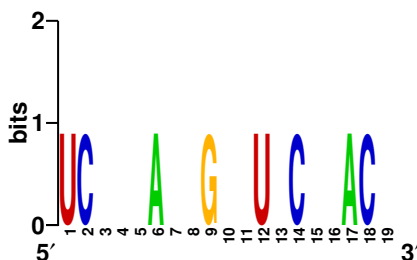
Embryo 8h, library 2:



18-mers:



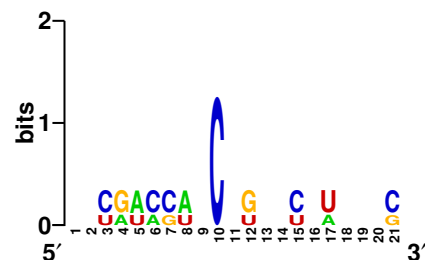
19-mers:



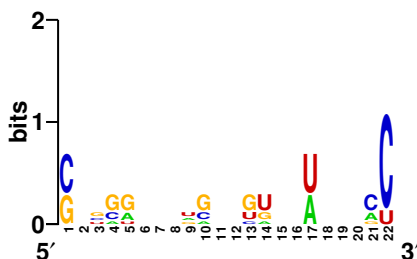
20-mers:



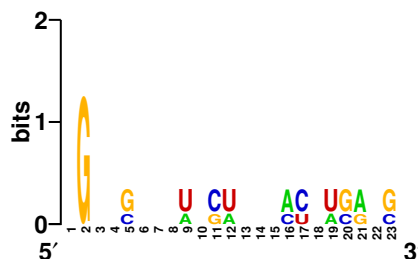
21-mers:



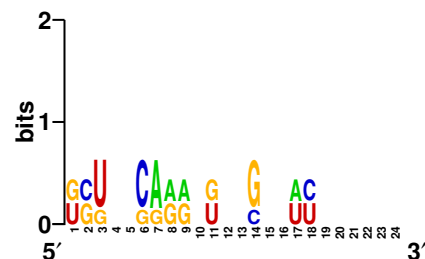
22-mers:



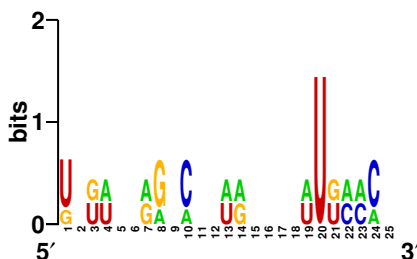
23-mers:



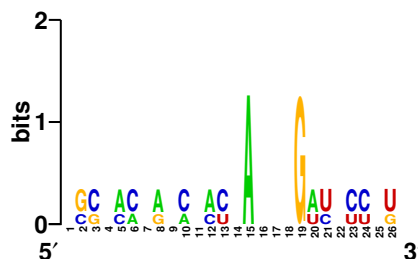
24-mers:



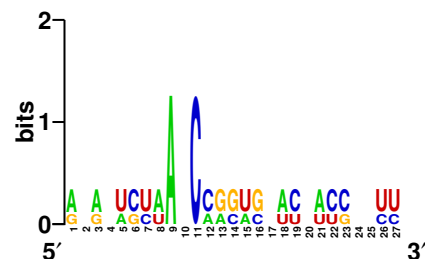
25-mers:



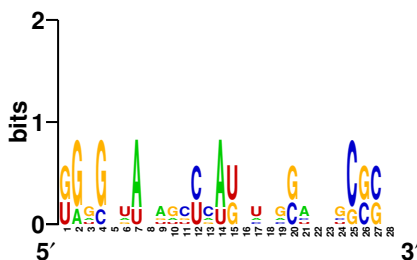
26-mers:



27-mers:



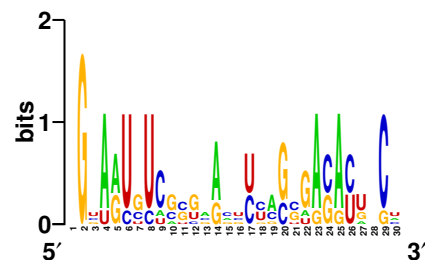
28-mers:



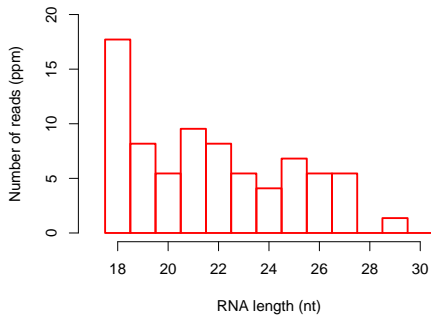
29-mers:

(no read)

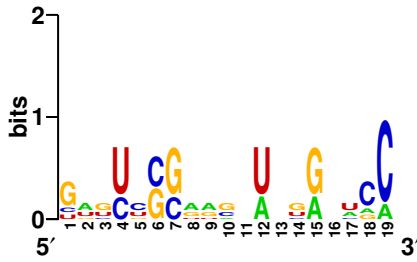
30-mers:



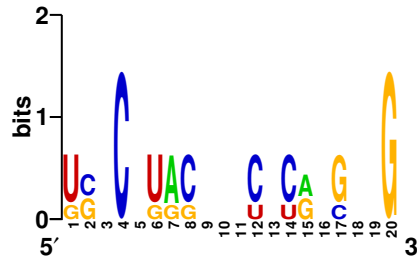
Embryo 15h, library 2:



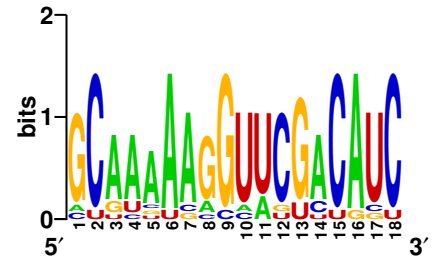
19-mers:



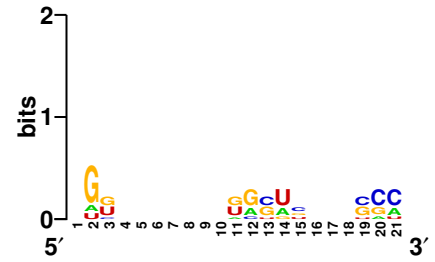
20-mers:



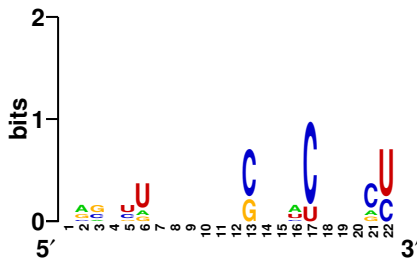
18-mers:



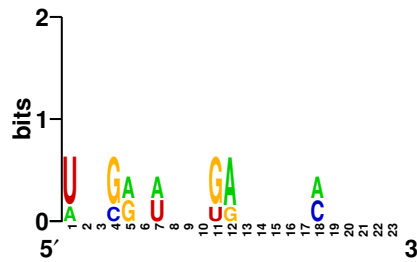
21-mers:



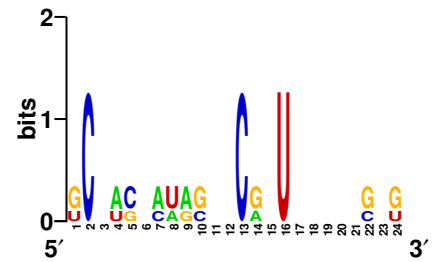
22-mers:



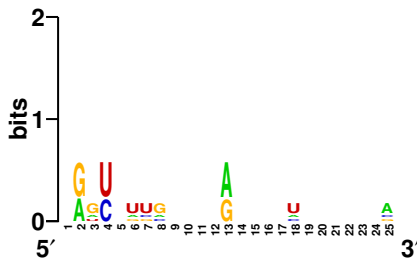
23-mers:



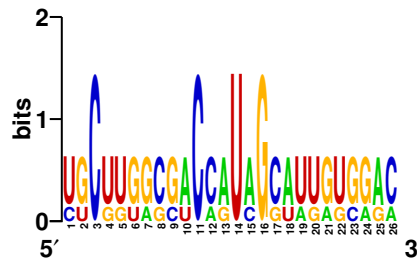
24-mers:



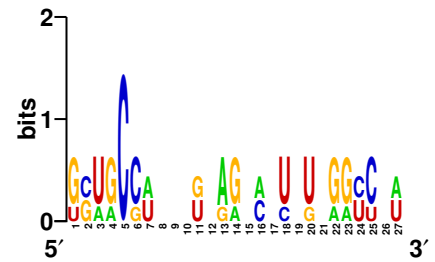
25-mers:



26-mers:



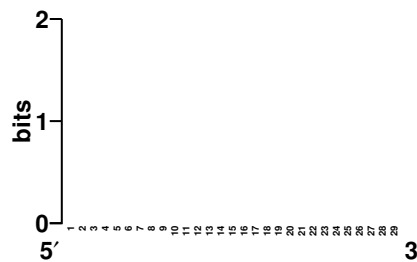
27-mers:



28-mers:

(no read)

29-mers:



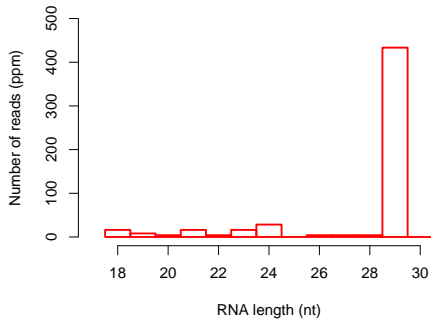
30-mers:

(no read)

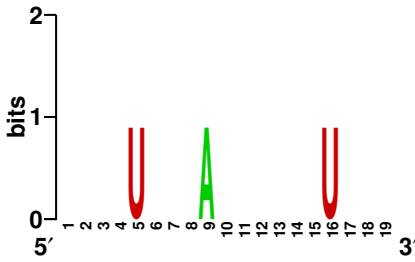




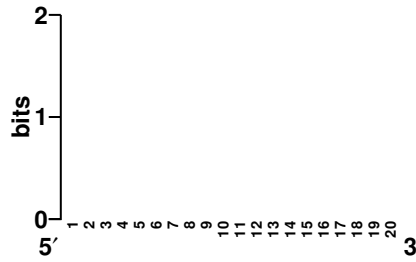
Embryo 60h, library 2:



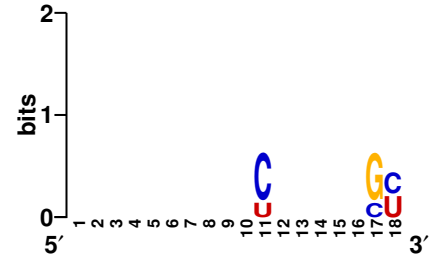
19-mers:



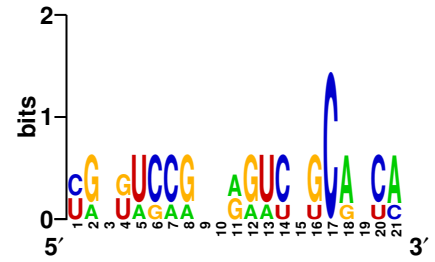
20-mers:



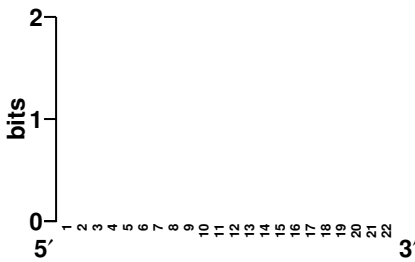
18-mers:



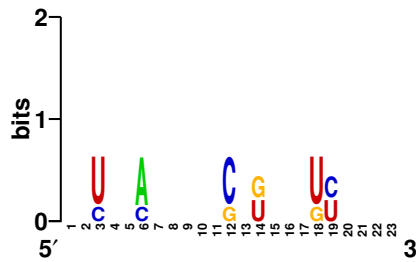
21-mers:



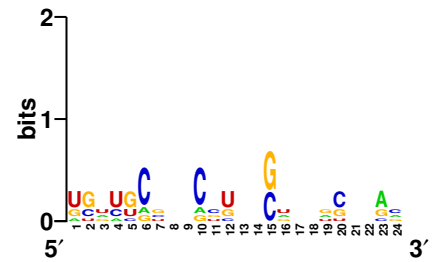
22-mers:



23-mers:

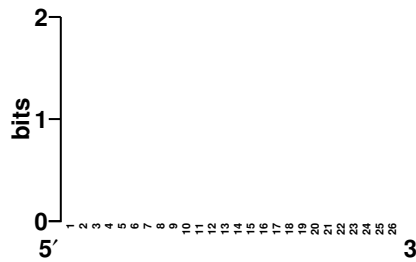


24-mers:

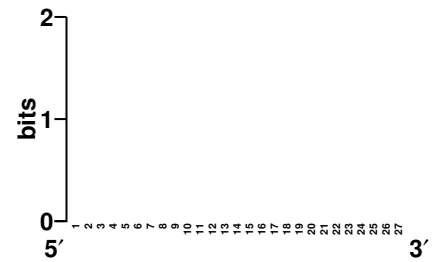


25-mers:

26-mers:

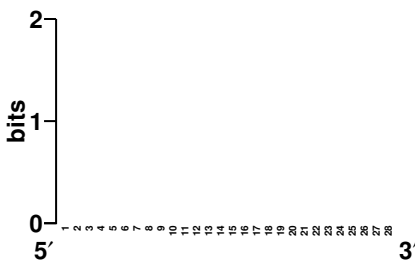


27-mers:

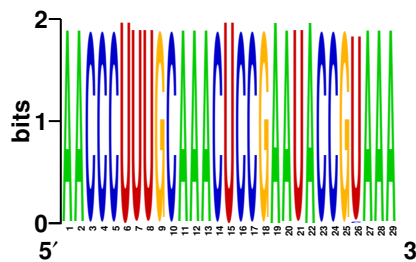


(no read)

28-mers:



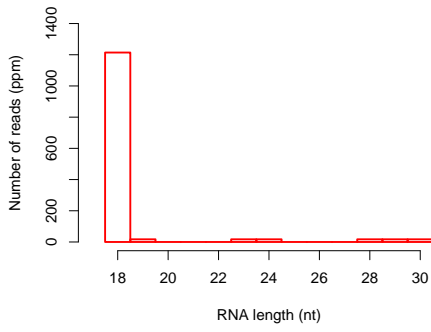
29-mers:



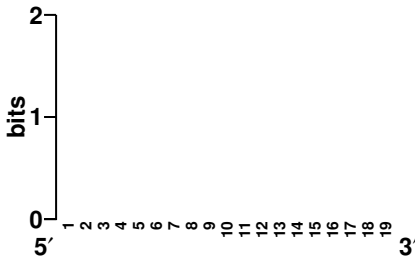
30-mers:

(no read)

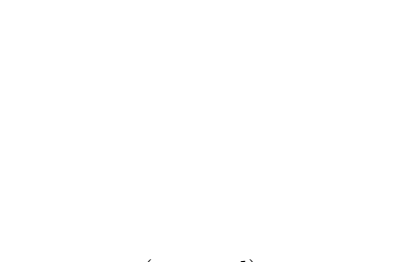
Adult female, library 2:



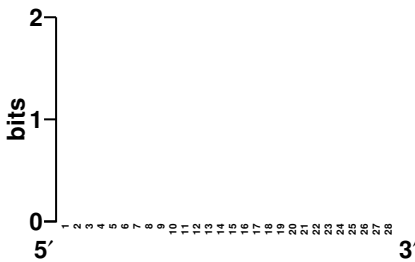
19-mers:



22-mers:

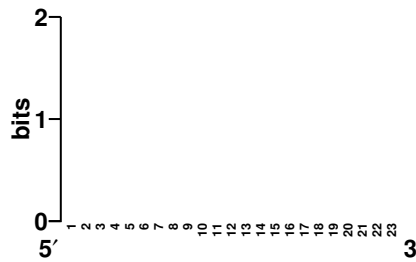


(no read)  
25-mers:  
(no read)  
28-mers:

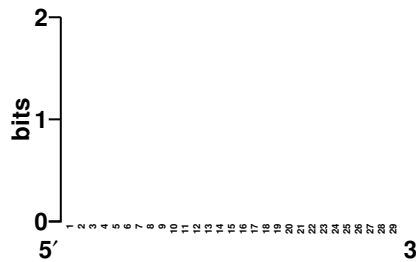


20-mers:

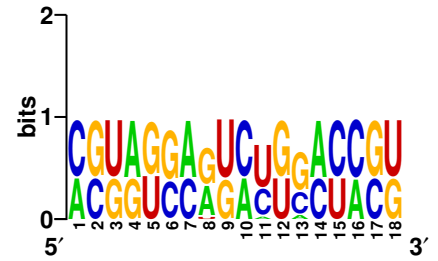
(no read)  
23-mers:



26-mers:  
(no read)  
29-mers:

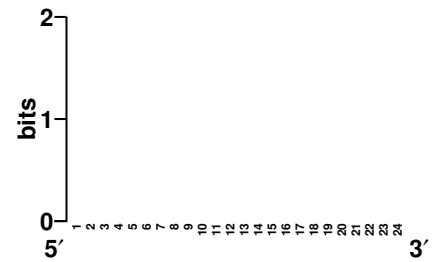


18-mers:

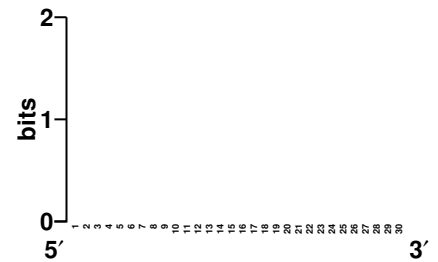


21-mers:

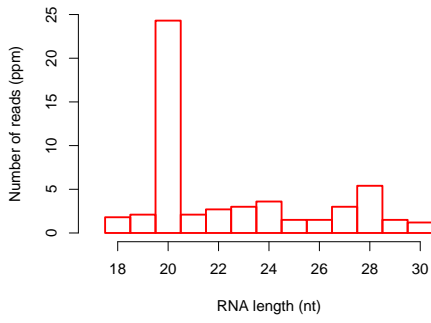
(no read)  
24-mers:



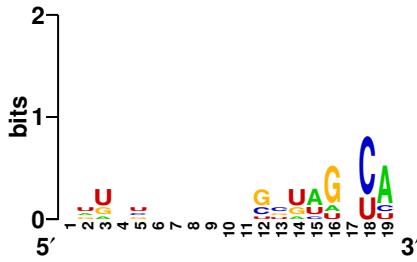
27-mers:  
(no read)  
30-mers:



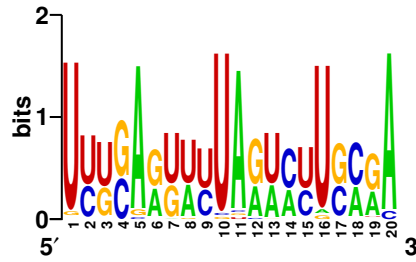
Adult male, library 2:



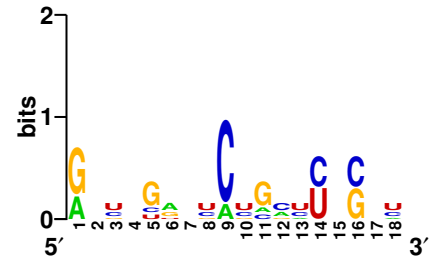
19-mers:



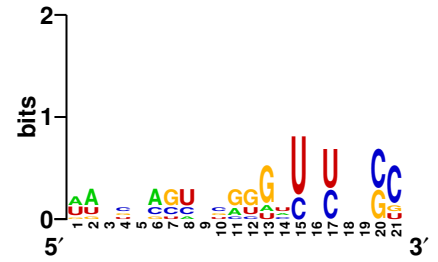
20-mers:



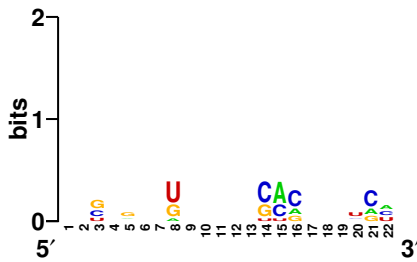
18-mers:



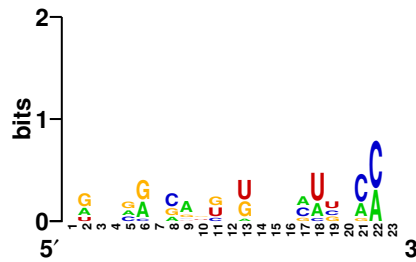
21-mers:



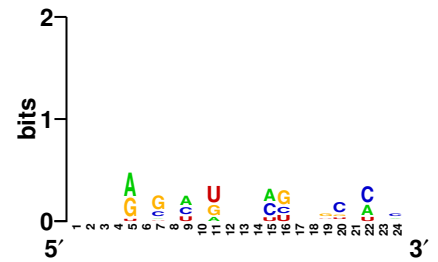
22-mers:



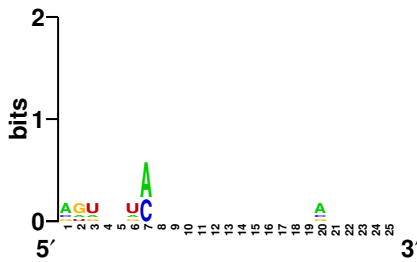
23-mers:



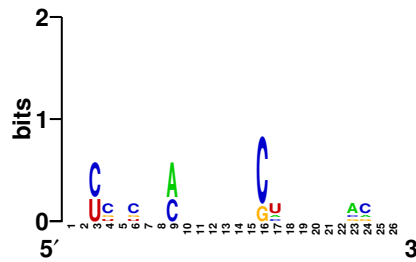
24-mers:



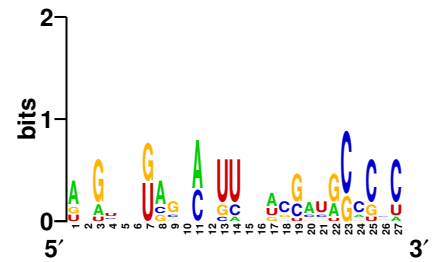
25-mers:



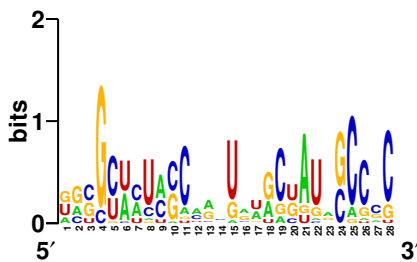
26-mers:



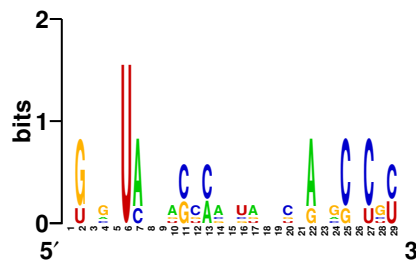
27-mers:



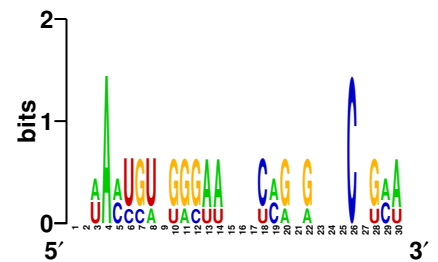
28-mers:



29-mers:

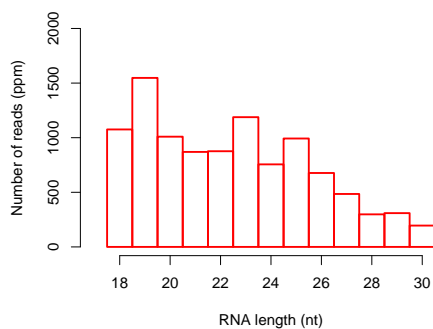


30-mers:

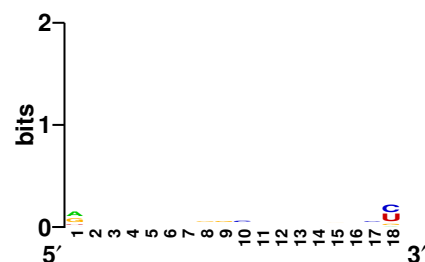


### 9.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

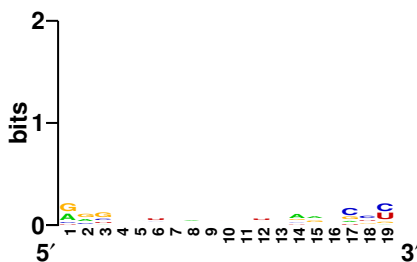
Embryo 8h, library 3:



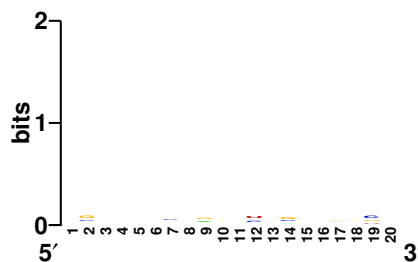
18-mers:



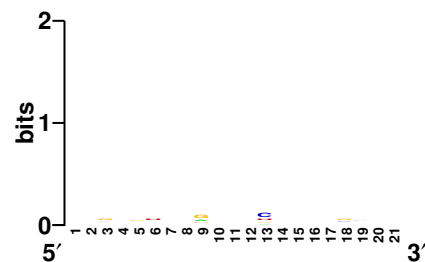
19-mers:



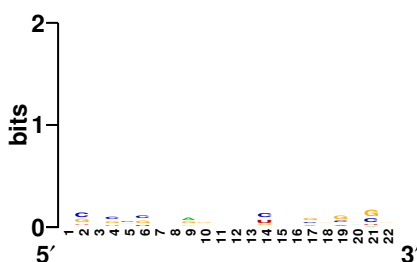
20-mers:



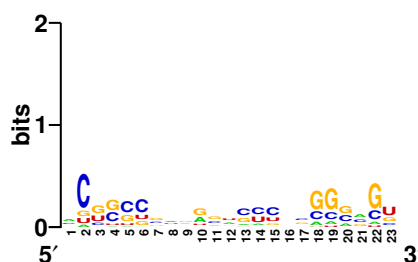
21-mers:



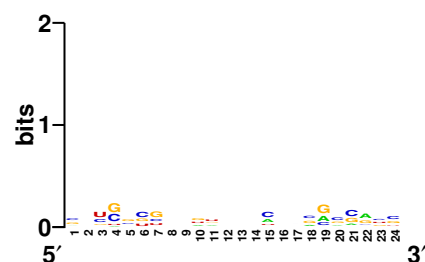
22-mers:



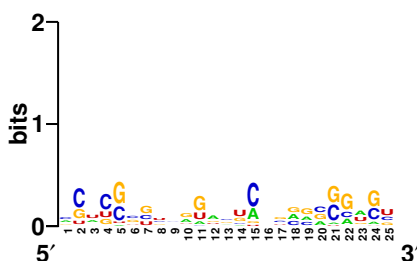
23-mers:



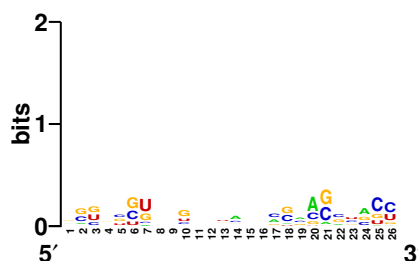
24-mers:



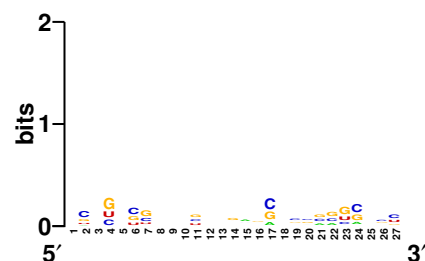
25-mers:



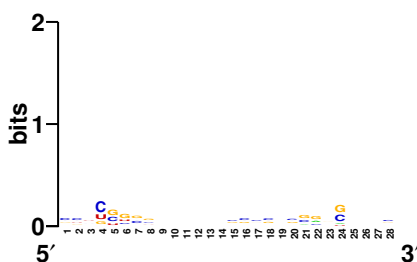
26-mers:



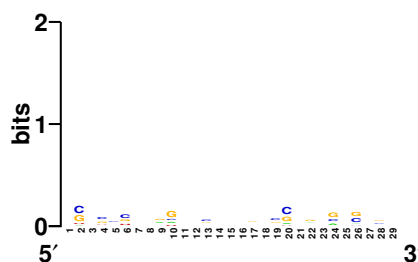
27-mers:



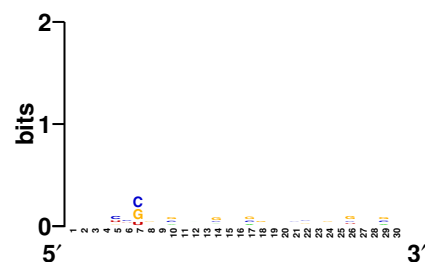
28-mers:



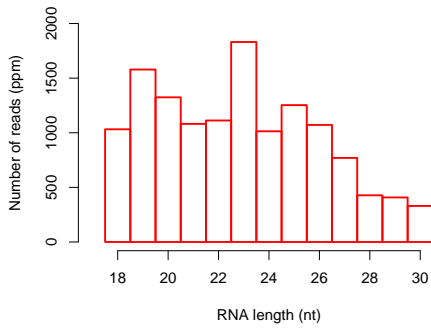
29-mers:



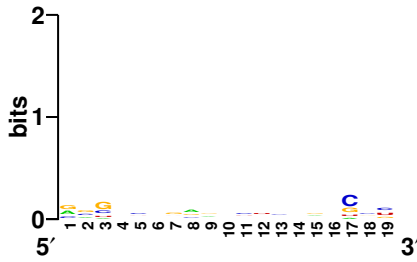
30-mers:



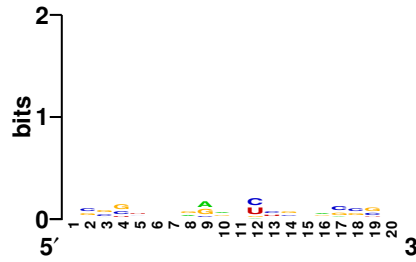
Embryo 15h, library 3:



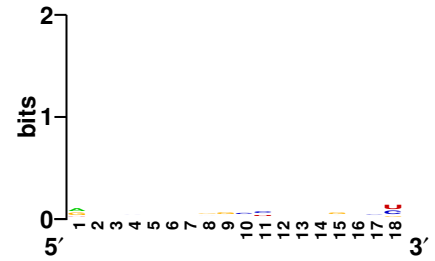
19-mers:



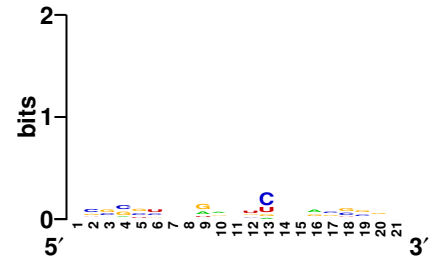
20-mers:



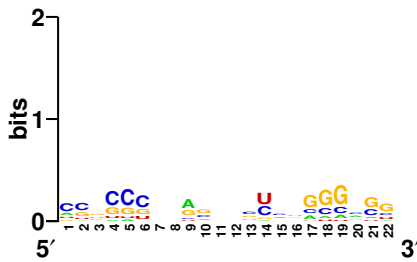
18-mers:



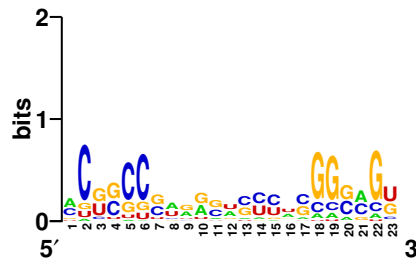
21-mers:



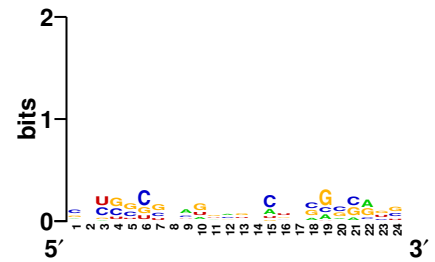
22-mers:



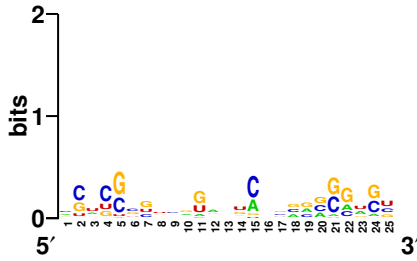
23-mers:



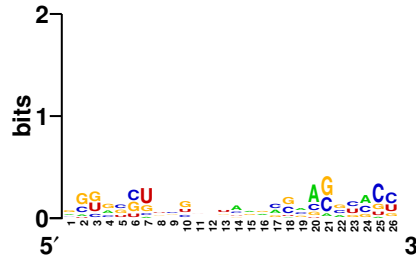
24-mers:



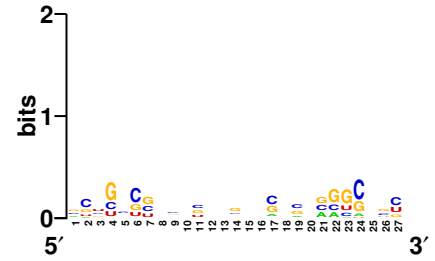
25-mers:



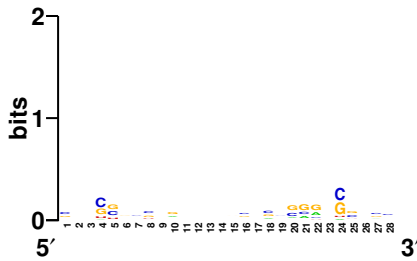
26-mers:



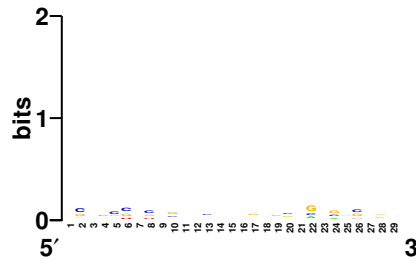
27-mers:



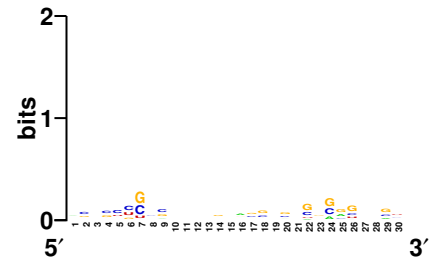
28-mers:



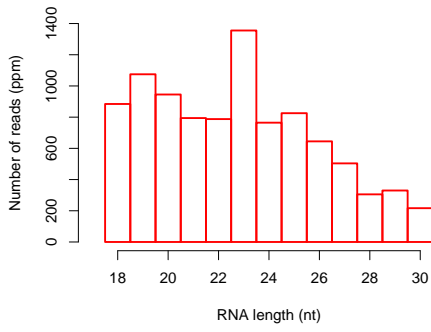
29-mers:



30-mers:



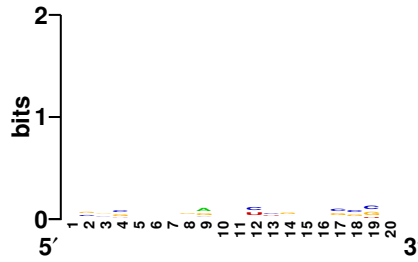
Embryo 36h, library 3:



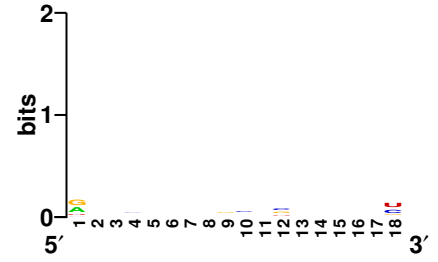
19-mers:



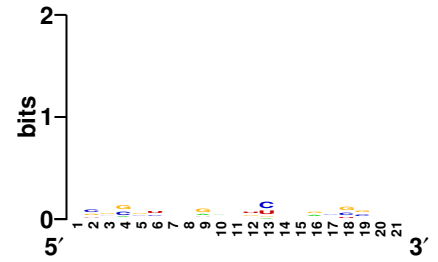
20-mers:



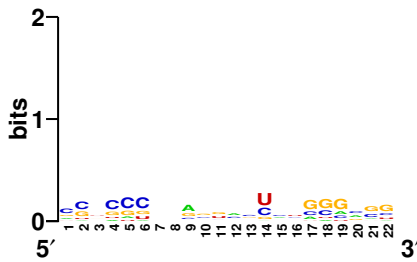
18-mers:



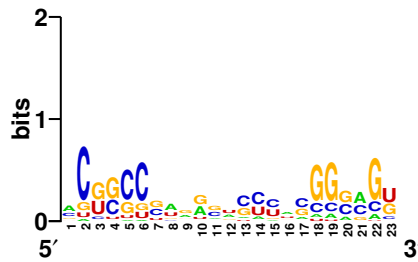
21-mers:



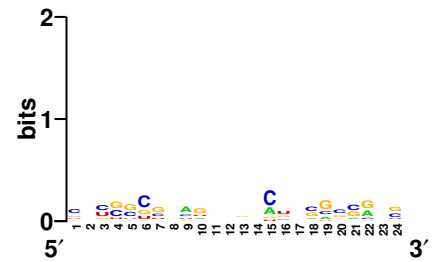
22-mers:



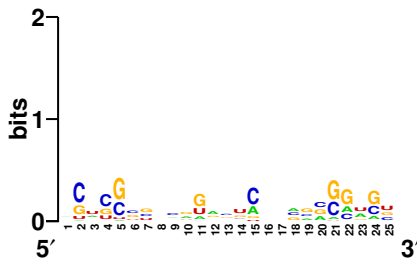
23-mers:



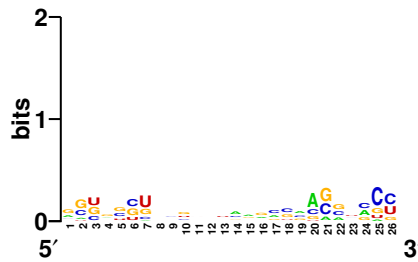
24-mers:



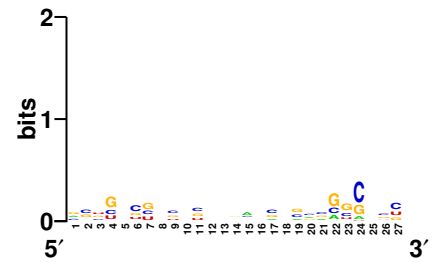
25-mers:



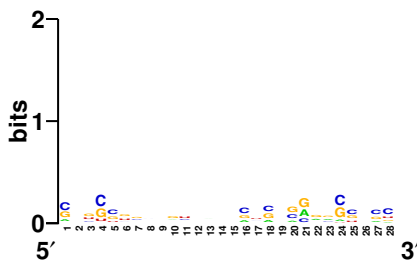
26-mers:



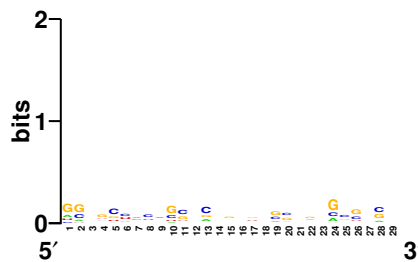
27-mers:



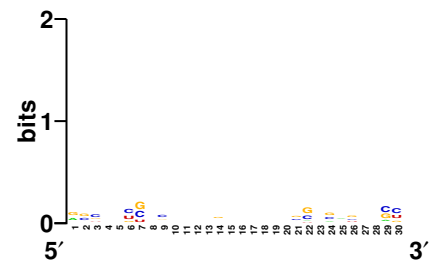
28-mers:



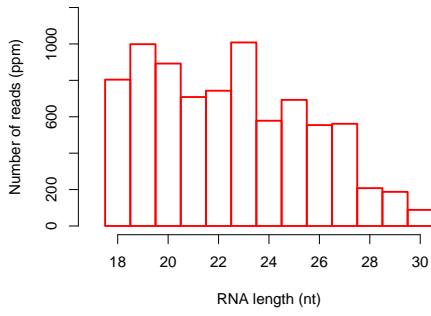
29-mers:



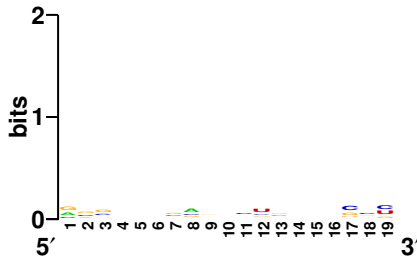
30-mers:



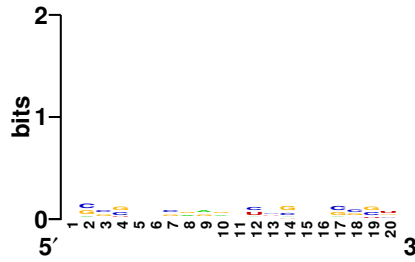
Embryo 60h, library 3:



19-mers:



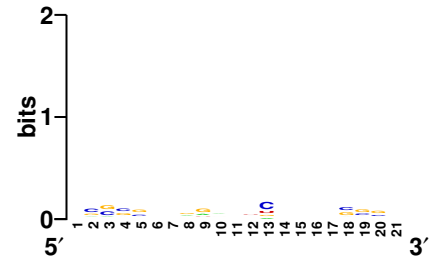
20-mers:



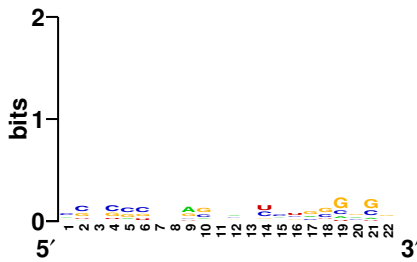
18-mers:



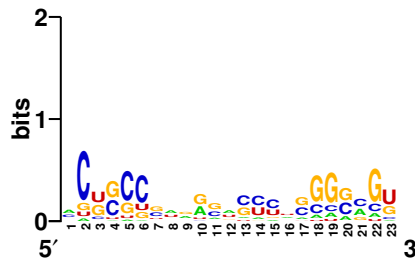
21-mers:



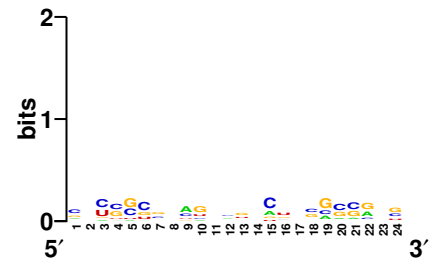
22-mers:



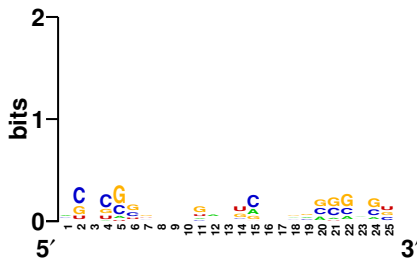
23-mers:



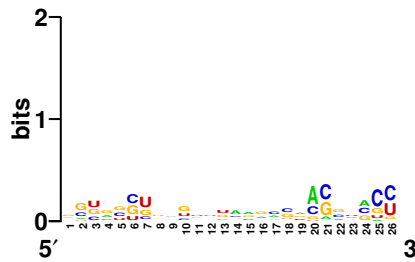
24-mers:



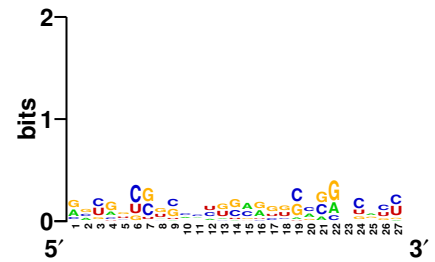
25-mers:



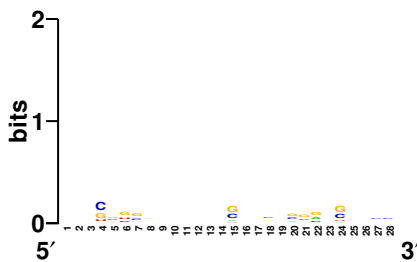
26-mers:



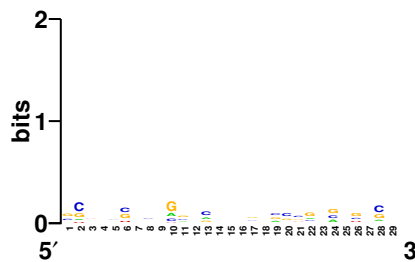
27-mers:



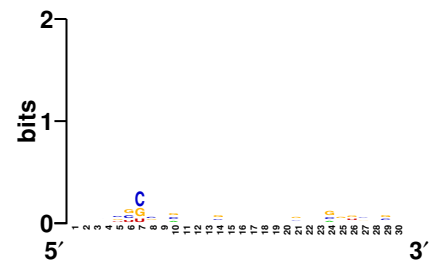
28-mers:



29-mers:

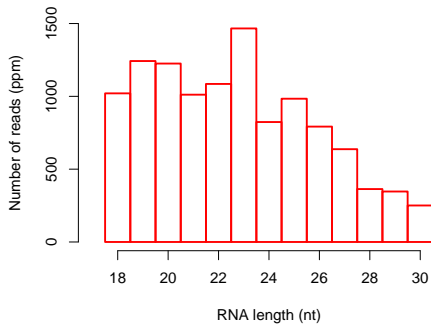


30-mers:

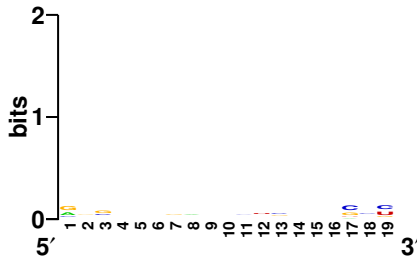




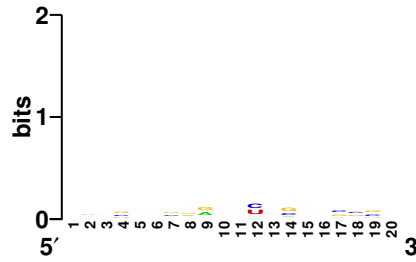
Adult female, library 3:



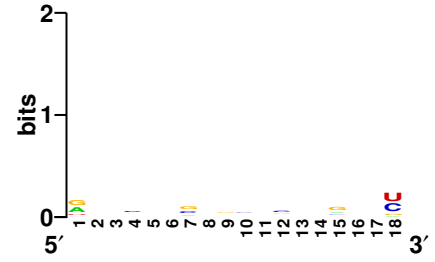
19-mers:



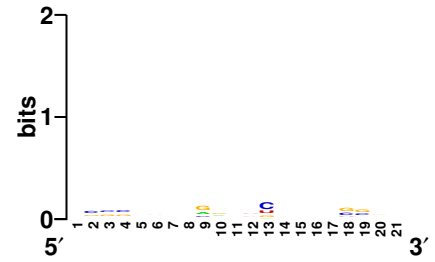
20-mers:



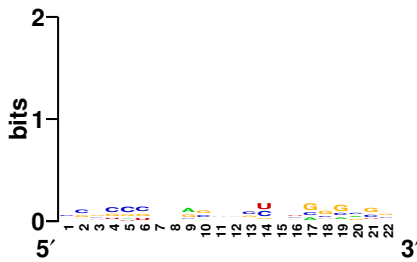
18-mers:



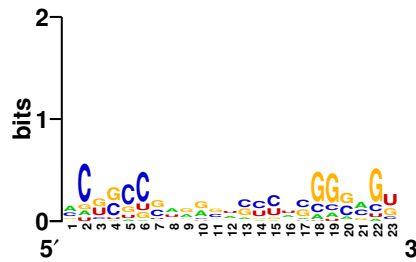
21-mers:



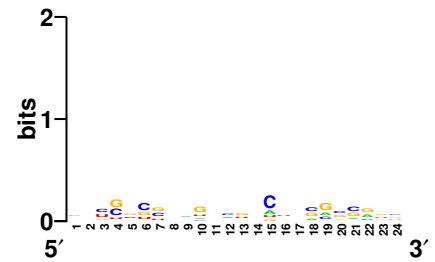
22-mers:



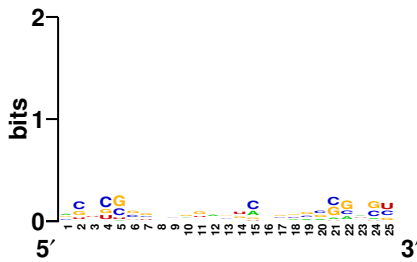
23-mers:



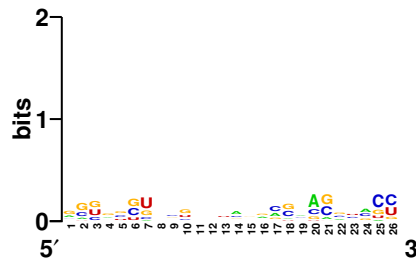
24-mers:



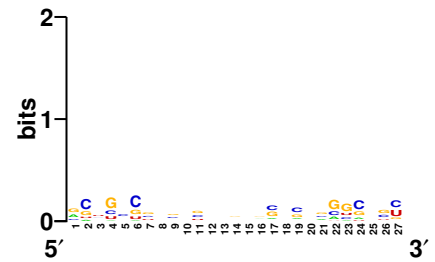
25-mers:



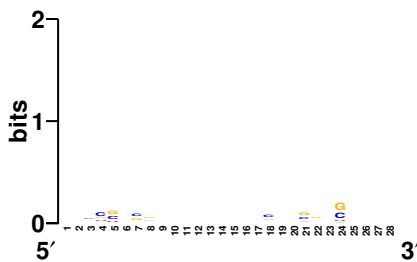
26-mers:



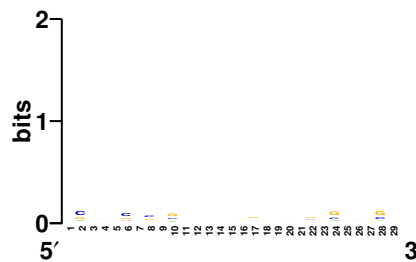
27-mers:



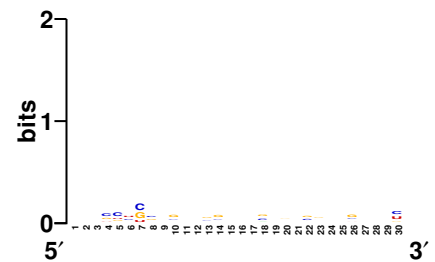
28-mers:



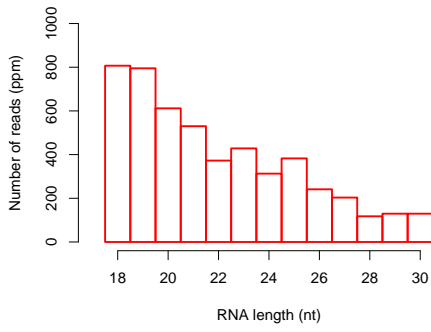
29-mers:



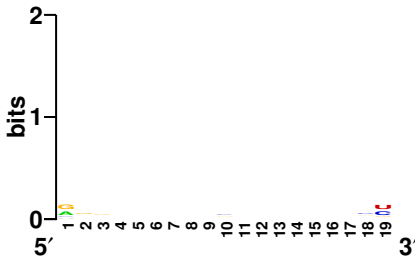
30-mers:



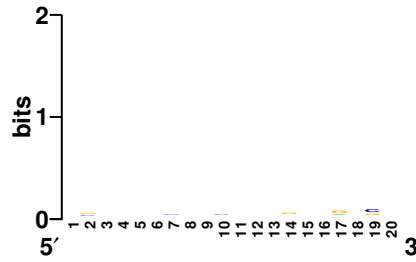
Adult male, library 3:



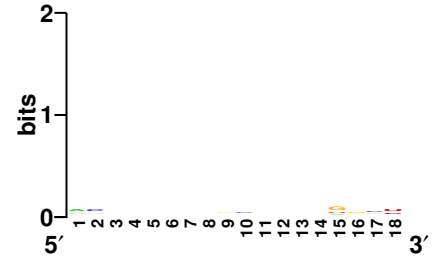
19-mers:



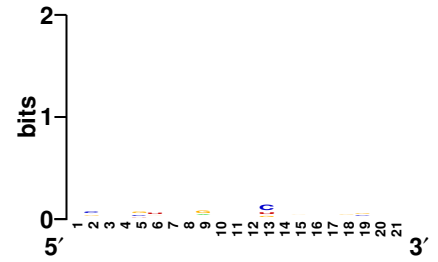
20-mers:



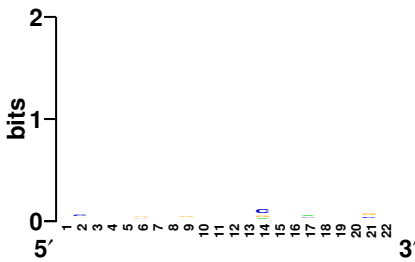
18-mers:



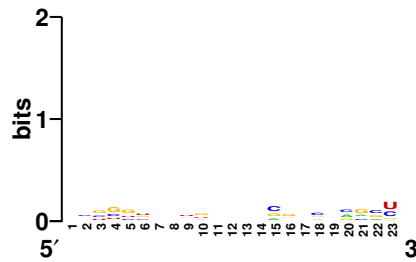
21-mers:



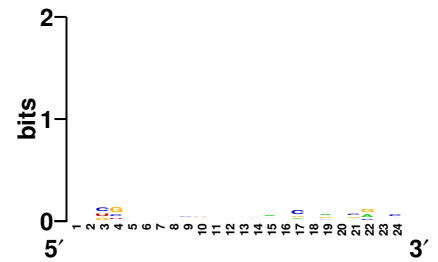
22-mers:



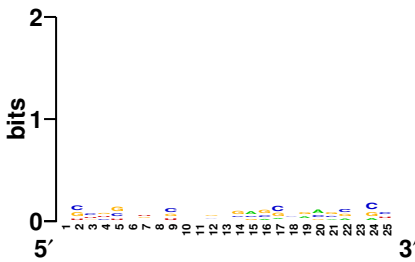
23-mers:



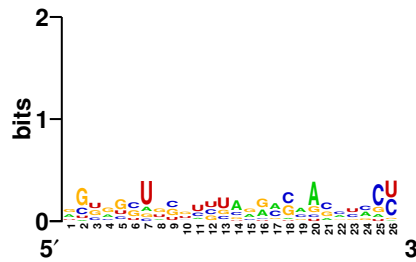
24-mers:



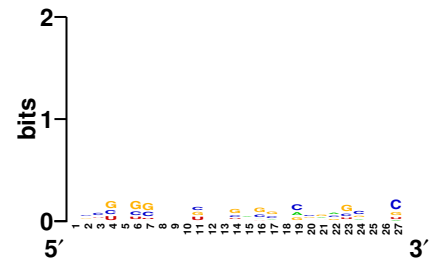
25-mers:



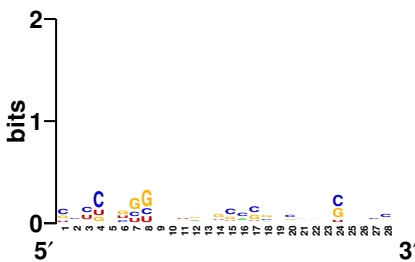
26-mers:



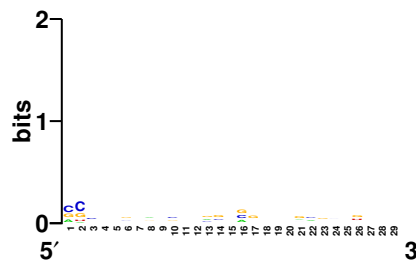
27-mers:



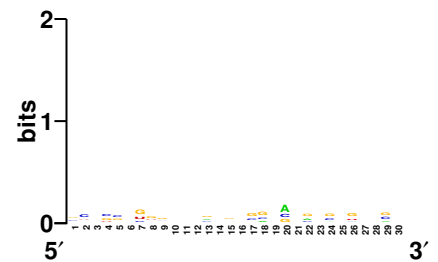
28-mers:



29-mers:



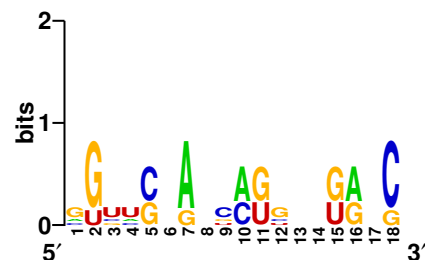
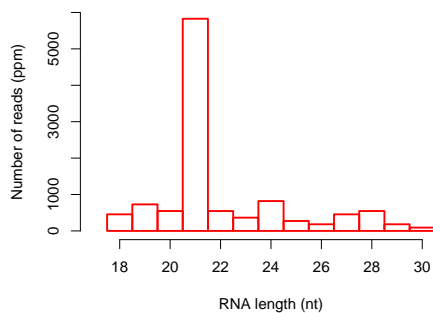
30-mers:



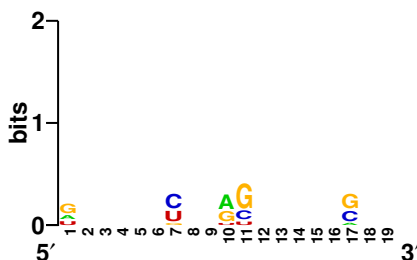
## 9.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 4:

18-mers:



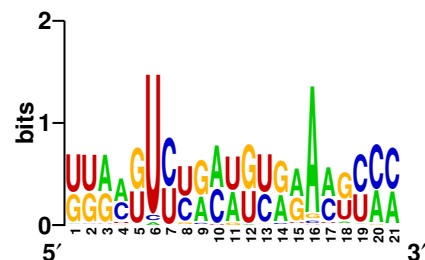
19-mers:



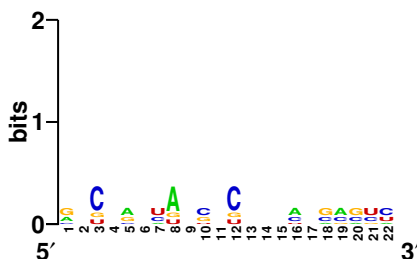
20-mers:



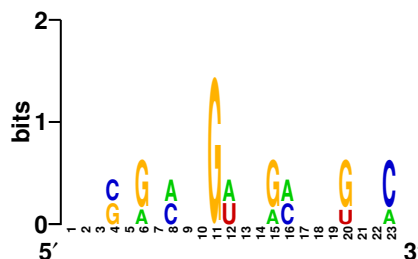
21-mers:



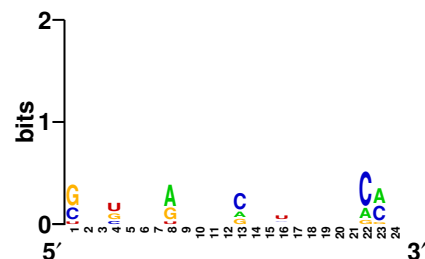
22-mers:



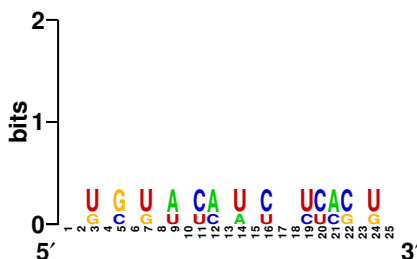
23-mers:



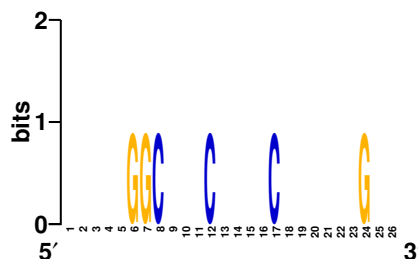
24-mers:



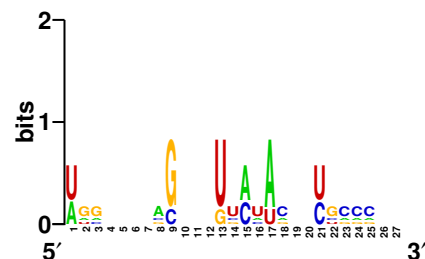
25-mers:



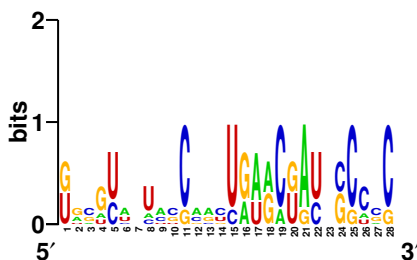
26-mers:



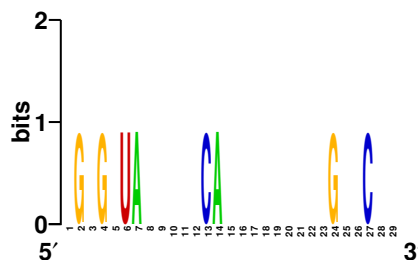
27-mers:



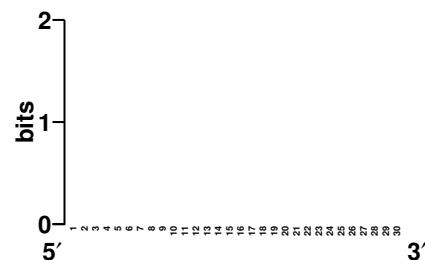
28-mers:



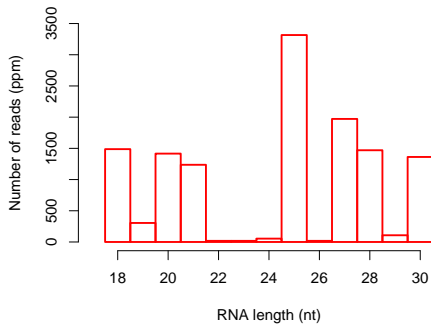
29-mers:



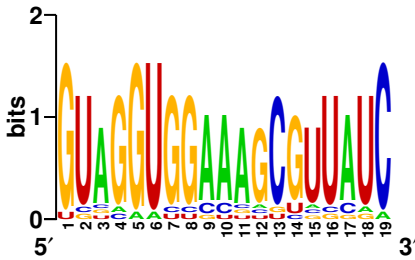
30-mers:



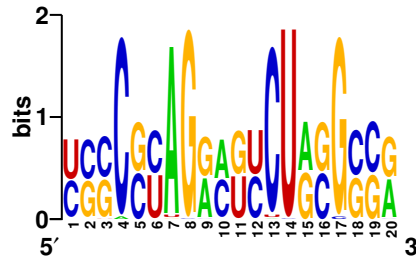
Embryo 15h, library 4:



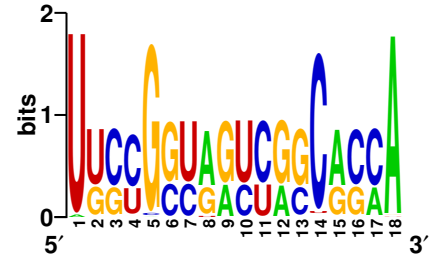
19-mers:



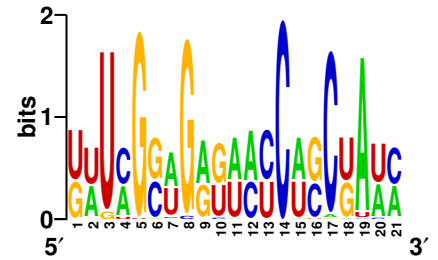
20-mers:



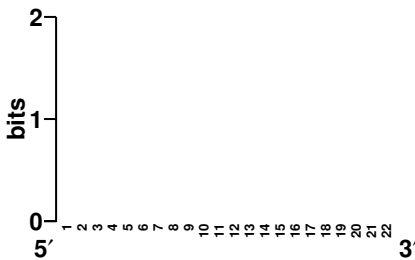
18-mers:



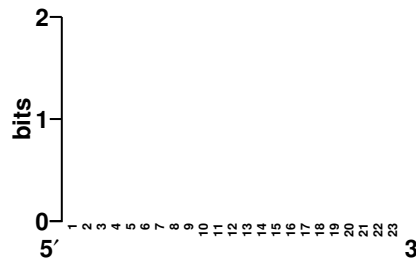
21-mers:



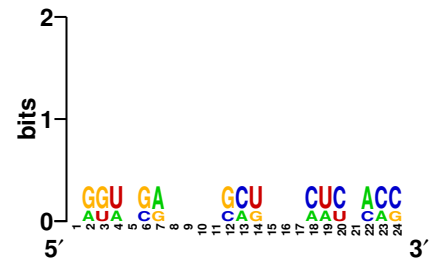
22-mers:



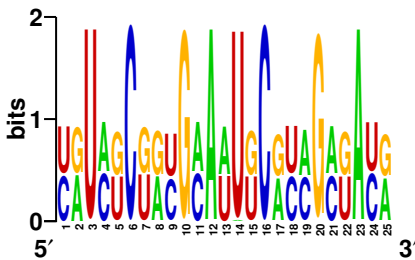
23-mers:



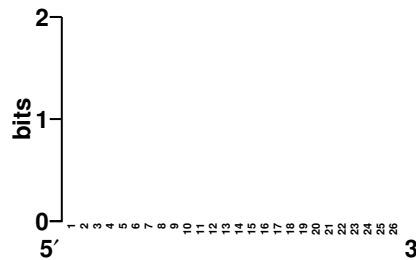
24-mers:



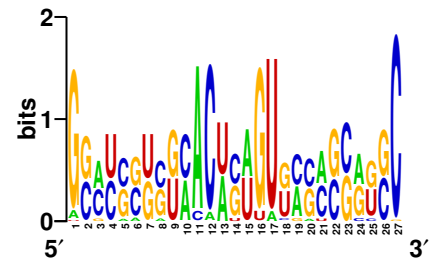
25-mers:



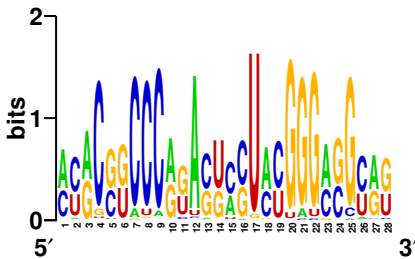
26-mers:



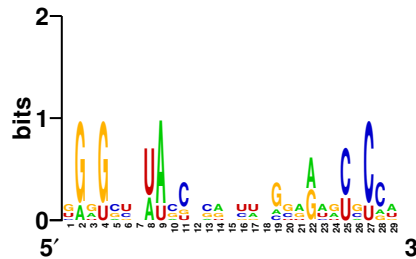
27-mers:



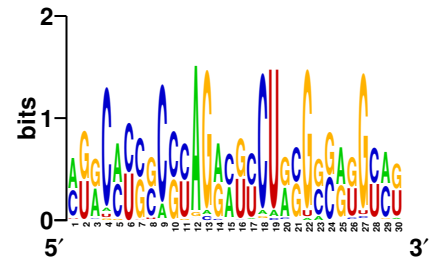
28-mers:



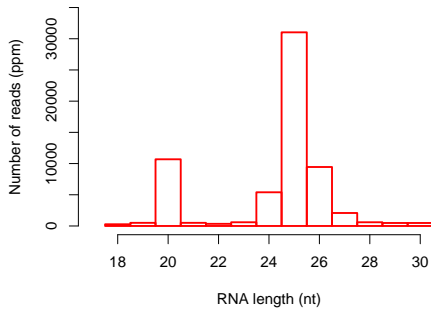
29-mers:



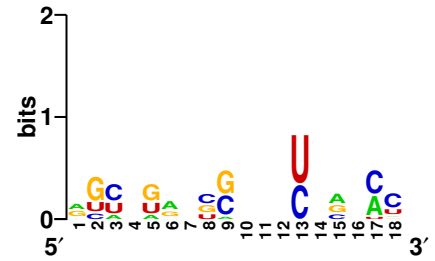
30-mers:



Embryo 36h, library 4:



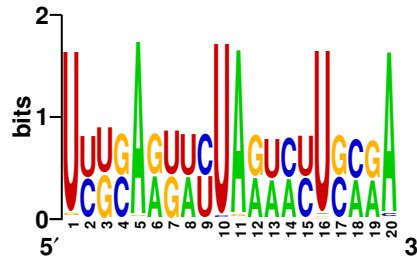
18-mers:



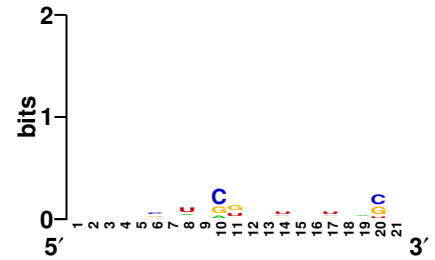
19-mers:



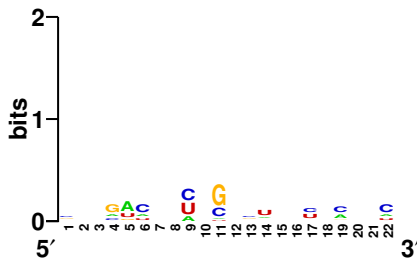
20-mers:



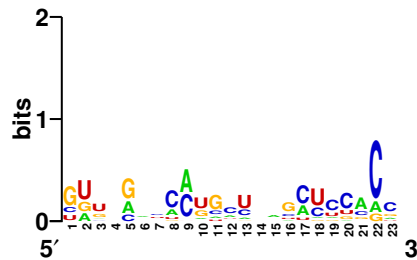
21-mers:



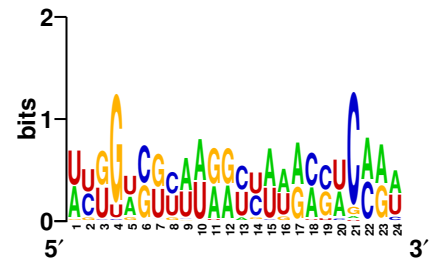
22-mers:



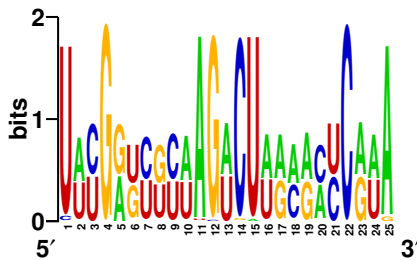
23-mers:



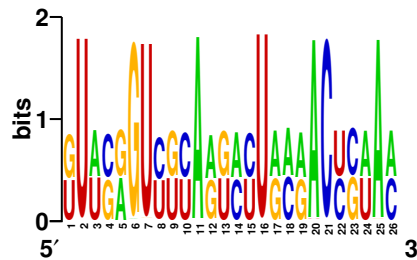
24-mers:



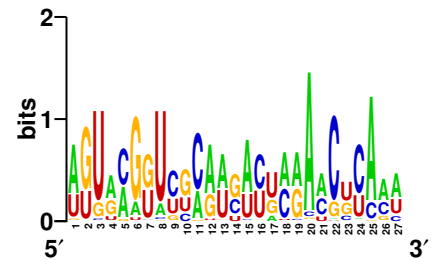
25-mers:



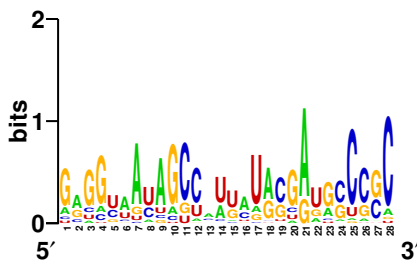
26-mers:



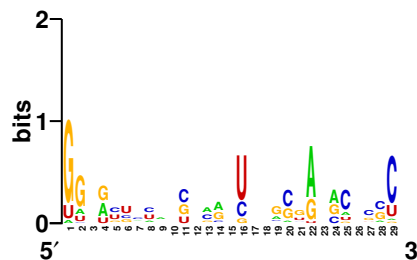
27-mers:



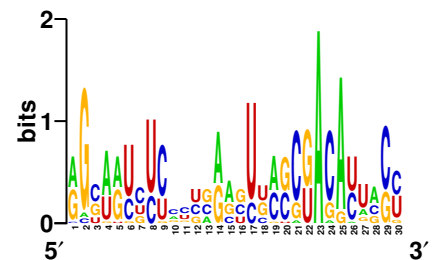
28-mers:



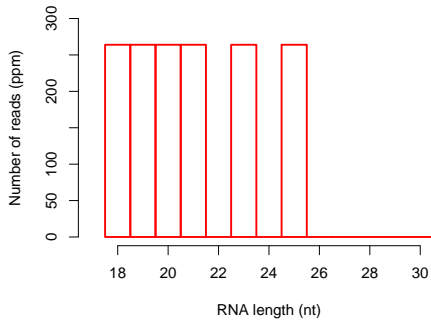
29-mers:



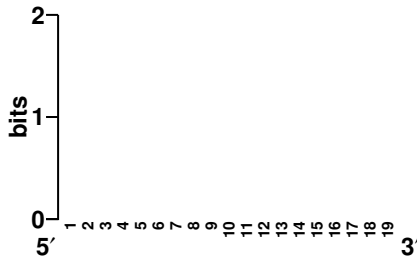
30-mers:



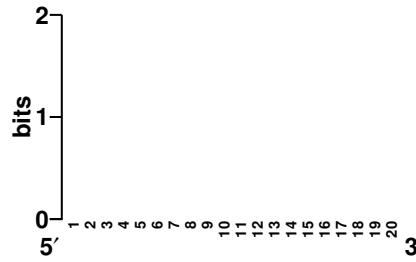
Embryo 60h, library 4:



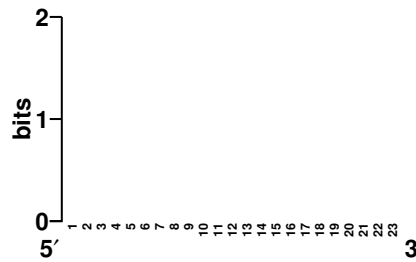
19-mers:



22-mers:



20-mers:



23-mers:

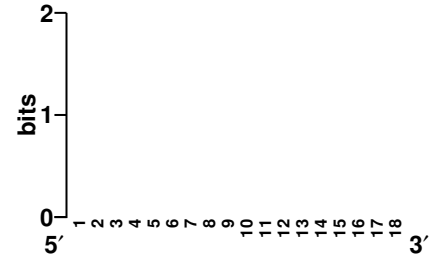
26-mers:

(no read)

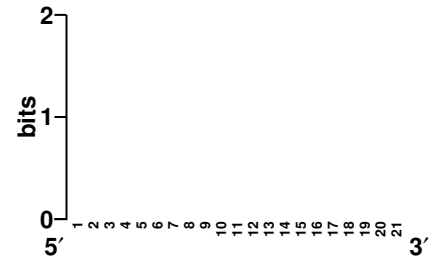
29-mers:

(no read)

18-mers:



21-mers:



24-mers:

(no read)

27-mers:

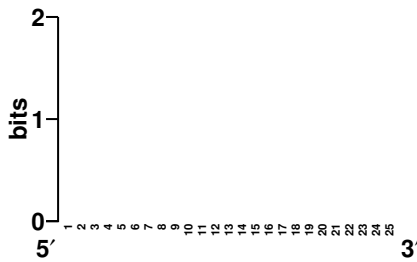
(no read)

30-mers:

(no read)

(no read)

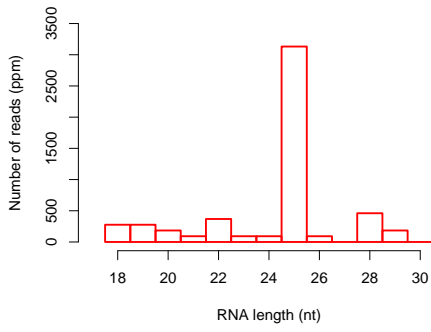
25-mers:



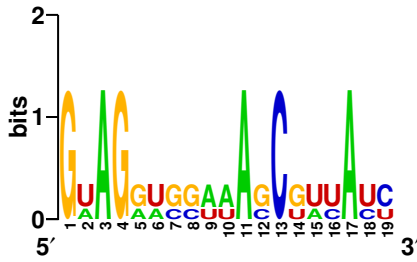
28-mers:

(no read)

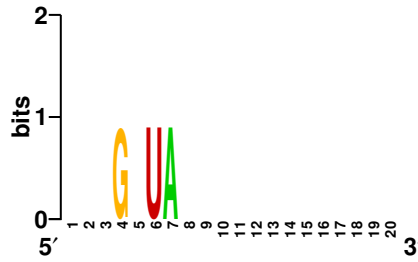
Adult female, library 4:



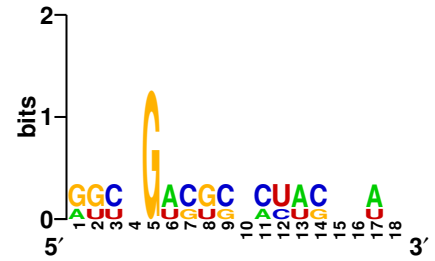
19-mers:



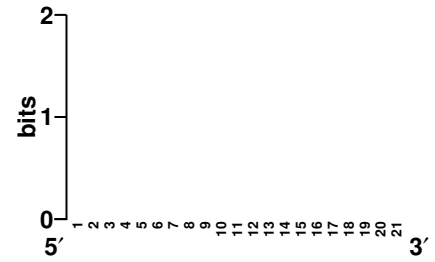
20-mers:



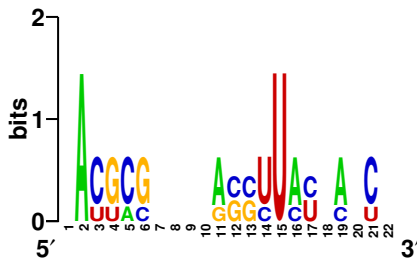
18-mers:



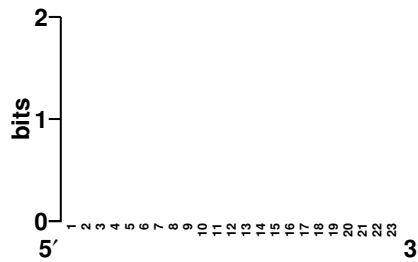
21-mers:



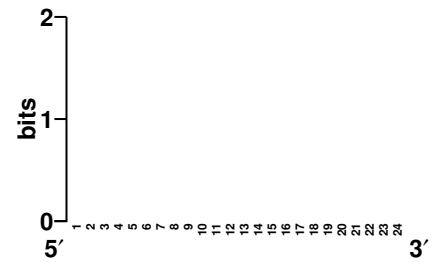
22-mers:



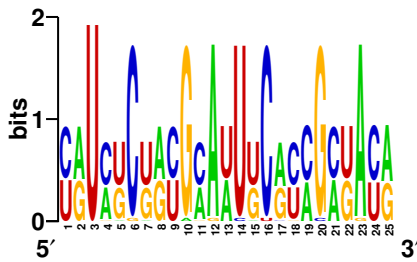
23-mers:



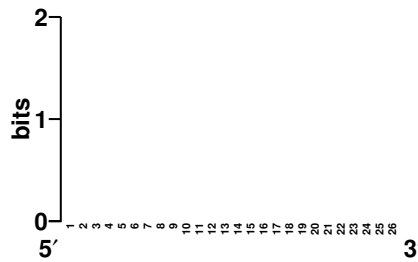
24-mers:



25-mers:



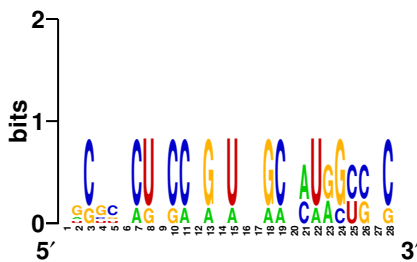
26-mers:



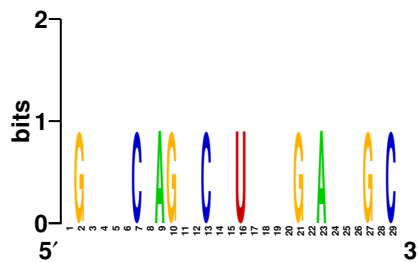
27-mers:

(no read)

28-mers:



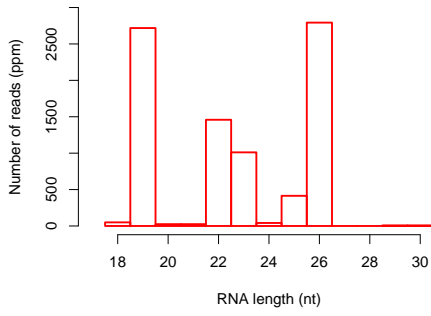
29-mers:



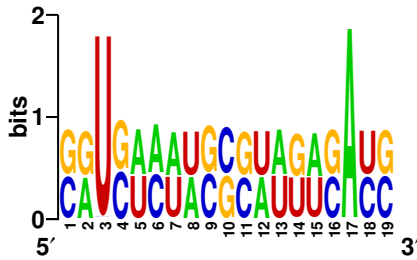
30-mers:

(no read)

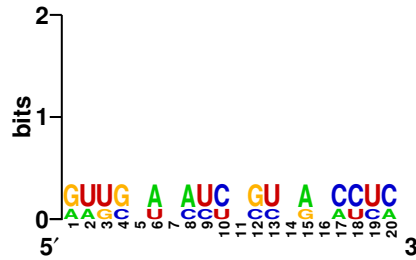
Adult male, library 4:



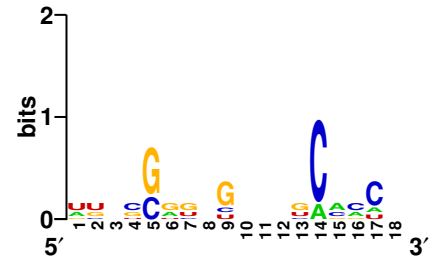
19-mers:



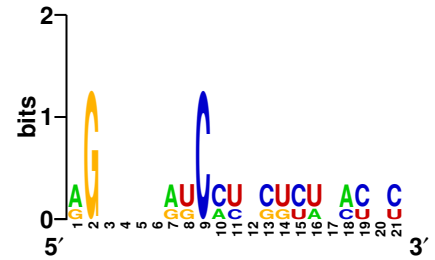
20-mers:



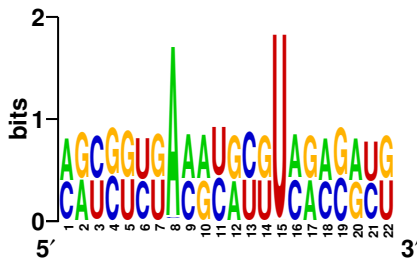
18-mers:



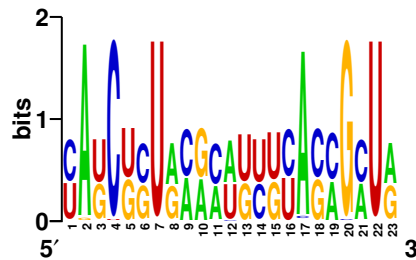
21-mers:



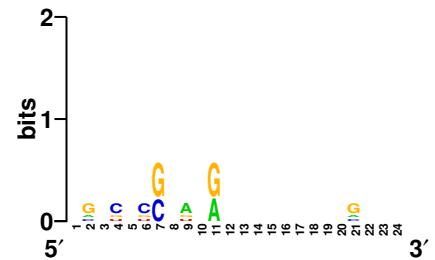
22-mers:



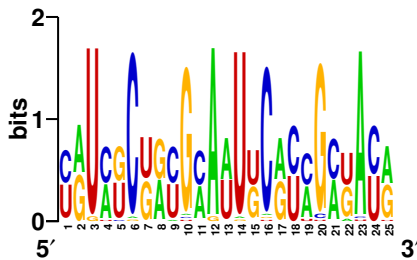
23-mers:



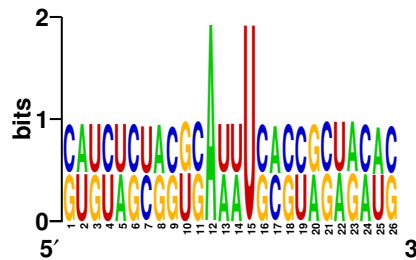
24-mers:



25-mers:



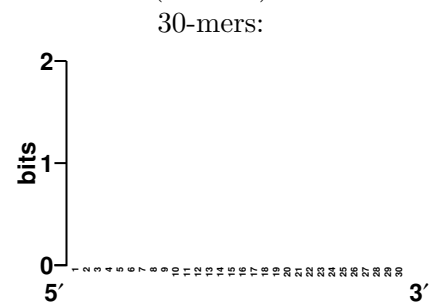
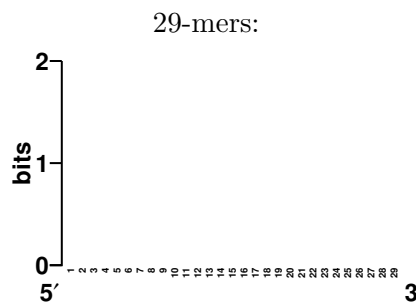
26-mers:



27-mers:

(no read)

30-mers:



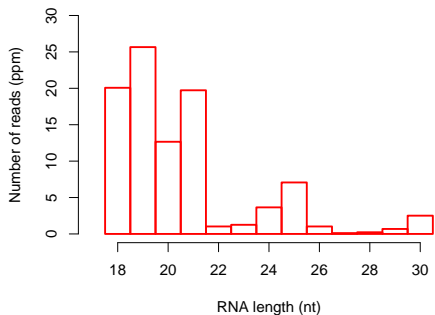
(no read)



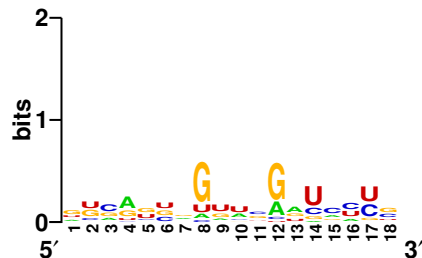
# 10 Extragenomic and extratranscriptomic reads matching the ATCV1 genome

## 10.1 Libraries #1 (total 5' monophosphorylated small RNAs)

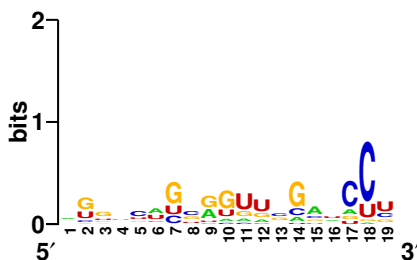
Embryo 8h, library 1:



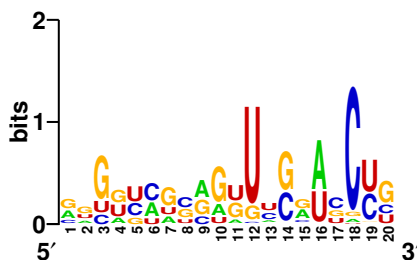
18-mers:



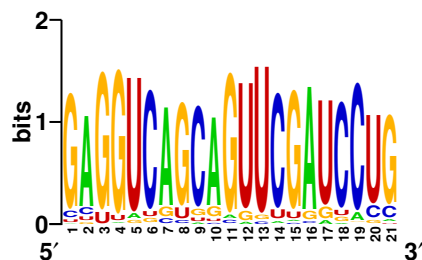
19-mers:



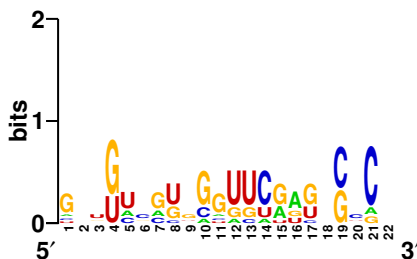
20-mers:



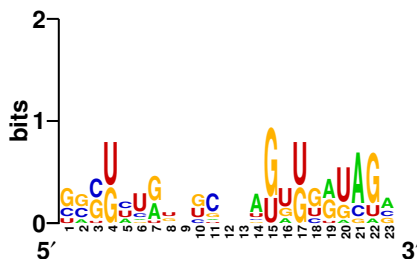
21-mers:



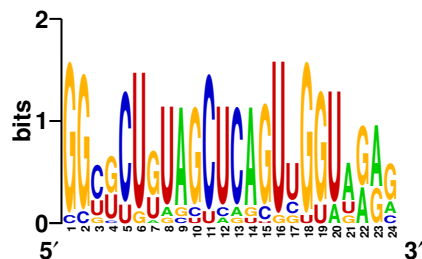
22-mers:



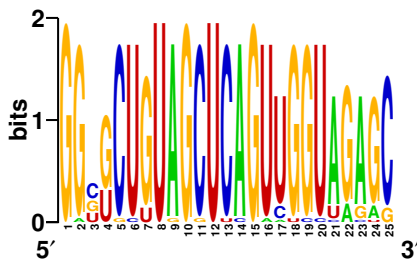
23-mers:



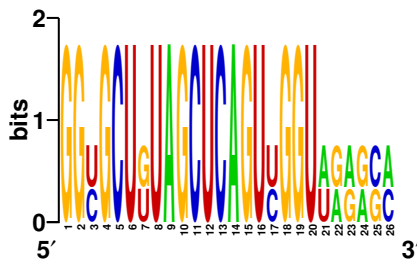
24-mers:



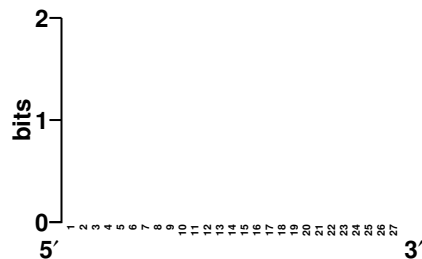
25-mers:



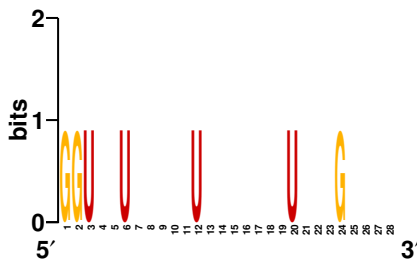
26-mers:



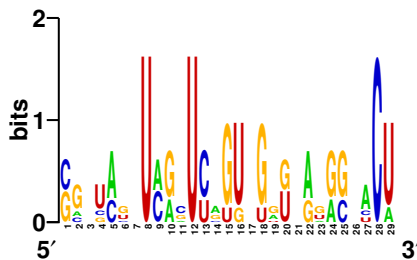
27-mers:



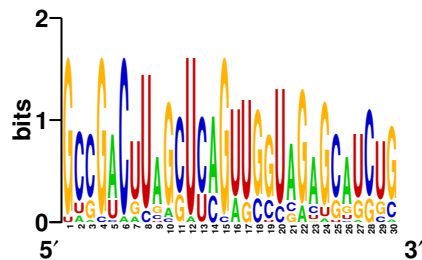
28-mers:



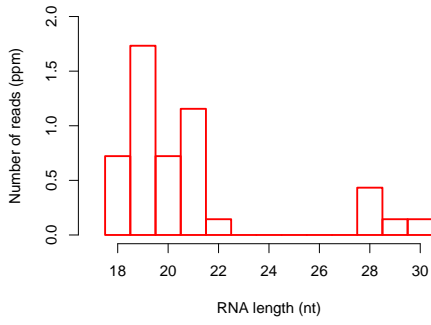
29-mers:



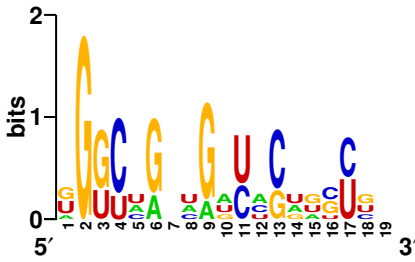
30-mers:



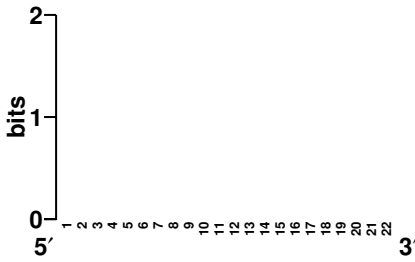
Embryo 15h, library 1:



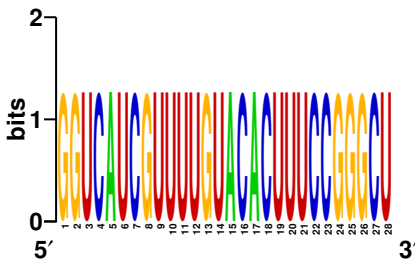
19-mers:



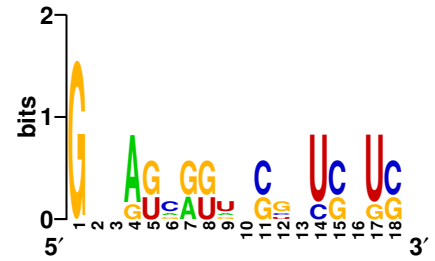
22-mers:



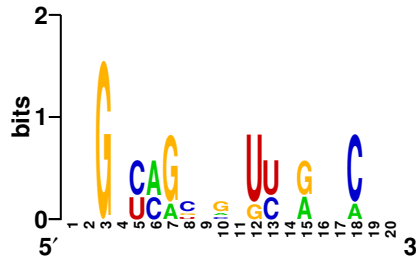
25-mers:  
(no read)  
28-mers:



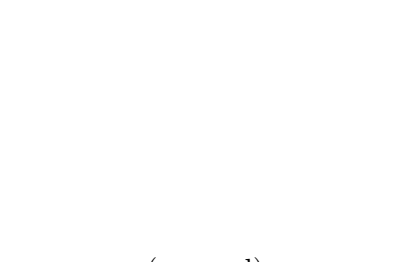
18-mers:



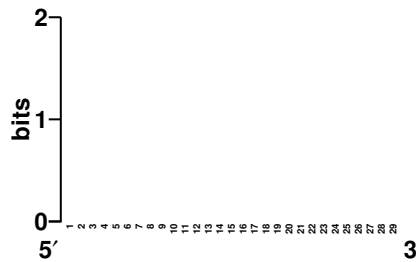
20-mers:



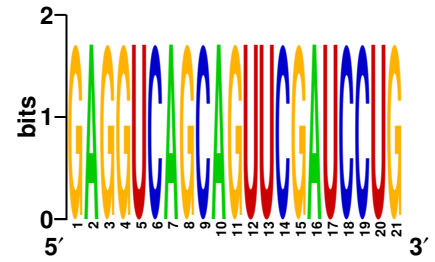
23-mers:



(no read)  
26-mers:  
(no read)  
29-mers:



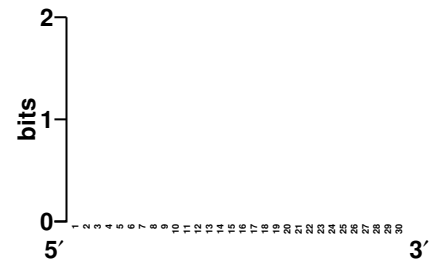
21-mers:



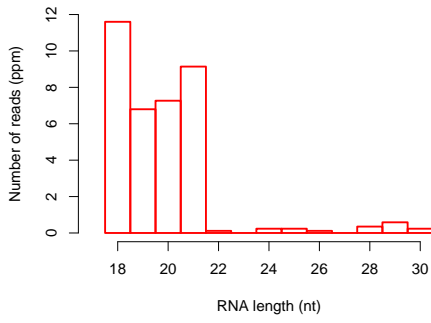
24-mers:



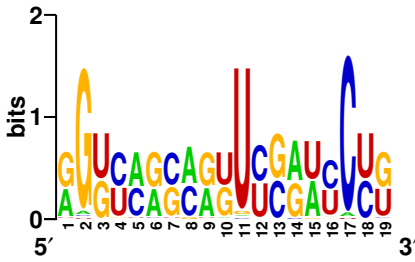
(no read)  
27-mers:  
(no read)  
30-mers:



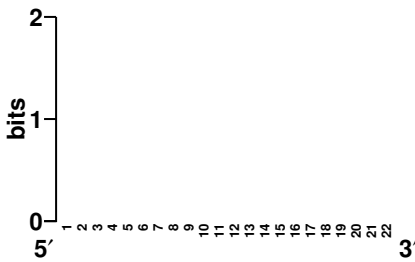
Embryo 36h, library 1:



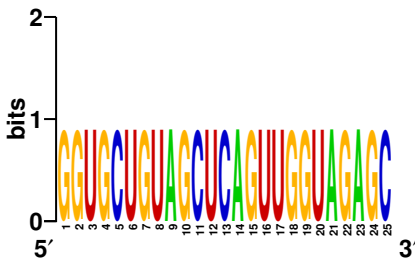
19-mers:



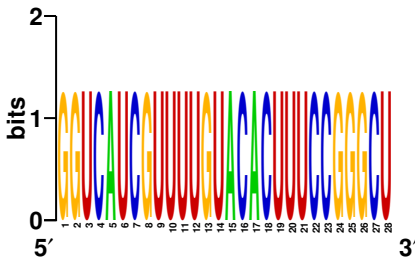
22-mers:



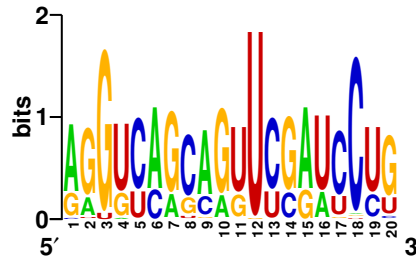
25-mers:



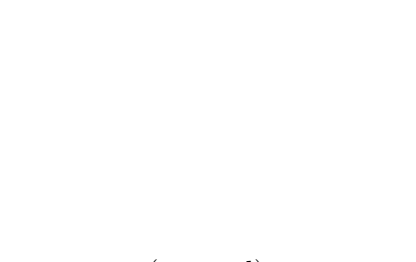
28-mers:



20-mers:

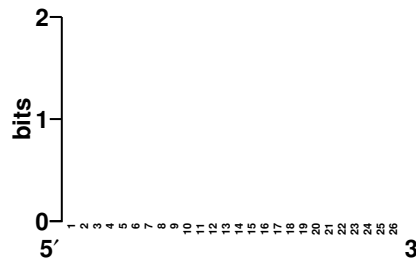


23-mers:

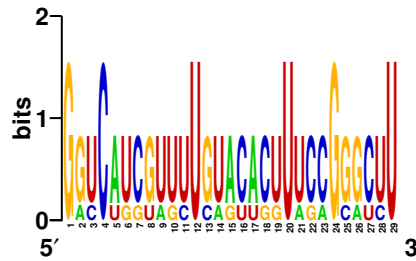


(no read)

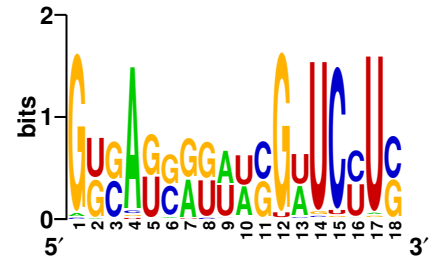
26-mers:



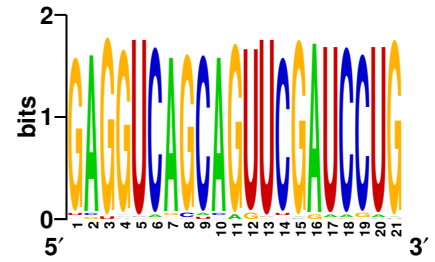
29-mers:



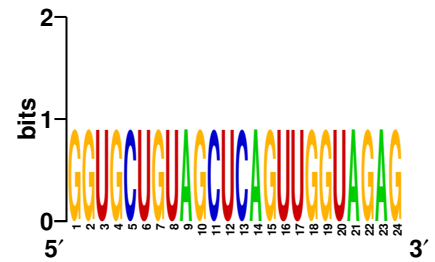
18-mers:



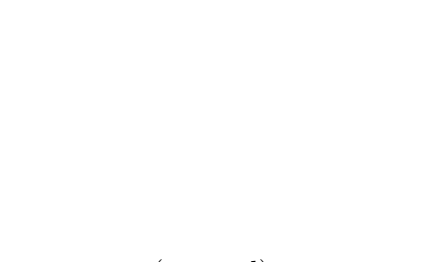
21-mers:



24-mers:

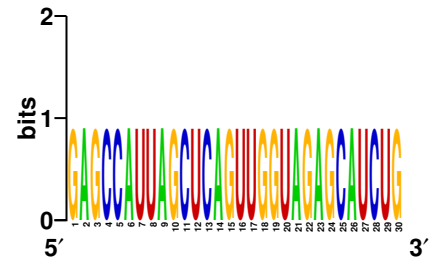


27-mers:

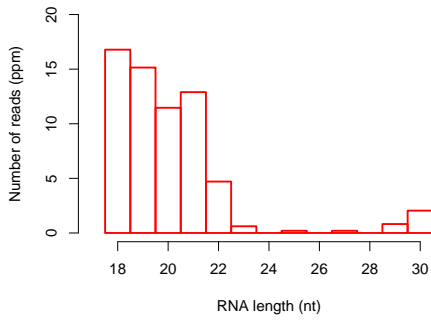


(no read)

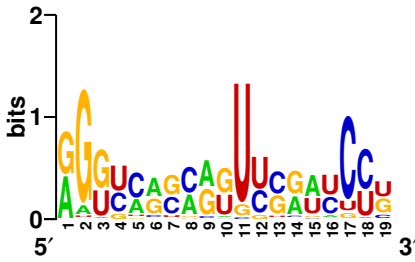
30-mers:



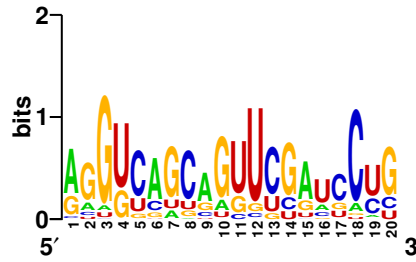
Embryo 60h, library 1:



19-mers:



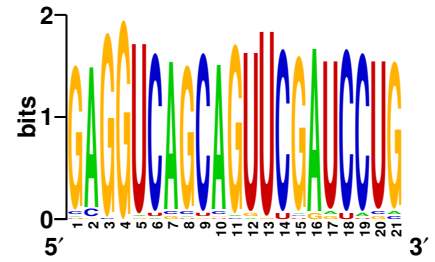
20-mers:



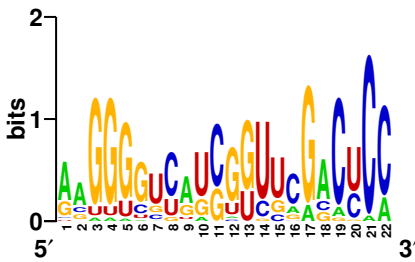
18-mers:



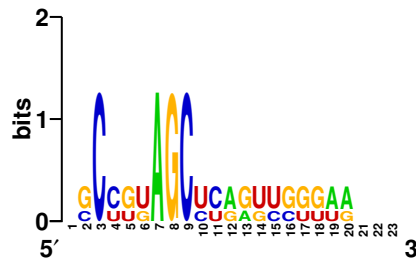
21-mers:



22-mers:

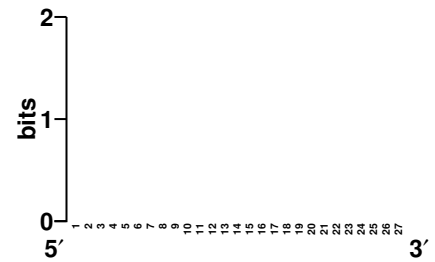


23-mers:

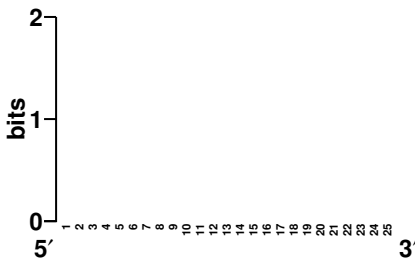


24-mers:

(no read)  
27-mers:

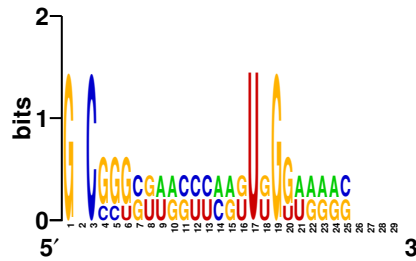


25-mers:

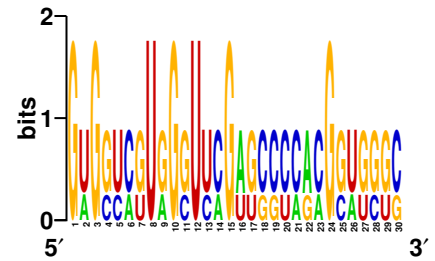


26-mers:

(no read)  
29-mers:

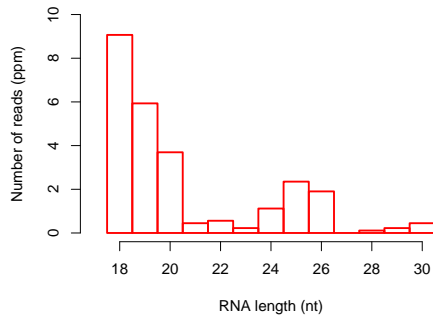


30-mers:

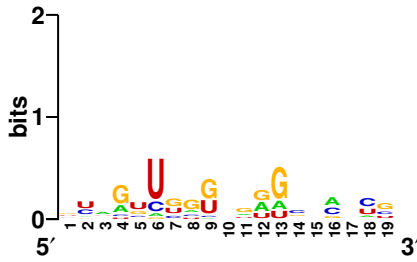


(no read)

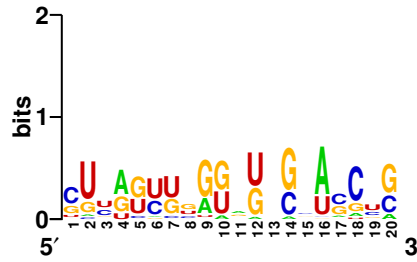
Adult female, library 1:



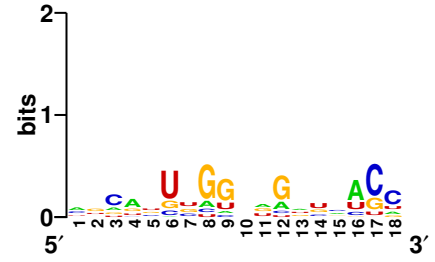
19-mers:



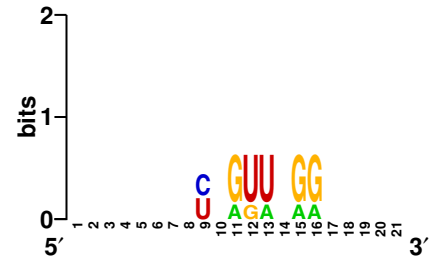
20-mers:



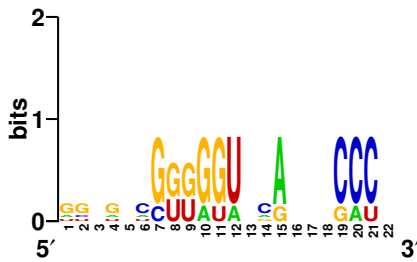
18-mers:



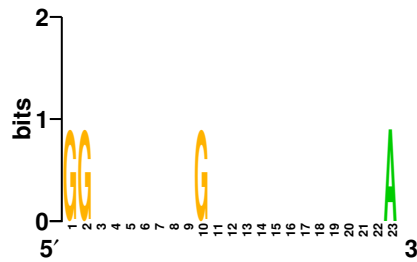
21-mers:



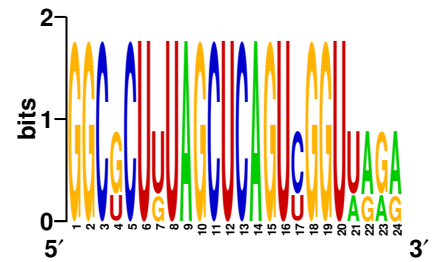
22-mers:



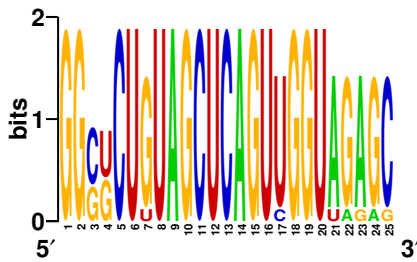
23-mers:



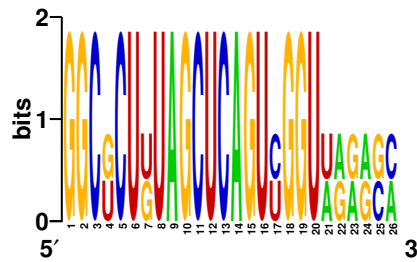
24-mers:



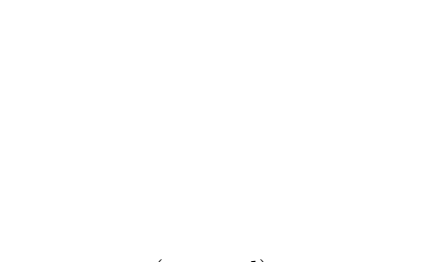
25-mers:



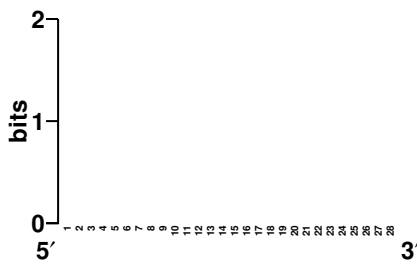
26-mers:



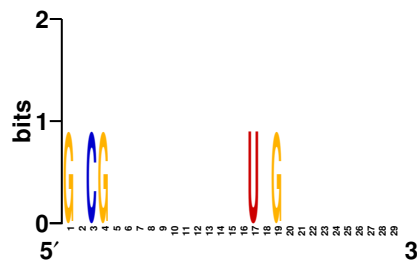
27-mers:



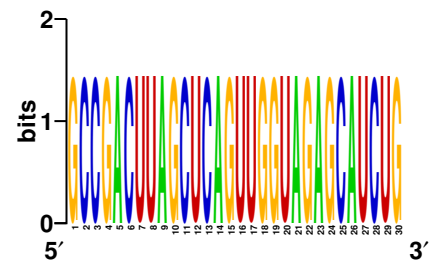
28-mers:



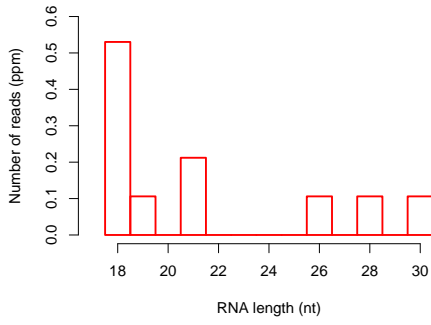
29-mers:



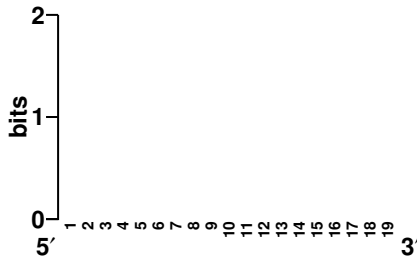
(no read)  
30-mers:



Adult male, library 1:

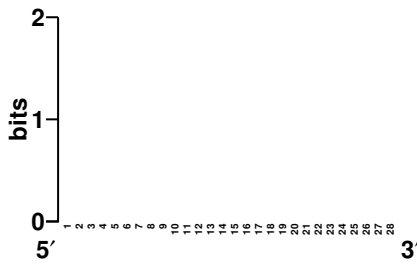


19-mers:



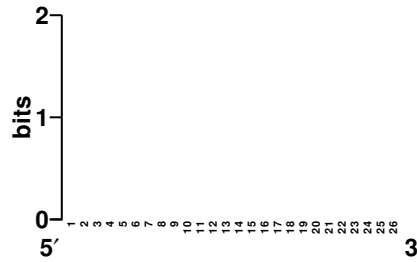
22-mers:  
(no read)  
25-mers:

(no read)  
28-mers:



20-mers:

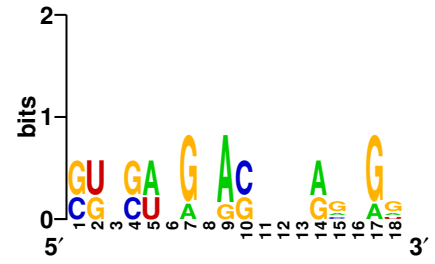
(no read)  
23-mers:  
(no read)  
26-mers:



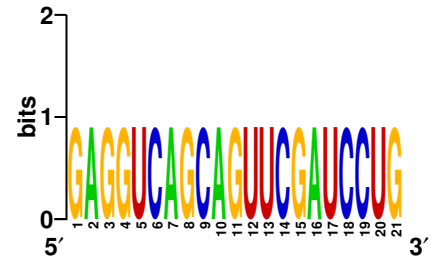
29-mers:

(no read)

18-mers:

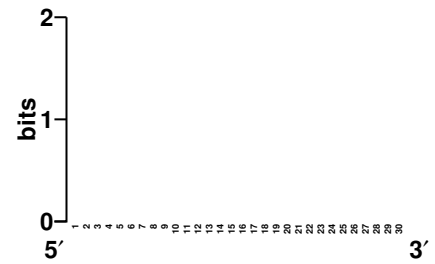


21-mers:



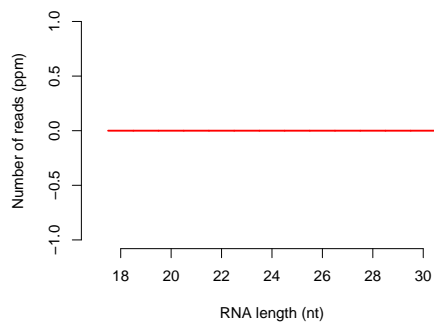
24-mers:  
(no read)  
27-mers:

(no read)  
30-mers:



## 10.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

Embryo 8h, library 2:



18-mers:

(no read)

19-mers:

20-mers:

21-mers:

(no read)

(no read)

(no read)

22-mers:

23-mers:

24-mers:

(no read)

(no read)

(no read)

25-mers:

26-mers:

27-mers:

(no read)

(no read)

(no read)

28-mers:

29-mers:

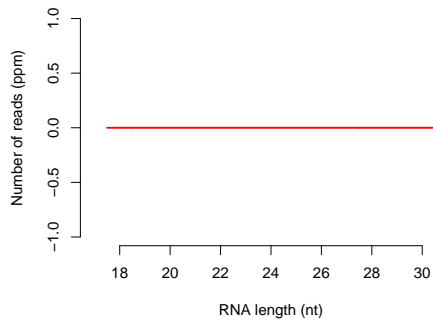
30-mers:

(no read)

(no read)

(no read)

Embryo 15h, library 2:

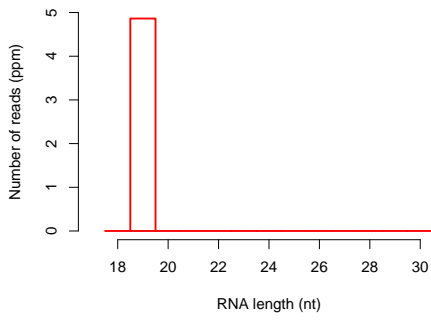


18-mers:

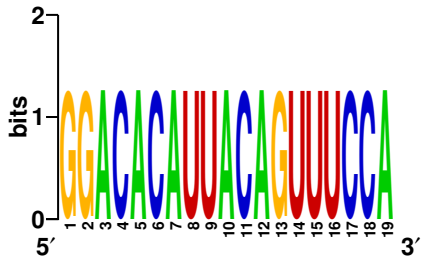
19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	



Embryo 36h, library 2:



19-mers:

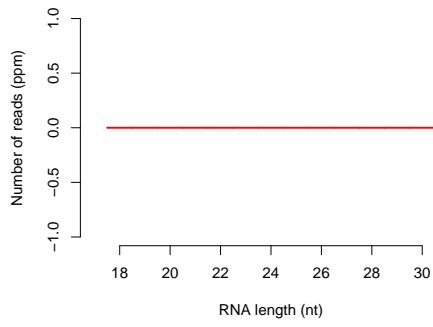


22-mers:  
 (no read)  
 25-mers:  
 (no read)  
 28-mers:  
 (no read)

18-mers:  
 20-mers: (no read)  
 21-mers:

(no read) (no read)  
 23-mers: 24-mers:  
 (no read) (no read)  
 26-mers: 27-mers:  
 (no read) (no read)  
 29-mers: 30-mers:  
 (no read) (no read)

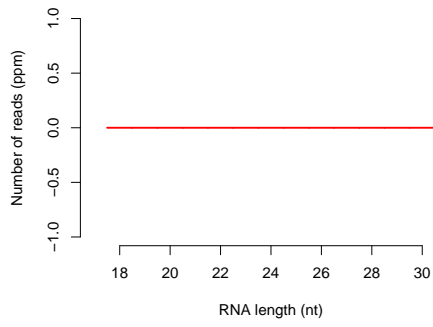
Embryo 60h, library 2:



18-mers:

19-mers:	(no read)	20-mers:	21-mers:
(no read)		(no read)	(no read)
22-mers:		23-mers:	24-mers:
(no read)		(no read)	(no read)
25-mers:		26-mers:	27-mers:
(no read)		(no read)	(no read)
28-mers:		29-mers:	30-mers:
(no read)		(no read)	(no read)

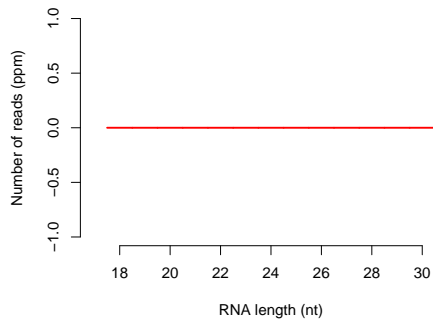
Adult female, library 2:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Adult male, library 2:

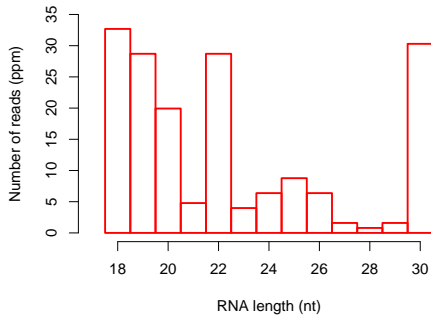


18-mers:

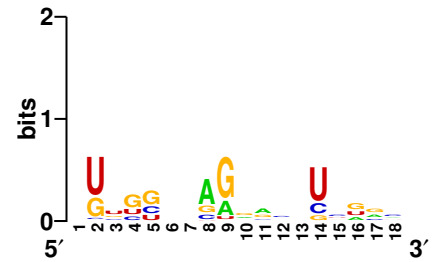
19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

### 10.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

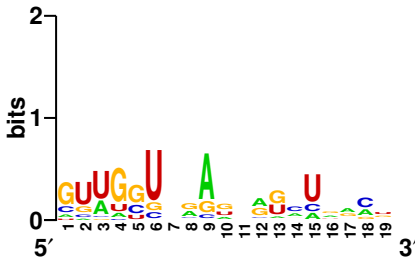
Embryo 8h, library 3:



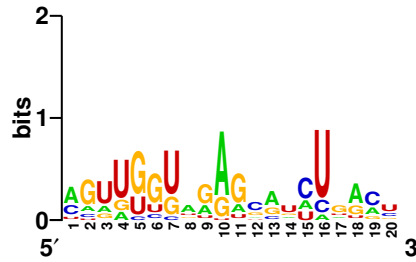
18-mers:



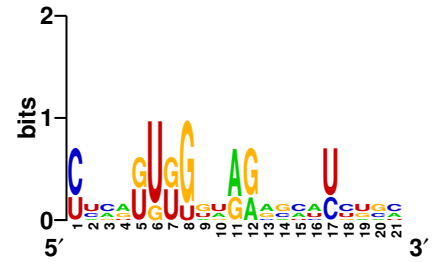
19-mers:



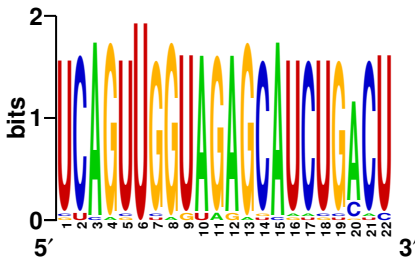
20-mers:



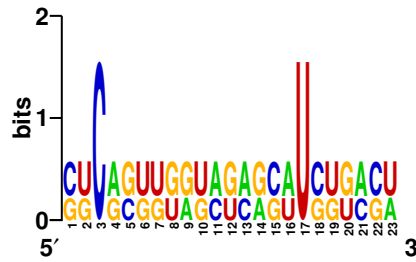
21-mers:



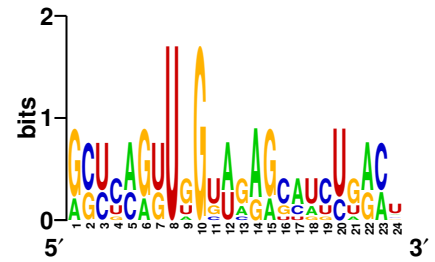
22-mers:



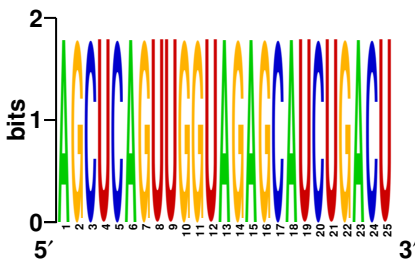
23-mers:



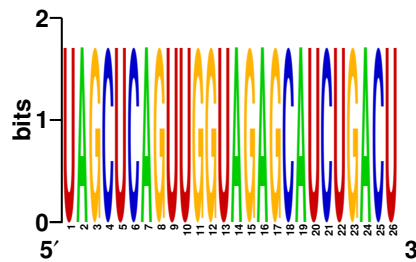
24-mers:



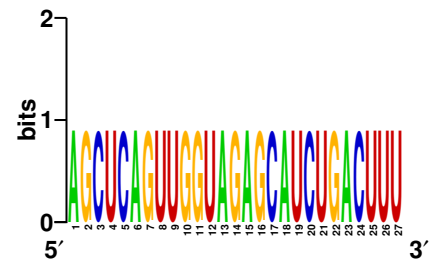
25-mers:



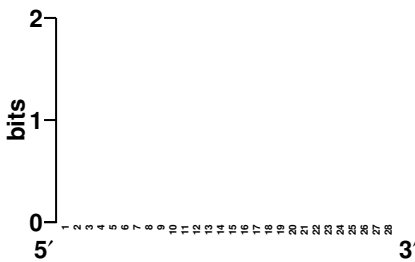
26-mers:



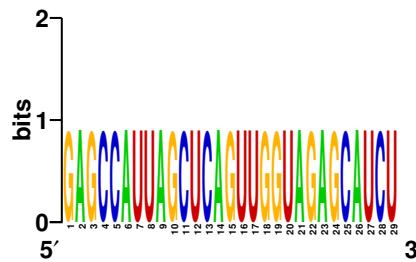
27-mers:



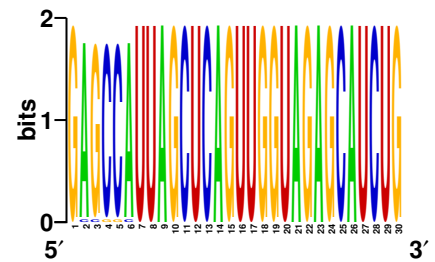
28-mers:



29-mers:

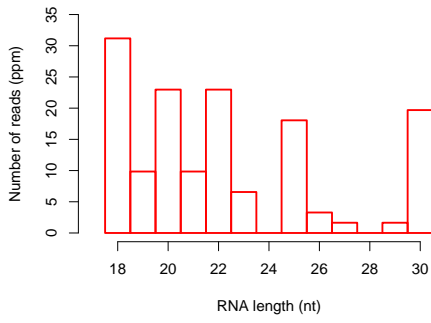


30-mers:

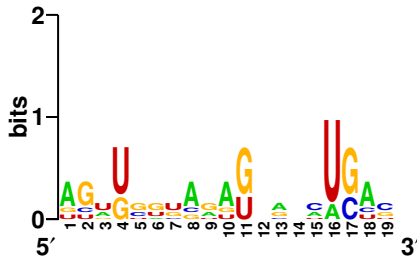




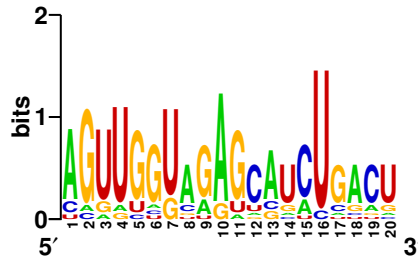
Embryo 36h, library 3:



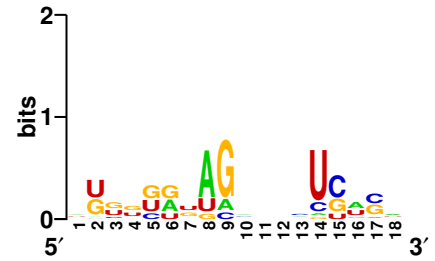
19-mers:



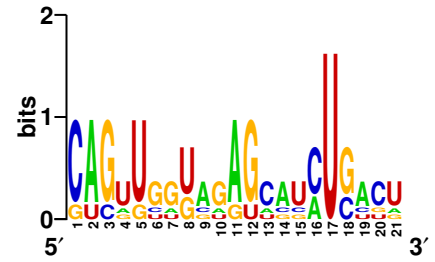
20-mers:



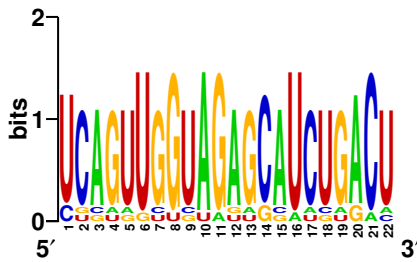
18-mers:



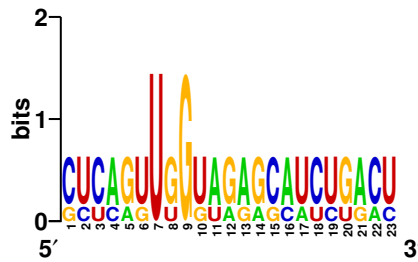
21-mers:



22-mers:

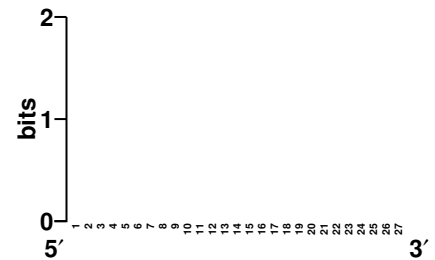


23-mers:

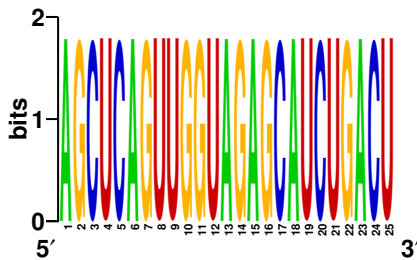


24-mers:

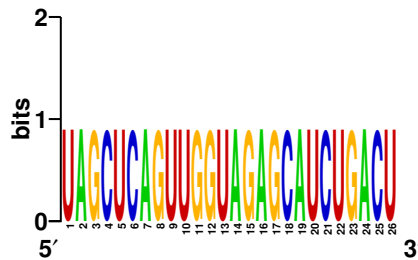
(no read)  
27-mers:



25-mers:



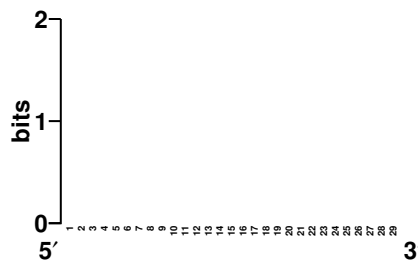
26-mers:



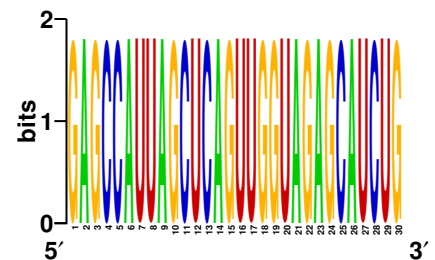
28-mers:

(no read)

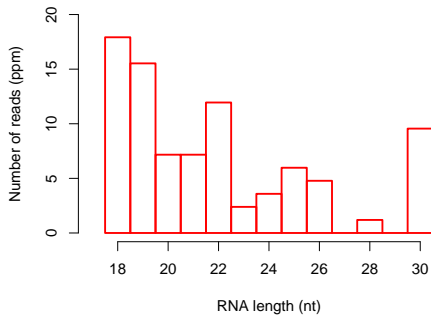
29-mers:



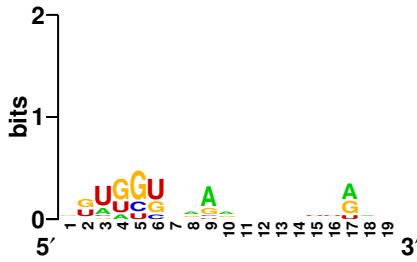
30-mers:



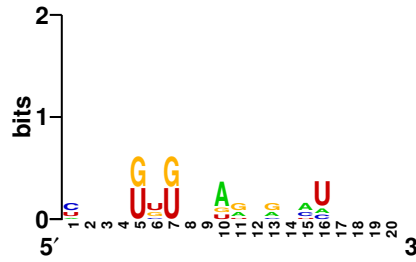
Embryo 60h, library 3:



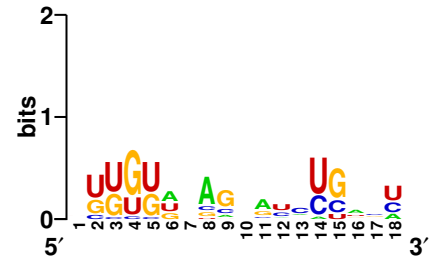
19-mers:



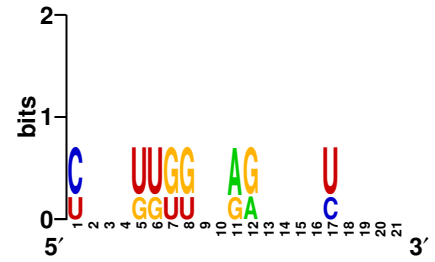
20-mers:



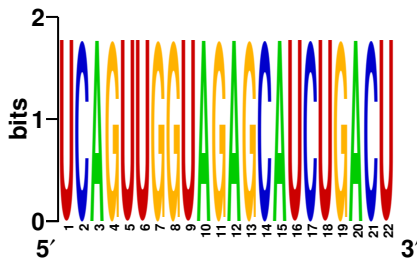
18-mers:



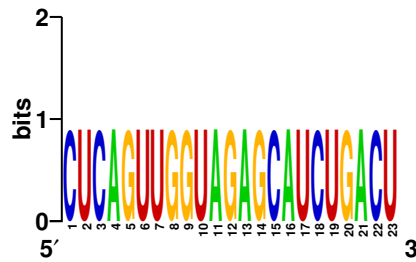
21-mers:



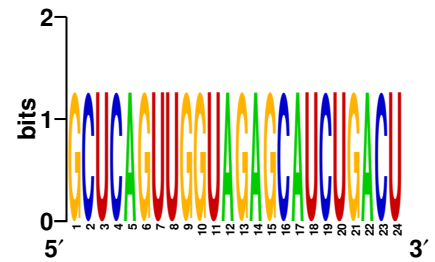
22-mers:



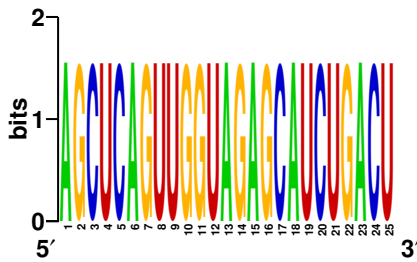
23-mers:



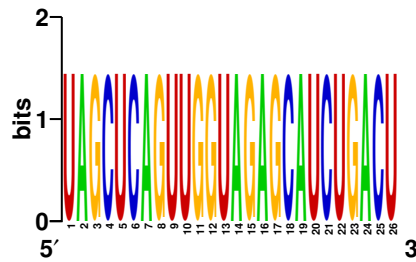
24-mers:



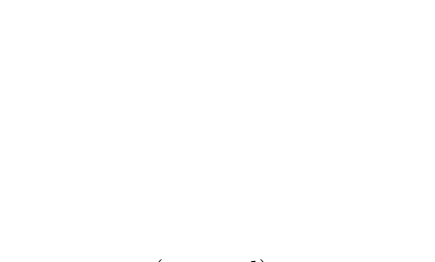
25-mers:



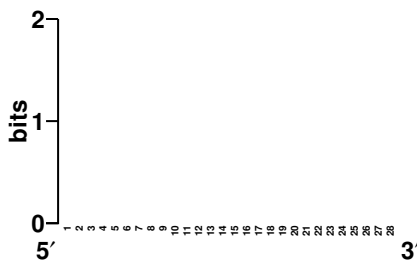
26-mers:



27-mers:



28-mers:

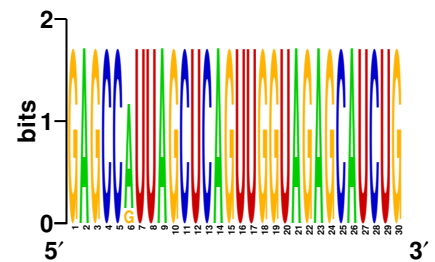


29-mers:



(no read)

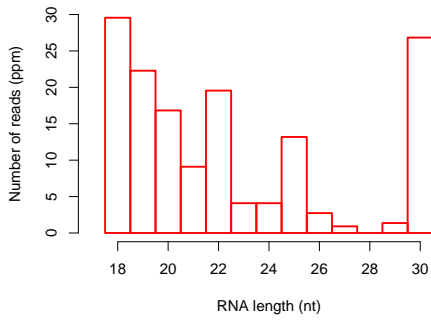
30-mers:



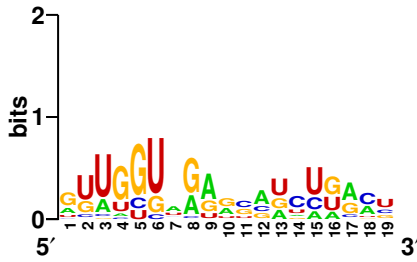
(no read)



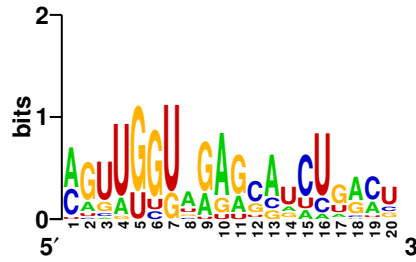
Adult female, library 3:



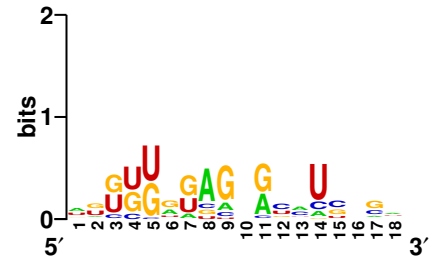
19-mers:



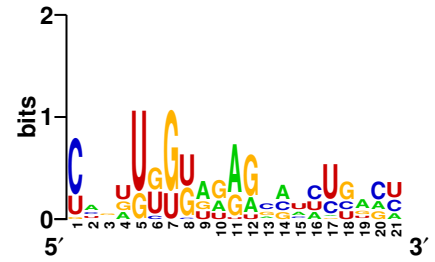
20-mers:



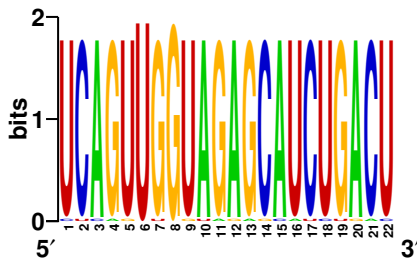
18-mers:



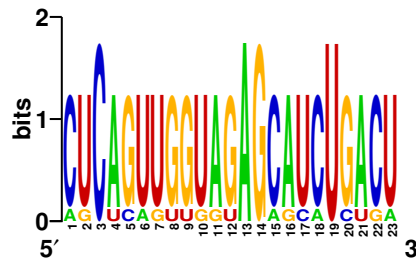
21-mers:



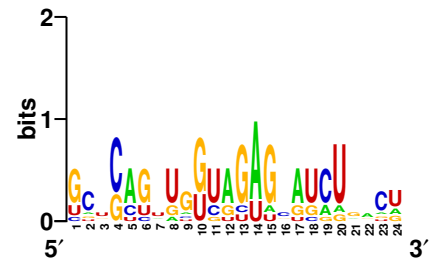
22-mers:



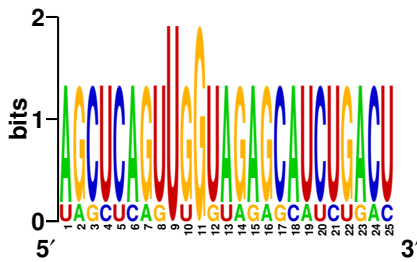
23-mers:



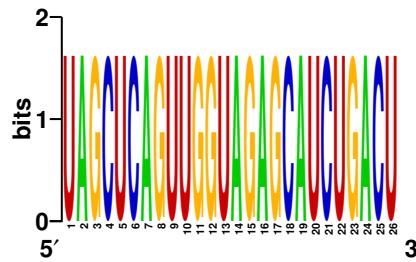
24-mers:



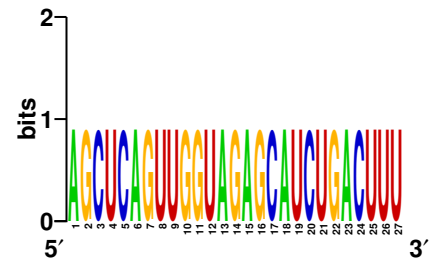
25-mers:



26-mers:



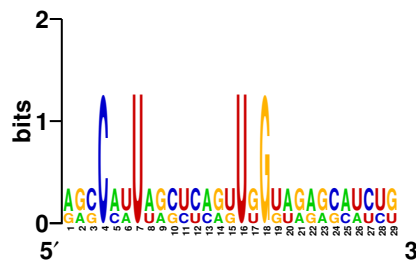
27-mers:



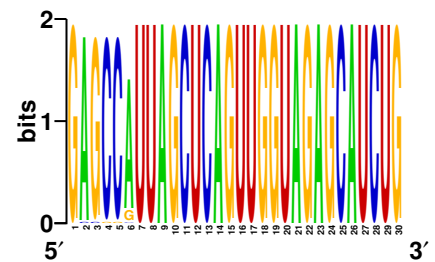
28-mers:

(no read)

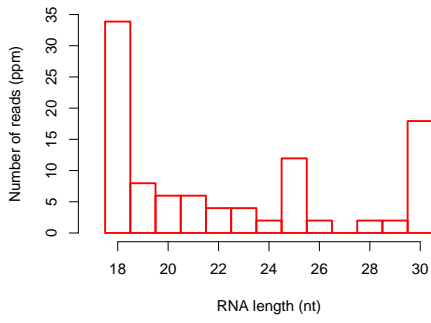
29-mers:



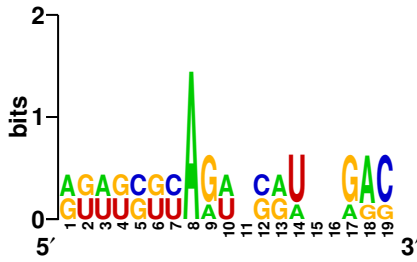
30-mers:



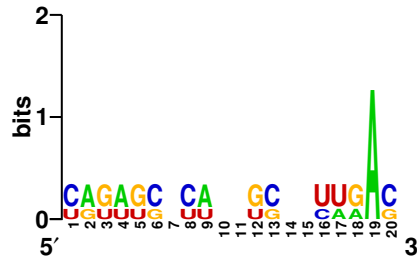
Adult male, library 3:



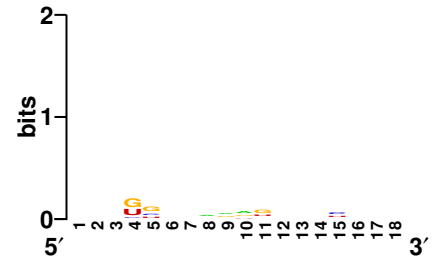
19-mers:



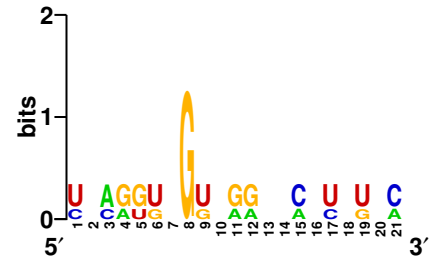
20-mers:



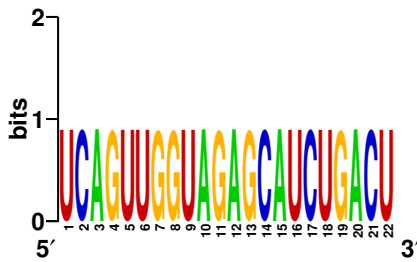
18-mers:



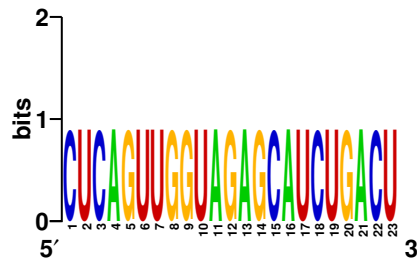
21-mers:



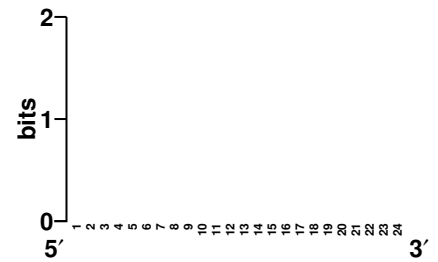
22-mers:



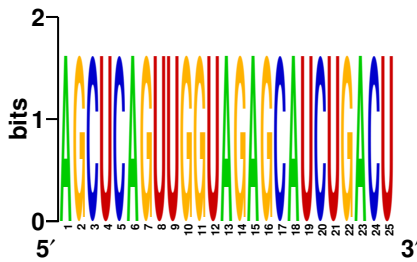
23-mers:



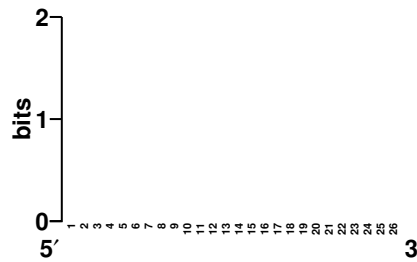
24-mers:



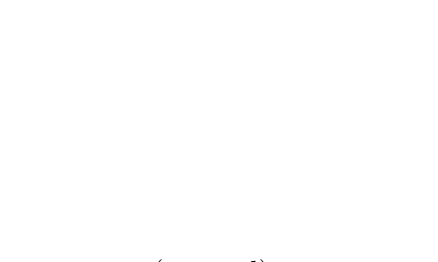
25-mers:



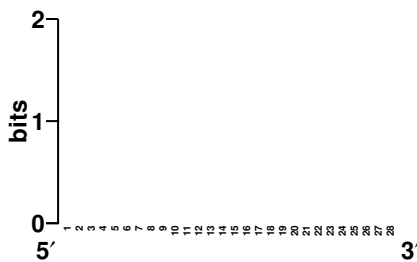
26-mers:



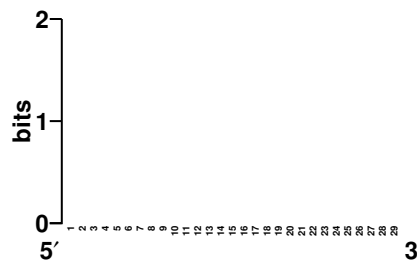
27-mers:



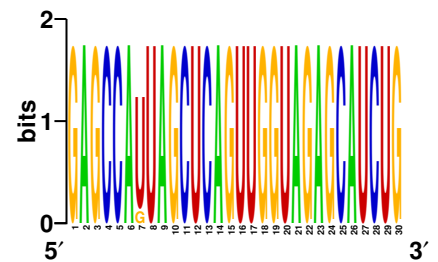
28-mers:



29-mers:

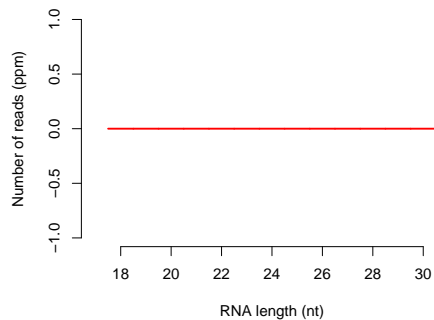


(no read)  
30-mers:



## 10.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 4:



18-mers:

(no read)

19-mers:

20-mers:

21-mers:

(no read)

(no read)

(no read)

22-mers:

23-mers:

24-mers:

(no read)

(no read)

(no read)

25-mers:

26-mers:

27-mers:

(no read)

(no read)

(no read)

28-mers:

29-mers:

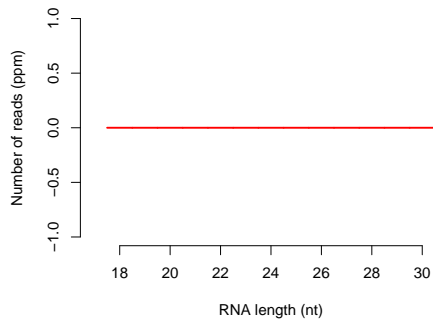
30-mers:

(no read)

(no read)

(no read)

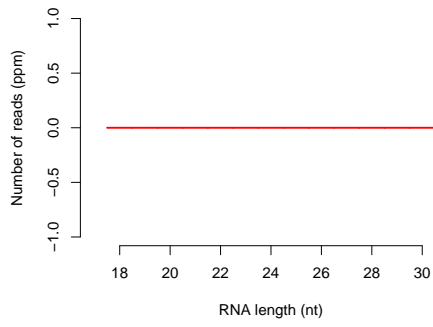
Embryo 15h, library 4:



18-mers:

19-mers:	(no read)	20-mers:	21-mers:
(no read)		(no read)	(no read)
22-mers:		23-mers:	24-mers:
(no read)		(no read)	(no read)
25-mers:		26-mers:	27-mers:
(no read)		(no read)	(no read)
28-mers:		29-mers:	30-mers:
(no read)		(no read)	(no read)

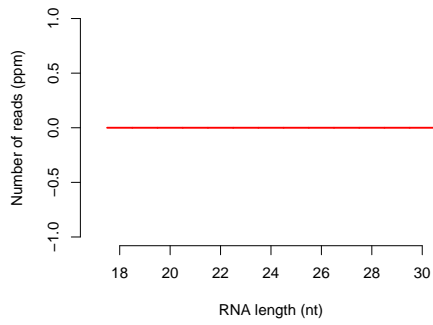
Embryo 36h, library 4:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

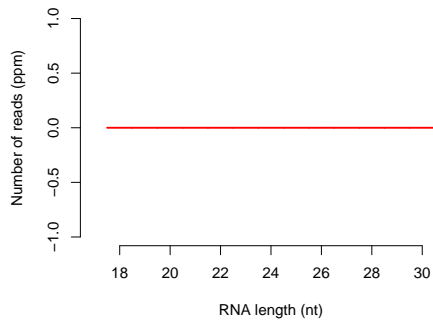
Embryo 60h, library 4:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

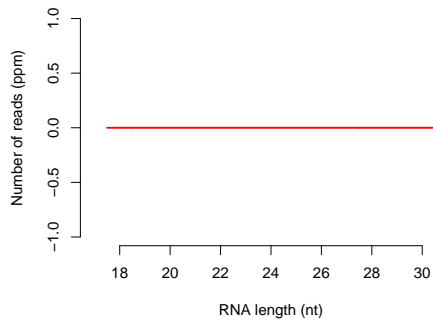
Adult female, library 4:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Adult male, library 4:



18-mers:

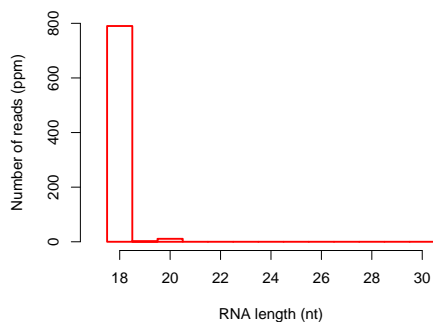
19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	



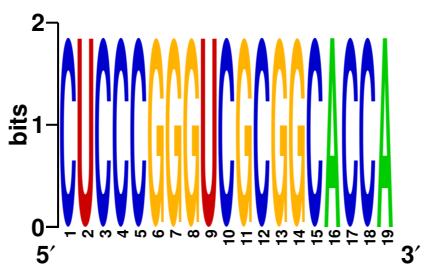
# 11 Extragenomic and extratranscriptomic reads matching extragenomic contig #18690

## 11.1 Libraries #1 (total 5' monophosphorylated small RNAs)

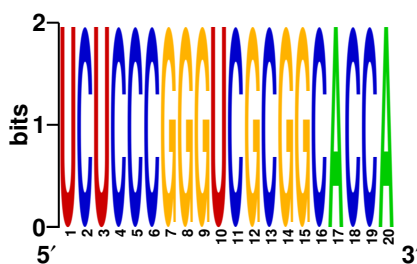
Embryo 8h, library 1:



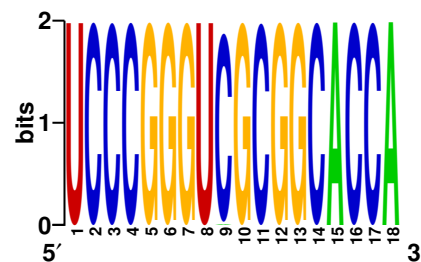
19-mers:



20-mers:



18-mers:



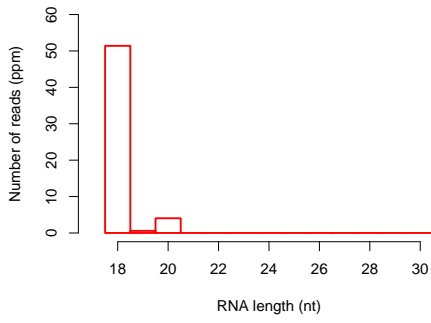
21-mers:

22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

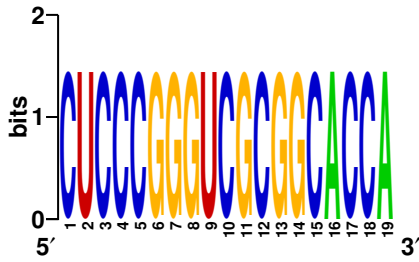
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

Embryo 15h, library 1:

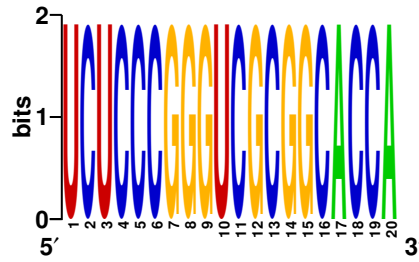


19-mers:



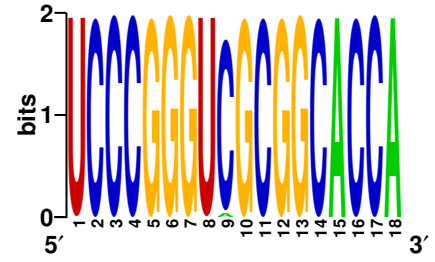
- 22-mers:
- (no read)
- 25-mers:
- (no read)
- 28-mers:
- (no read)

20-mers:



- 23-mers:
- (no read)
- 26-mers:
- (no read)
- 29-mers:
- (no read)

18-mers:



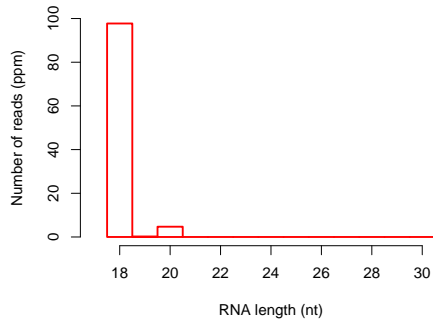
21-mers:

- (no read)
- 24-mers:
- (no read)
- 27-mers:
- (no read)
- 30-mers:
- (no read)

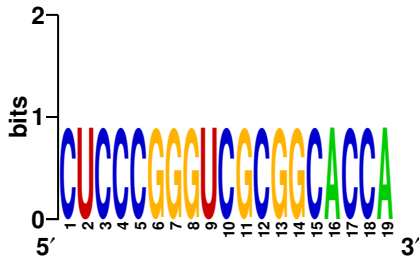




Adult female, library 1:

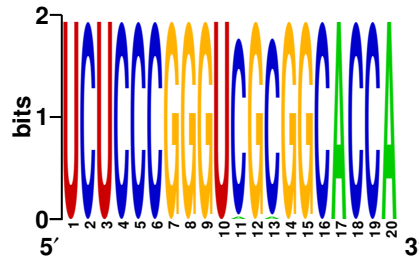


19-mers:



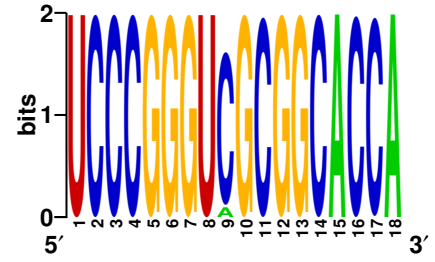
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

20-mers:



23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

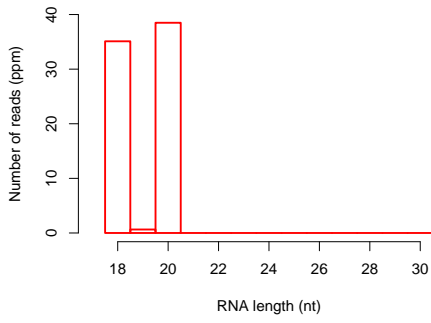
18-mers:



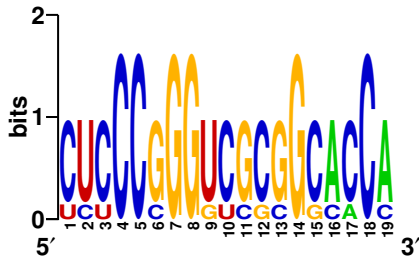
21-mers:

(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

Adult male, library 1:

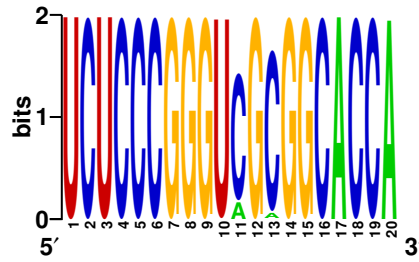


19-mers:



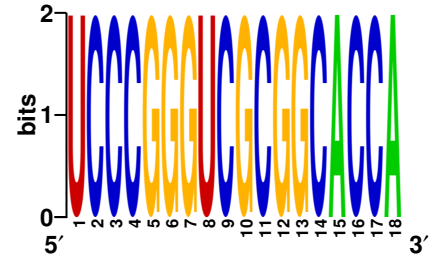
- 22-mers:
- (no read)
- 25-mers:
- (no read)
- 28-mers:
- (no read)

20-mers:



- 23-mers:
- (no read)
- 26-mers:
- (no read)
- 29-mers:
- (no read)

18-mers:

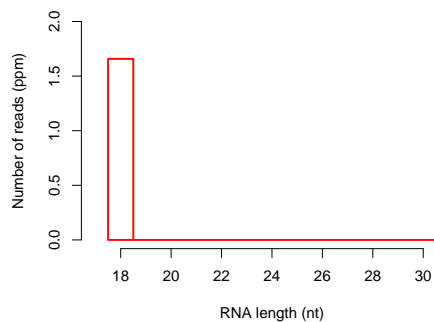


21-mers:

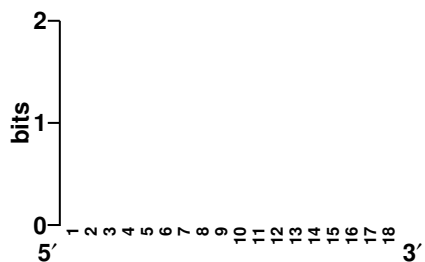
- (no read)
- 24-mers:
- (no read)
- 27-mers:
- (no read)
- 30-mers:
- (no read)

## 11.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

Embryo 8h, library 2:



18-mers:



19-mers:

(no read)

22-mers:

(no read)

25-mers:

(no read)

28-mers:

(no read)

20-mers:

(no read)

23-mers:

(no read)

26-mers:

(no read)

29-mers:

(no read)

21-mers:

(no read)

24-mers:

(no read)

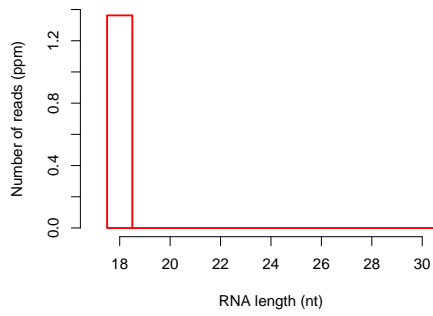
27-mers:

(no read)

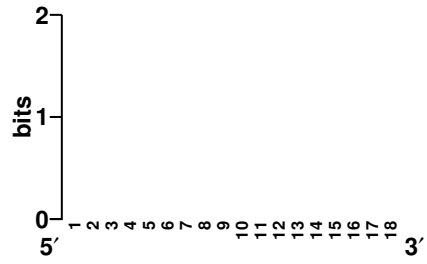
30-mers:

(no read)

Embryo 15h, library 2:



18-mers:



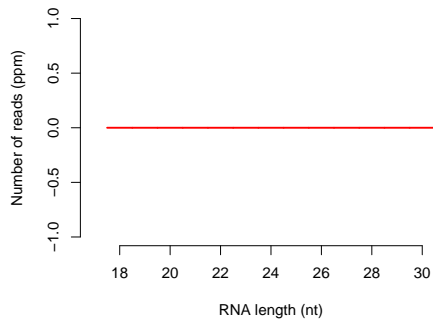
19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)



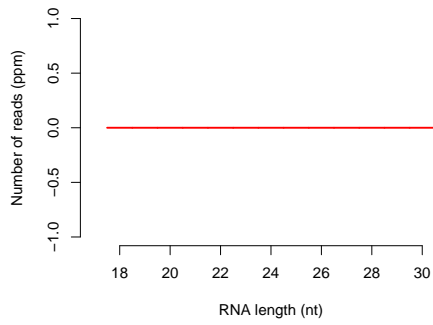
Embryo 36h, library 2:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

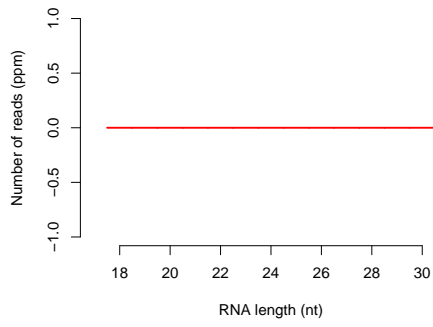
Embryo 60h, library 2:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

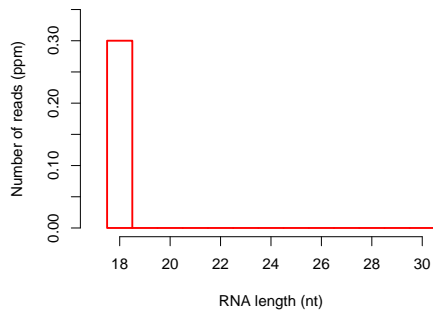
Adult female, library 2:



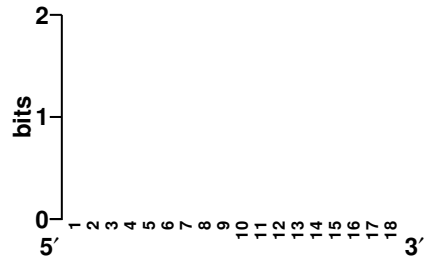
18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Adult male, library 2:



18-mers:



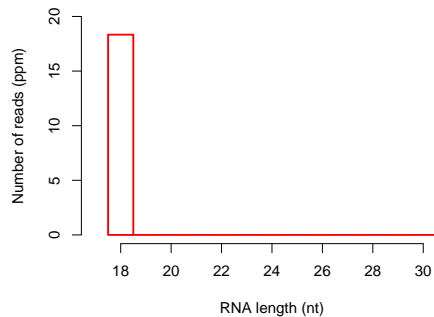
19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

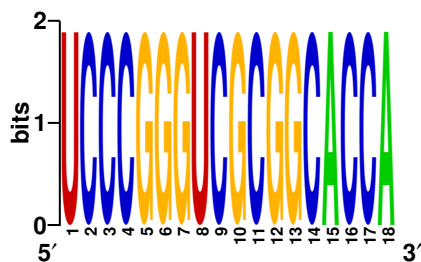
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

### 11.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 3:



18-mers:



19-mers:

(no read)

22-mers:

(no read)

25-mers:

(no read)

28-mers:

(no read)

20-mers:

(no read)

23-mers:

(no read)

26-mers:

(no read)

29-mers:

(no read)

21-mers:

(no read)

24-mers:

(no read)

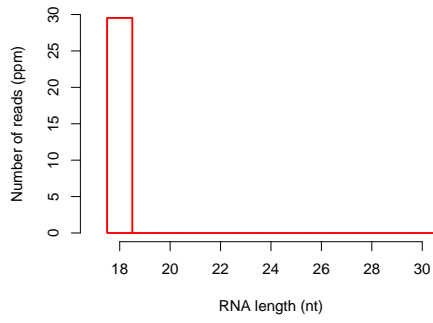
27-mers:

(no read)

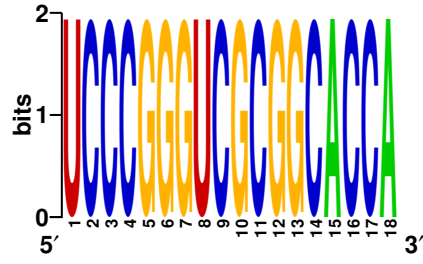
30-mers:

(no read)

Embryo 15h, library 3:



18-mers:

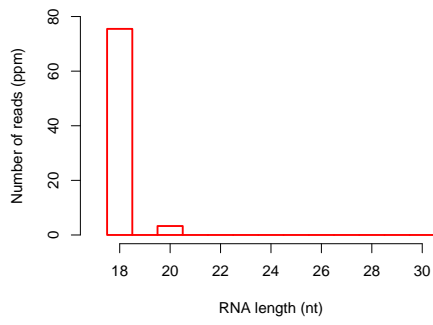


19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

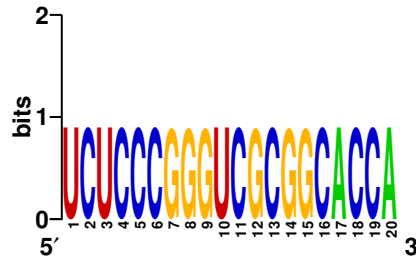
Embryo 36h, library 3:



19-mers:

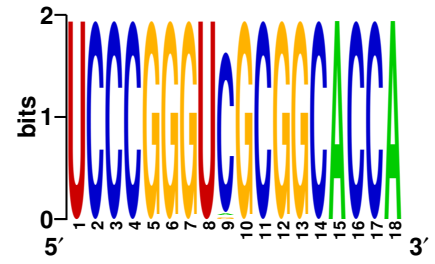
(no read)  
 22-mers:  
 (no read)  
 25-mers:  
 (no read)  
 28-mers:  
 (no read)

20-mers:



23-mers:  
 (no read)  
 26-mers:  
 (no read)  
 29-mers:  
 (no read)

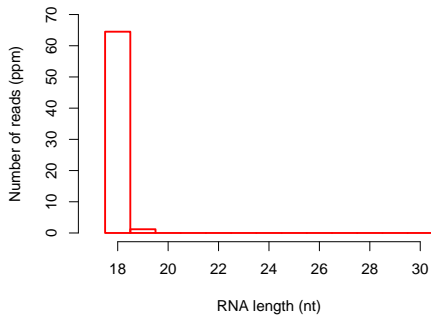
18-mers:



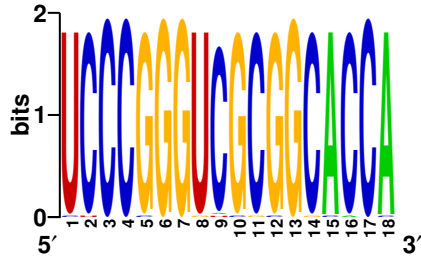
21-mers:

(no read)  
 24-mers:  
 (no read)  
 27-mers:  
 (no read)  
 30-mers:  
 (no read)

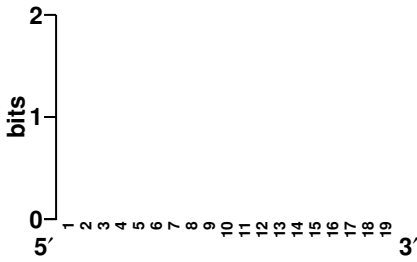
Embryo 60h, library 3:



18-mers:



19-mers:



20-mers:

21-mers:

(no read)

(no read)

22-mers:

(no read)

(no read)

(no read)

(no read)

(no read)

25-mers:

(no read)

(no read)

(no read)

(no read)

(no read)

28-mers:

(no read)

(no read)

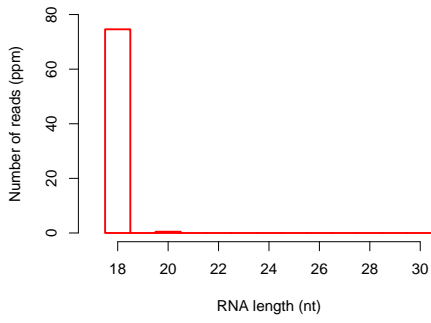
(no read)

(no read)

(no read)



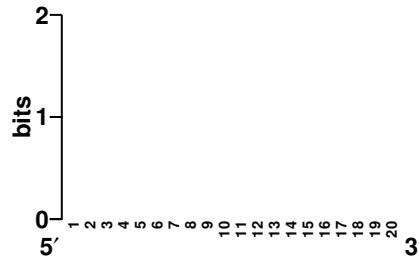
Adult female, library 3:



19-mers:

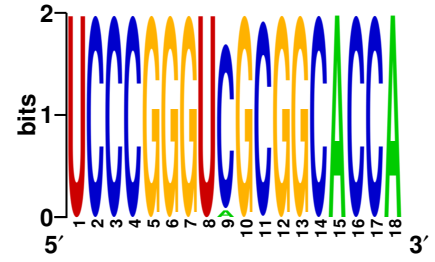
(no read)  
 22-mers:  
 (no read)  
 25-mers:  
 (no read)  
 28-mers:  
 (no read)

20-mers:



23-mers:  
 (no read)  
 26-mers:  
 (no read)  
 29-mers:  
 (no read)

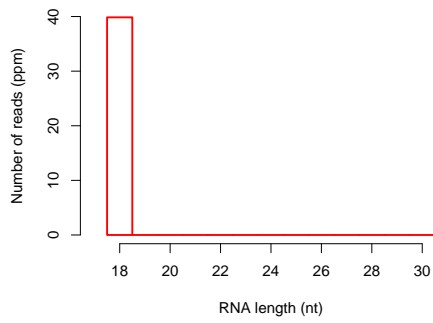
18-mers:



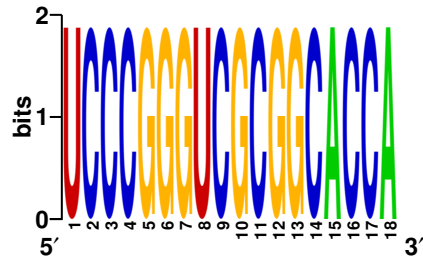
21-mers:

(no read)  
 24-mers:  
 (no read)  
 27-mers:  
 (no read)  
 30-mers:  
 (no read)

Adult male, library 3:



18-mers:



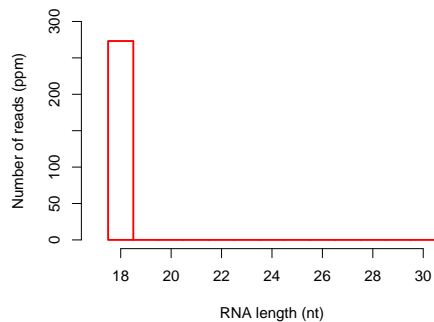
19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

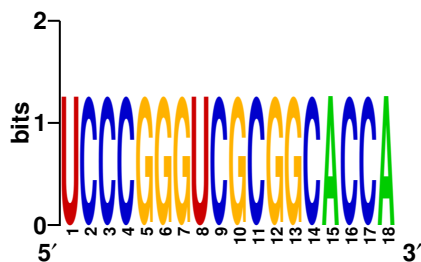
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

## 11.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 4:



18-mers:



19-mers:

(no read)

22-mers:

(no read)

25-mers:

(no read)

28-mers:

(no read)

20-mers:

(no read)

23-mers:

(no read)

26-mers:

(no read)

29-mers:

(no read)

21-mers:

(no read)

24-mers:

(no read)

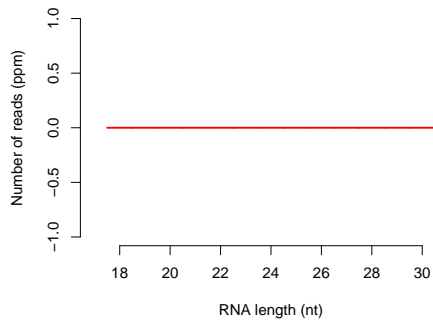
27-mers:

(no read)

30-mers:

(no read)

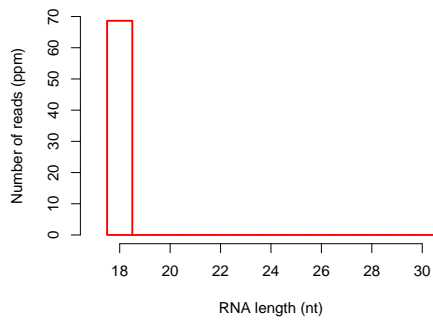
Embryo 15h, library 4:



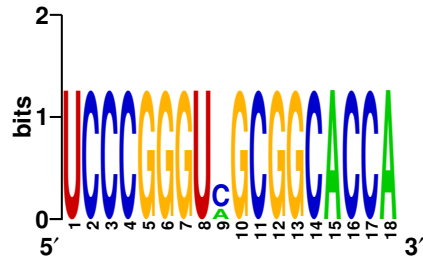
18-mers:

19-mers:	(no read)	20-mers:	21-mers:
(no read)		(no read)	(no read)
22-mers:		23-mers:	24-mers:
(no read)		(no read)	(no read)
25-mers:		26-mers:	27-mers:
(no read)		(no read)	(no read)
28-mers:		29-mers:	30-mers:
(no read)		(no read)	(no read)

Embryo 36h, library 4:



18-mers:

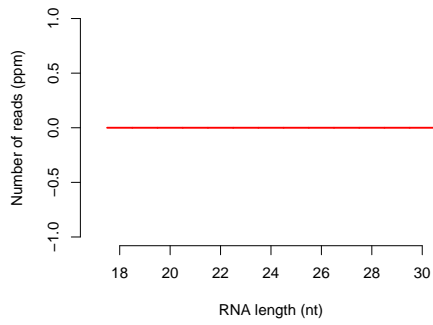


19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

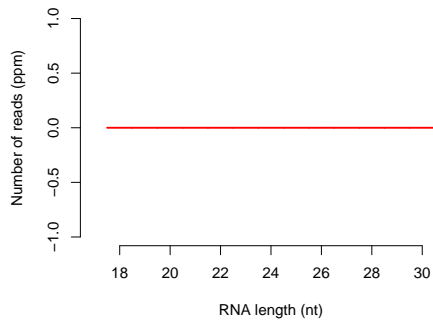
Embryo 60h, library 4:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

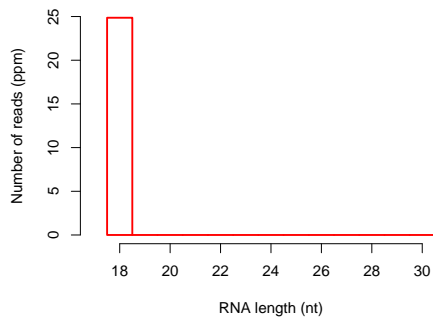
Adult female, library 4:



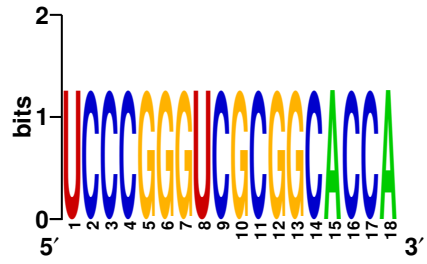
18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Adult male, library 4:



18-mers:



19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

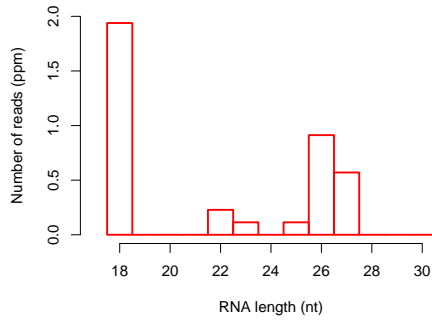
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)



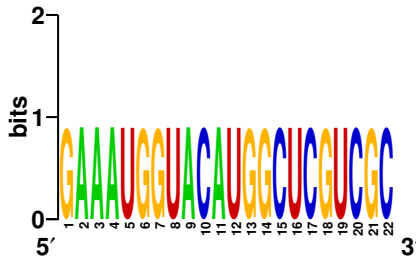
## 12 Extragenomic and extratranscriptomic reads matching extragenomic contig #7601

### 12.1 Libraries #1 (total 5' monophosphorylated small RNAs)

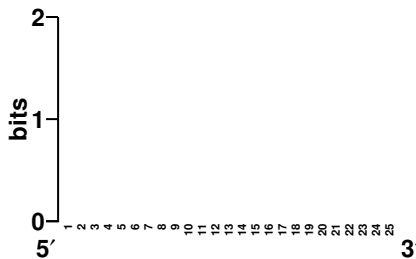
Embryo 8h, library 1:



19-mers:  
(no read)  
22-mers:

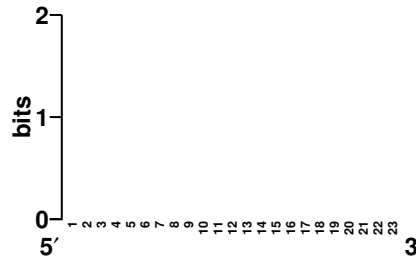


25-mers:

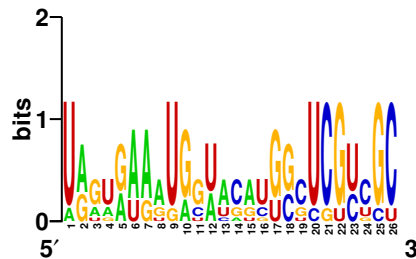


28-mers:  
(no read)

20-mers:  
(no read)  
23-mers:

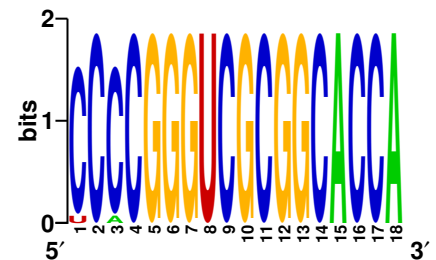


26-mers:



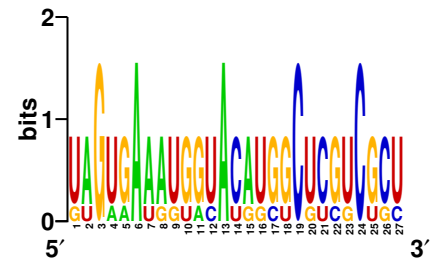
29-mers:  
(no read)

18-mers:



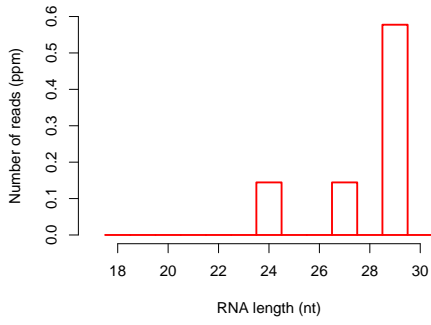
21-mers:  
(no read)  
24-mers:

(no read)  
27-mers:



30-mers:  
(no read)

Embryo 15h, library 1:



19-mers:  
(no read)  
22-mers:

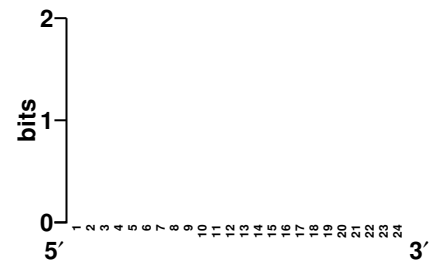
20-mers:  
(no read)  
23-mers:

18-mers:

(no read)  
21-mers:  
(no read)  
24-mers:

(no read)  
25-mers:

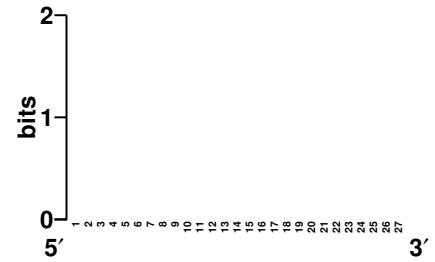
(no read)  
26-mers:



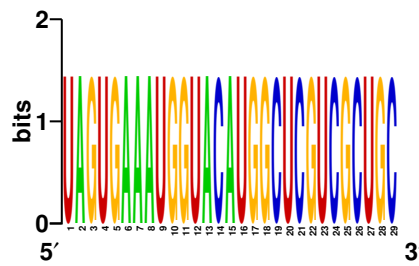
(no read)  
28-mers:

(no read)  
29-mers:

27-mers:



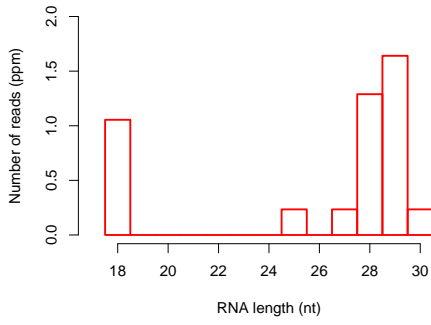
(no read)



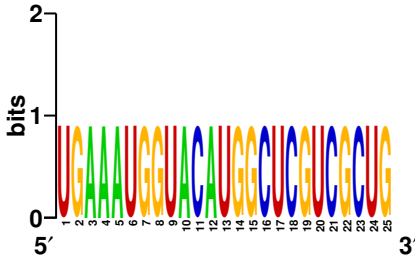
30-mers:

(no read)

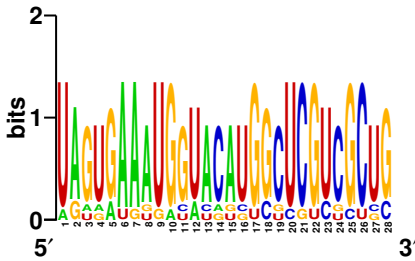
Embryo 36h, library 1:



19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:

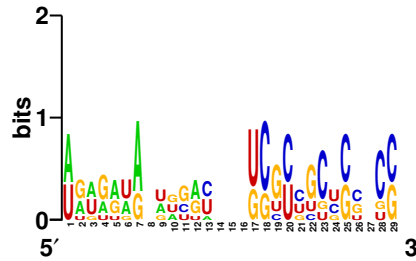


28-mers:

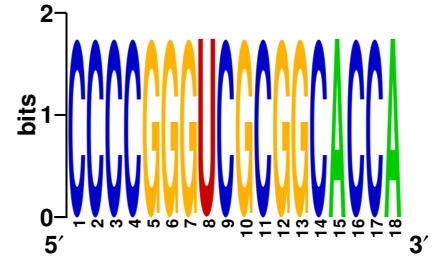


20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:

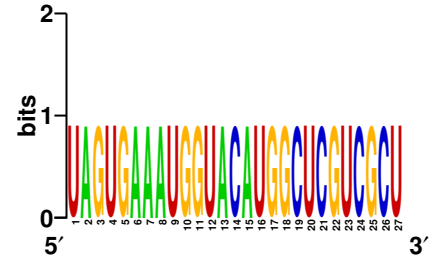
(no read)  
29-mers:



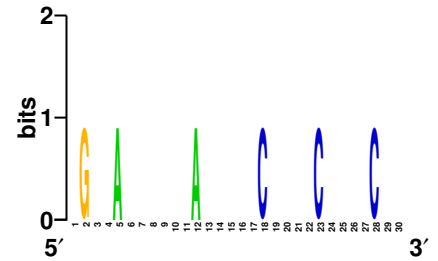
18-mers:



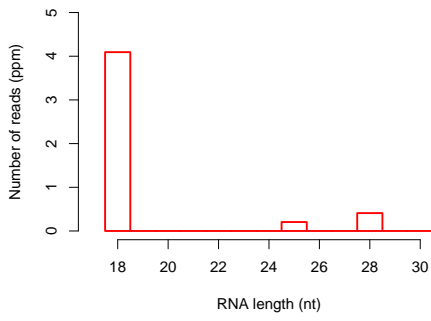
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:



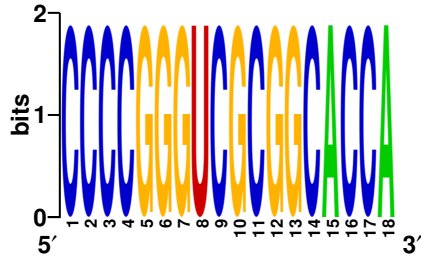
30-mers:



Embryo 60h, library 1:



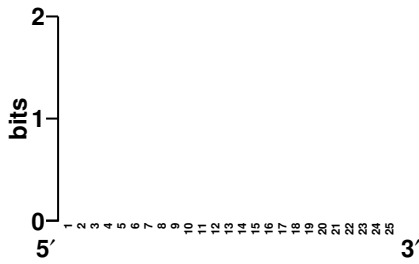
18-mers:



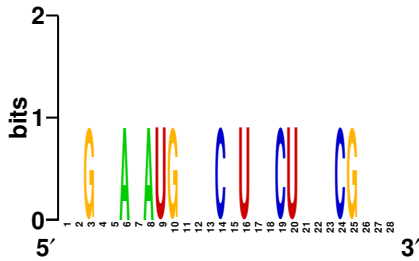
19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:

21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:



28-mers:



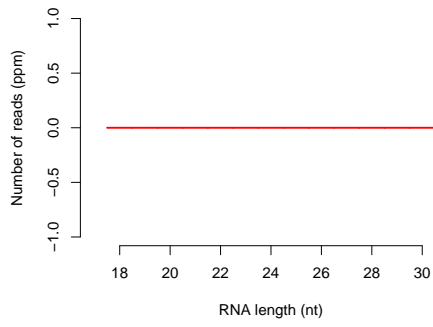
(no read)  
29-mers:

(no read)  
30-mers:

(no read)

(no read)

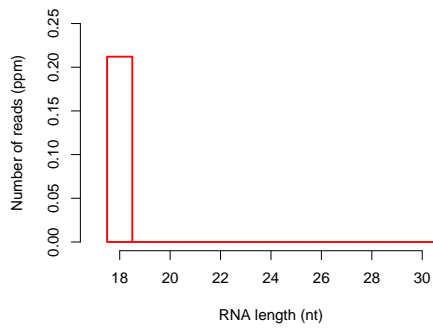
Adult female, library 1:



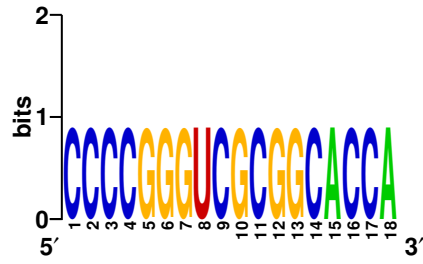
18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Adult male, library 1:



18-mers:



19-mers:

(no read)

22-mers:

(no read)

25-mers:

(no read)

28-mers:

(no read)

20-mers:

(no read)

23-mers:

(no read)

26-mers:

(no read)

29-mers:

(no read)

21-mers:

(no read)

24-mers:

(no read)

27-mers:

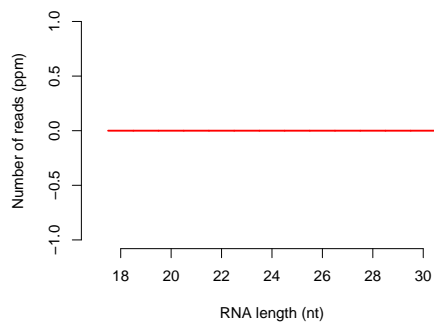
(no read)

30-mers:

(no read)

## 12.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

Embryo 8h, library 2:



18-mers:

(no read)

19-mers:

20-mers:

21-mers:

(no read)

(no read)

(no read)

22-mers:

23-mers:

24-mers:

(no read)

(no read)

(no read)

25-mers:

26-mers:

27-mers:

(no read)

(no read)

(no read)

28-mers:

29-mers:

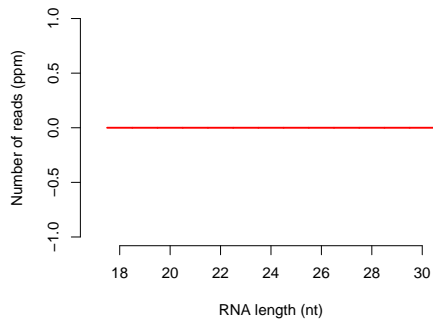
30-mers:

(no read)

(no read)

(no read)

Embryo 15h, library 2:

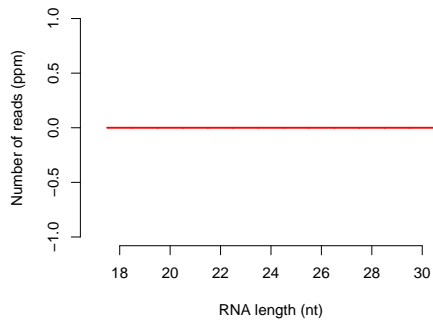


18-mers:

19-mers:	(no read)	20-mers:	21-mers:
(no read)		(no read)	(no read)
22-mers:		23-mers:	24-mers:
(no read)		(no read)	(no read)
25-mers:		26-mers:	27-mers:
(no read)		(no read)	(no read)
28-mers:		29-mers:	30-mers:
(no read)		(no read)	(no read)



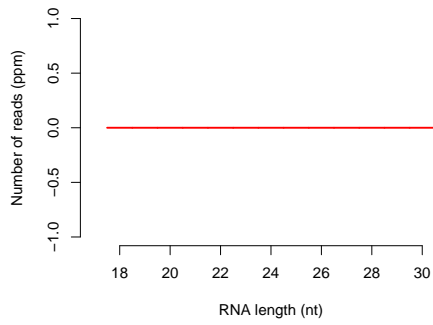
Embryo 36h, library 2:



18-mers:

19-mers:	(no read)	20-mers:	21-mers:
(no read)		(no read)	(no read)
22-mers:		23-mers:	24-mers:
(no read)		(no read)	(no read)
25-mers:		26-mers:	27-mers:
(no read)		(no read)	(no read)
28-mers:		29-mers:	30-mers:
(no read)		(no read)	(no read)

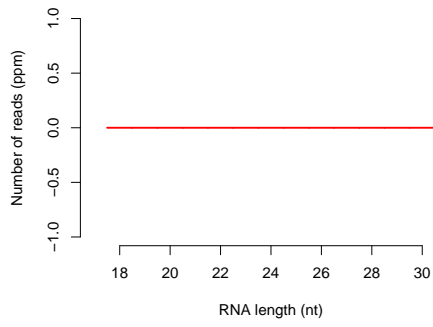
Embryo 60h, library 2:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)

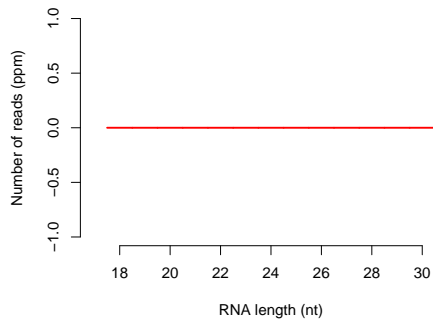
Adult female, library 2:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)

Adult male, library 2:

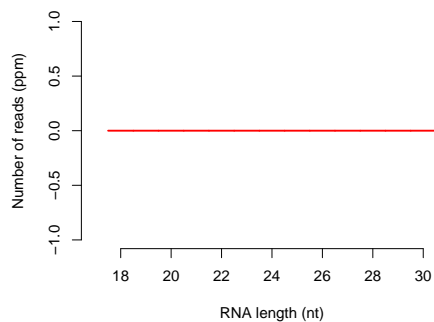


18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

### 12.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 3:



18-mers:

(no read)

19-mers:

20-mers:

21-mers:

(no read)

(no read)

(no read)

22-mers:

23-mers:

24-mers:

(no read)

(no read)

(no read)

25-mers:

26-mers:

27-mers:

(no read)

(no read)

(no read)

28-mers:

29-mers:

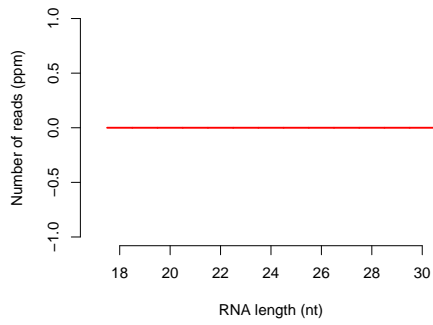
30-mers:

(no read)

(no read)

(no read)

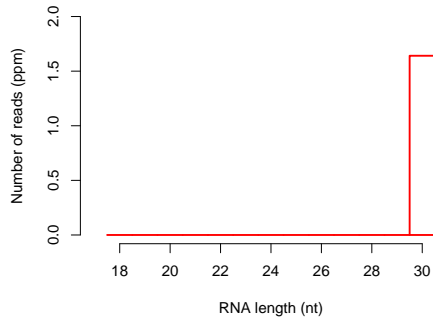
Embryo 15h, library 3:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Embryo 36h, library 3:



19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:

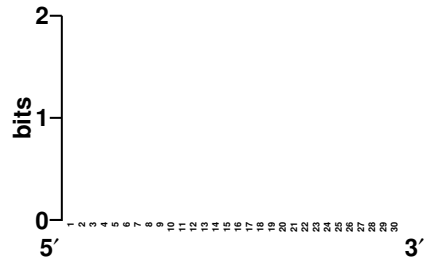
20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:

18-mers:

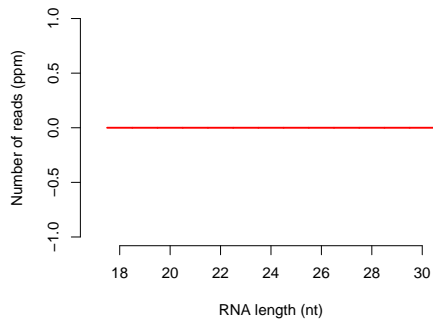
(no read)  
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:

(no read)

(no read)



Embryo 60h, library 3:

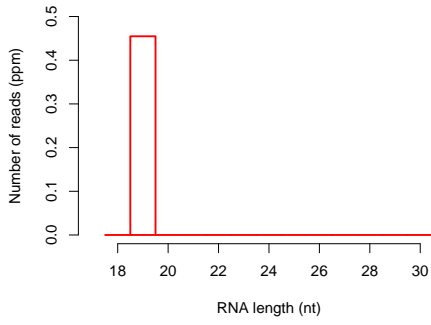


18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

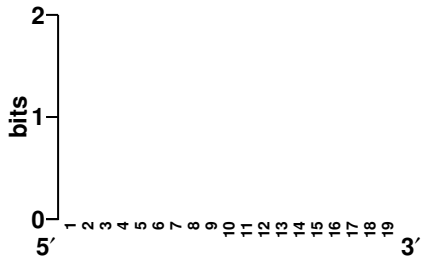


Adult female, library 3:



19-mers:

18-mers:



20-mers:

(no read)

21-mers:

22-mers:

(no read)

(no read)

(no read)

(no read)

(no read)

25-mers:

(no read)

(no read)

(no read)

(no read)

(no read)

28-mers:

(no read)

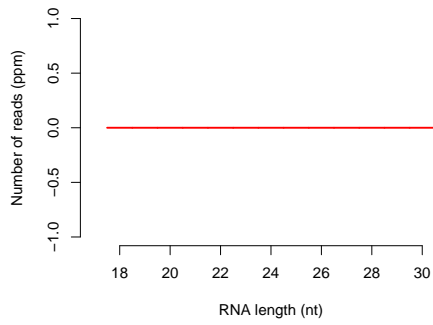
(no read)

(no read)

(no read)

(no read)

Adult male, library 3:

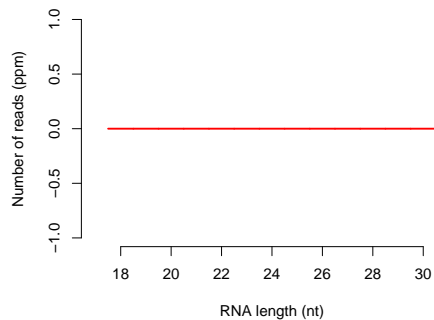


18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)

## 12.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 4:



18-mers:

(no read)

19-mers:

20-mers:

21-mers:

(no read)

(no read)

(no read)

22-mers:

23-mers:

24-mers:

(no read)

(no read)

(no read)

25-mers:

26-mers:

27-mers:

(no read)

(no read)

(no read)

28-mers:

29-mers:

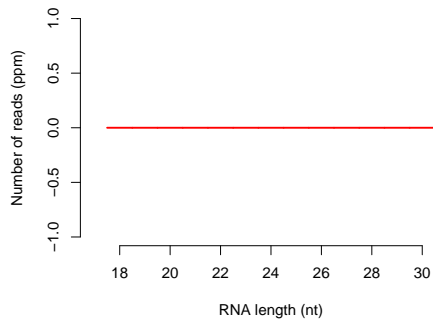
30-mers:

(no read)

(no read)

(no read)

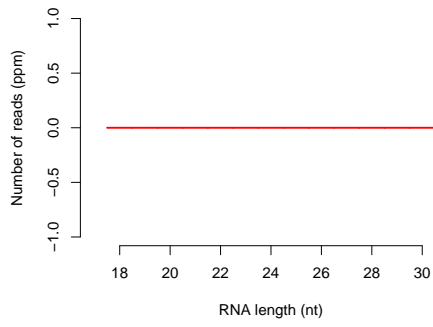
Embryo 15h, library 4:



18-mers:

19-mers:	(no read)	20-mers:	21-mers:
(no read)		(no read)	(no read)
22-mers:		23-mers:	24-mers:
(no read)		(no read)	(no read)
25-mers:		26-mers:	27-mers:
(no read)		(no read)	(no read)
28-mers:		29-mers:	30-mers:
(no read)		(no read)	(no read)

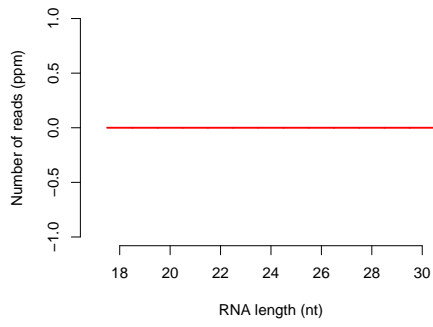
Embryo 36h, library 4:



18-mers:

19-mers:	(no read)	20-mers:	21-mers:
(no read)		(no read)	(no read)
22-mers:		23-mers:	24-mers:
(no read)		(no read)	(no read)
25-mers:		26-mers:	27-mers:
(no read)		(no read)	(no read)
28-mers:		29-mers:	30-mers:
(no read)		(no read)	(no read)

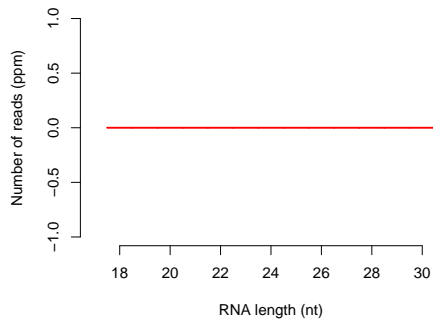
Embryo 60h, library 4:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)

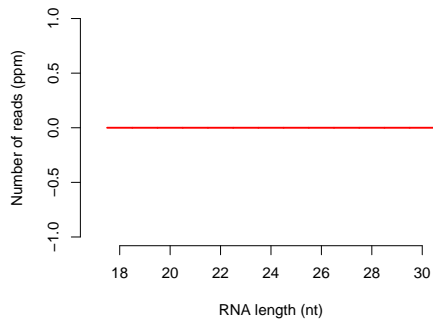
Adult female, library 4:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Adult male, library 4:



18-mers:

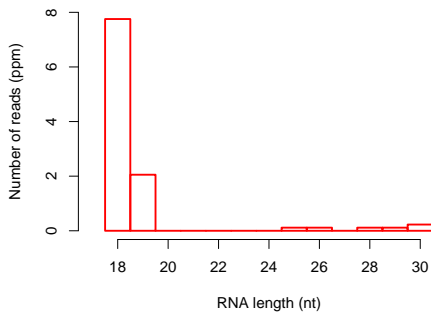
19-mers:	(no read)	20-mers:	21-mers:
(no read)		(no read)	(no read)
22-mers:		23-mers:	24-mers:
(no read)		(no read)	(no read)
25-mers:		26-mers:	27-mers:
(no read)		(no read)	(no read)
28-mers:		29-mers:	30-mers:
(no read)		(no read)	(no read)



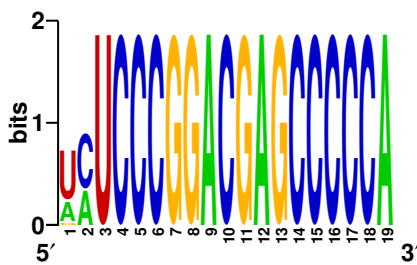
# 13 Extragenomic and extratranscriptomic reads matching extragenomic contig #38312

## 13.1 Libraries #1 (total 5' monophosphorylated small RNAs)

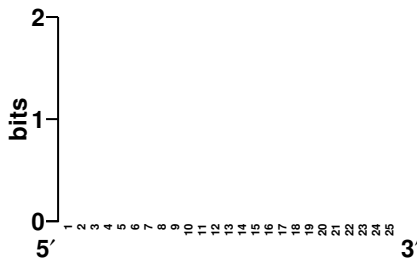
Embryo 8h, library 1:



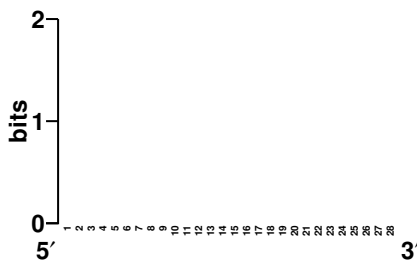
19-mers:



22-mers:  
(no read)  
25-mers:

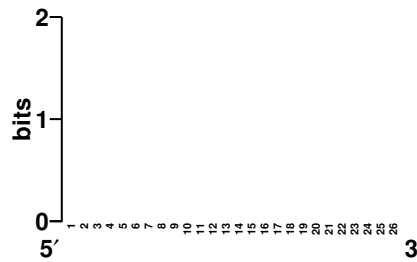


28-mers:

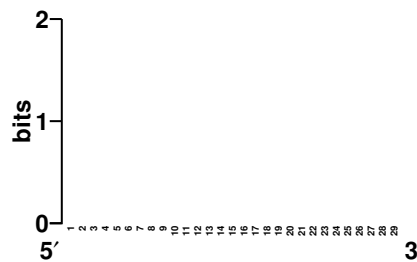


20-mers:

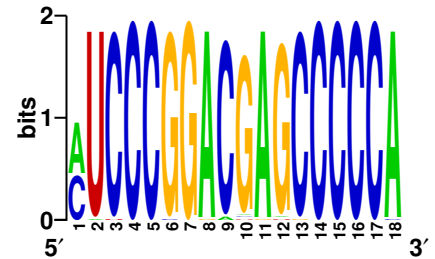
(no read)  
23-mers:  
(no read)  
26-mers:



29-mers:



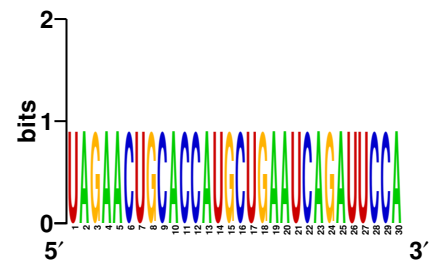
18-mers:



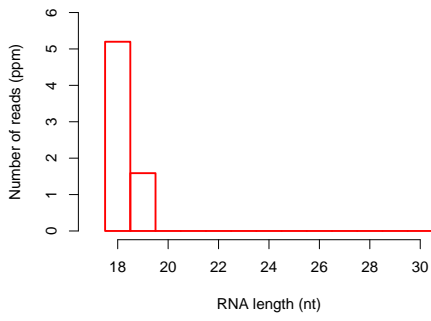
21-mers:

(no read)  
24-mers:  
(no read)  
27-mers:

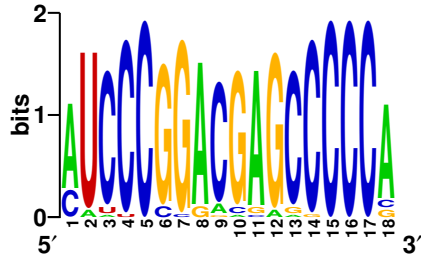
(no read)  
30-mers:



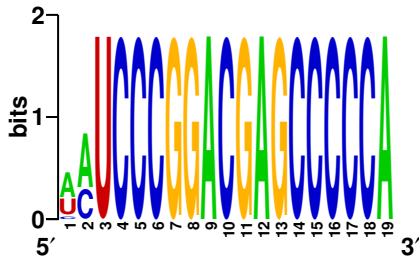
Embryo 15h, library 1:



18-mers:



19-mers:



20-mers:

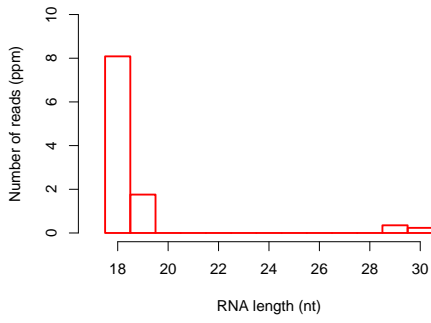
(no read)  
 23-mers:  
 (no read)  
 (no read)  
 26-mers:  
 (no read)  
 (no read)  
 29-mers:  
 (no read)

21-mers:

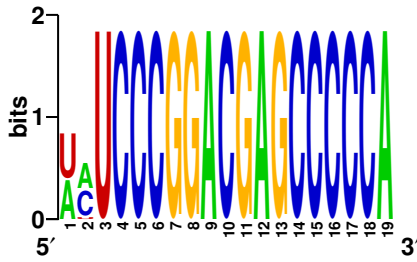
(no read)  
 24-mers:  
 (no read)  
 (no read)  
 27-mers:  
 (no read)  
 (no read)  
 30-mers:  
 (no read)

22-mers:  
 (no read)  
 (no read)  
 25-mers:  
 (no read)  
 (no read)  
 28-mers:  
 (no read)

Embryo 36h, library 1:



19-mers:

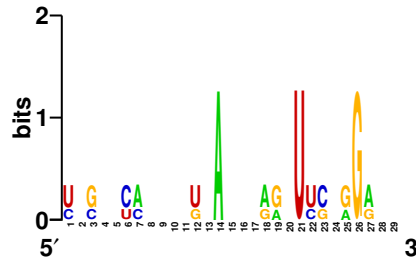


- 22-mers:
- (no read)
- 25-mers:
- (no read)
- 28-mers:

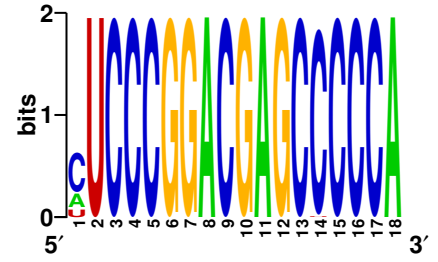
(no read)

20-mers:

- (no read)
- 23-mers:
- (no read)
- 26-mers:
- (no read)
- 29-mers:

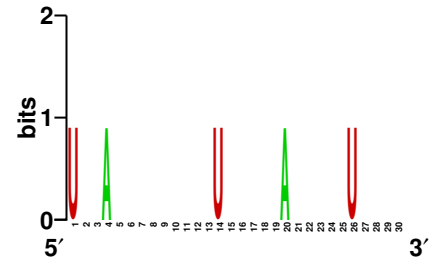


18-mers:



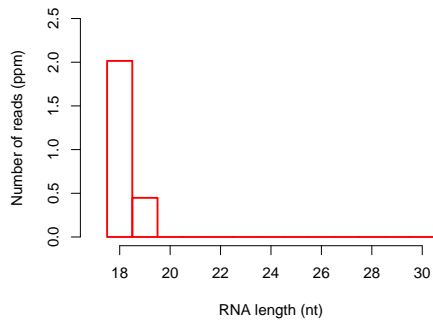
21-mers:

- (no read)
- 24-mers:
- (no read)
- 27-mers:
- (no read)
- 30-mers:

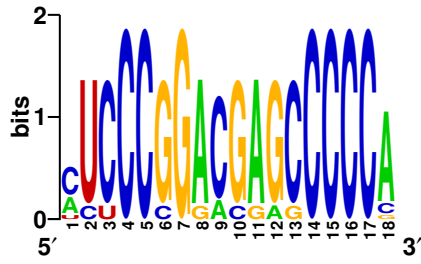




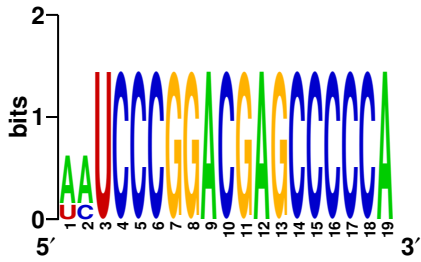
Adult female, library 1:



18-mers:



19-mers:



20-mers:

(no read)

21-mers:

(no read)

22-mers:

(no read)

25-mers:

(no read)

28-mers:

(no read)

23-mers:

(no read)

26-mers:

(no read)

29-mers:

(no read)

24-mers:

(no read)

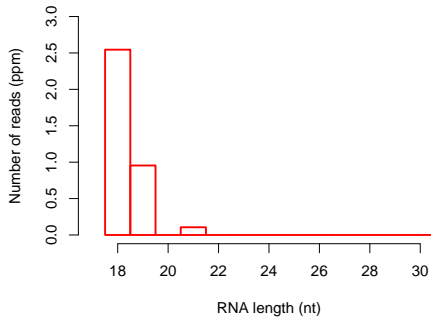
27-mers:

(no read)

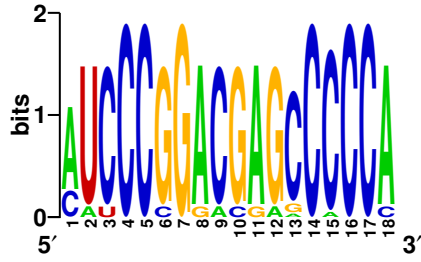
30-mers:

(no read)

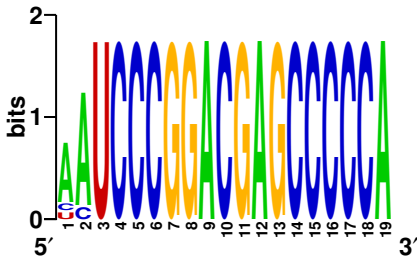
Adult male, library 1:



18-mers:



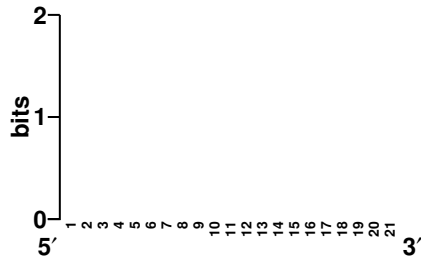
19-mers:



20-mers:

(no read)  
 23-mers:  
 (no read)  
 26-mers:  
 (no read)  
 29-mers:  
 (no read)

21-mers:

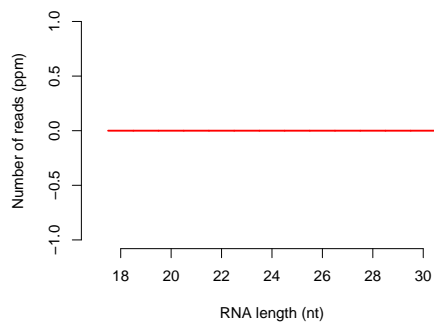


22-mers:  
 (no read)  
 25-mers:  
 (no read)  
 28-mers:  
 (no read)

24-mers:  
 (no read)  
 27-mers:  
 (no read)  
 30-mers:  
 (no read)

## 13.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

Embryo 8h, library 2:



18-mers:

(no read)

19-mers:

20-mers:

21-mers:

(no read)

(no read)

(no read)

22-mers:

23-mers:

24-mers:

(no read)

(no read)

(no read)

25-mers:

26-mers:

27-mers:

(no read)

(no read)

(no read)

28-mers:

29-mers:

30-mers:

(no read)

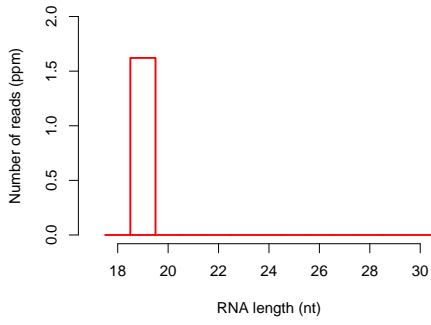
(no read)

(no read)





Embryo 36h, library 2:



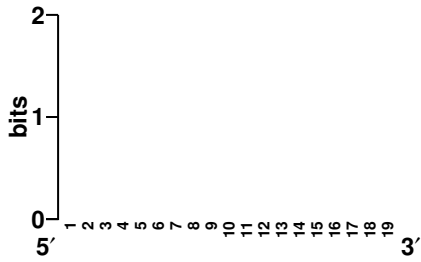
18-mers:

19-mers:

20-mers:

(no read)

21-mers:



(no read)

(no read)

22-mers:

(no read)

(no read)

(no read)

(no read)

(no read)

25-mers:

(no read)

(no read)

(no read)

(no read)

(no read)

28-mers:

(no read)

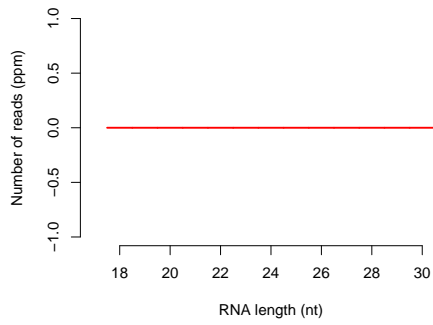
(no read)

(no read)

(no read)

(no read)

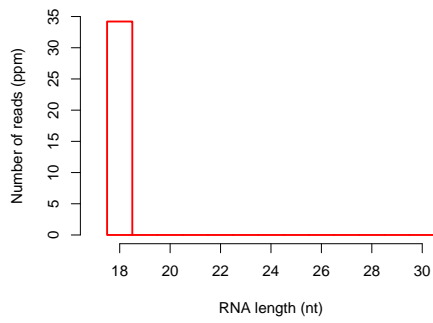
Embryo 60h, library 2:



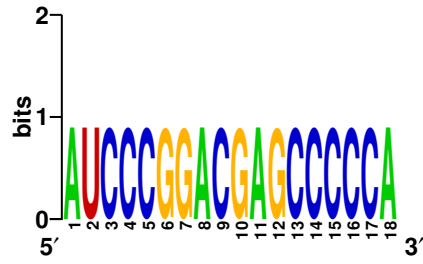
18-mers:

19-mers:	(no read)	20-mers:	21-mers:
(no read)		(no read)	(no read)
22-mers:		23-mers:	24-mers:
(no read)		(no read)	(no read)
25-mers:		26-mers:	27-mers:
(no read)		(no read)	(no read)
28-mers:		29-mers:	30-mers:
(no read)		(no read)	(no read)

Adult female, library 2:



18-mers:



19-mers:

(no read)

22-mers:

(no read)

25-mers:

(no read)

28-mers:

(no read)

20-mers:

(no read)

23-mers:

(no read)

26-mers:

(no read)

29-mers:

(no read)

21-mers:

(no read)

24-mers:

(no read)

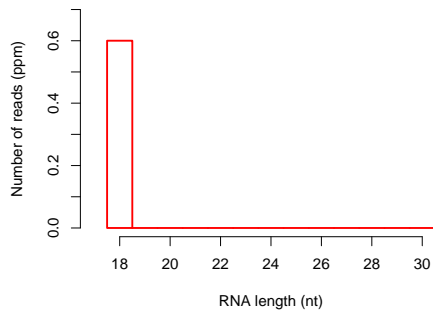
27-mers:

(no read)

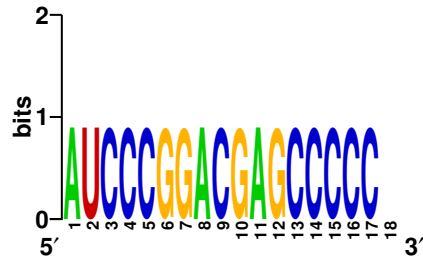
30-mers:

(no read)

Adult male, library 2:



18-mers:



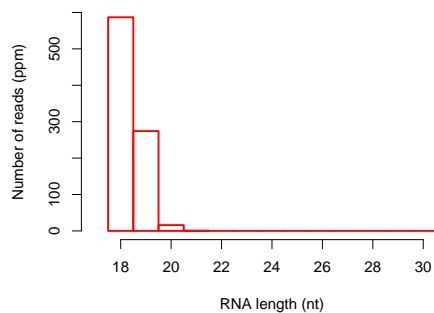
19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

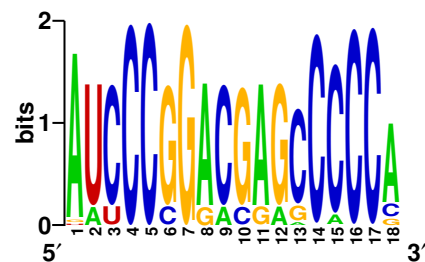
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

### 13.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

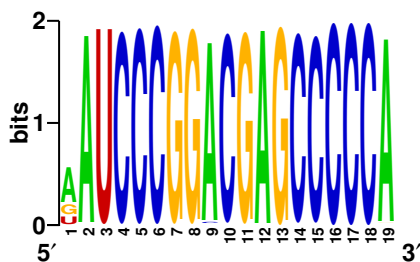
Embryo 8h, library 3:



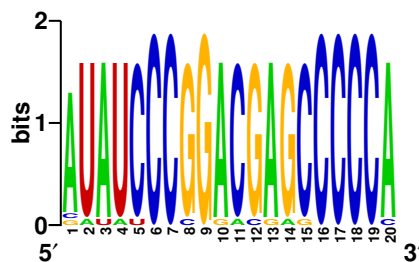
18-mers:



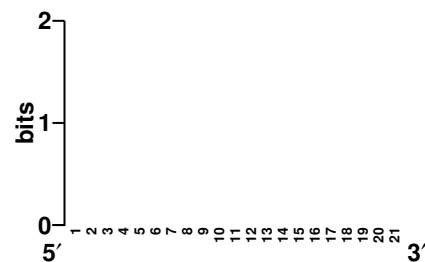
19-mers:



20-mers:



21-mers:



22-mers:

(no read)

23-mers:

(no read)

24-mers:

(no read)

25-mers:

(no read)

26-mers:

(no read)

27-mers:

(no read)

28-mers:

(no read)

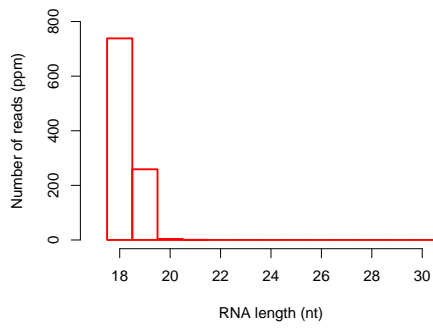
29-mers:

(no read)

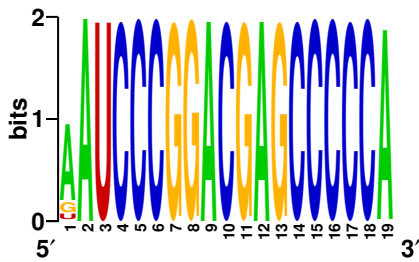
30-mers:

(no read)

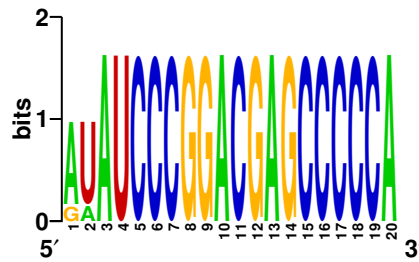
Embryo 15h, library 3:



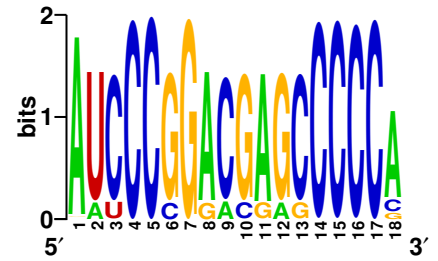
19-mers:



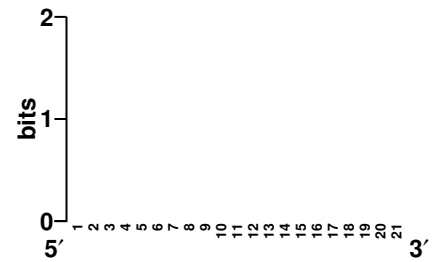
20-mers:



18-mers:



21-mers:



22-mers:

(no read)

25-mers:

(no read)

28-mers:

(no read)

23-mers:

(no read)

26-mers:

(no read)

29-mers:

(no read)

24-mers:

(no read)

27-mers:

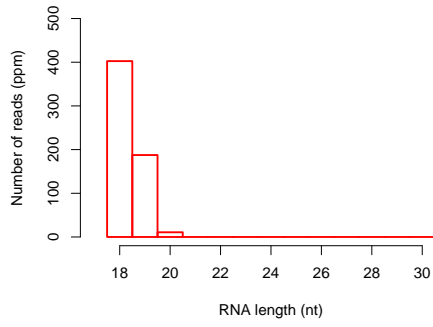
(no read)

30-mers:

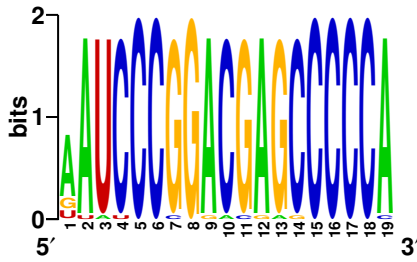
(no read)



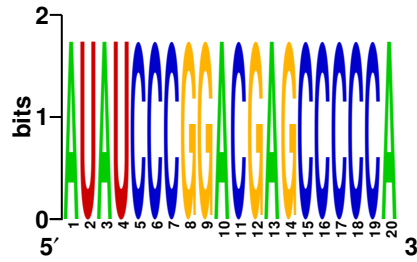
Embryo 60h, library 3:



19-mers:



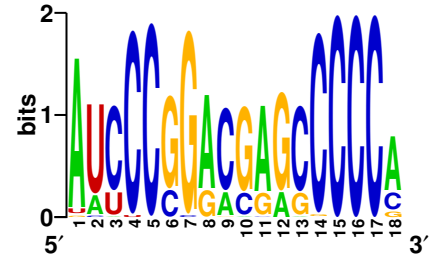
20-mers:



22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

18-mers:

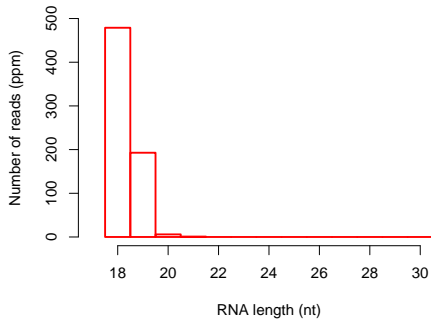


21-mers:

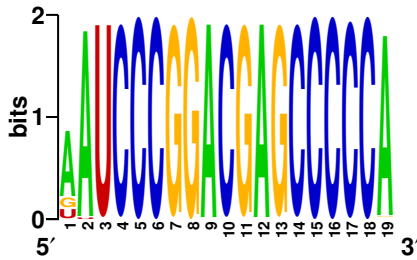
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)



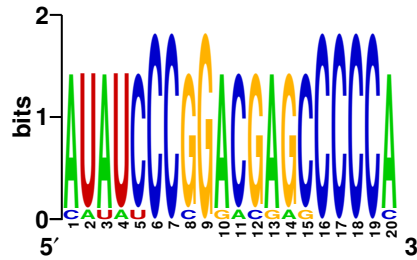
Adult female, library 3:



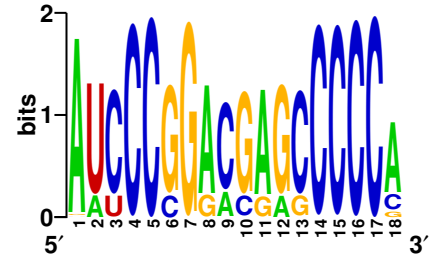
19-mers:



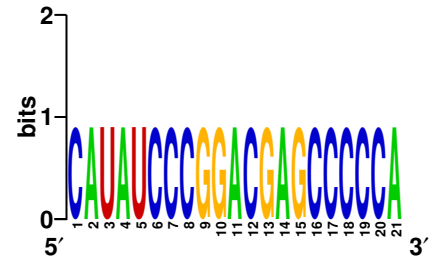
20-mers:



18-mers:



21-mers:

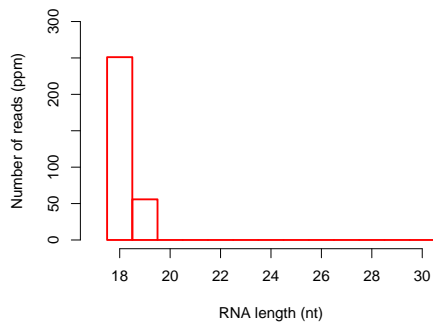


22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

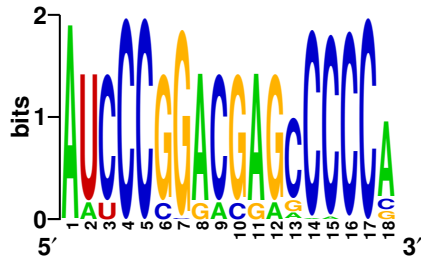
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

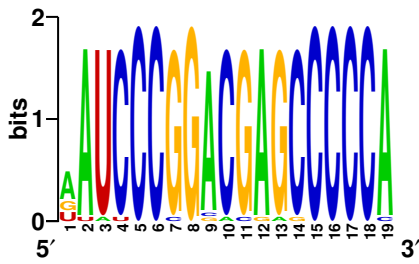
Adult male, library 3:



18-mers:



19-mers:



20-mers:

(no read)

21-mers:

(no read)

22-mers:

(no read)

23-mers:

(no read)

24-mers:

(no read)

25-mers:

(no read)

26-mers:

(no read)

27-mers:

(no read)

28-mers:

(no read)

29-mers:

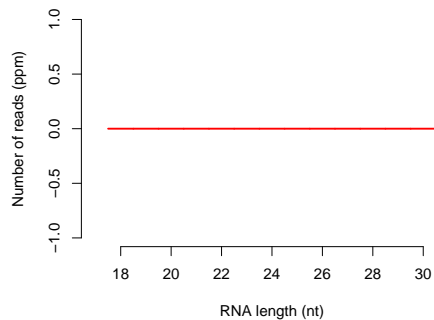
(no read)

30-mers:

(no read)

### 13.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

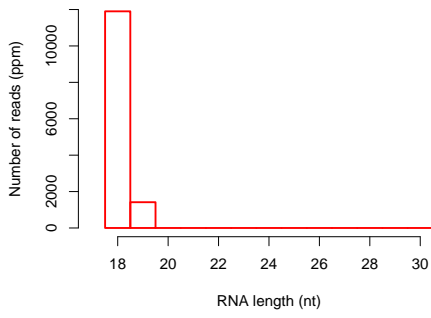
Embryo 8h, library 4:



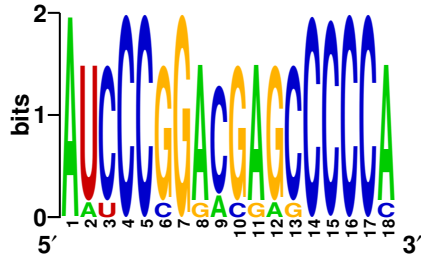
18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

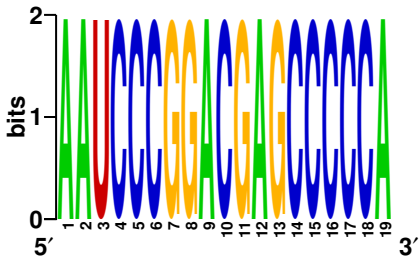
Embryo 15h, library 4:



18-mers:



19-mers:



20-mers:

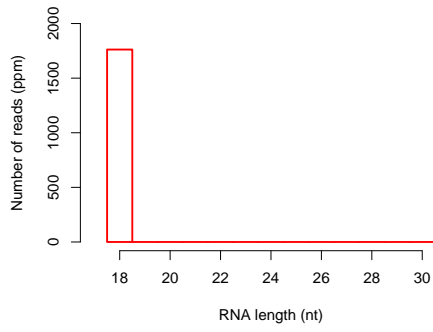
(no read)  
 23-mers:  
 (no read)  
 26-mers:  
 (no read)  
 29-mers:  
 (no read)

21-mers:

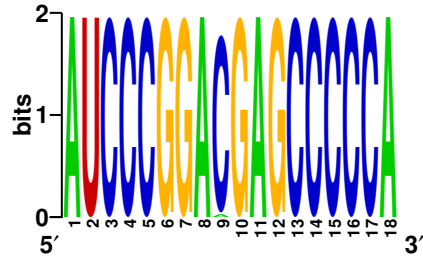
(no read)  
 24-mers:  
 (no read)  
 27-mers:  
 (no read)  
 30-mers:  
 (no read)

22-mers:  
 (no read)  
 25-mers:  
 (no read)  
 28-mers:  
 (no read)

Embryo 36h, library 4:



18-mers:

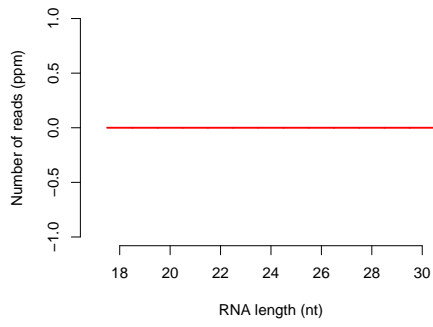


19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

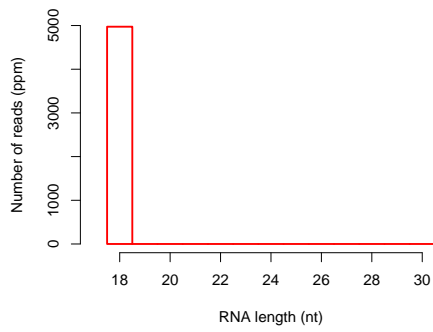
Embryo 60h, library 4:



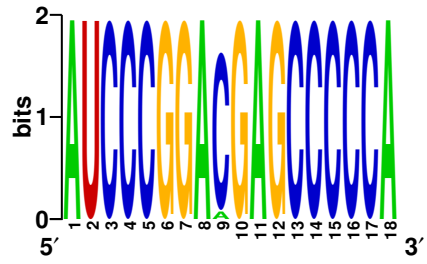
18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Adult female, library 4:



18-mers:

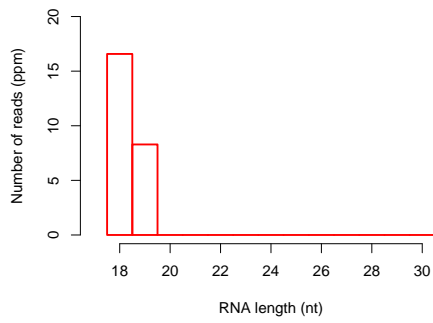


19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

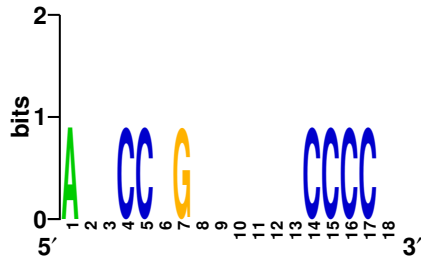
20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

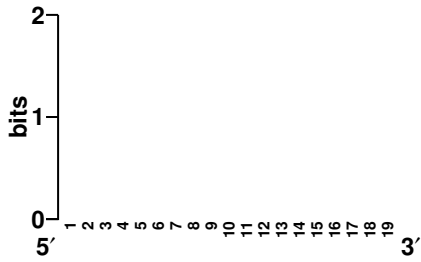
Adult male, library 4:



18-mers:



19-mers:



20-mers:

(no read)  
 23-mers: (no read)  
 26-mers: (no read)  
 29-mers: (no read)

21-mers:

(no read)  
 24-mers: (no read)  
 27-mers: (no read)  
 30-mers: (no read)

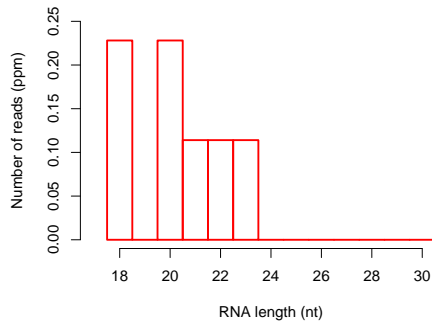
22-mers: (no read)  
 25-mers: (no read)  
 28-mers: (no read)



# 14 Extragenomic and extratranscriptomic reads matching extragenomic contig #3365

## 14.1 Libraries #1 (total 5' monophosphorylated small RNAs)

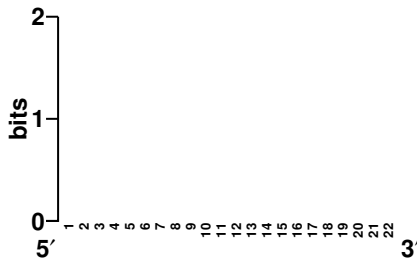
Embryo 8h, library 1:



19-mers:

(no read)

22-mers:



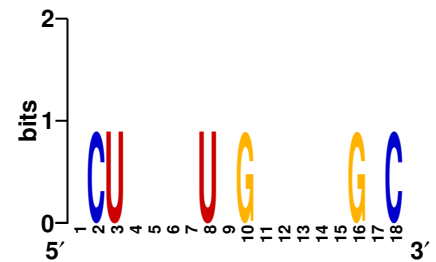
25-mers:

(no read)

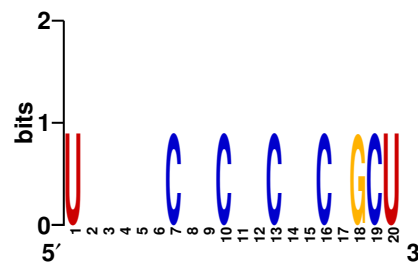
28-mers:

(no read)

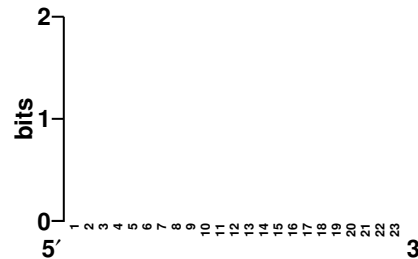
18-mers:



20-mers:



23-mers:



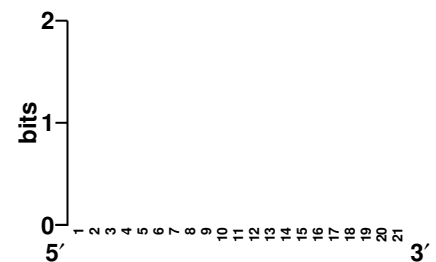
26-mers:

(no read)

29-mers:

(no read)

21-mers:



24-mers:

(no read)

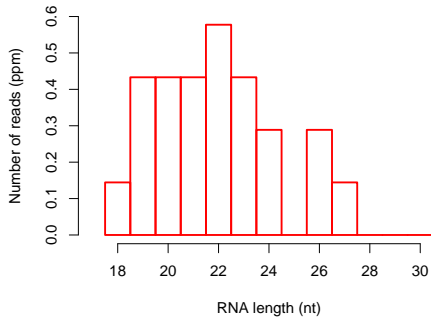
27-mers:

(no read)

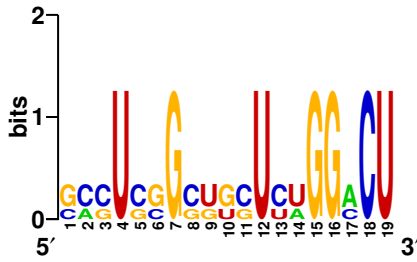
30-mers:

(no read)

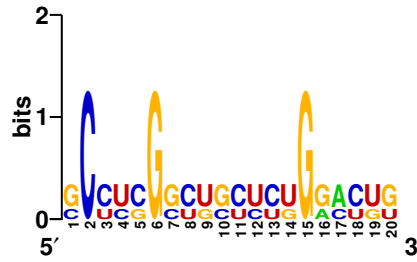
Embryo 15h, library 1:



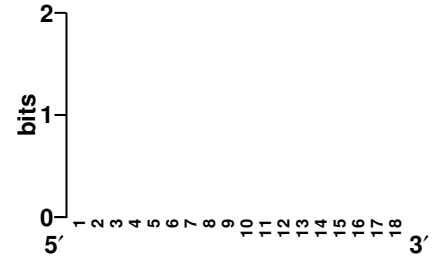
19-mers:



20-mers:



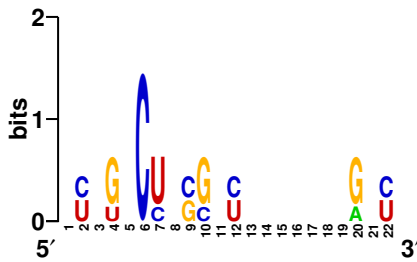
18-mers:



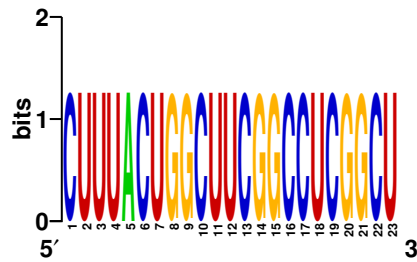
21-mers:



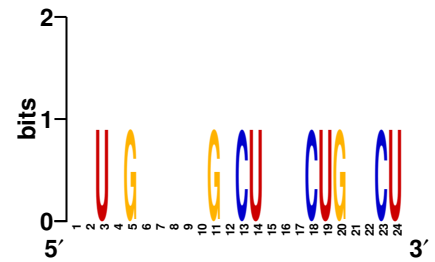
22-mers:



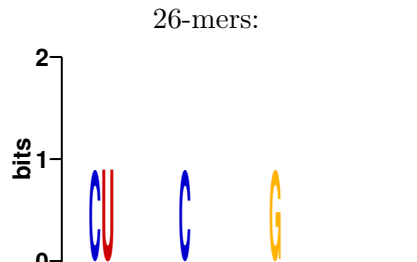
23-mers:



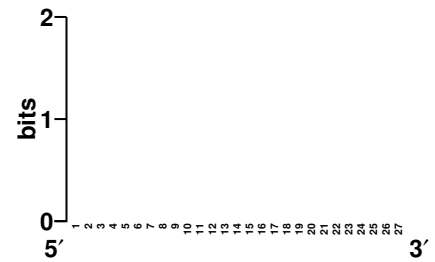
24-mers:



25-mers:



27-mers:



(no read)

28-mers:

(no read)

29-mers:

(no read)

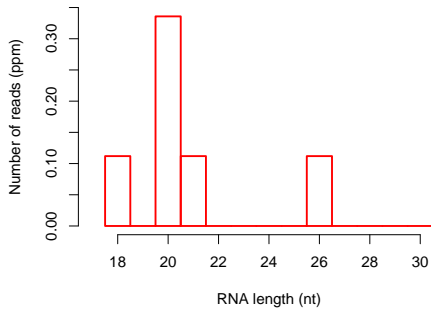
30-mers:

(no read)





Adult female, library 1:

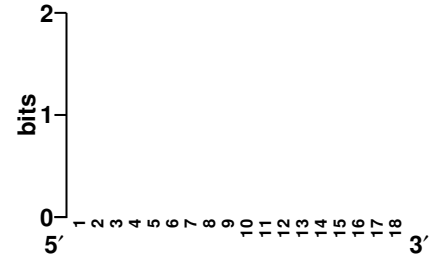


19-mers:

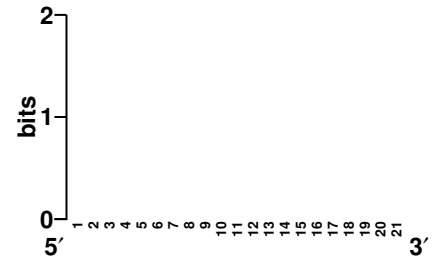
(no read)  
22-mers:  
(no read)  
25-mers:

(no read)  
28-mers:  
(no read)

18-mers:



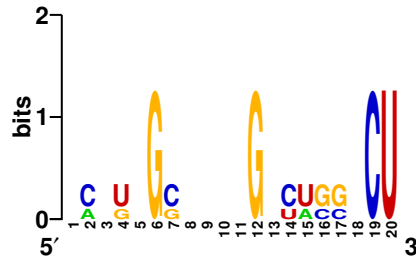
21-mers:



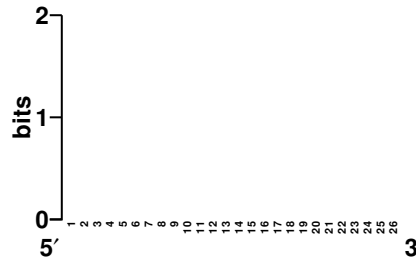
24-mers:  
(no read)  
27-mers:

(no read)  
30-mers:  
(no read)

20-mers:

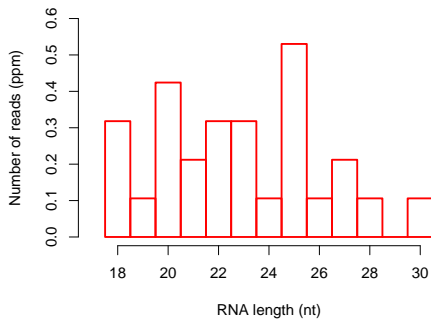


23-mers:  
(no read)  
26-mers:

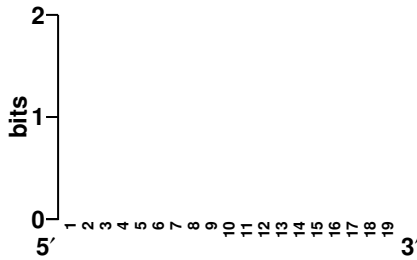


29-mers:  
(no read)

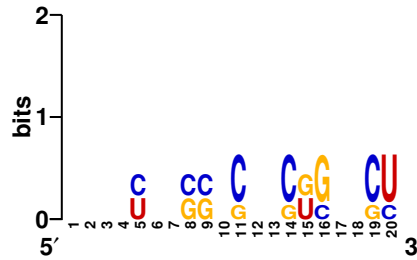
Adult male, library 1:



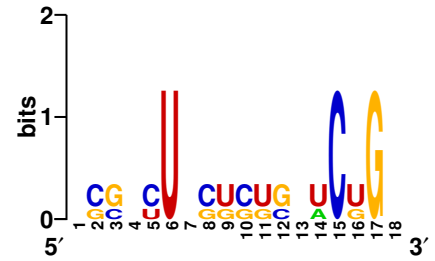
19-mers:



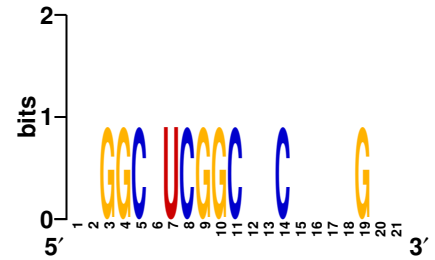
20-mers:



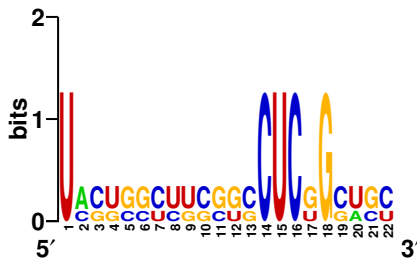
18-mers:



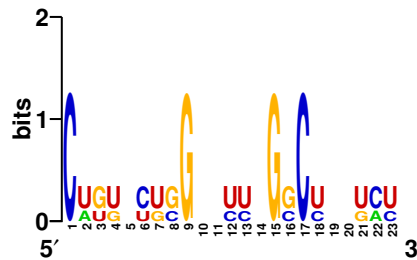
21-mers:



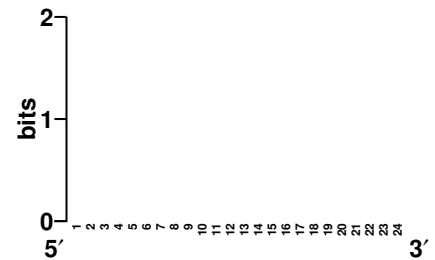
22-mers:



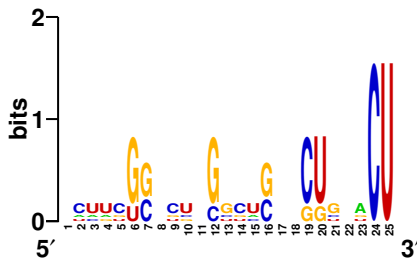
23-mers:



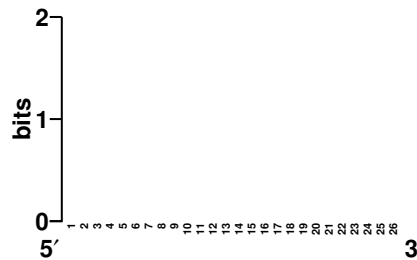
24-mers:



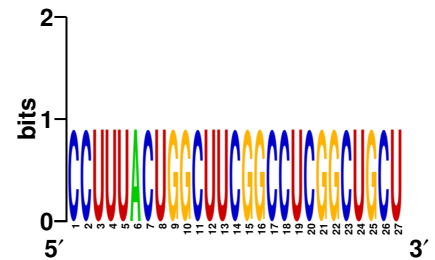
25-mers:



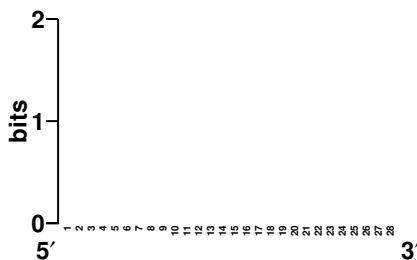
26-mers:



27-mers:



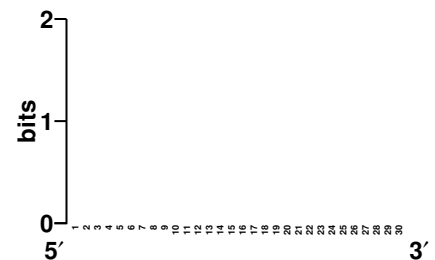
28-mers:



29-mers:

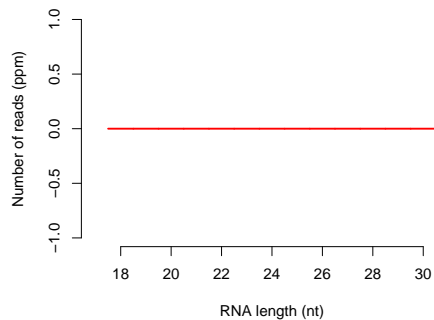
(no read)

30-mers:



## 14.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

Embryo 8h, library 2:



18-mers:

(no read)

19-mers:

20-mers:

21-mers:

(no read)

(no read)

(no read)

22-mers:

23-mers:

24-mers:

(no read)

(no read)

(no read)

25-mers:

26-mers:

27-mers:

(no read)

(no read)

(no read)

28-mers:

29-mers:

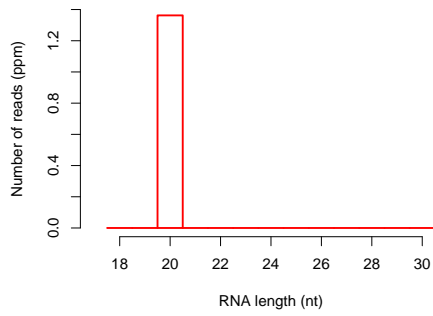
30-mers:

(no read)

(no read)

(no read)

Embryo 15h, library 2:



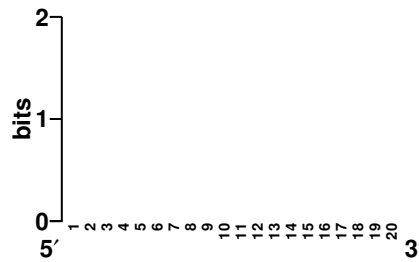
19-mers:

20-mers:

18-mers:

(no read)

21-mers:



(no read)

22-mers:

23-mers:

(no read)

24-mers:

(no read)

(no read)

(no read)

25-mers:

26-mers:

27-mers:

(no read)

(no read)

(no read)

28-mers:

29-mers:

30-mers:

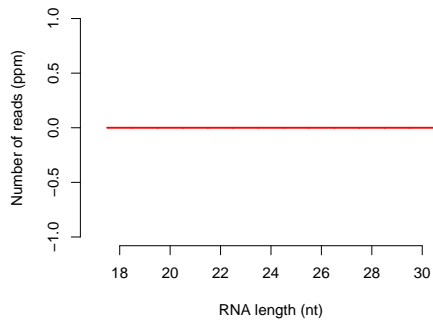
(no read)

(no read)

(no read)



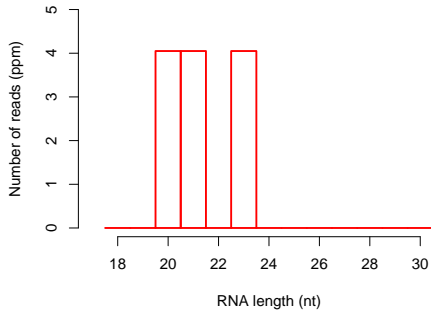
Embryo 36h, library 2:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Embryo 60h, library 2:

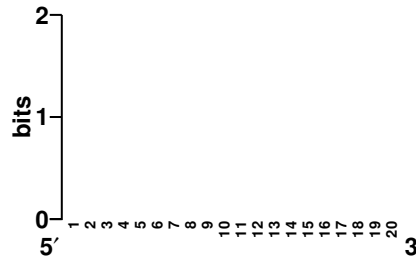


19-mers:

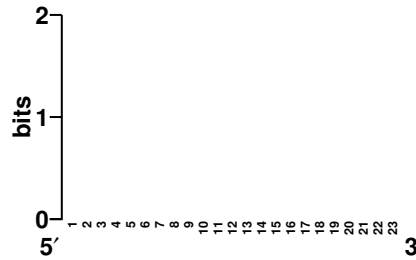
(no read)  
22-mers:

(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

20-mers:



23-mers:

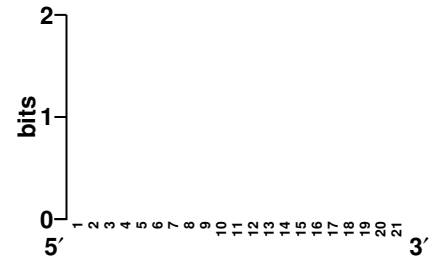


26-mers:

(no read)  
29-mers:  
(no read)

18-mers:

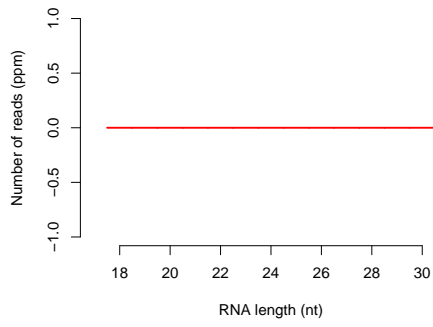
(no read)  
21-mers:



24-mers:

(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

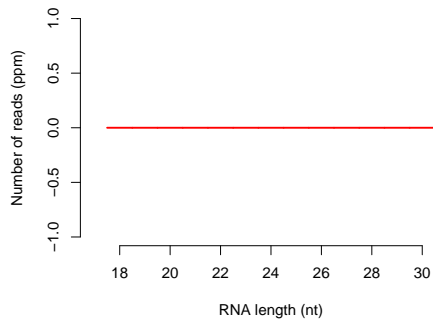
Adult female, library 2:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Adult male, library 2:

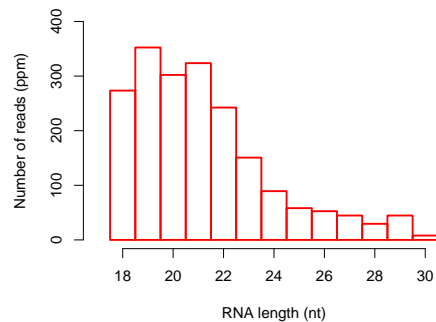


18-mers:

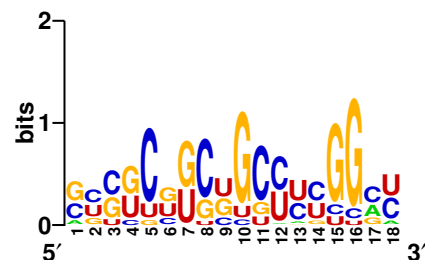
19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

### 14.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

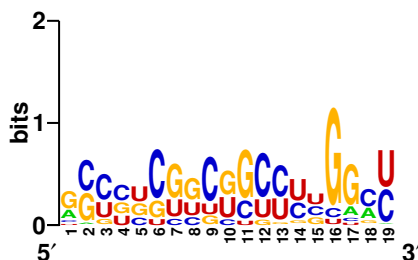
Embryo 8h, library 3:



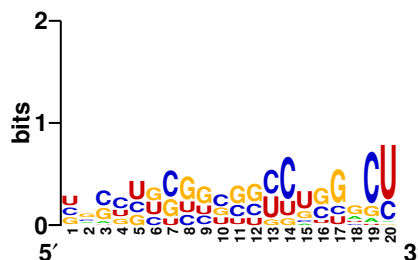
18-mers:



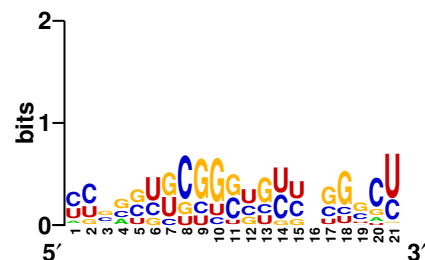
19-mers:



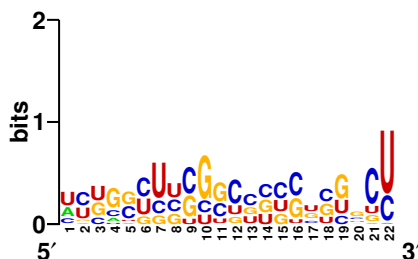
20-mers:



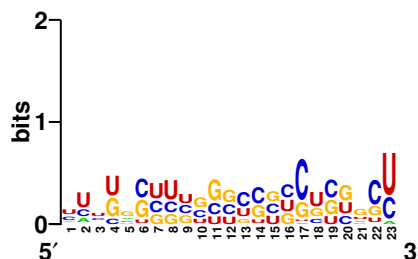
21-mers:



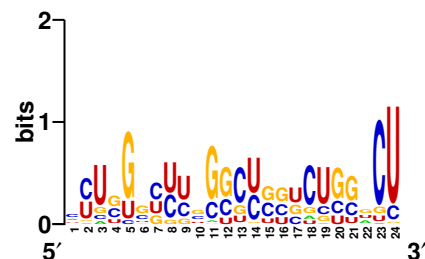
22-mers:



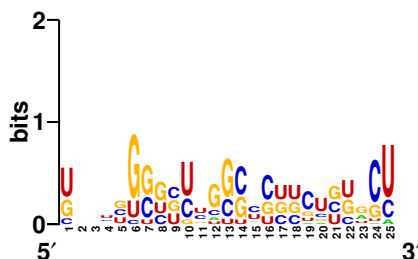
23-mers:



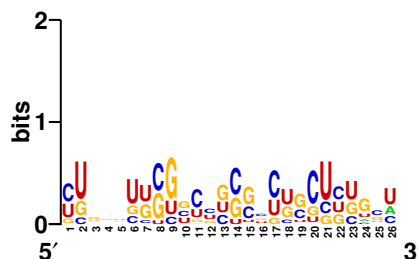
24-mers:



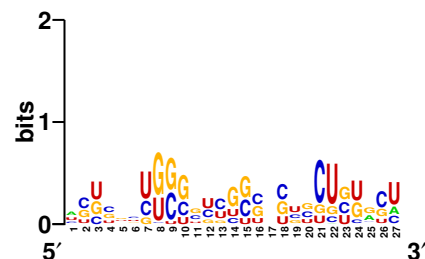
25-mers:



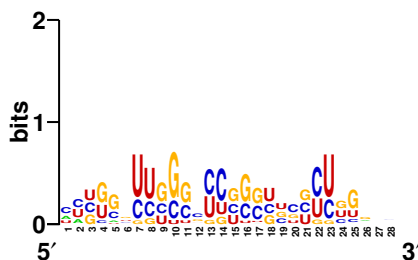
26-mers:



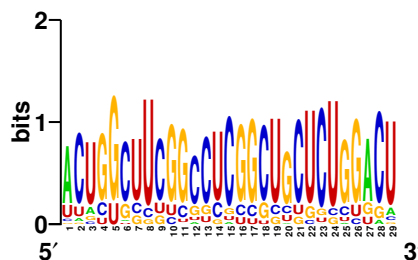
27-mers:



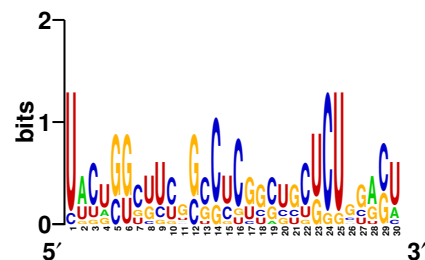
28-mers:



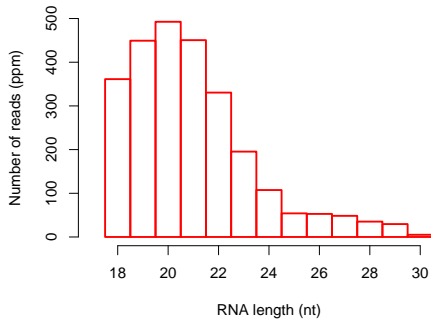
29-mers:



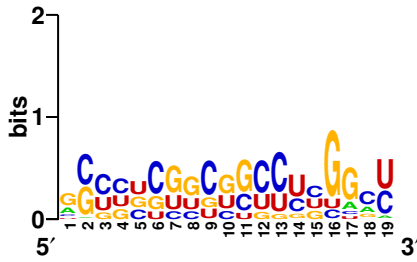
30-mers:



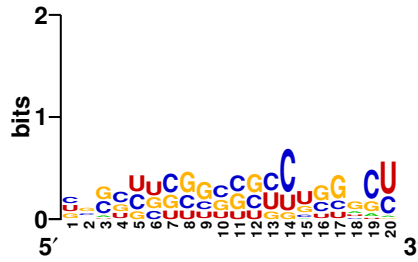
Embryo 15h, library 3:



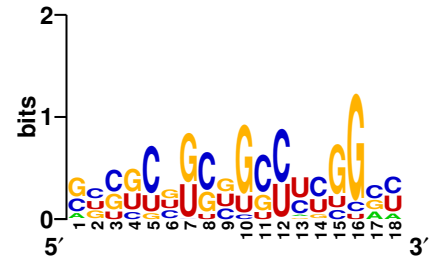
19-mers:



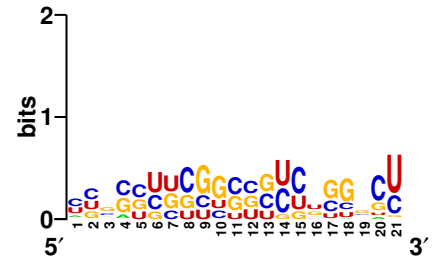
20-mers:



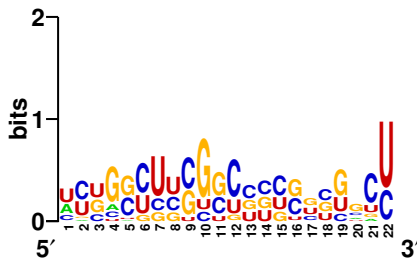
18-mers:



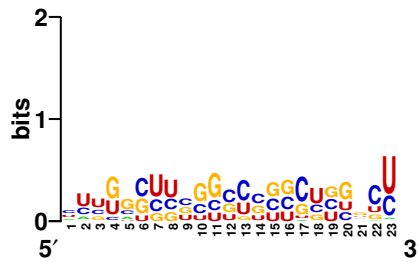
21-mers:



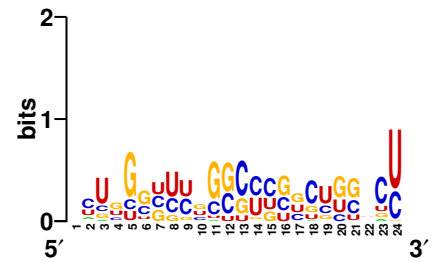
22-mers:



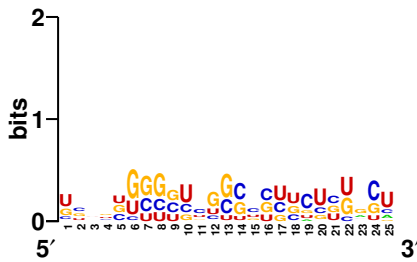
23-mers:



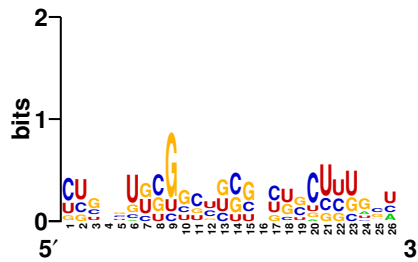
24-mers:



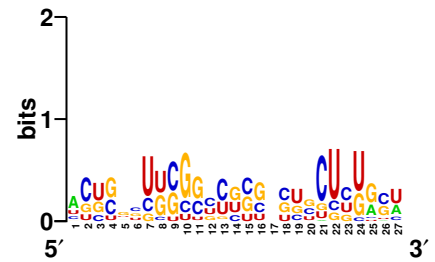
25-mers:



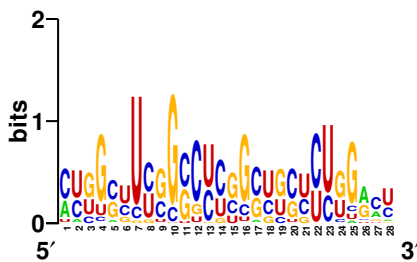
26-mers:



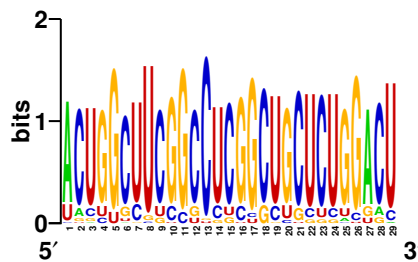
27-mers:



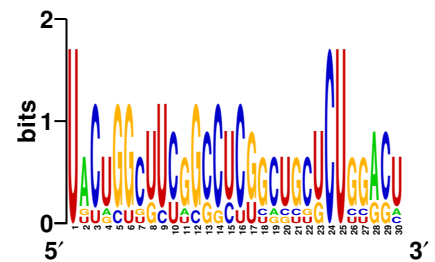
28-mers:



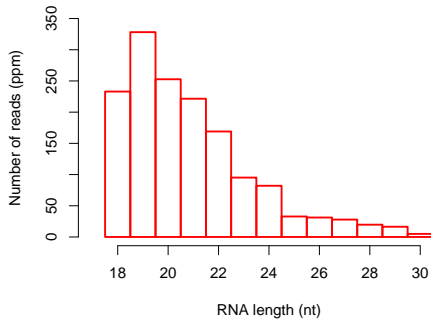
29-mers:



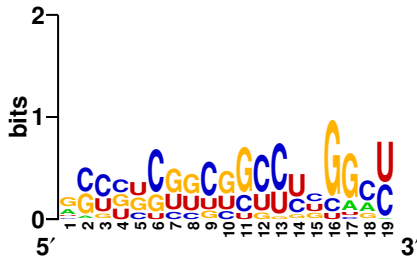
30-mers:



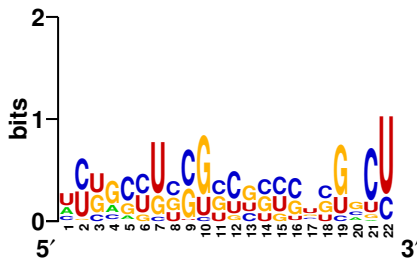
Embryo 36h, library 3:



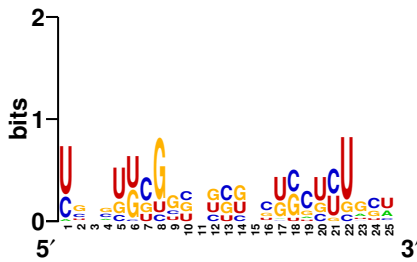
19-mers:



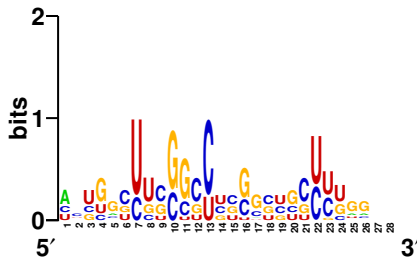
22-mers:



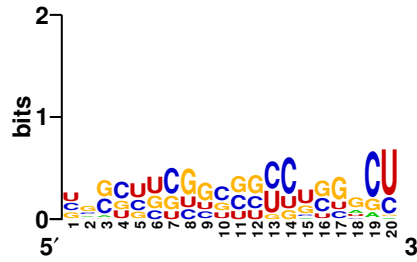
25-mers:



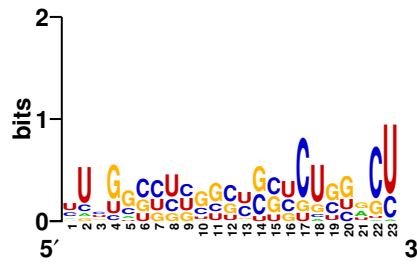
28-mers:



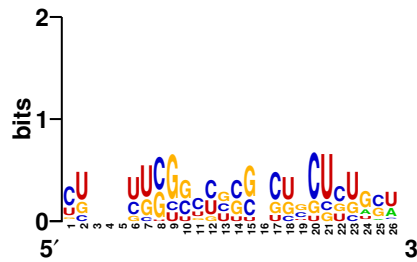
20-mers:



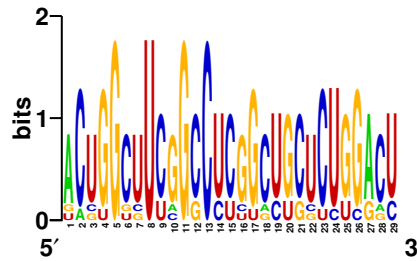
23-mers:



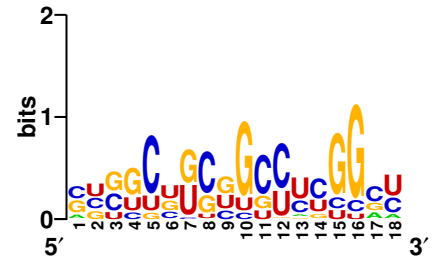
26-mers:



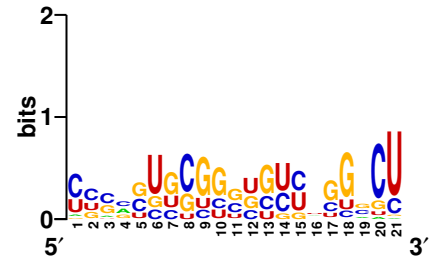
29-mers:



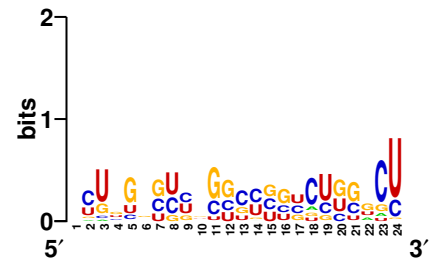
18-mers:



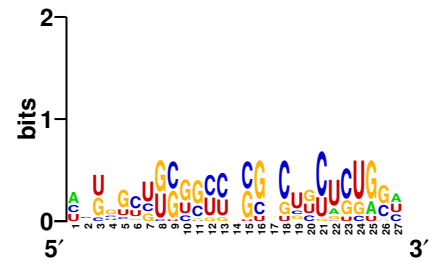
21-mers:



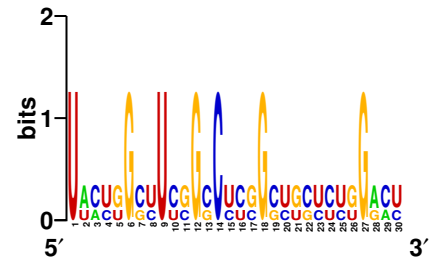
24-mers:



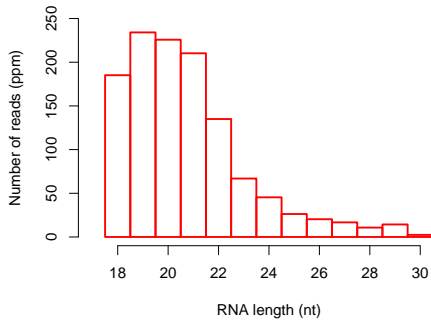
27-mers:



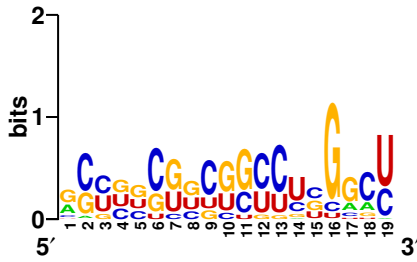
30-mers:



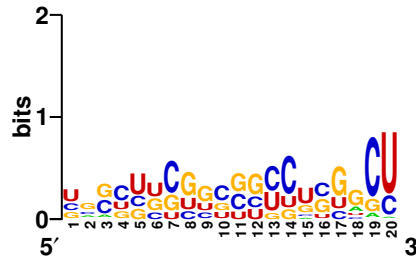
Embryo 60h, library 3:



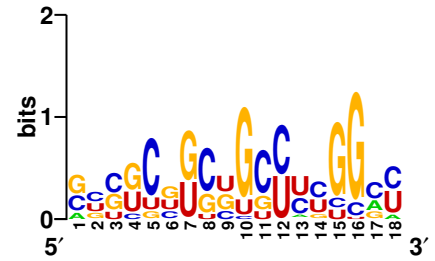
19-mers:



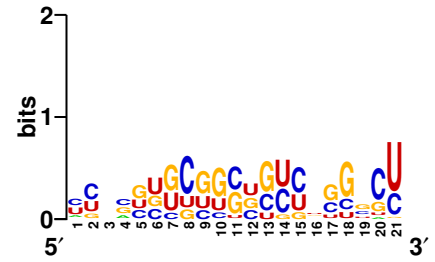
20-mers:



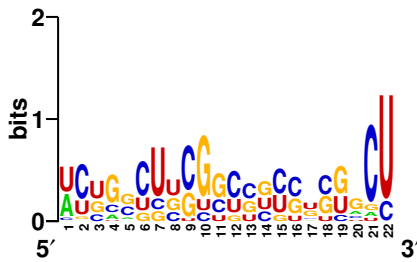
18-mers:



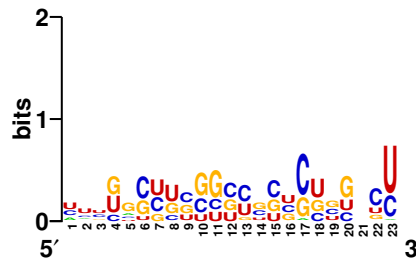
21-mers:



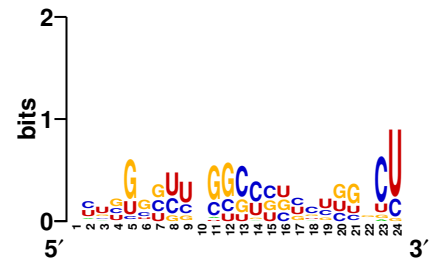
22-mers:



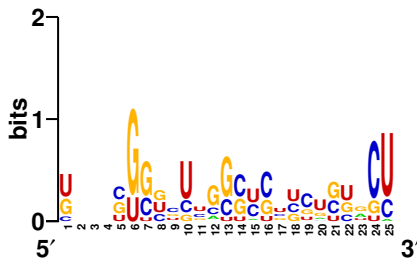
23-mers:



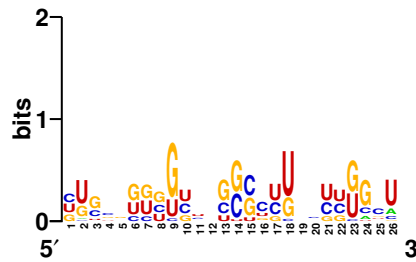
24-mers:



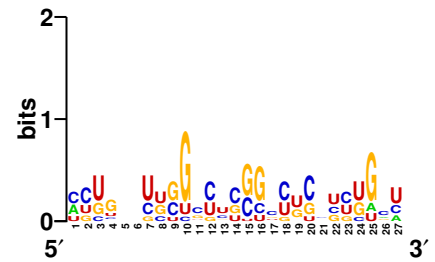
25-mers:



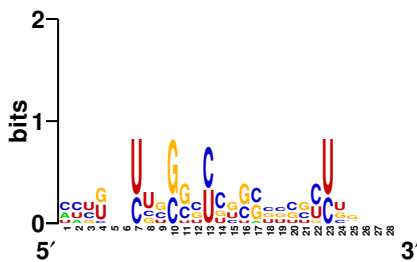
26-mers:



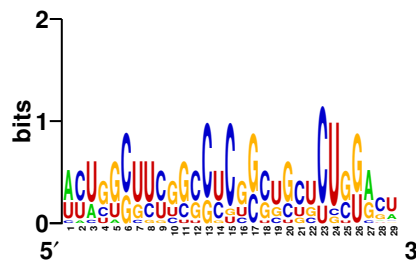
27-mers:



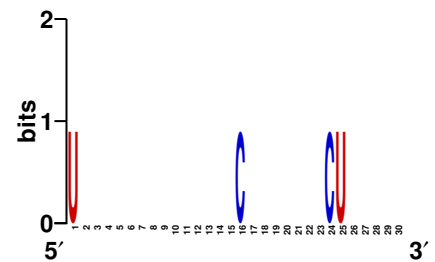
28-mers:



29-mers:

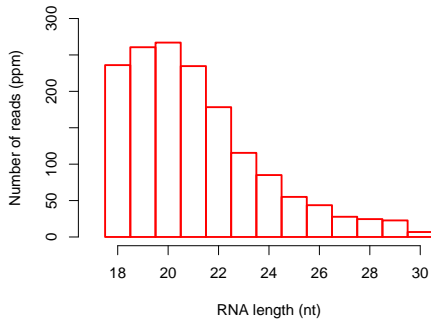


30-mers:

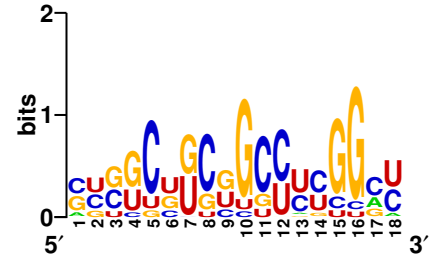




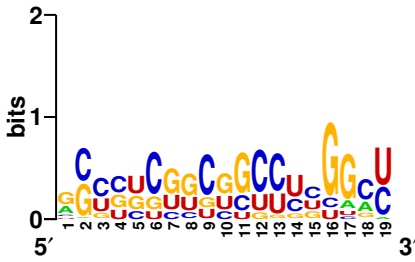
Adult female, library 3:



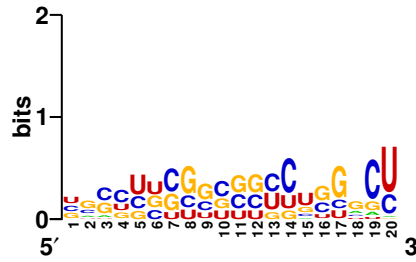
18-mers:



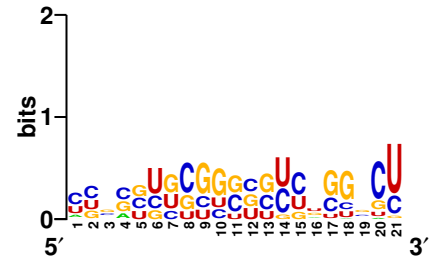
19-mers:



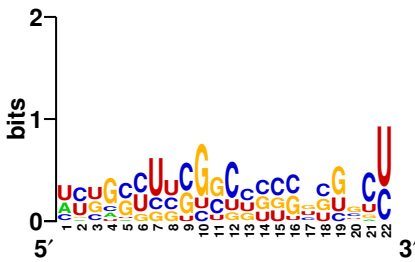
20-mers:



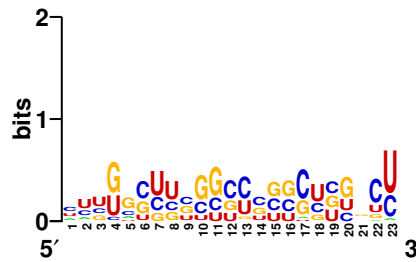
21-mers:



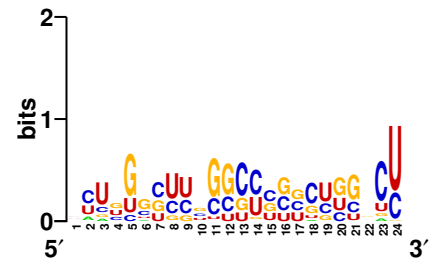
22-mers:



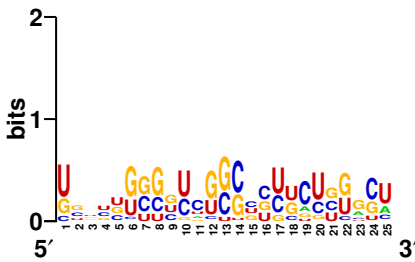
23-mers:



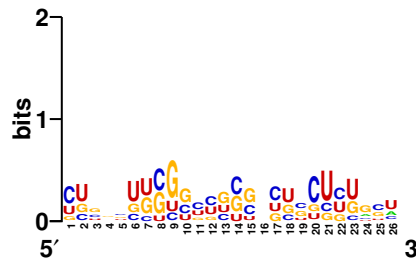
24-mers:



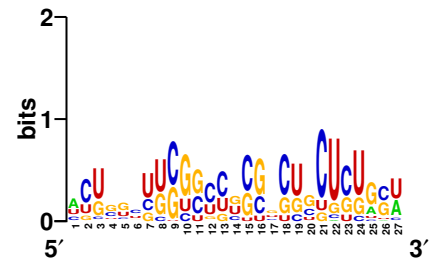
25-mers:



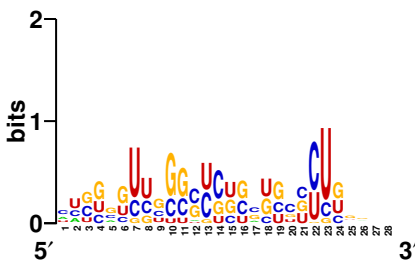
26-mers:



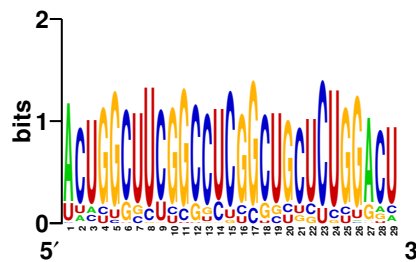
27-mers:



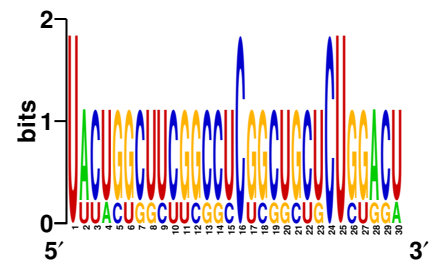
28-mers:



29-mers:



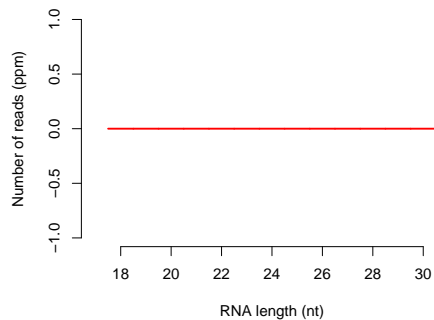
30-mers:





## 14.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 4:



18-mers:

(no read)

19-mers:

20-mers:

21-mers:

(no read)

(no read)

(no read)

22-mers:

23-mers:

24-mers:

(no read)

(no read)

(no read)

25-mers:

26-mers:

27-mers:

(no read)

(no read)

(no read)

28-mers:

29-mers:

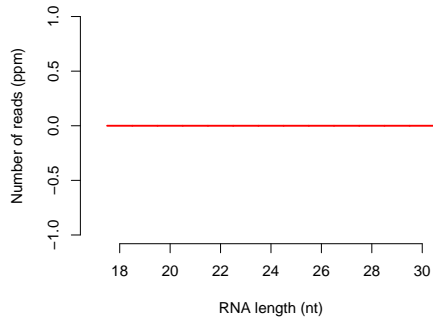
30-mers:

(no read)

(no read)

(no read)

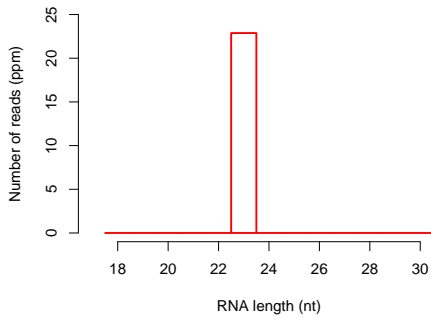
Embryo 15h, library 4:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Embryo 36h, library 4:

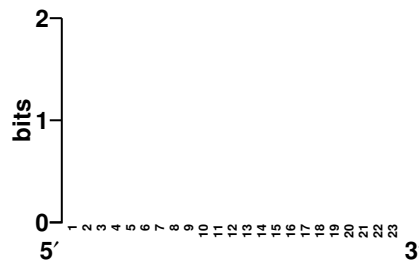


19-mers:  
(no read)  
22-mers:

20-mers:  
(no read)  
23-mers:

18-mers:

(no read)  
21-mers:  
(no read)  
24-mers:

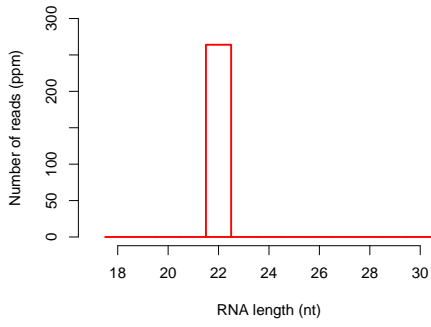


(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

26-mers:  
(no read)  
29-mers:  
(no read)

(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

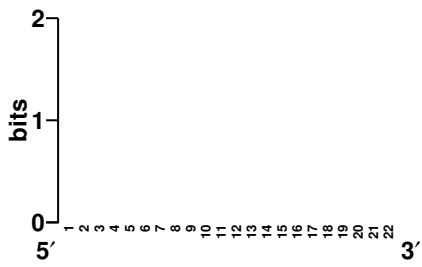
Embryo 60h, library 4:



19-mers:  
(no read)  
22-mers:

20-mers:  
(no read)  
23-mers:

18-mers:  
(no read)  
21-mers:  
(no read)  
24-mers:

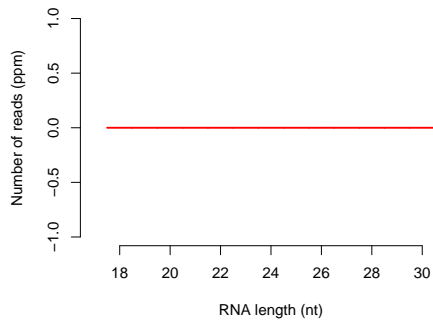


25-mers:  
(no read)  
28-mers:  
(no read)

(no read)  
26-mers:  
(no read)  
29-mers:  
(no read)

(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)

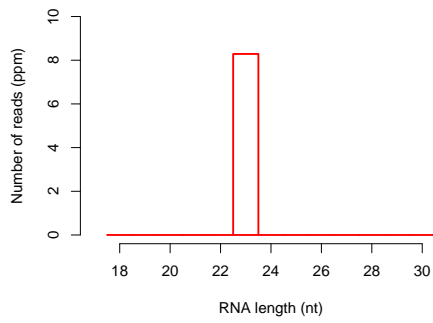
Adult female, library 4:



18-mers:

19-mers:	(no read)	20-mers:	21-mers:
(no read)		(no read)	(no read)
22-mers:		23-mers:	24-mers:
(no read)		(no read)	(no read)
25-mers:		26-mers:	27-mers:
(no read)		(no read)	(no read)
28-mers:		29-mers:	30-mers:
(no read)		(no read)	(no read)

Adult male, library 4:

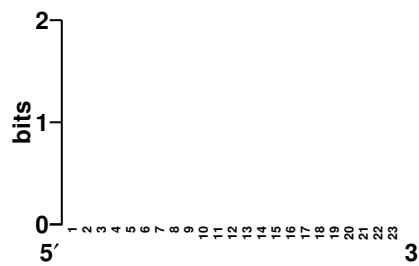


19-mers:  
(no read)  
22-mers:

20-mers:  
(no read)  
23-mers:

18-mers:

(no read)  
21-mers:  
(no read)  
24-mers:



(no read)  
25-mers:  
(no read)  
28-mers:  
(no read)

26-mers:  
(no read)  
29-mers:  
(no read)

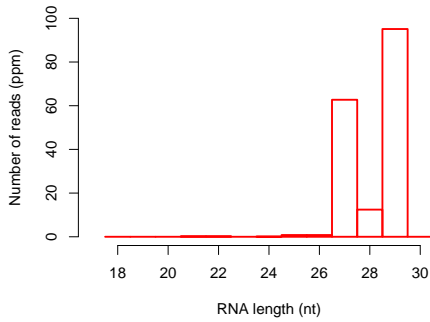
(no read)  
27-mers:  
(no read)  
30-mers:  
(no read)



# 15 Extragenomic and extratranscriptomic reads matching extragenomic contig #10883

## 15.1 Libraries #1 (total 5' monophosphorylated small RNAs)

Embryo 8h, library 1:

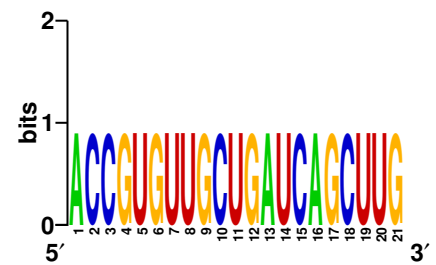


19-mers:

20-mers:

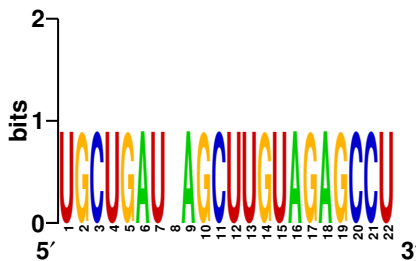
18-mers:

(no read)  
21-mers:

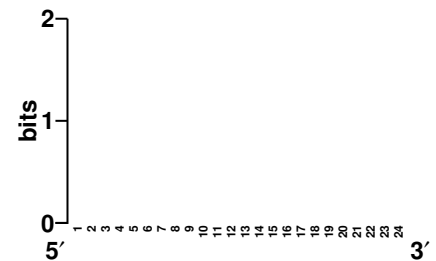


(no read)  
22-mers:

(no read)  
23-mers:

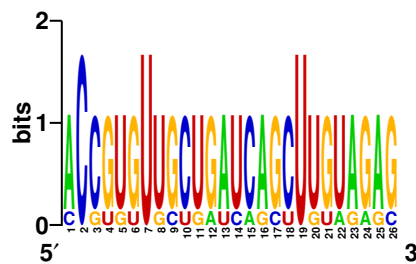
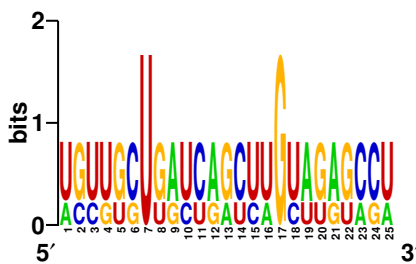


24-mers:

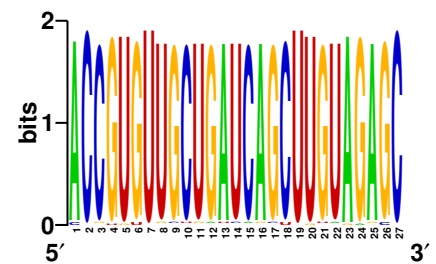


25-mers:

(no read)  
26-mers:



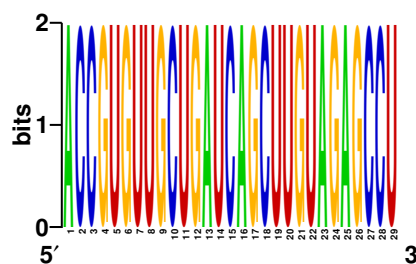
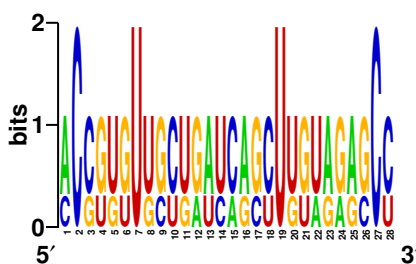
27-mers:



28-mers:

29-mers:

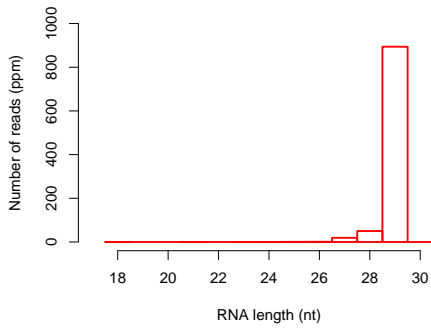
30-mers:



(no read)



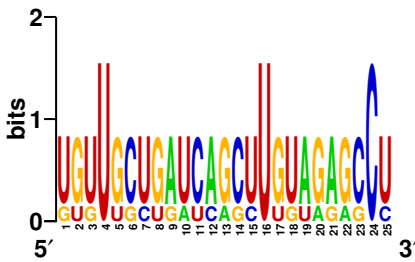
Embryo 36h, library 1:



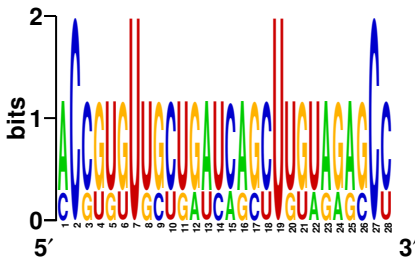
19-mers:

(no read)  
22-mers:

(no read)  
25-mers:

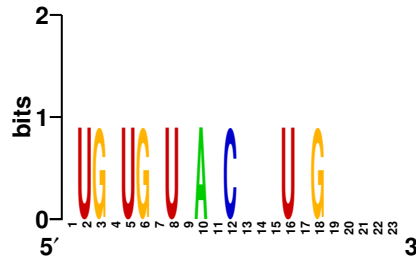


28-mers:

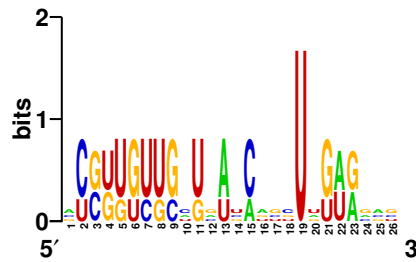


20-mers:

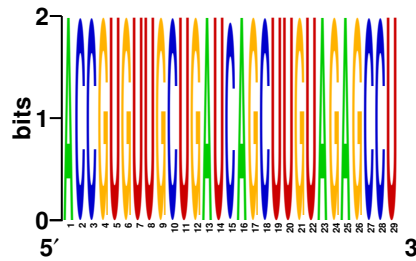
(no read)  
23-mers:



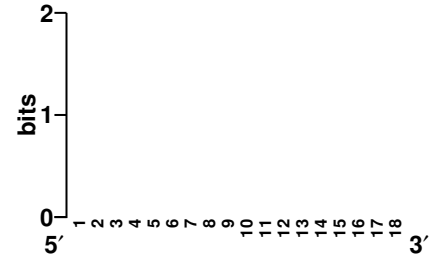
26-mers:



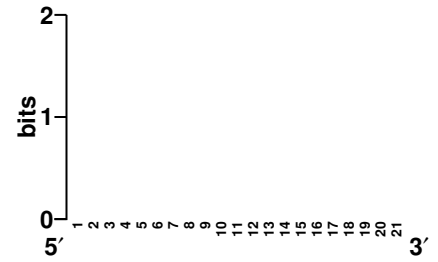
29-mers:



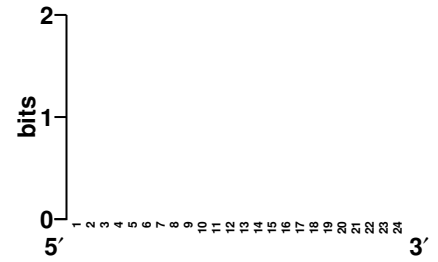
18-mers:



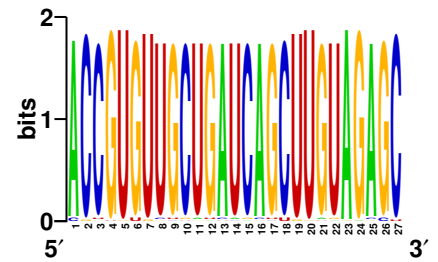
21-mers:



24-mers:



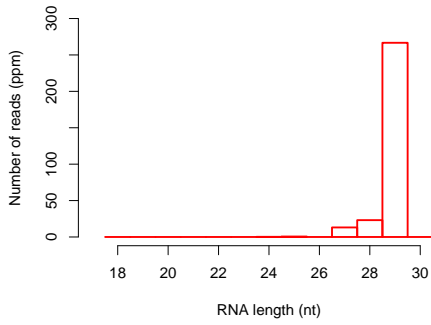
27-mers:



30-mers:

(no read)

Embryo 60h, library 1:



19-mers:  
(no read)  
22-mers:

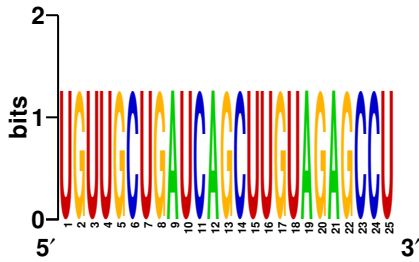
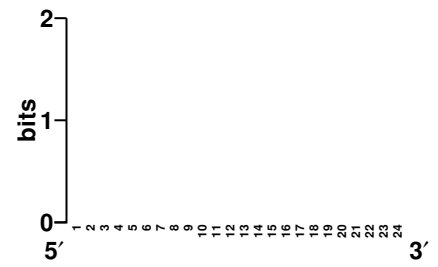
20-mers:  
(no read)  
23-mers:

18-mers:

(no read)  
21-mers:  
(no read)  
24-mers:

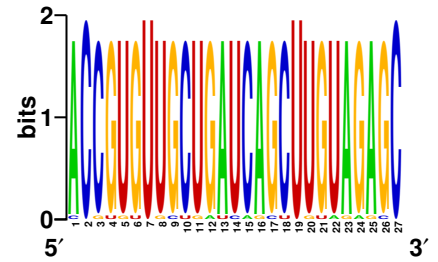
(no read)  
25-mers:

(no read)  
26-mers:

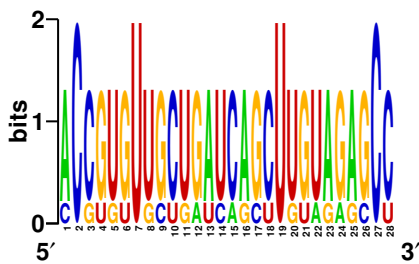


(no read)  
29-mers:

27-mers:

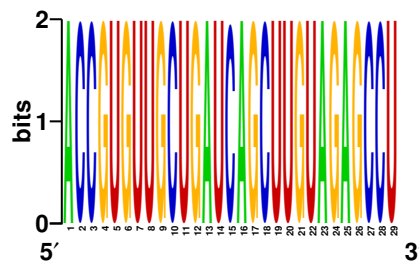


28-mers:



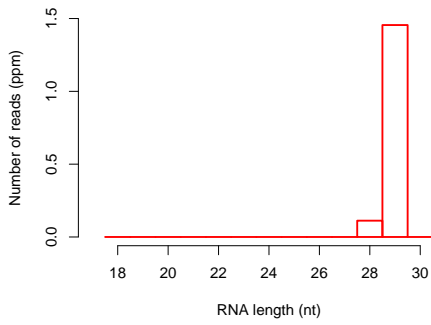
(no read)  
30-mers:

30-mers:



(no read)

Adult female, library 1:

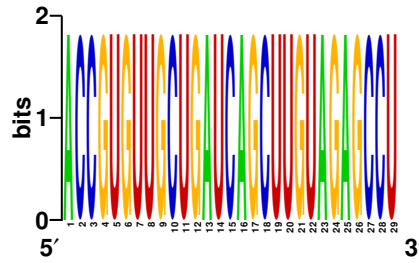
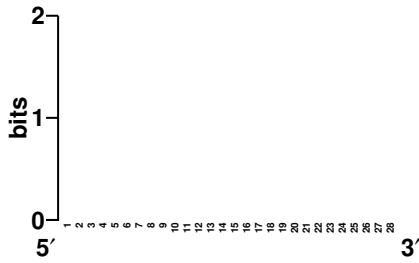


19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:

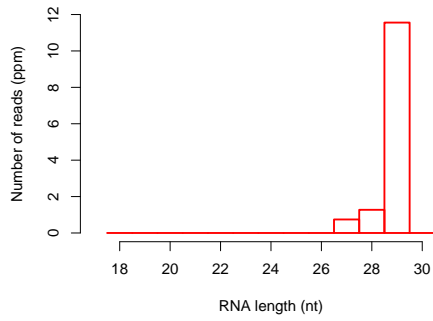
18-mers:

(no read)  
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:



(no read)

Adult male, library 1:



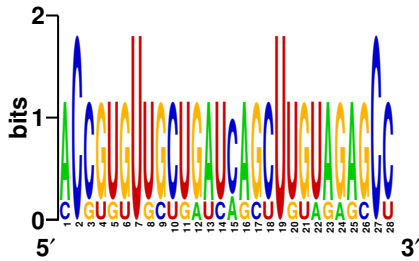
19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:

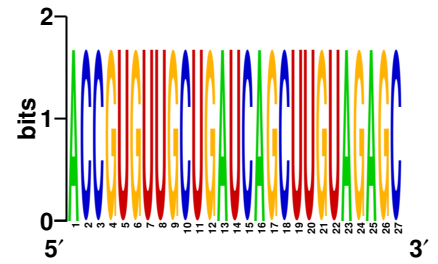
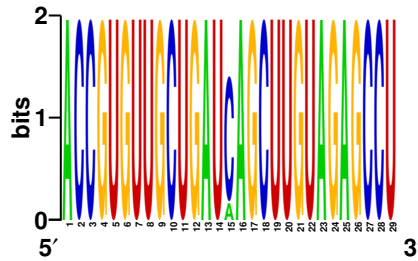
18-mers:

(no read)  
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:

(no read)  
28-mers:



(no read)  
29-mers:

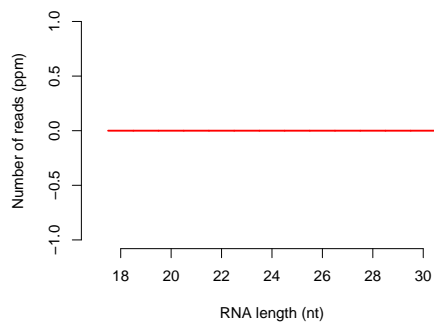


30-mers:

(no read)

## 15.2 Libraries #2 (3' modified, 5' monophosphorylated small RNAs)

Embryo 8h, library 2:



18-mers:

(no read)

19-mers:

20-mers:

21-mers:

(no read)

(no read)

(no read)

22-mers:

23-mers:

24-mers:

(no read)

(no read)

(no read)

25-mers:

26-mers:

27-mers:

(no read)

(no read)

(no read)

28-mers:

29-mers:

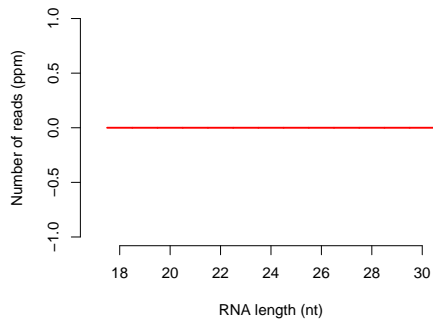
30-mers:

(no read)

(no read)

(no read)

Embryo 15h, library 2:

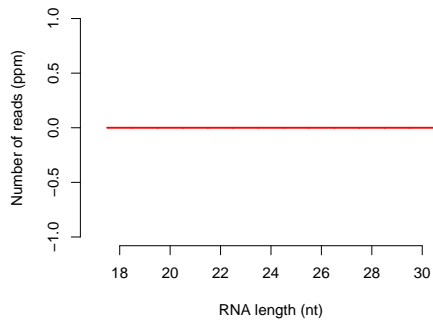


18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	



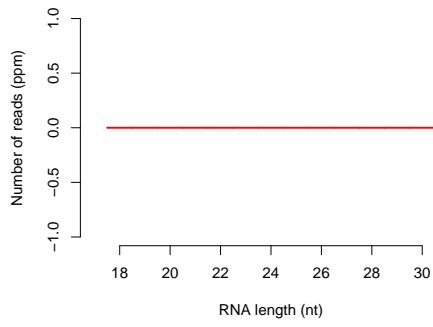
Embryo 36h, library 2:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)

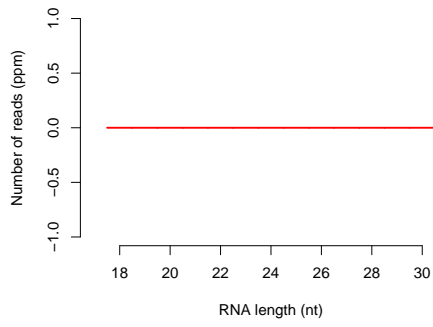
Embryo 60h, library 2:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

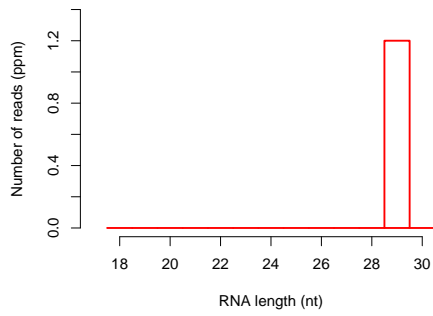
Adult female, library 2:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Adult male, library 2:

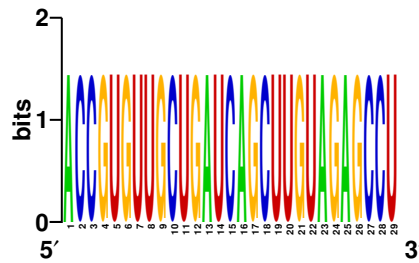


19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:

18-mers:

(no read)  
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:

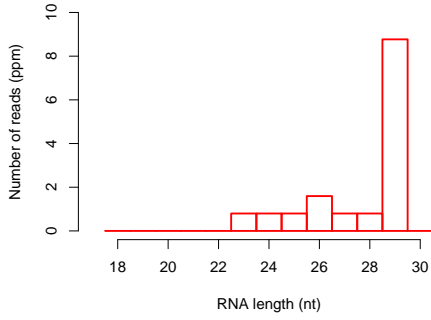


(no read)

(no read)

### 15.3 Libraries #3 (total 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 3:



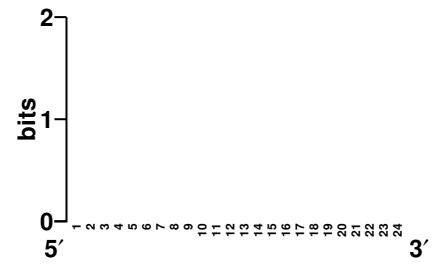
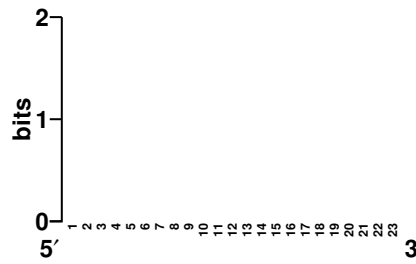
19-mers:  
(no read)  
22-mers:

20-mers:  
(no read)  
23-mers:

18-mers:

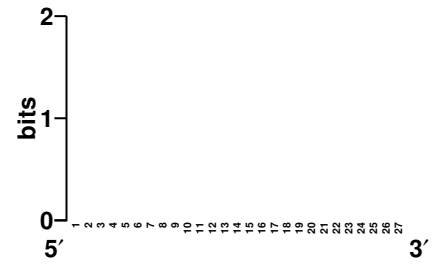
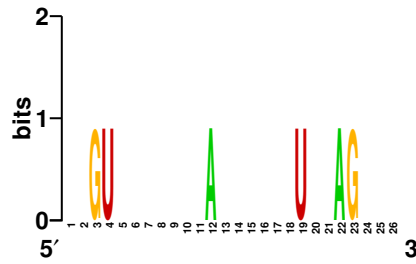
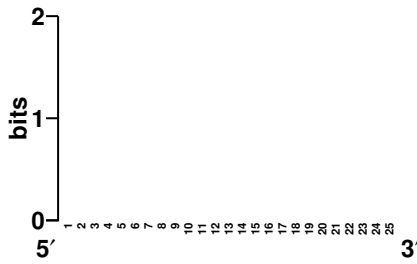
(no read)  
21-mers:  
(no read)  
24-mers:

(no read)  
25-mers:



26-mers:

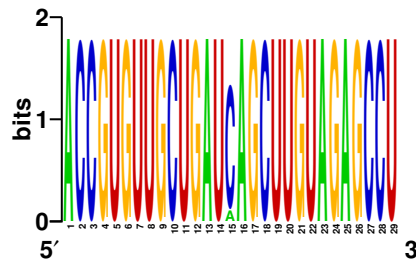
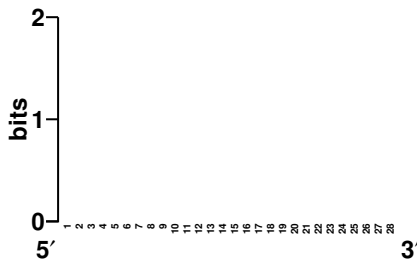
27-mers:



28-mers:

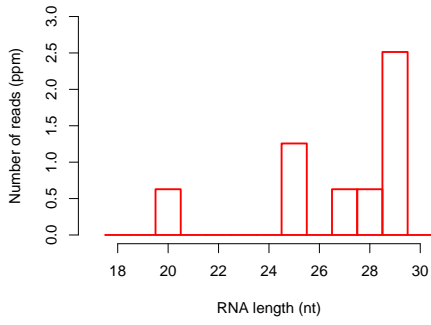
29-mers:

30-mers:



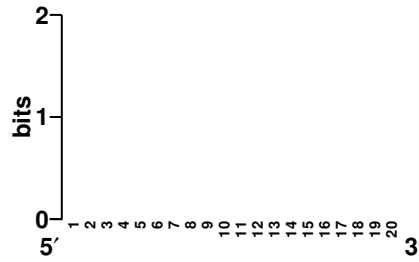
(no read)

Embryo 15h, library 3:



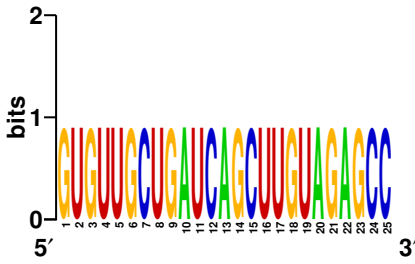
19-mers:

20-mers:



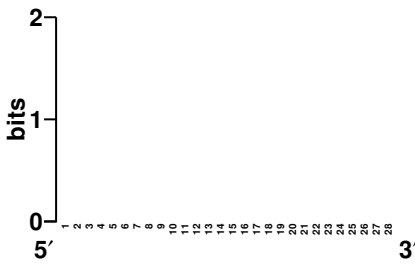
(no read)  
22-mers:  
(no read)  
25-mers:

23-mers:  
(no read)  
26-mers:



28-mers:

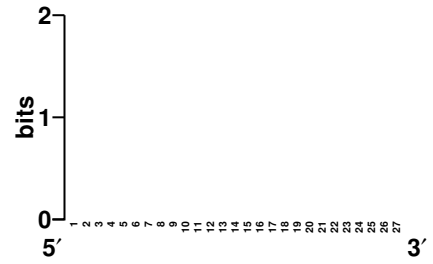
(no read)  
29-mers:



18-mers:

(no read)  
21-mers:

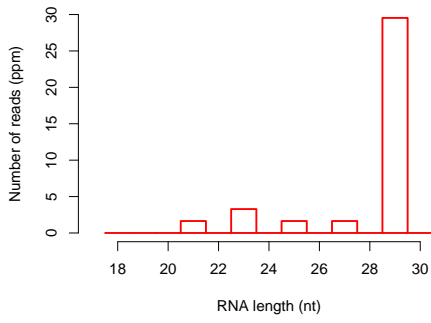
(no read)  
24-mers:  
(no read)  
27-mers:



30-mers:

(no read)

Embryo 36h, library 3:



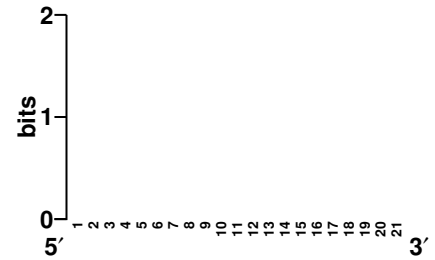
19-mers:

20-mers:

18-mers:

(no read)

21-mers:

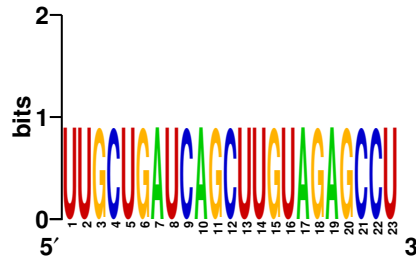


(no read)

22-mers:

(no read)

23-mers:

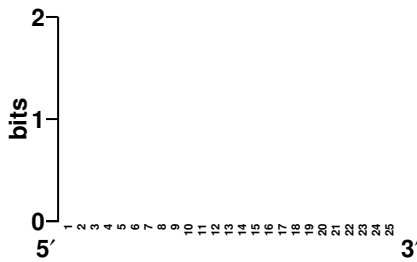


(no read)

25-mers:

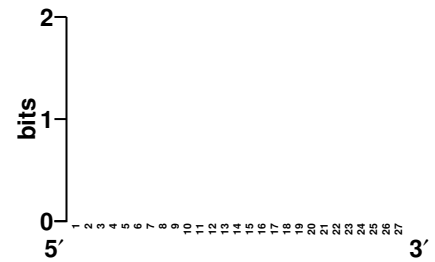
26-mers:

24-mers:



(no read)

27-mers:

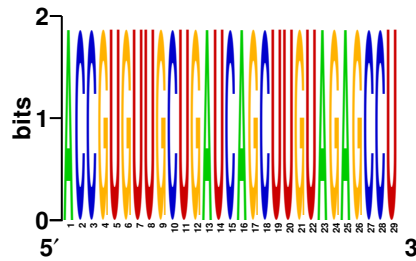


28-mers:

(no read)

29-mers:

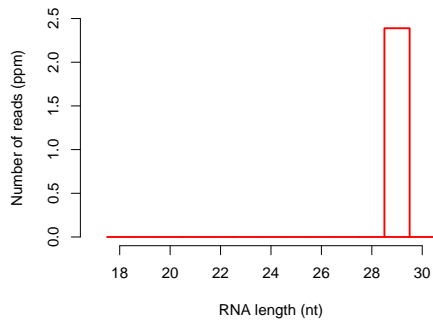
30-mers:



(no read)

(no read)

Embryo 60h, library 3:

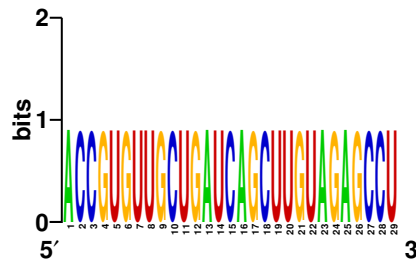


19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:

18-mers:

(no read)  
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:

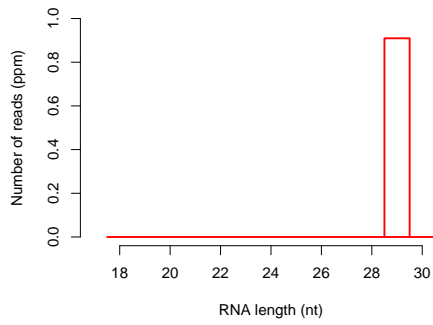


(no read)

(no read)



Adult female, library 3:

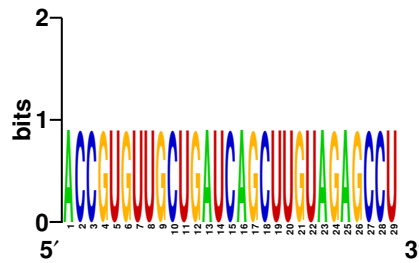


19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:

18-mers:

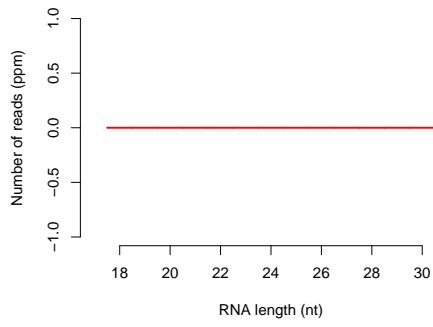
(no read)  
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:



(no read)

(no read)

Adult male, library 3:

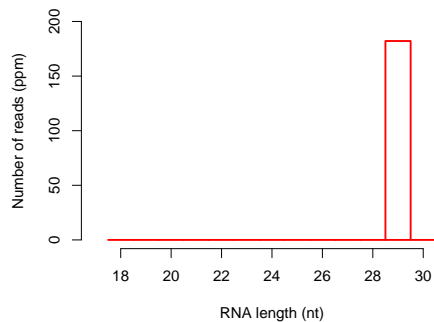


18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

## 15.4 Libraries #4 (3' modified, 5' hydroxyl or polyphosphorylated small RNAs)

Embryo 8h, library 4:



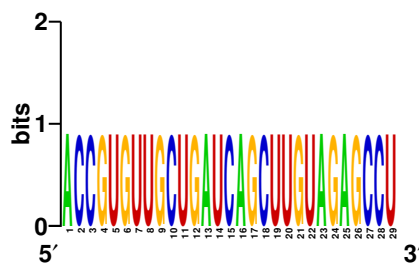
18-mers:

19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:

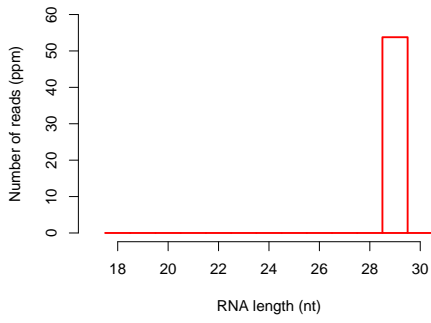
(no read)  
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:

(no read)



(no read)

Embryo 15h, library 4:

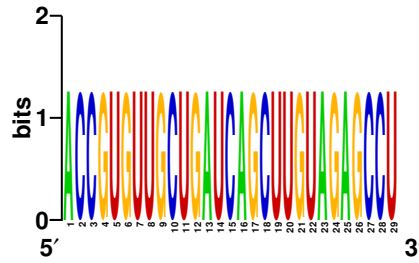


19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:

18-mers:

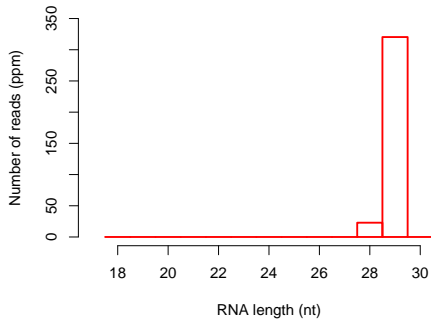
(no read)  
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:



(no read)

(no read)

Embryo 36h, library 4:

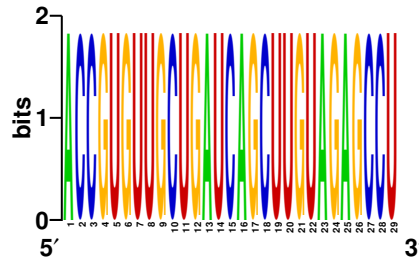
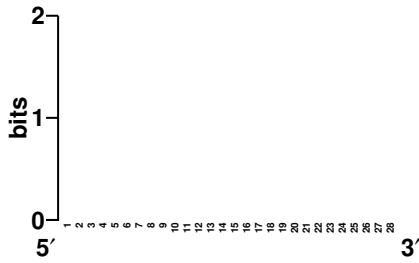


19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:

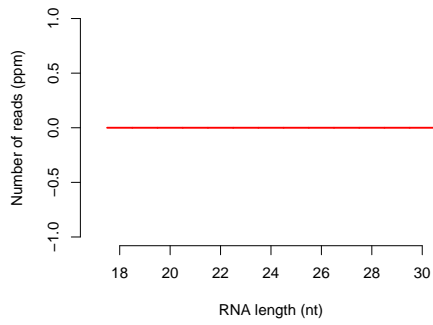
18-mers:

(no read)  
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:



(no read)

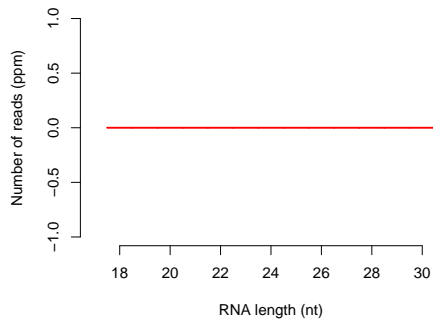
Embryo 60h, library 4:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

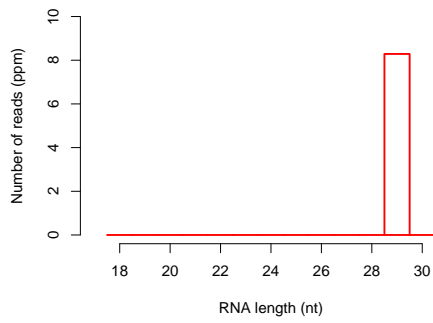
Adult female, library 4:



18-mers:

19-mers:	(no read)	20-mers:	(no read)	21-mers:	(no read)
(no read)		(no read)		(no read)	
22-mers:	(no read)	23-mers:	(no read)	24-mers:	(no read)
(no read)		(no read)		(no read)	
25-mers:	(no read)	26-mers:	(no read)	27-mers:	(no read)
(no read)		(no read)		(no read)	
28-mers:	(no read)	29-mers:	(no read)	30-mers:	(no read)
(no read)		(no read)		(no read)	

Adult male, library 4:



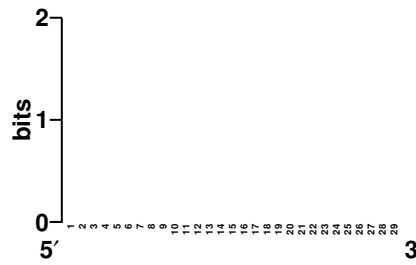
19-mers:  
(no read)  
22-mers:  
(no read)  
25-mers:  
(no read)  
28-mers:

20-mers:  
(no read)  
23-mers:  
(no read)  
26-mers:  
(no read)  
29-mers:

18-mers:

(no read)  
21-mers:  
(no read)  
24-mers:  
(no read)  
27-mers:  
(no read)  
30-mers:

(no read)



(no read)



## References

- [Gu et al., 2009] Gu, W., Shirayama, M., Conte, D. J., Vasale, J., Batista, P. J., Claycomb, J. M., Moresco, J. J., Youngman, E. M., Keys, J., Stoltz, M. J., Chen, C. C., Chaves, D. A., Duan, S., Kasschau, K. D., Fahlgren, N., Yates, J. R., Mitani, S., Carrington, J. C., and Mello, C. C. (2009). Distinct argonaute-mediated 22G-RNA pathways direct genome surveillance in the *C. elegans* germline. *Mol Cell*, 36(2):231–244.