

Figure S5. Detailed analysis of piRNAs in *ago3*/TM6B and *ago3^{t2}/ago3^{t3}* ovaries. The figure presents the 95 transposon families for which we tallied > 500 piRNA reads in *ago3*/TM6B, plus the tandem repeat *mst40*.

(A, B) Sequence-bias plot (“sequence-excess logo”) for all piRNAs mapping to the transposon family (A) or for piRNAs with ping-pong partners (B). The graphs report only nucleotide biases significantly different from the intrinsic bias of the transposon family itself (see Supplemental Experimental Procedures). The gray bars indicate the maximum possible value for each position.

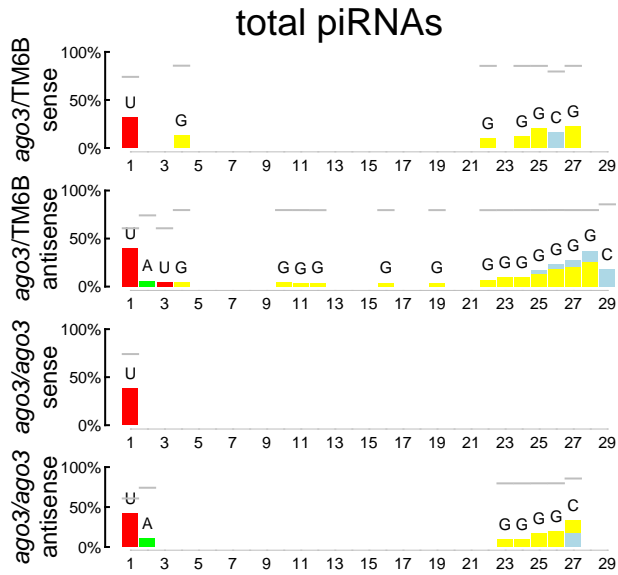
(C, D) The abundance (per million) of piRNAs (23–29 nt) in *ago3*/TM6B (C) and *ago3^{t2}/ago3^{t3}* ovaries (D) for each base-pair position of the transposon consensus sequence. Abundance was both normalized by the number of times a piRNA mapped to the genome and calibrated to the total abundance of sequences corresponding to non-coding RNAs in the sample. For each base, the total normalized abundance of piRNAs that fall on that position is reported. Here and below, blue denotes sense strand-mapping piRNAs; red, antisense-strand mapping piRNAs.

(E, F) Length distribution of 19–29 nt RNAs mapping to the transposon family for *ago3*/TM6B (E) and *ago3^{t2}/ago3^{t3}* ovaries (F). The number of reads was normalized as in (C) and (D).

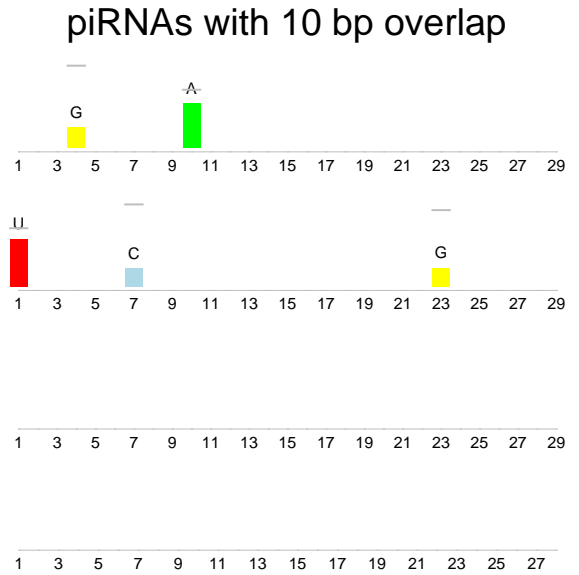
(G, H) Distribution of the length of 5′ overlaps between sense and antisense piRNAs mapped to the transposon family for *ago3*/TM6B (G) and *ago3^{t2}/ago3^{t3}* (H) ovaries. Only pairs that overlapped at their 5′ ends were included. A peak at 10 bp indicates ping-pong pairing.

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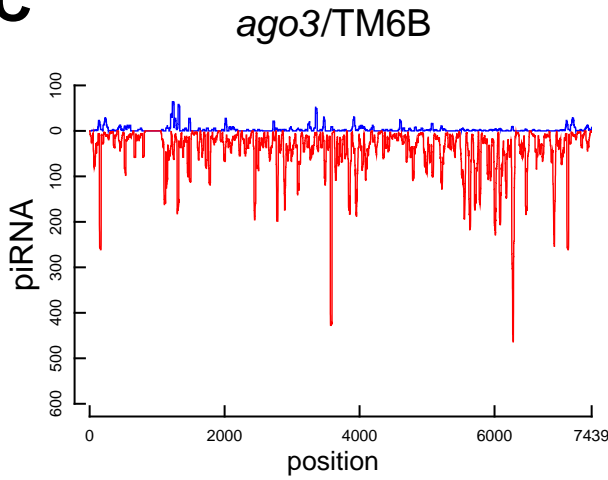
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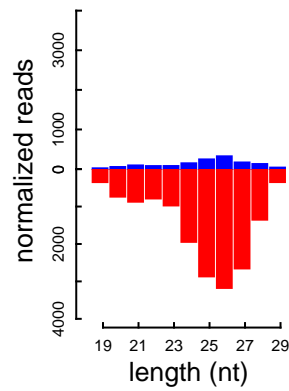
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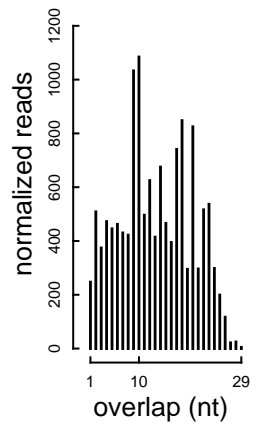
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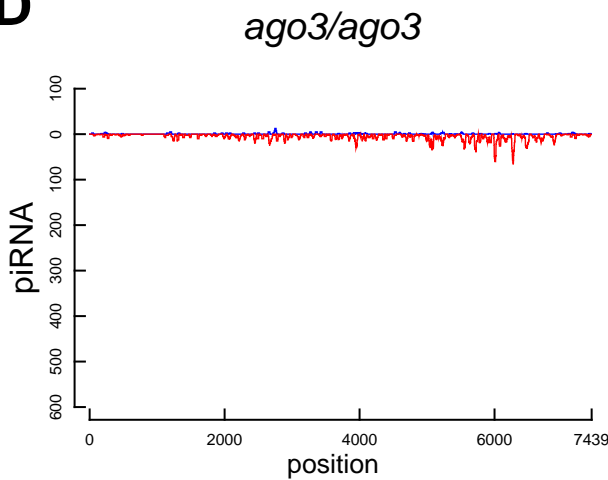
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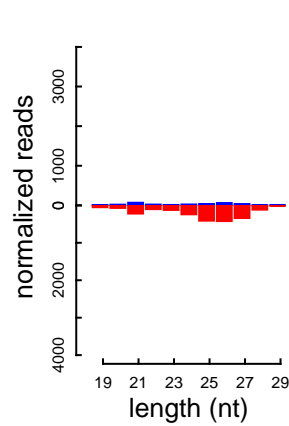
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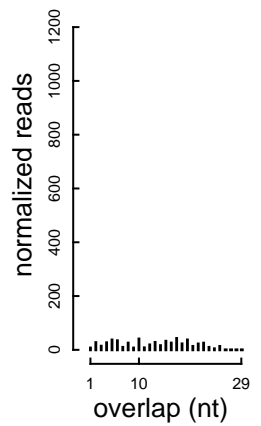
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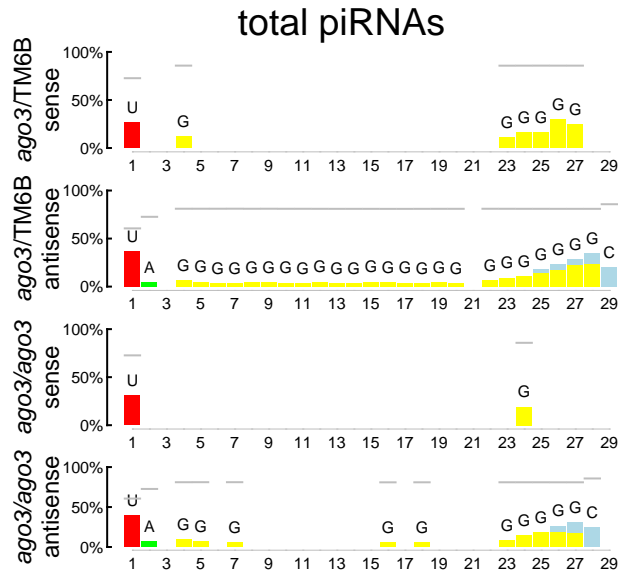
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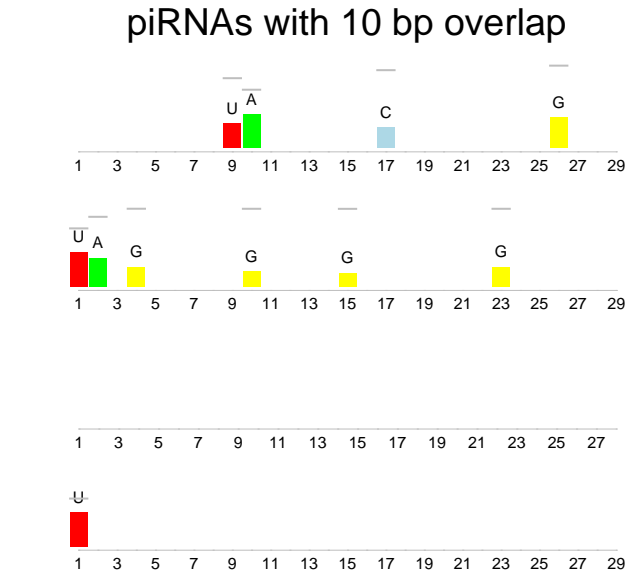
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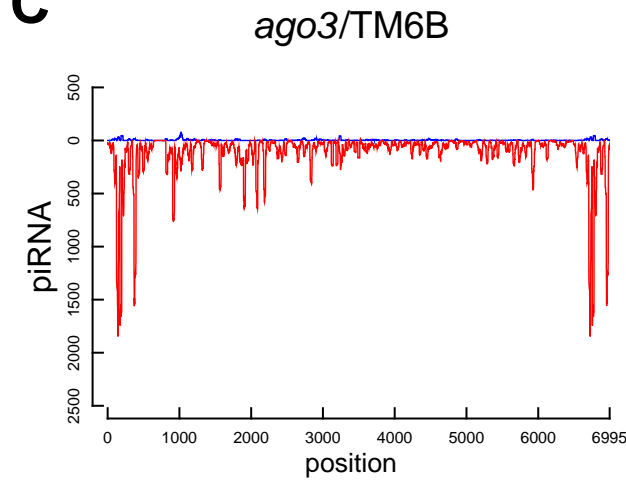
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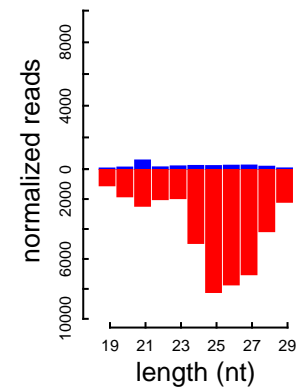
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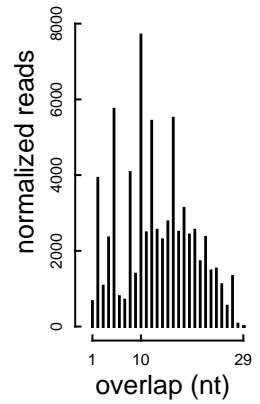
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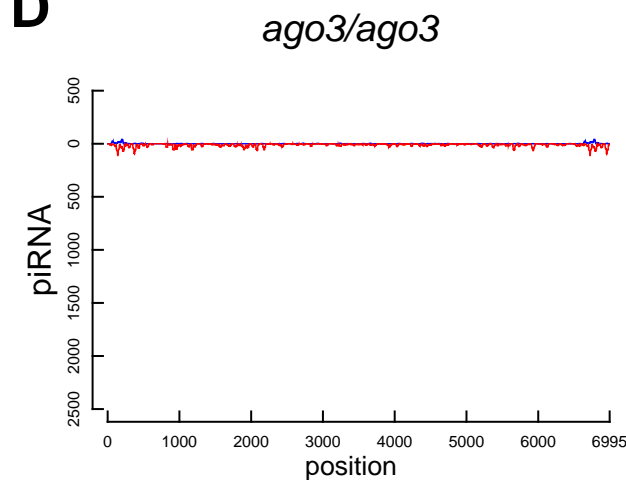
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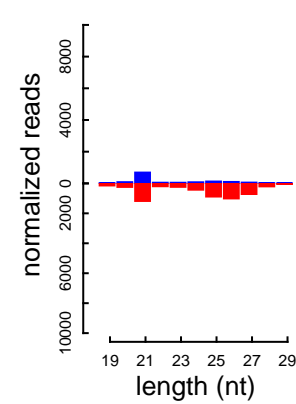
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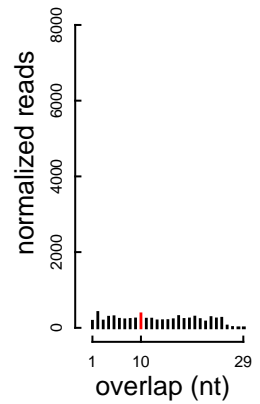
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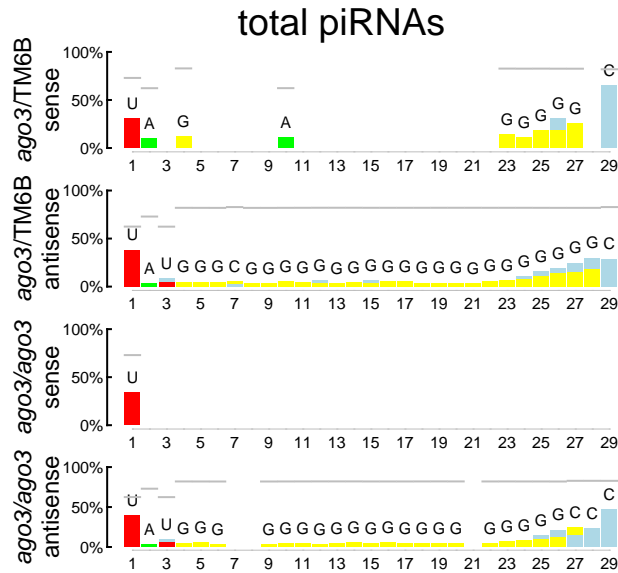
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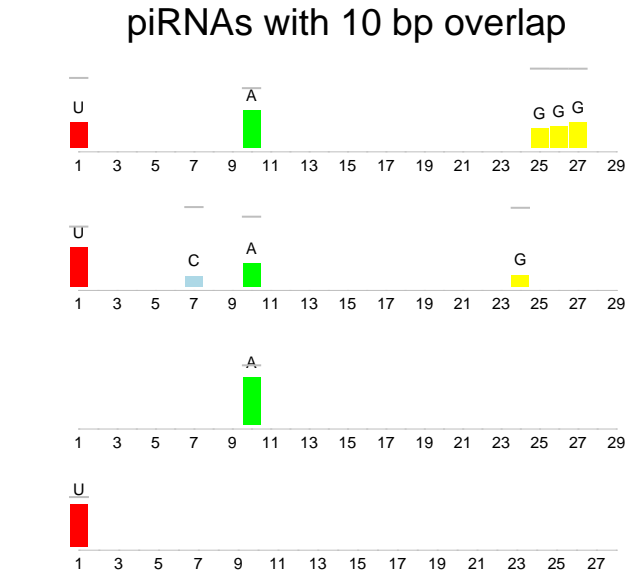
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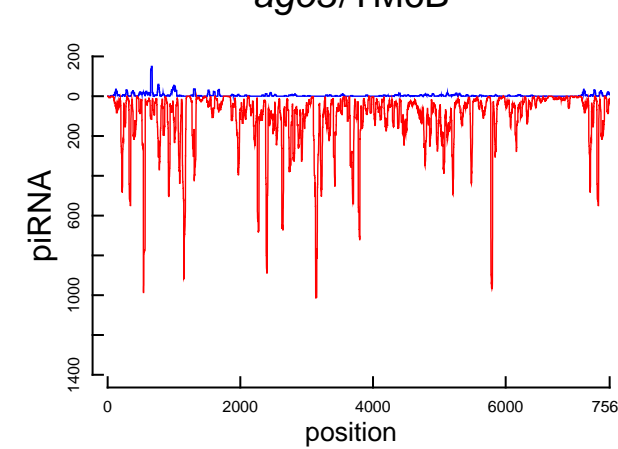
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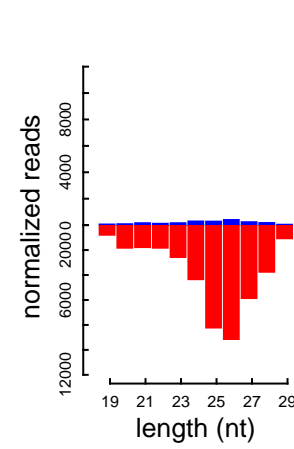
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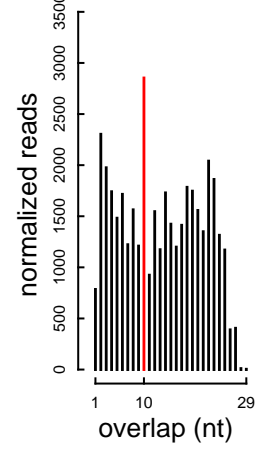
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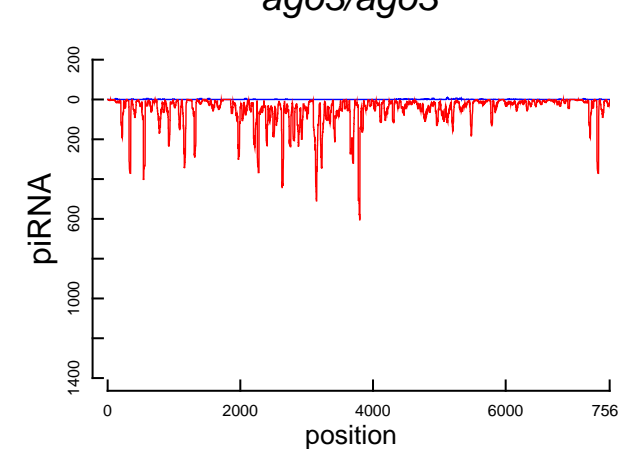
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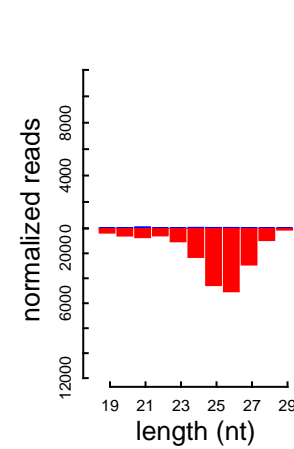
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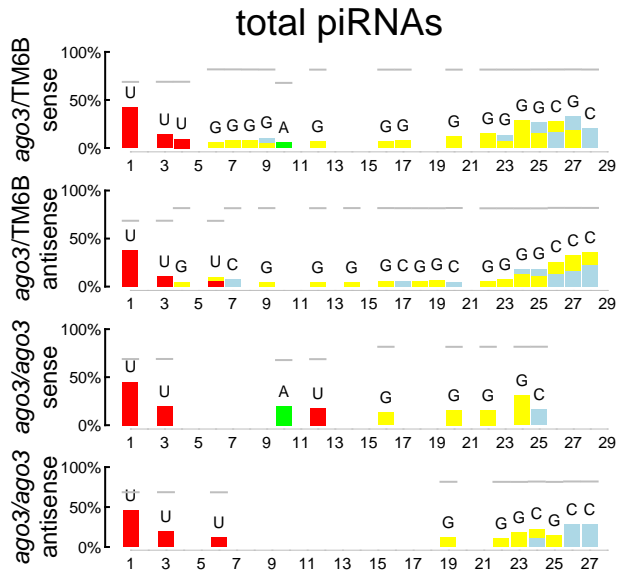
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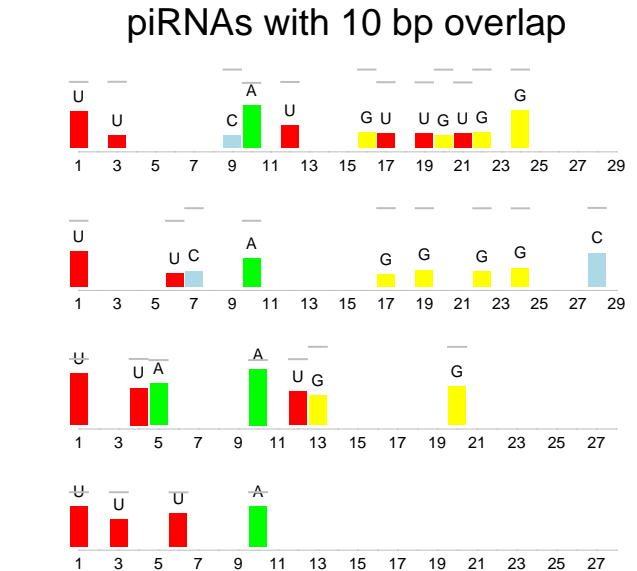
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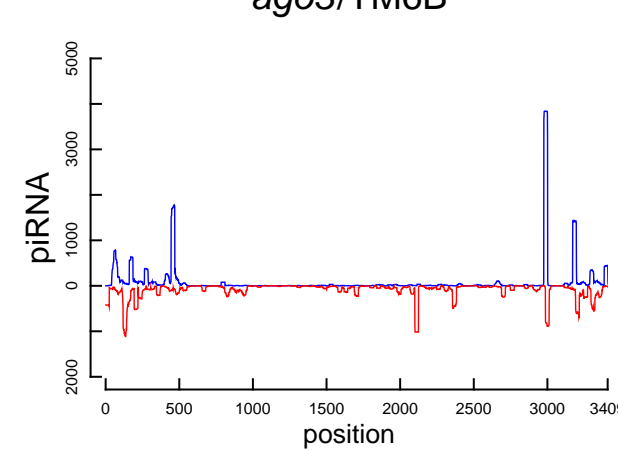
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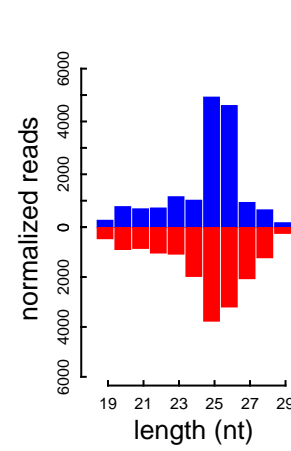
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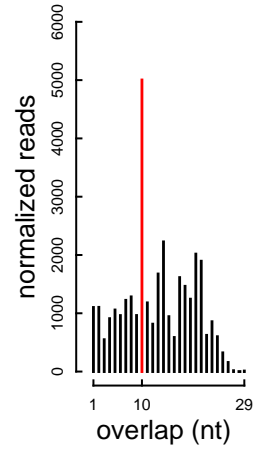
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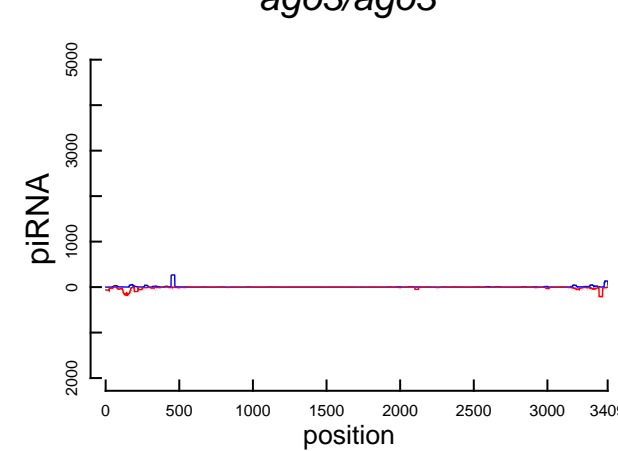
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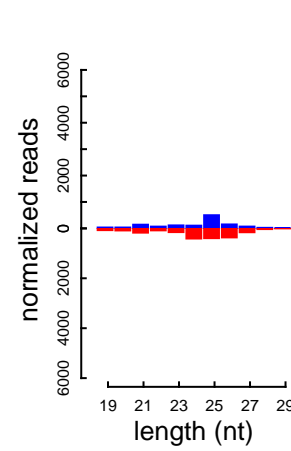
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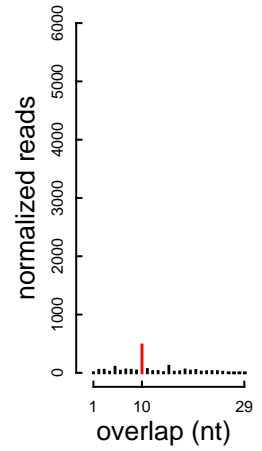
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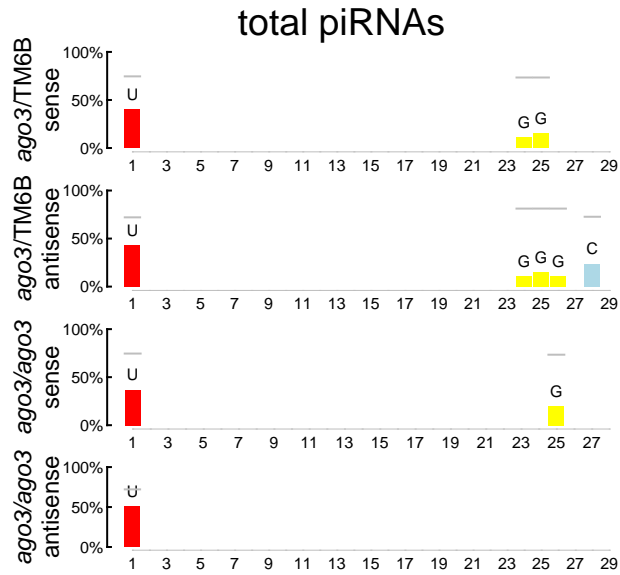
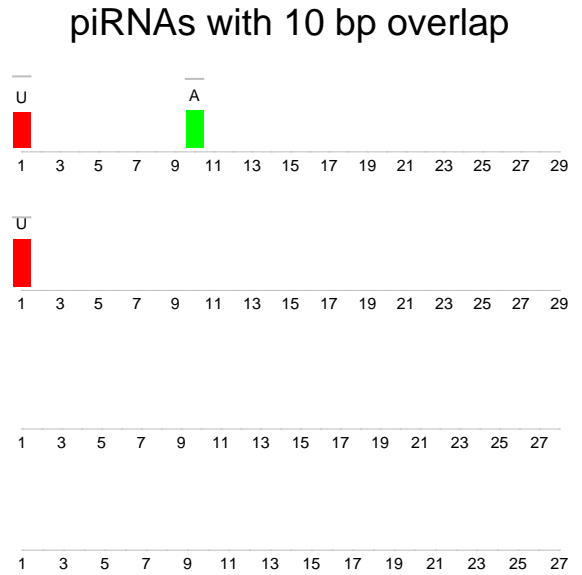
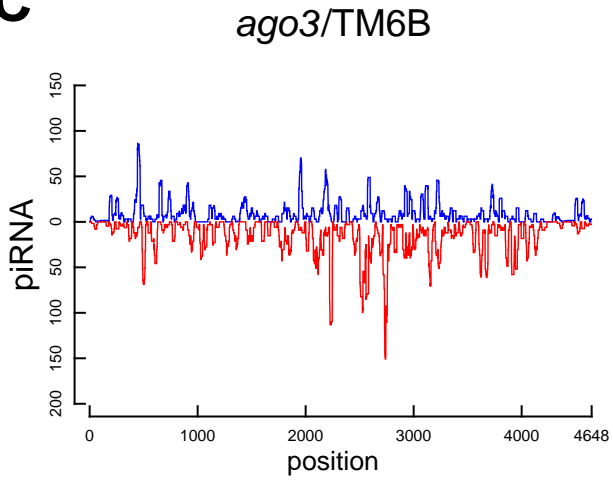
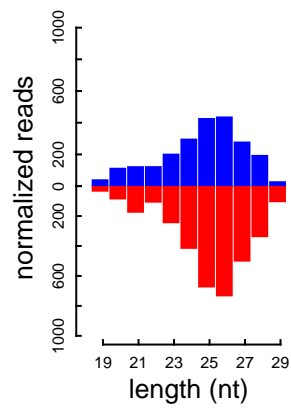
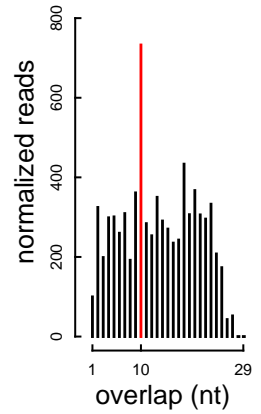
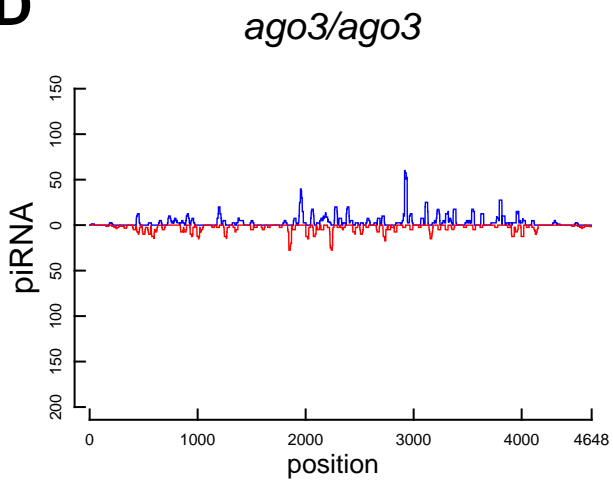
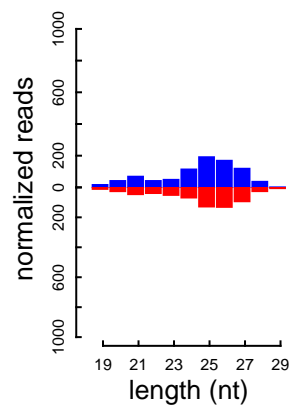
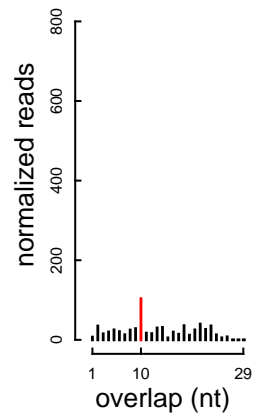
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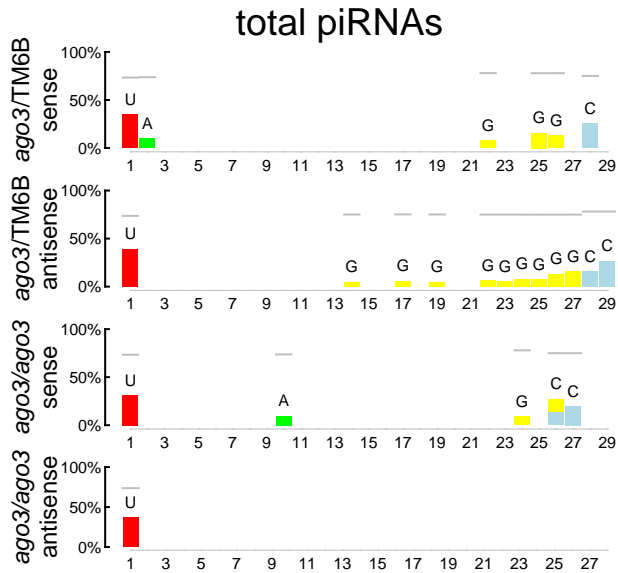
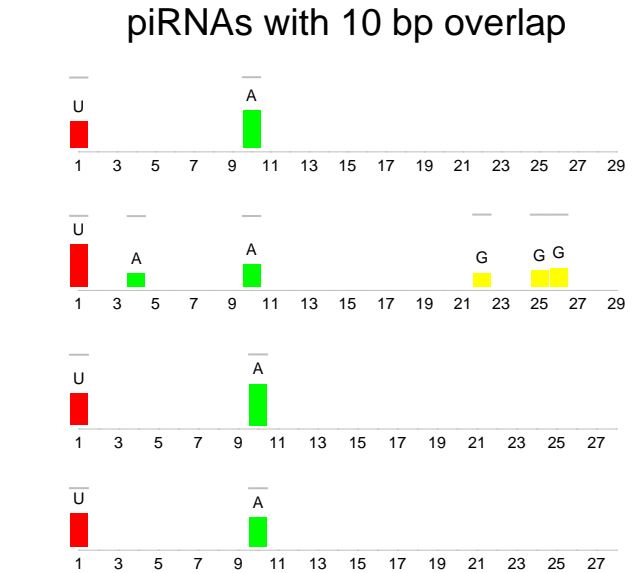
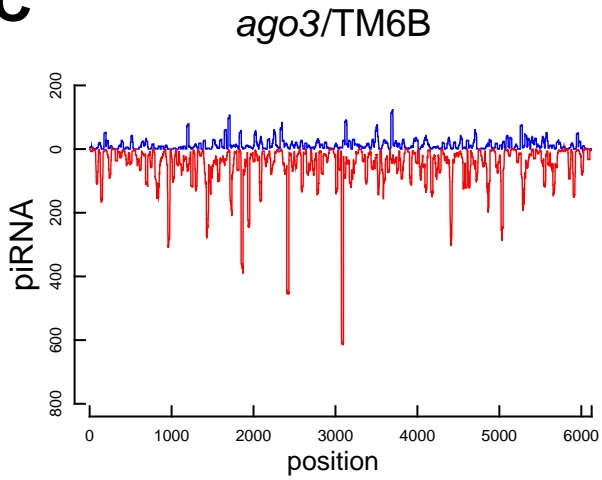
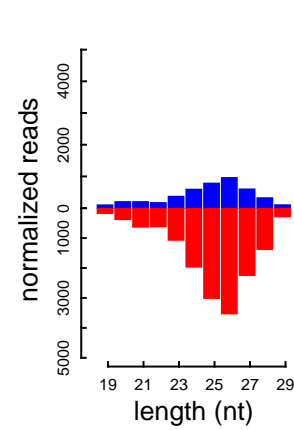
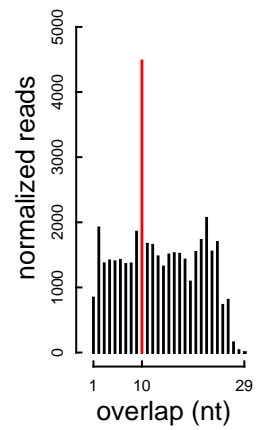
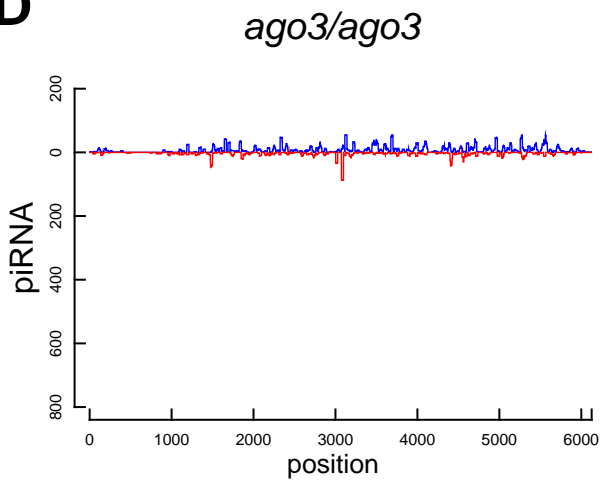
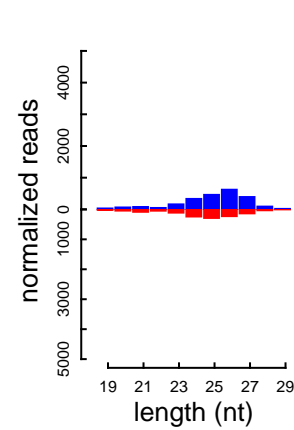
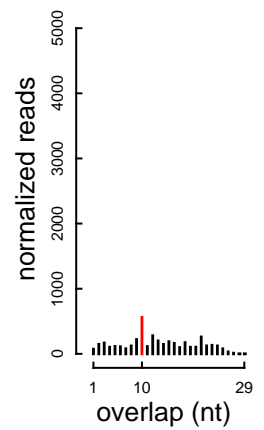
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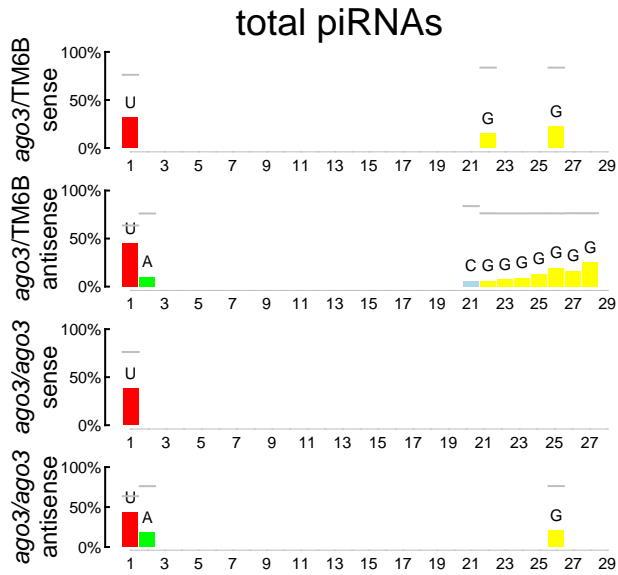
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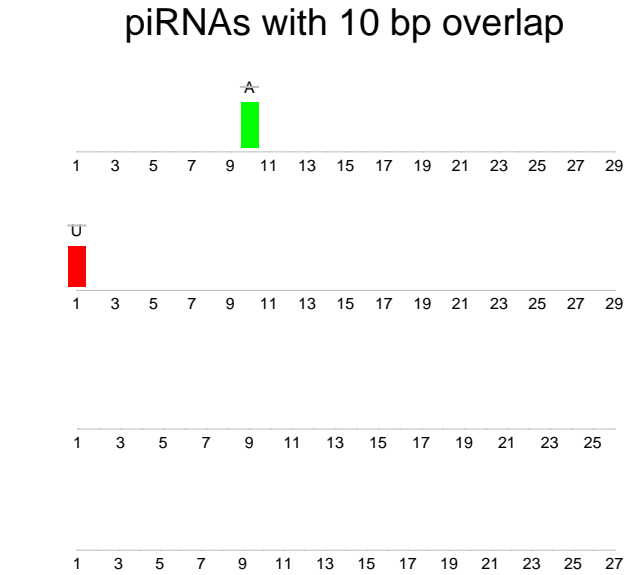
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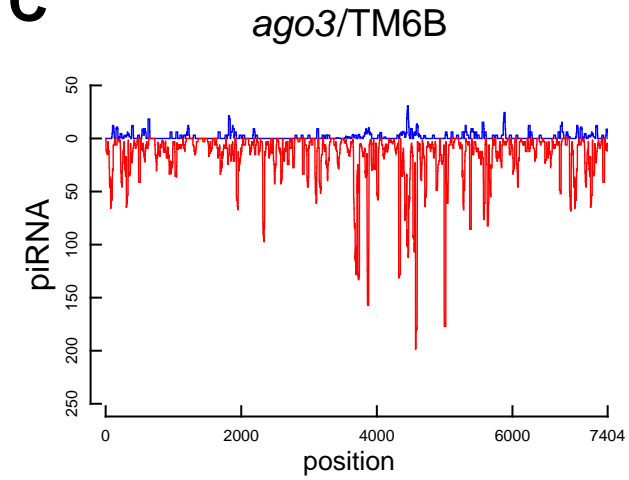
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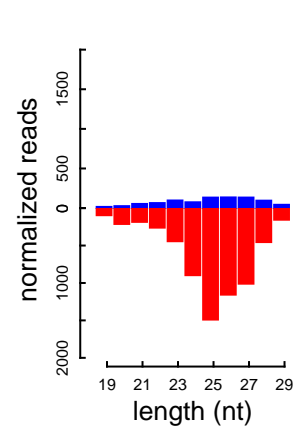
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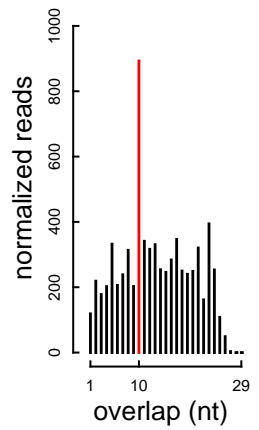
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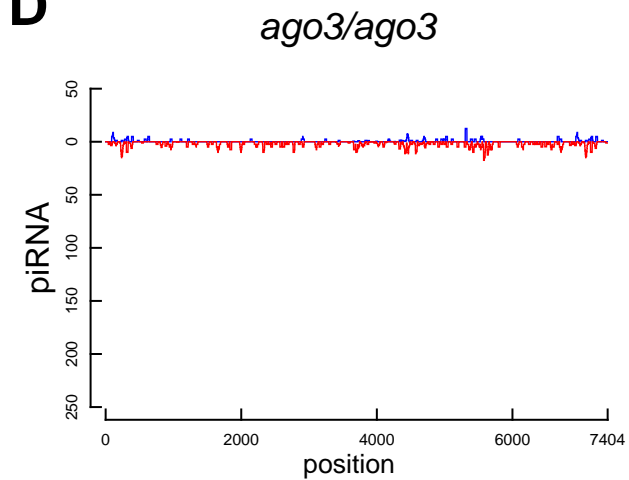
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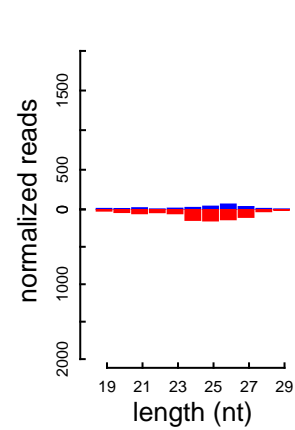
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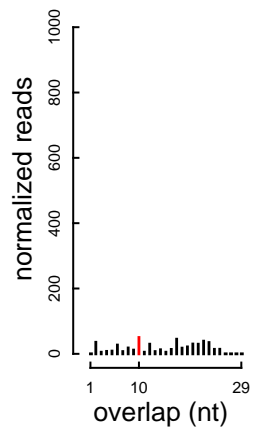
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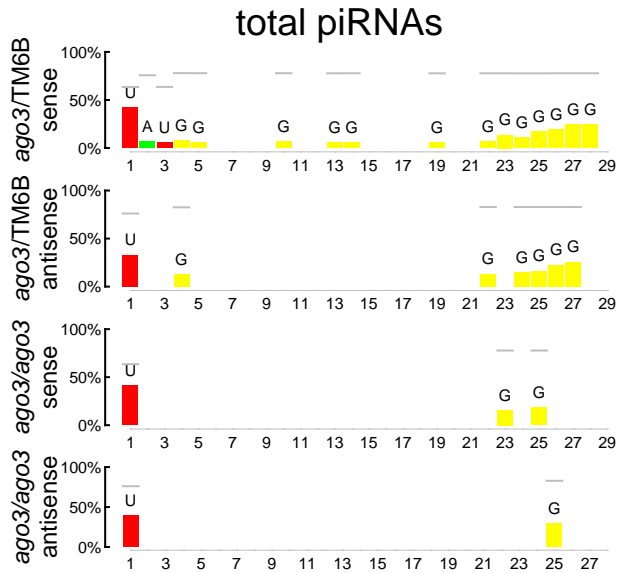


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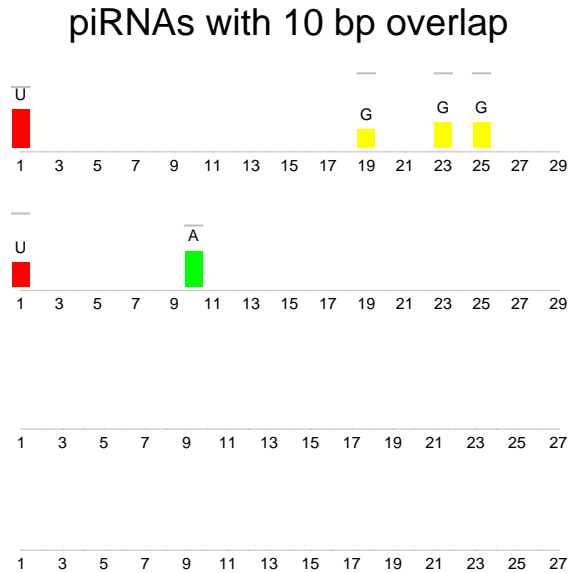


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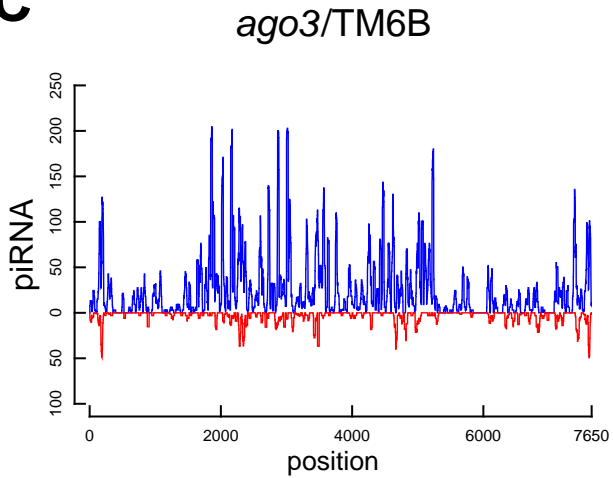
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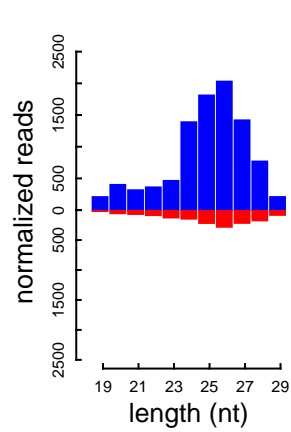
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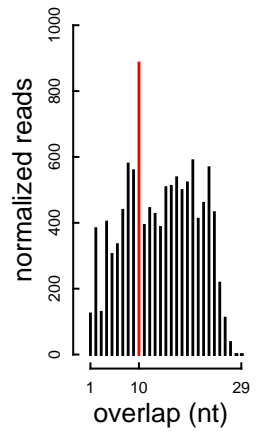
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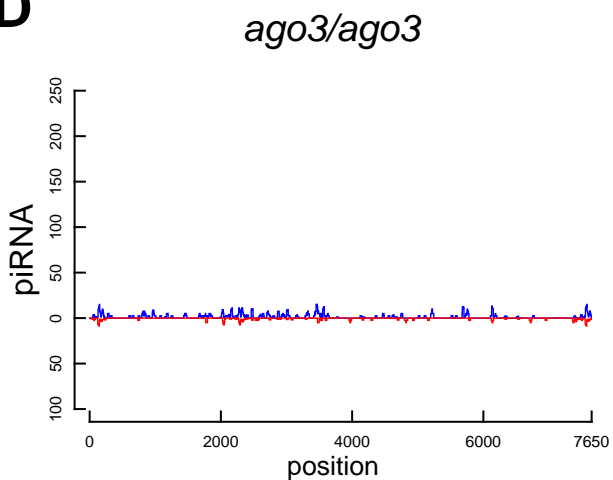
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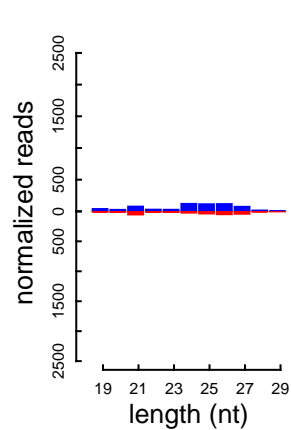
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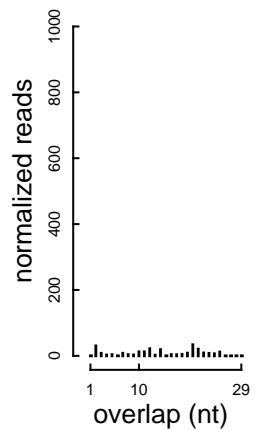
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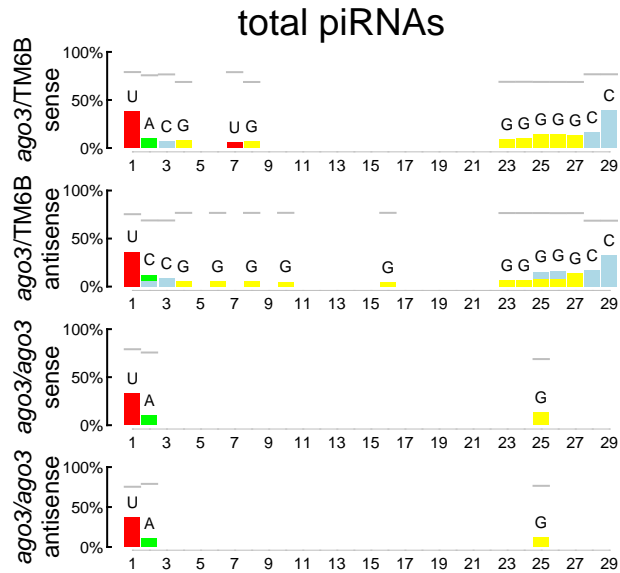


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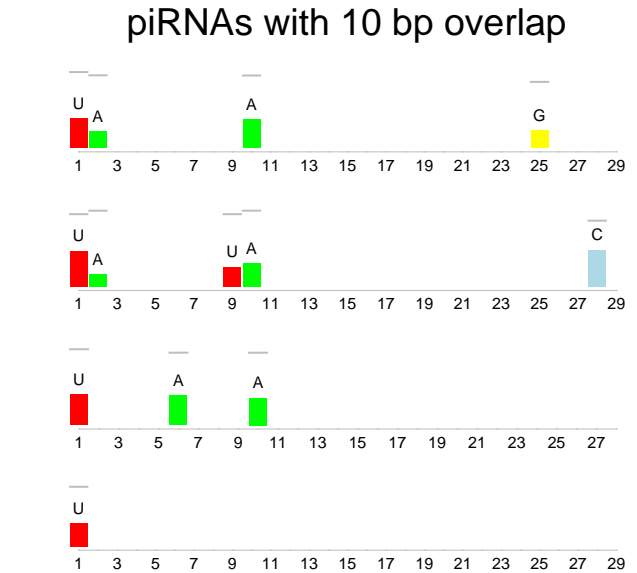


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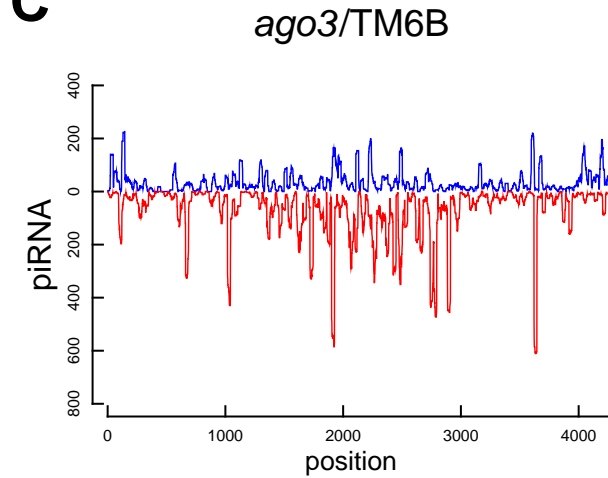
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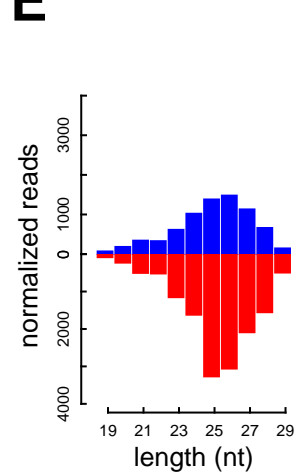
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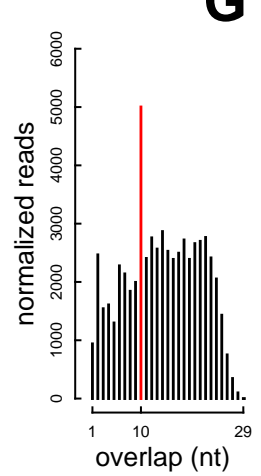
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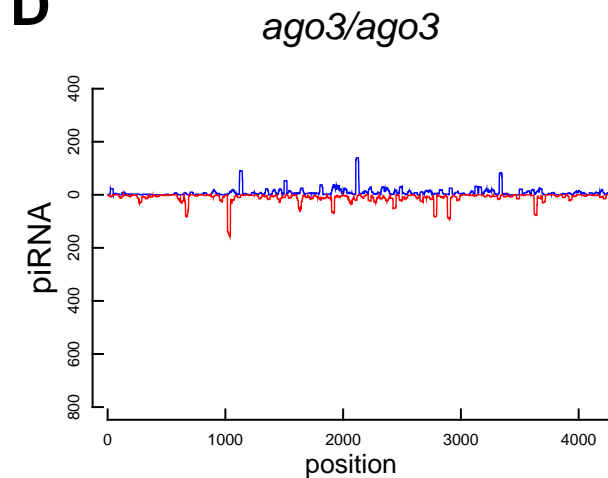
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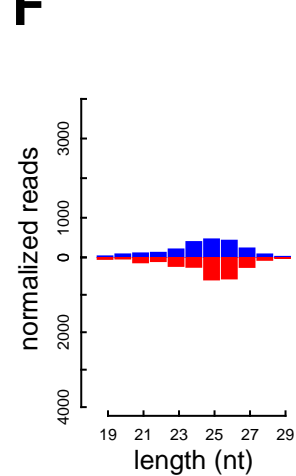
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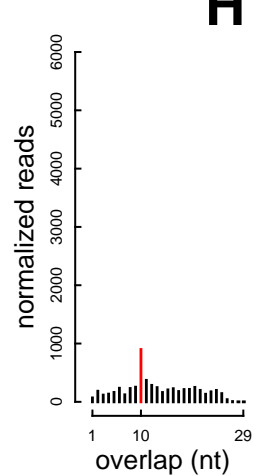
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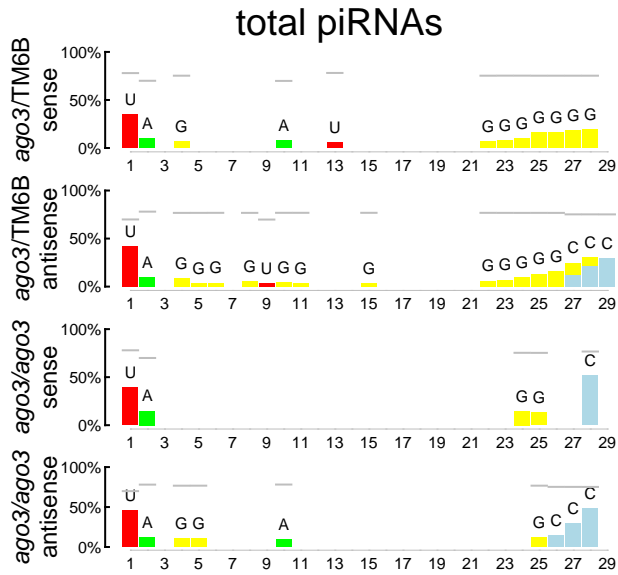
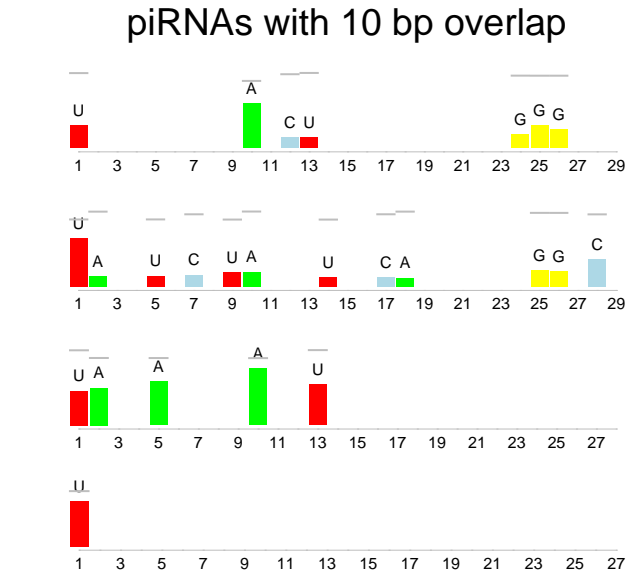
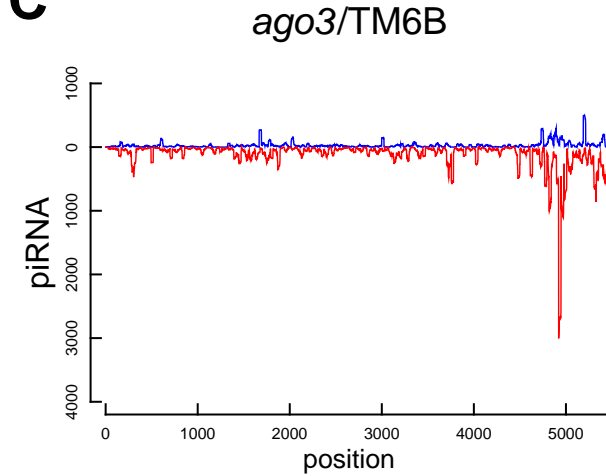
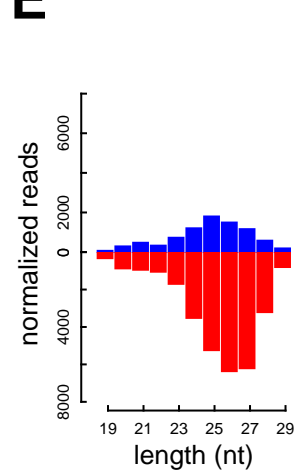
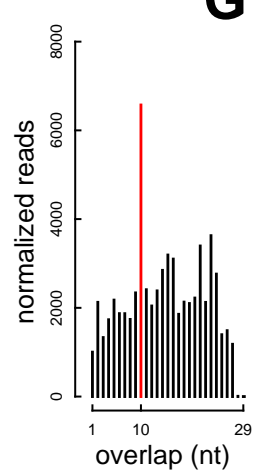
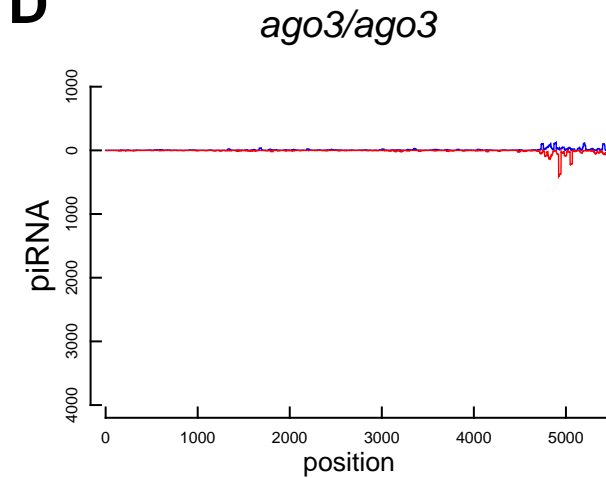
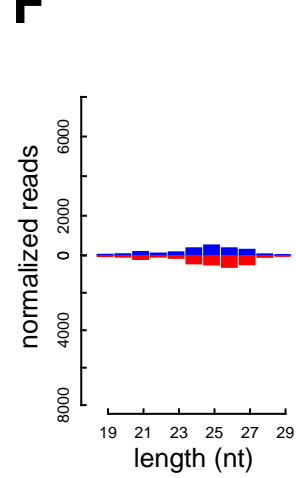
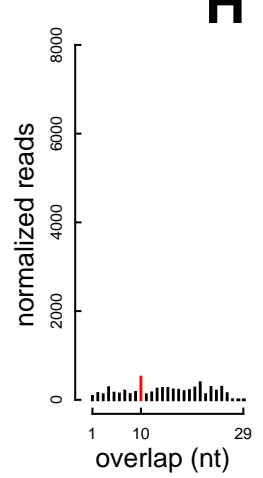
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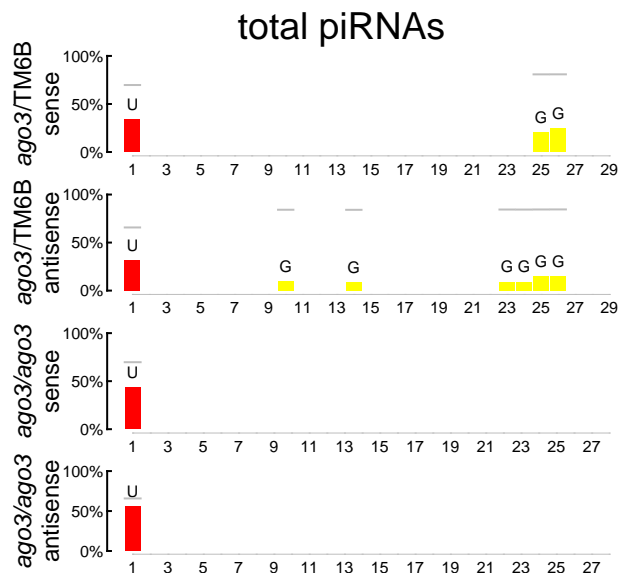
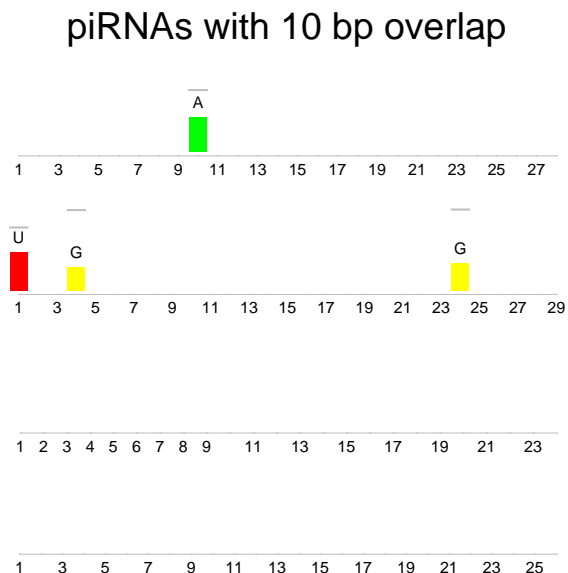
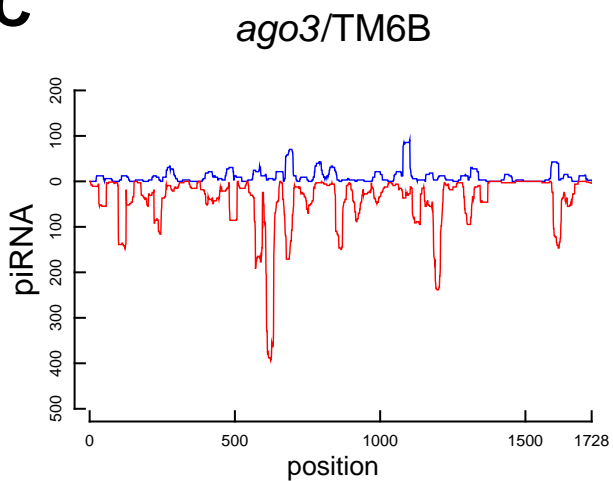
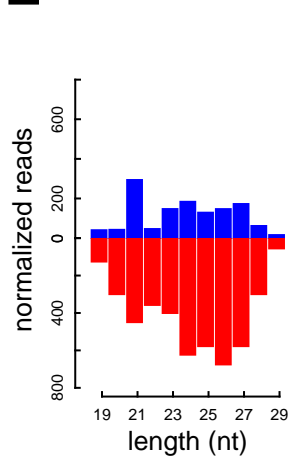
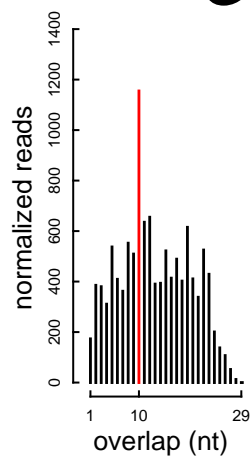
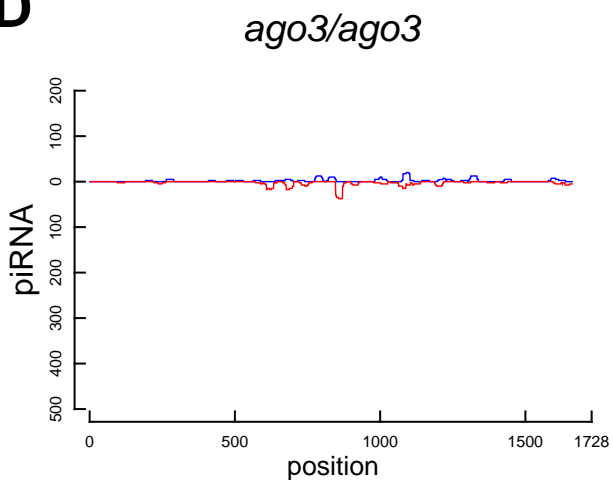
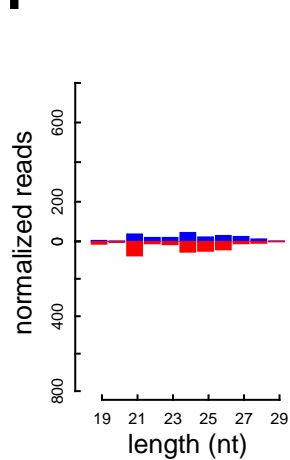
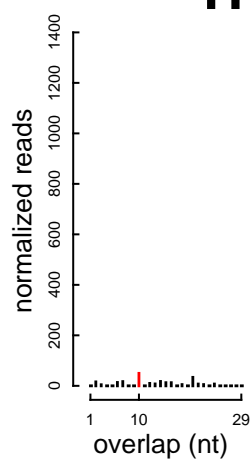
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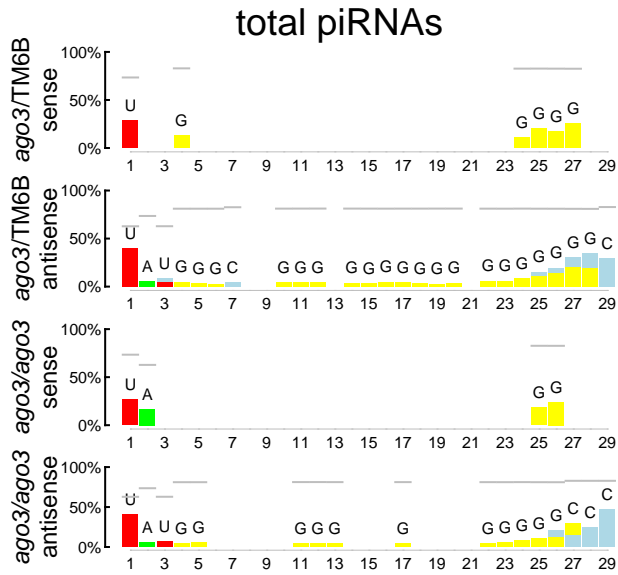
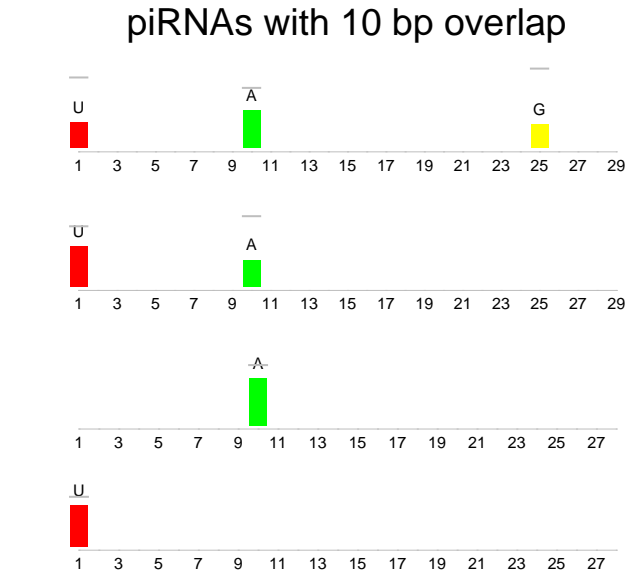
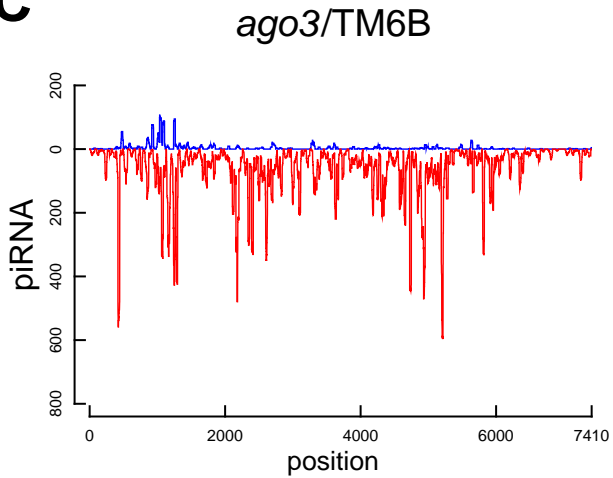
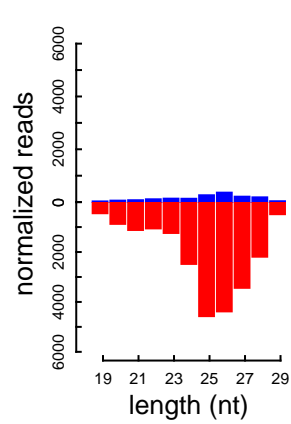
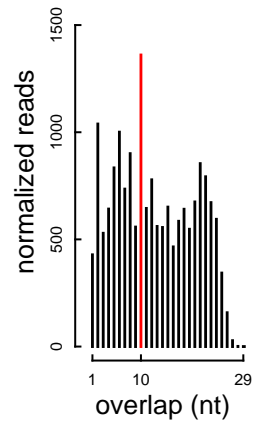
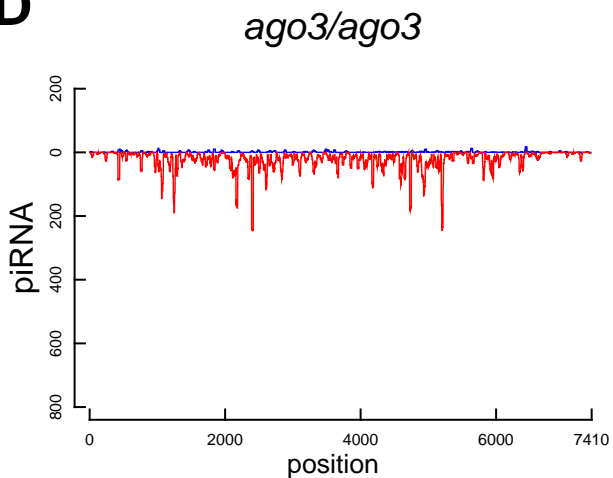
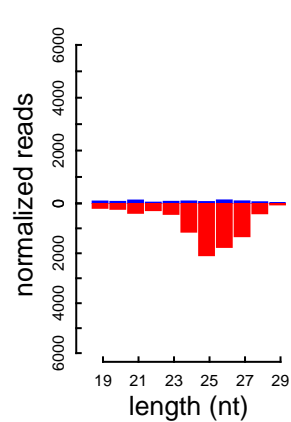
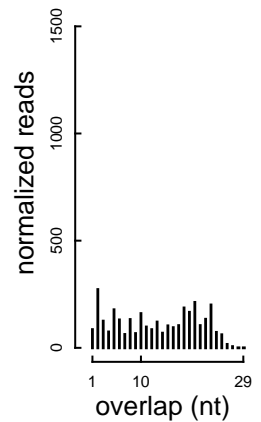
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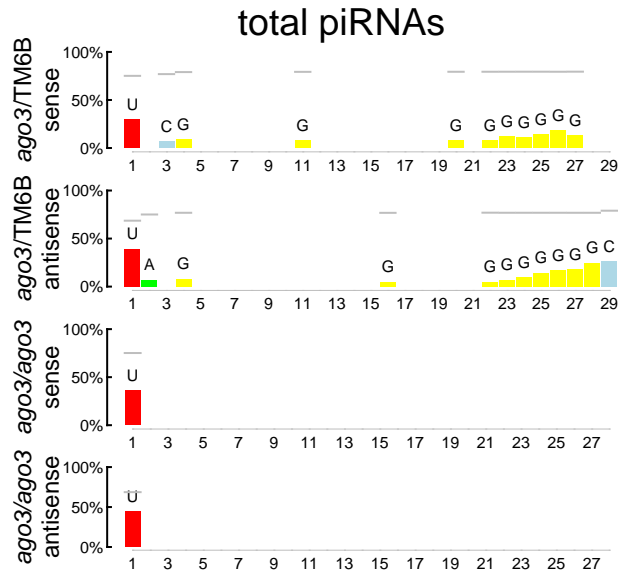
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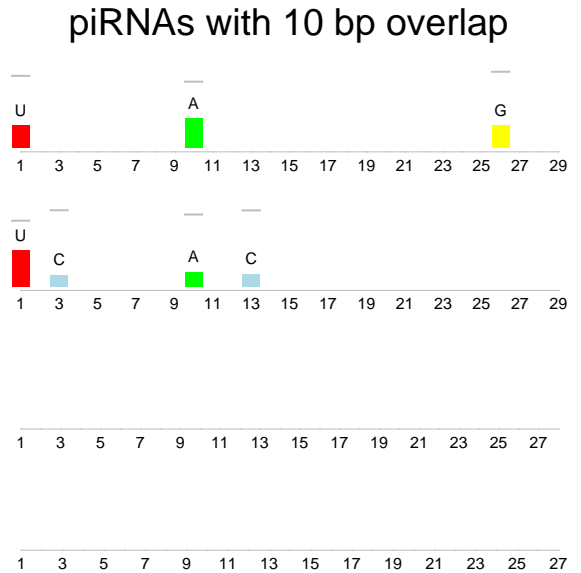
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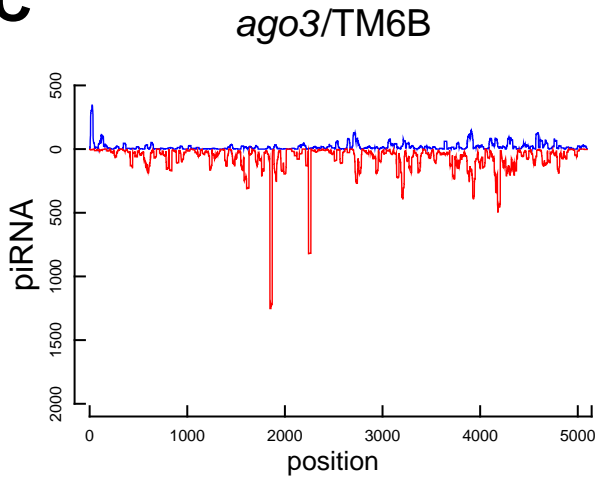
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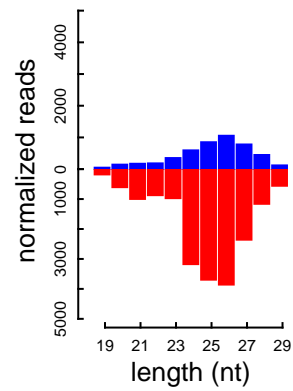
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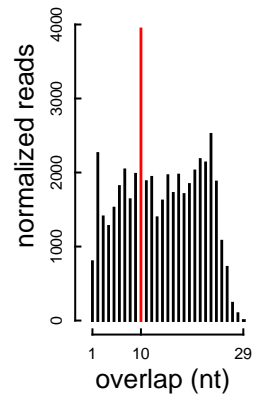
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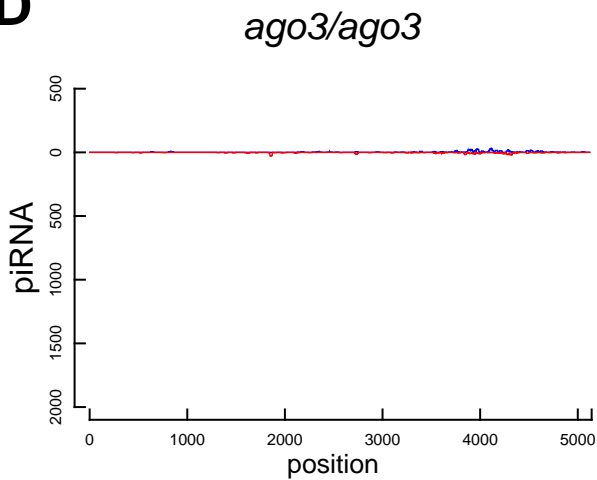
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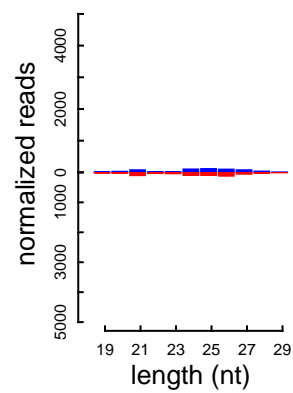
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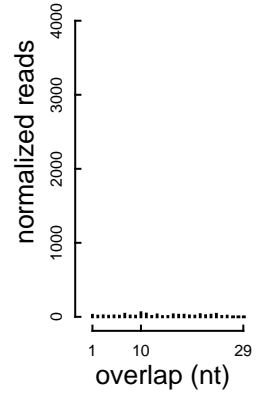
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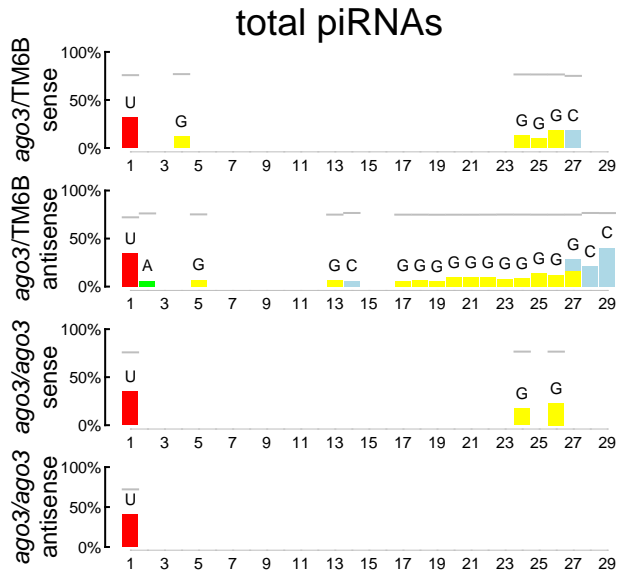


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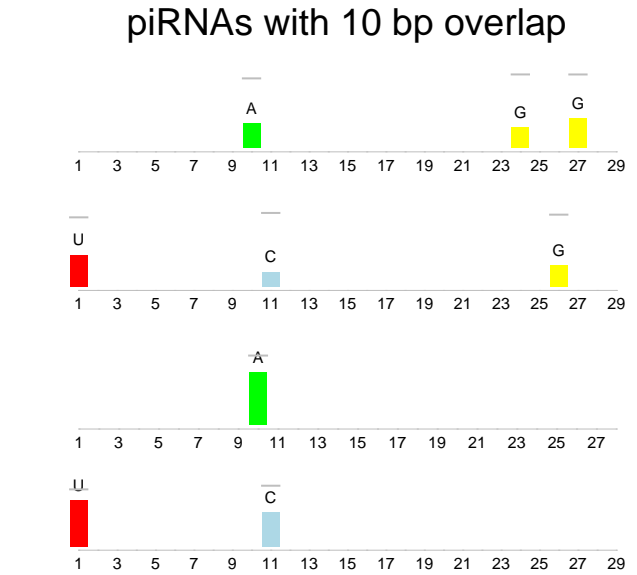


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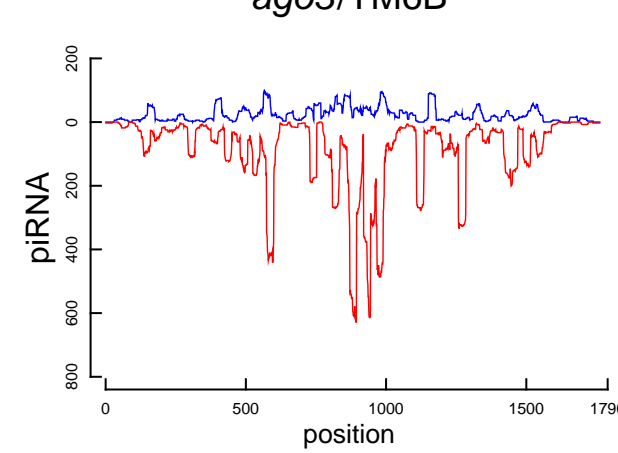
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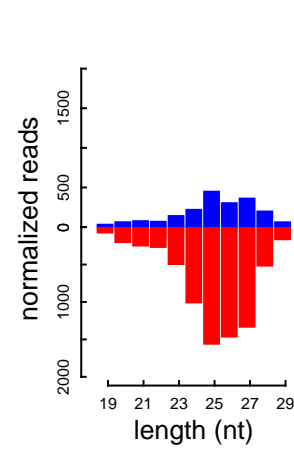
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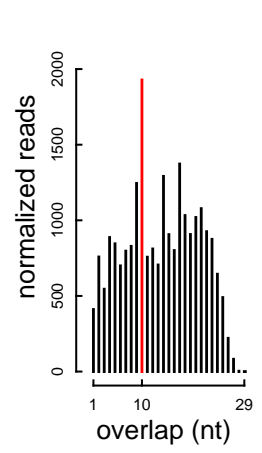
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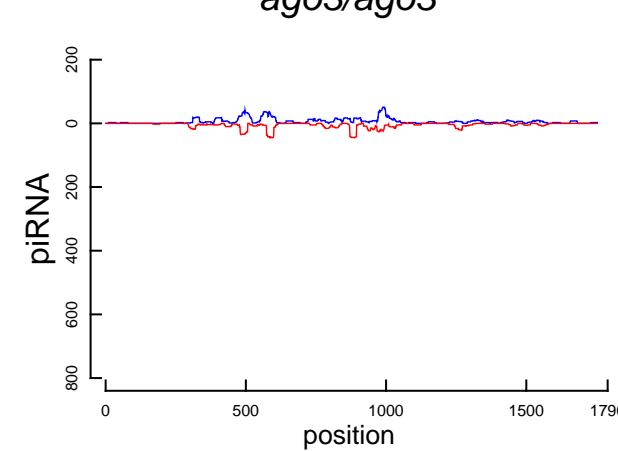
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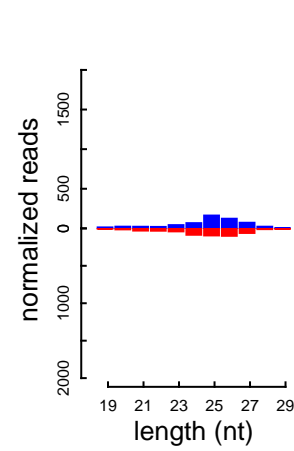
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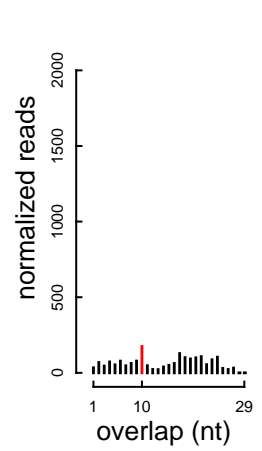
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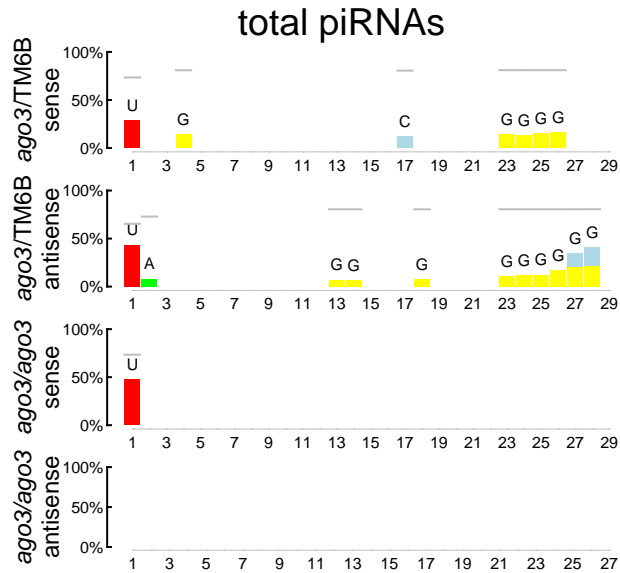


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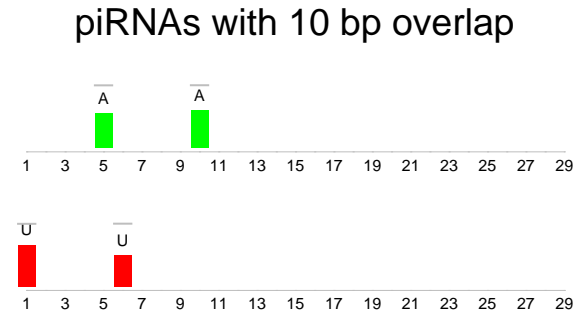


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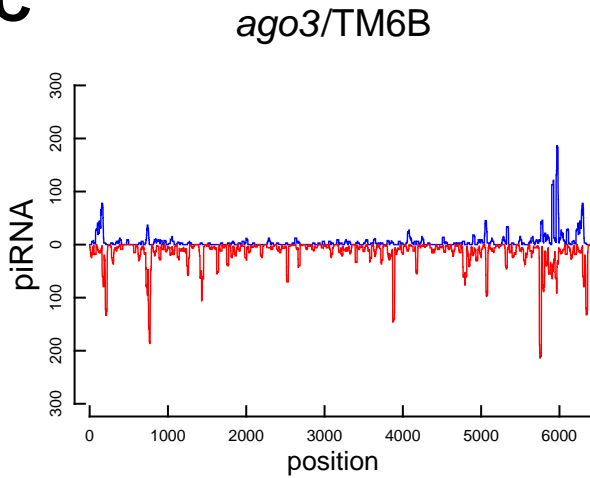
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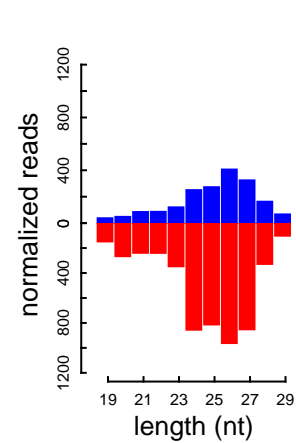
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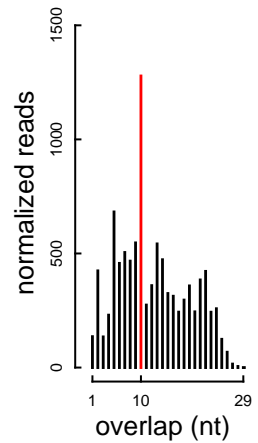
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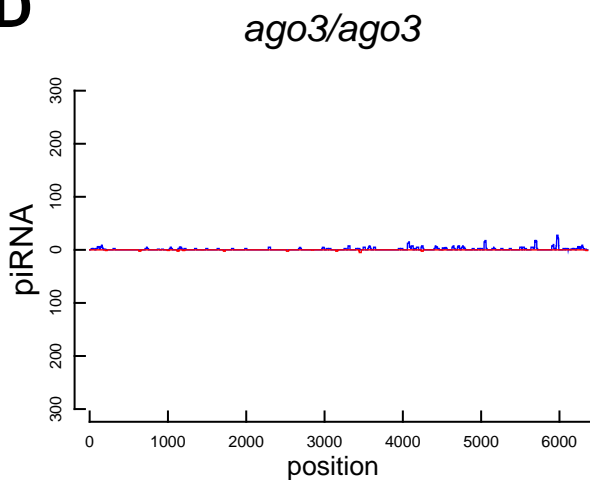
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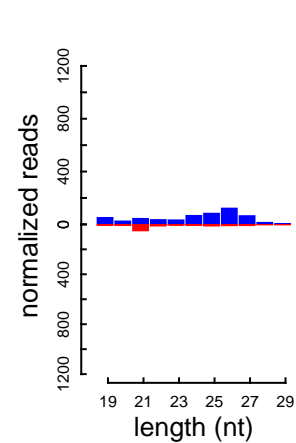
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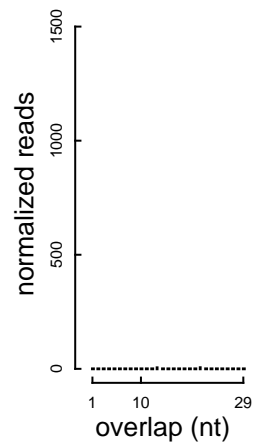
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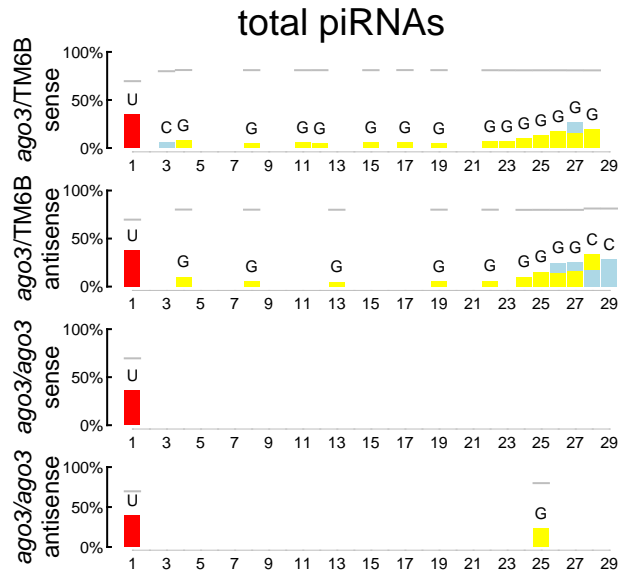


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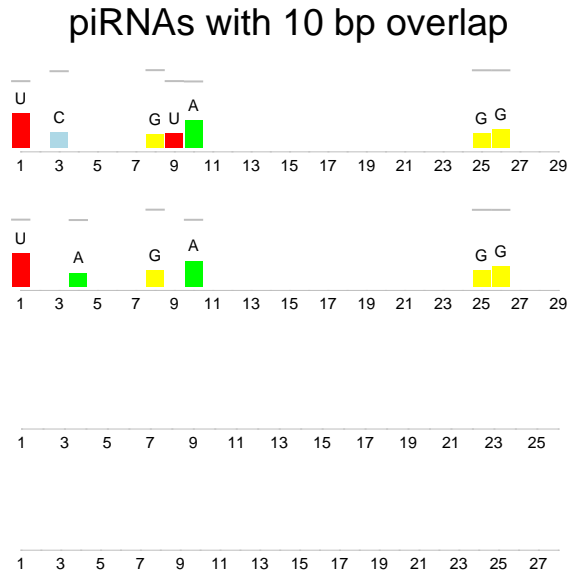


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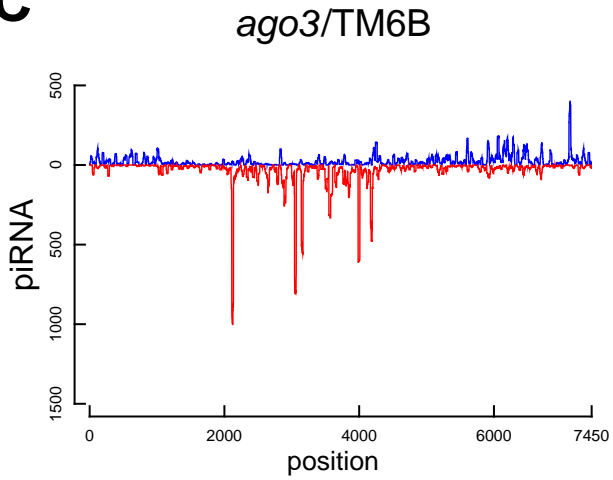
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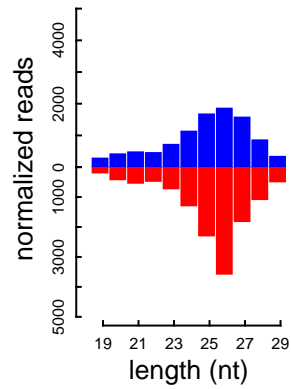
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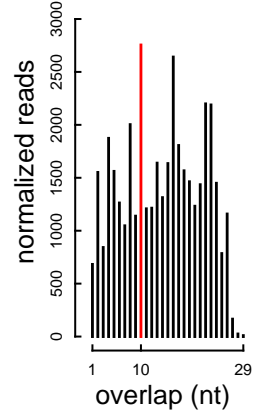
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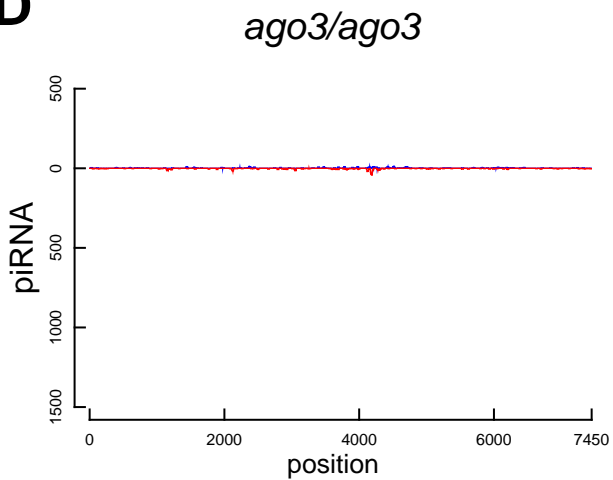
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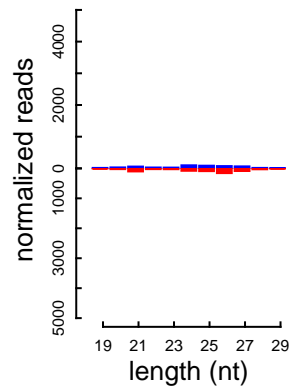
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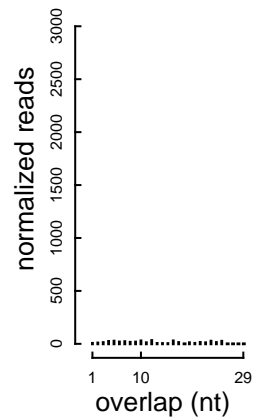
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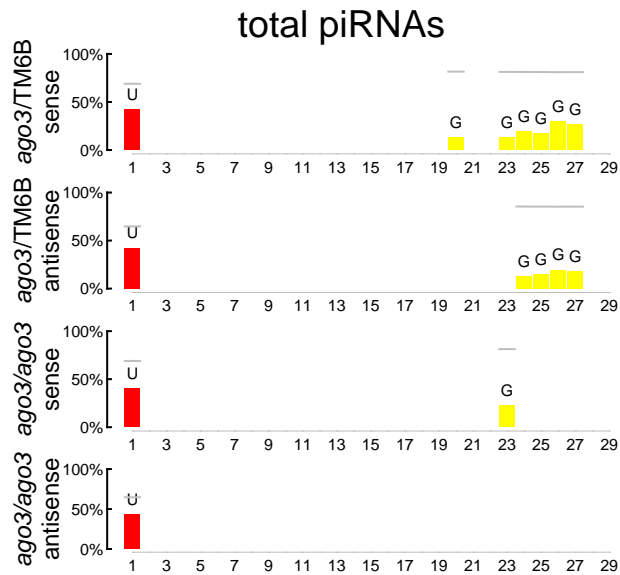
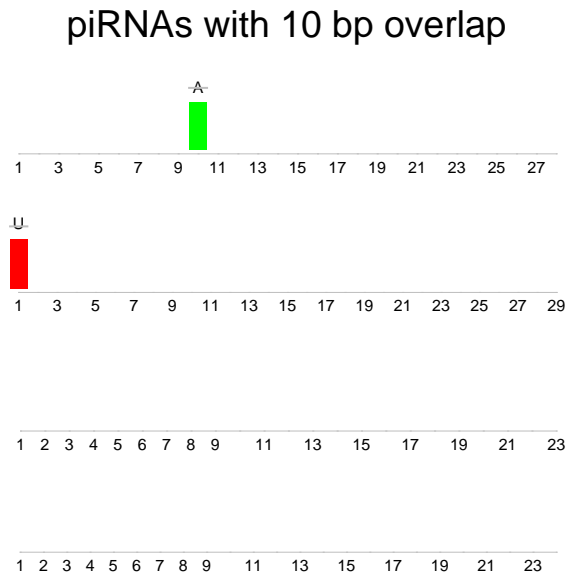
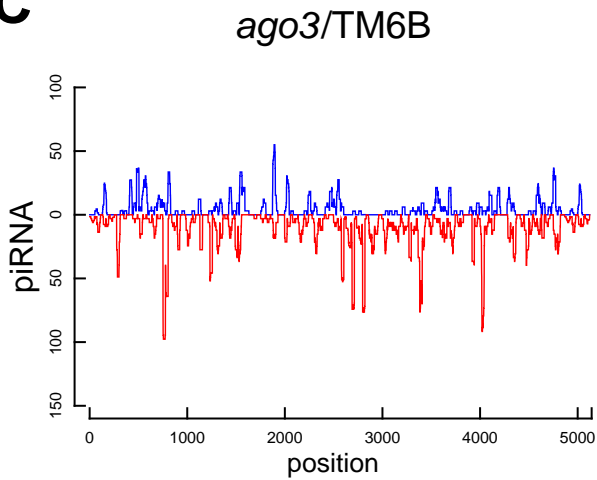
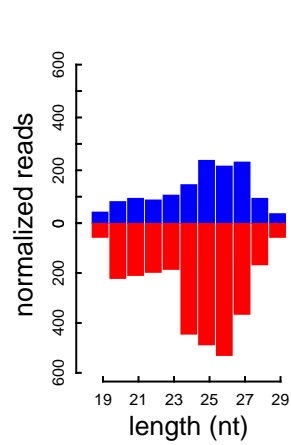
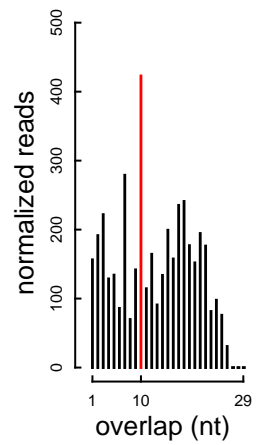
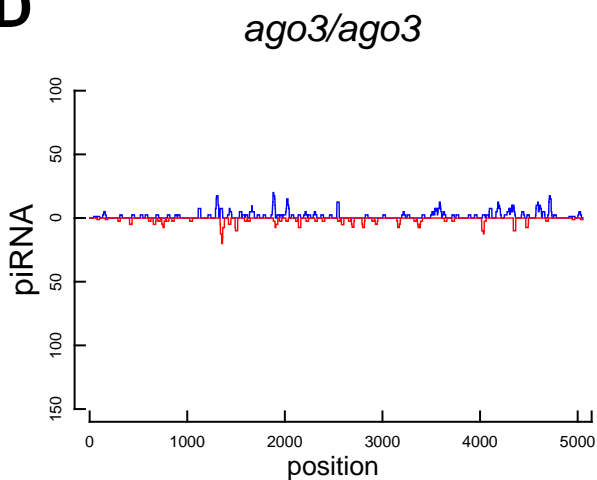
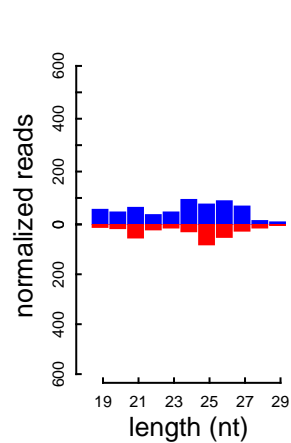
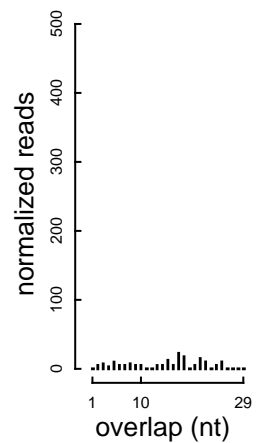
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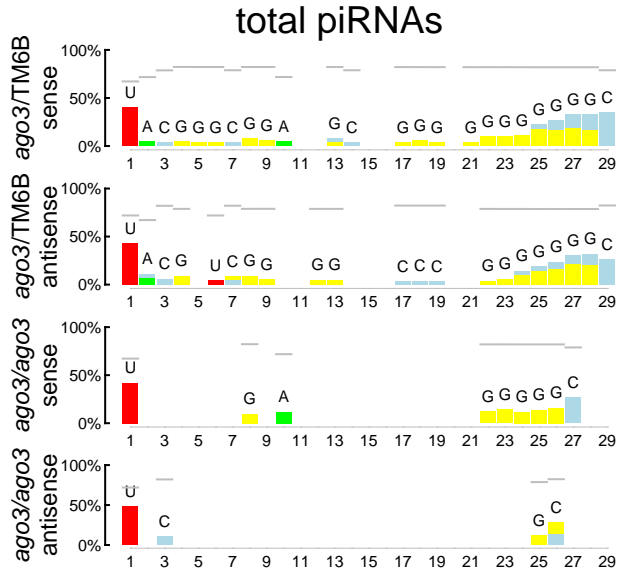
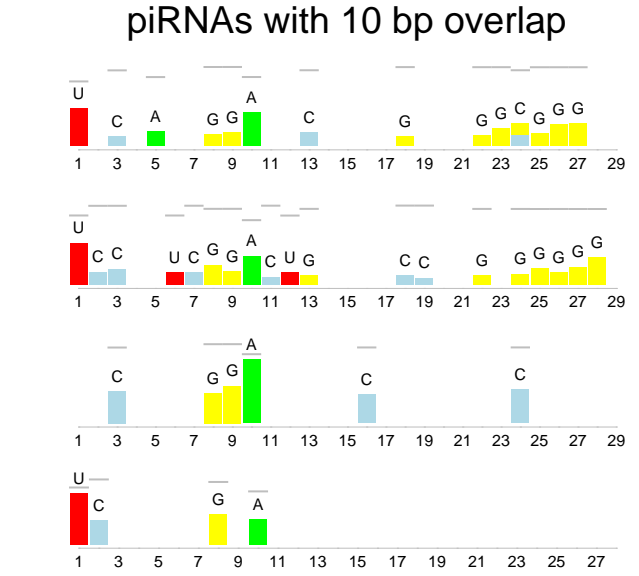
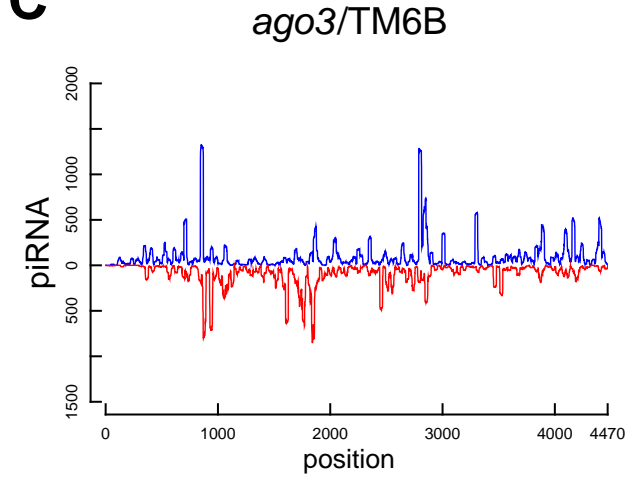
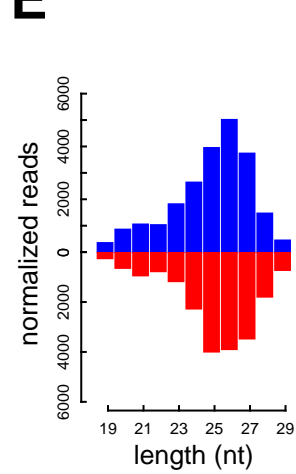
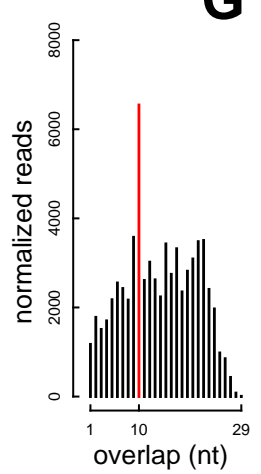
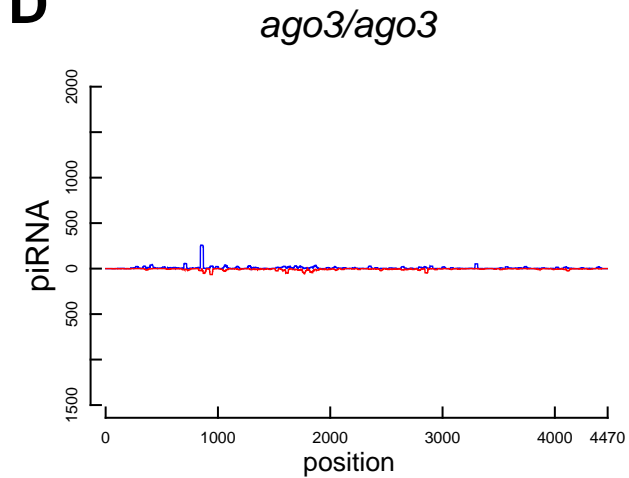
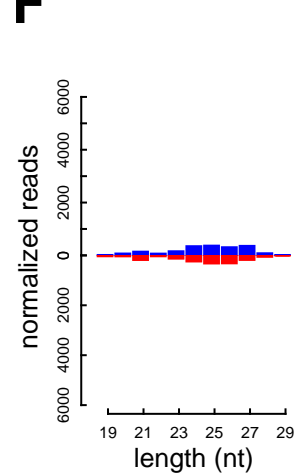
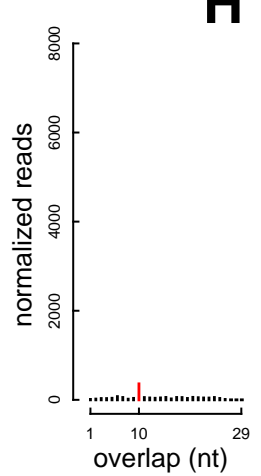
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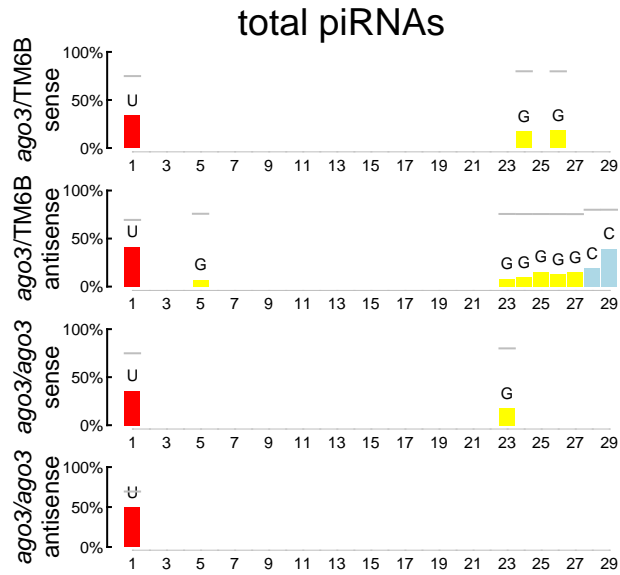
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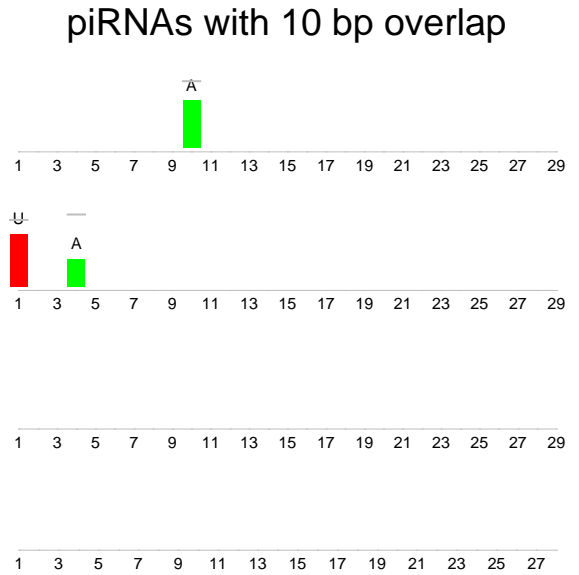
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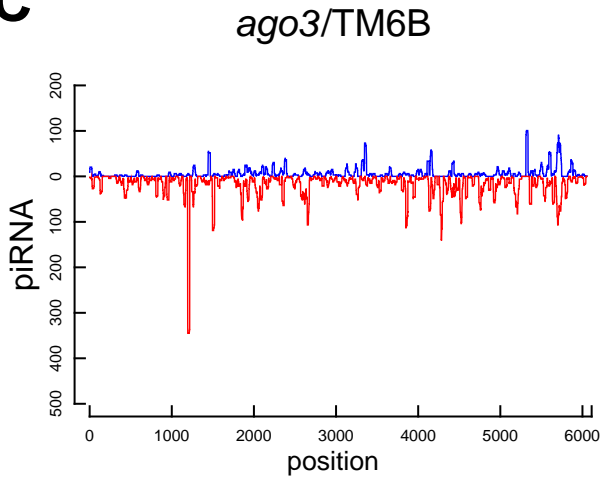
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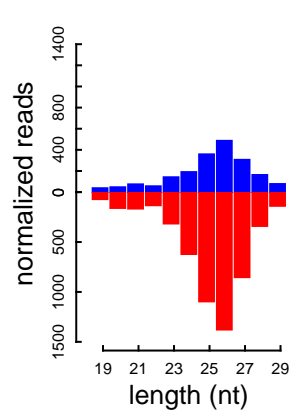
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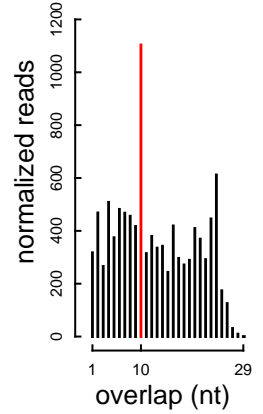
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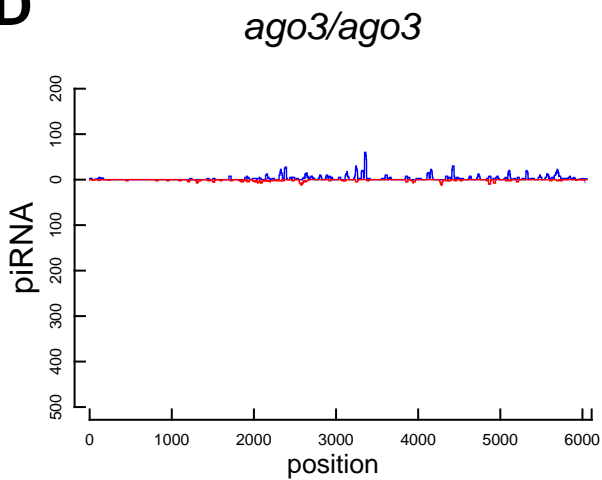
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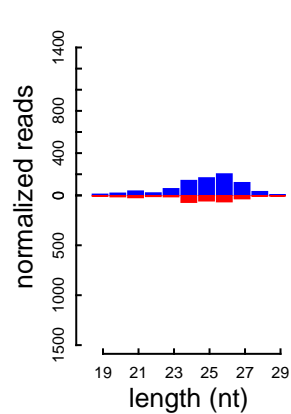
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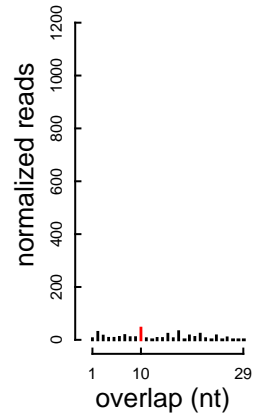
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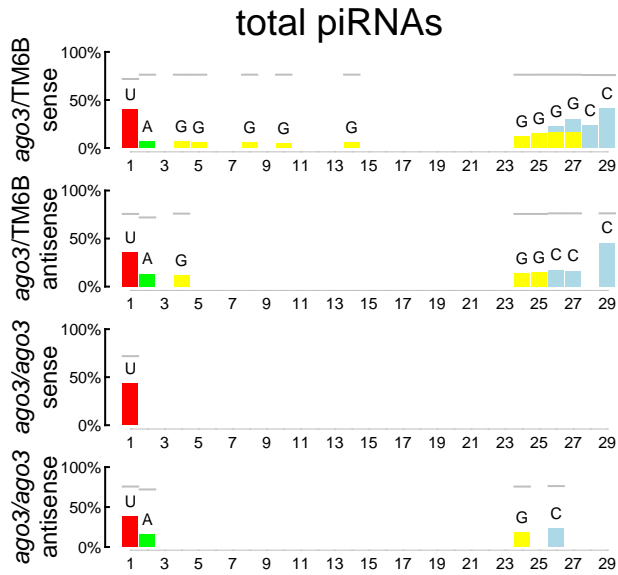
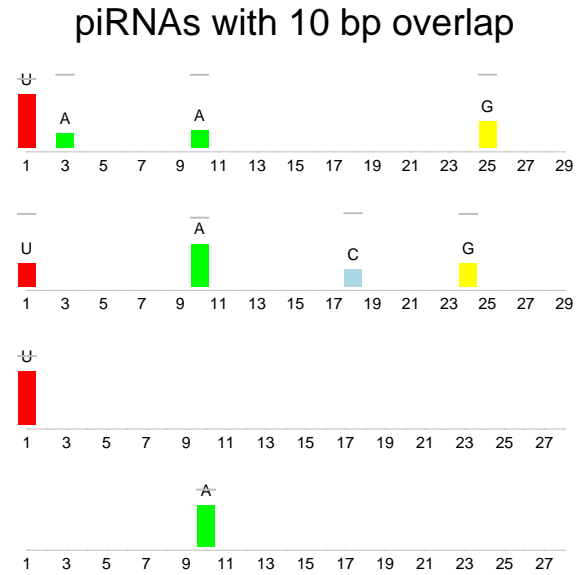
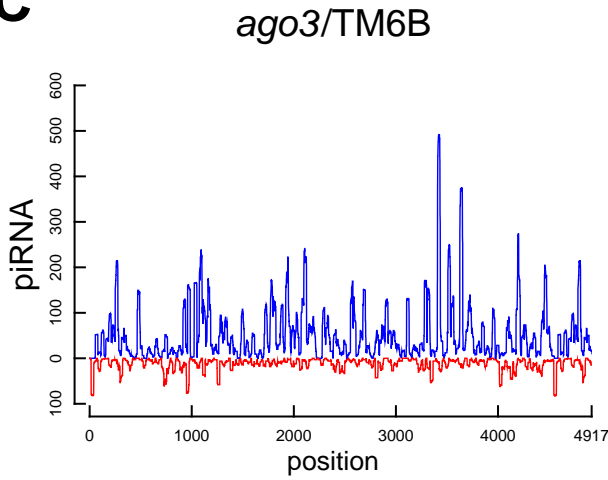
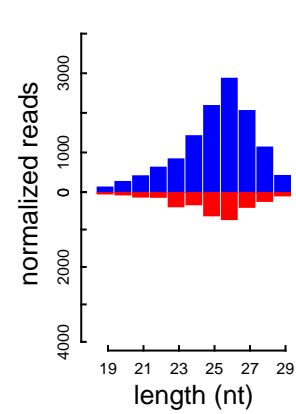
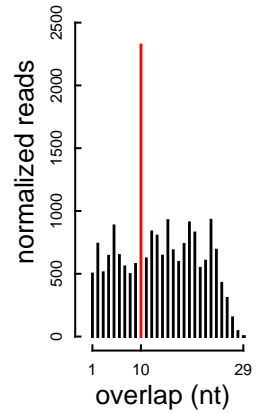
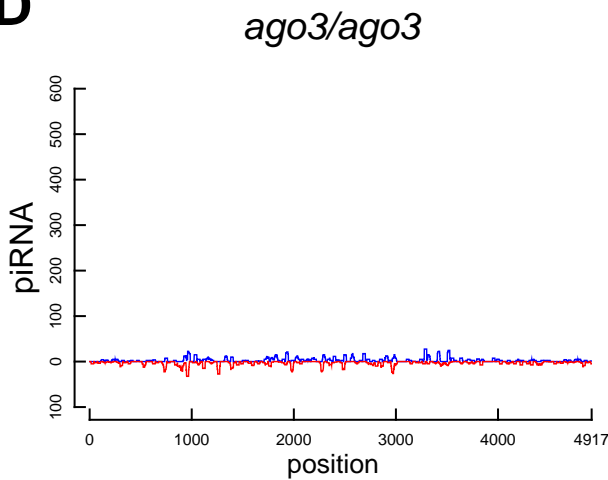
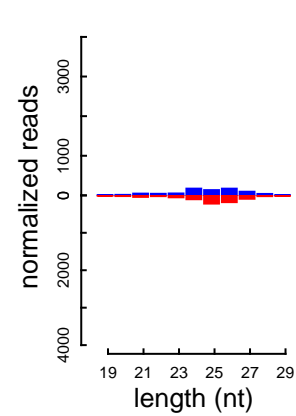
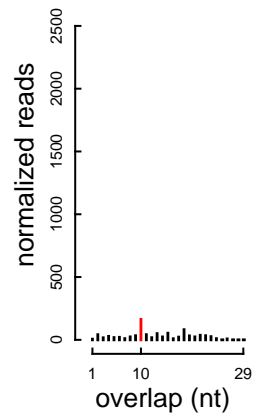
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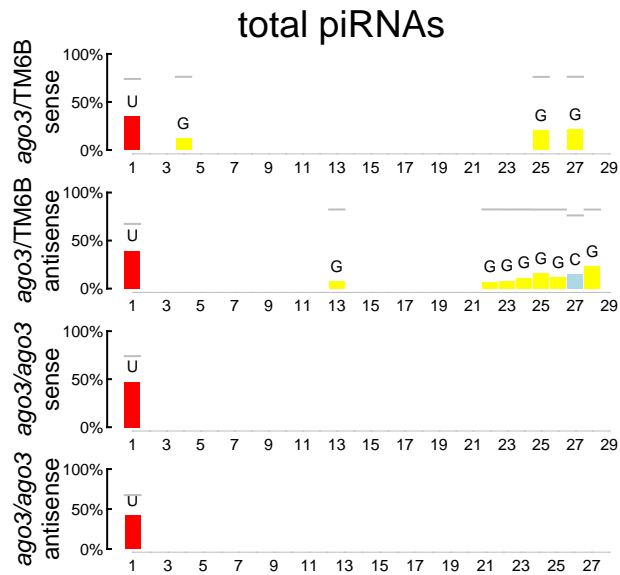
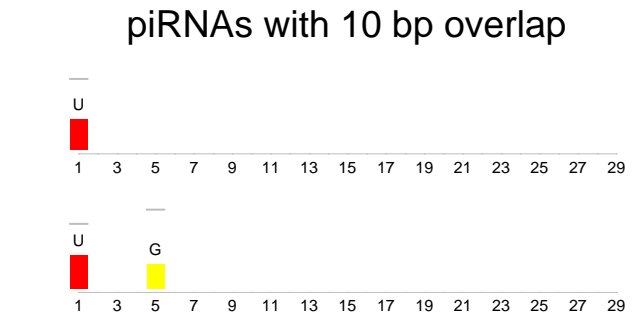
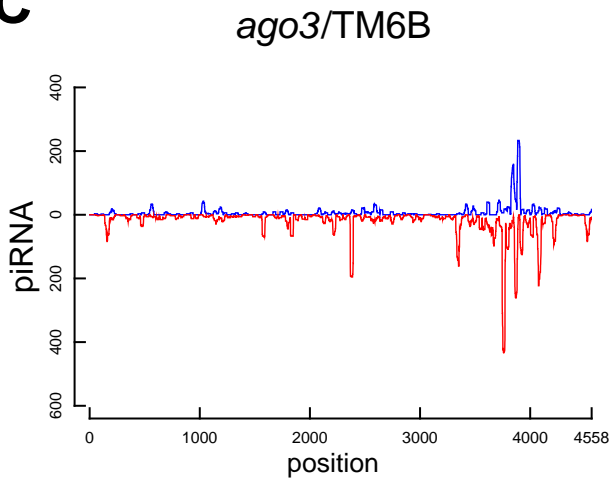
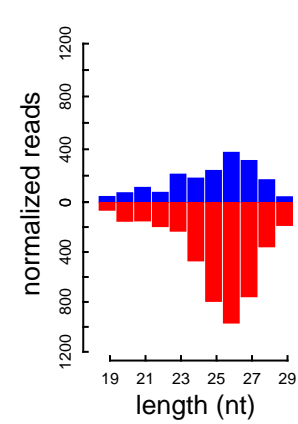
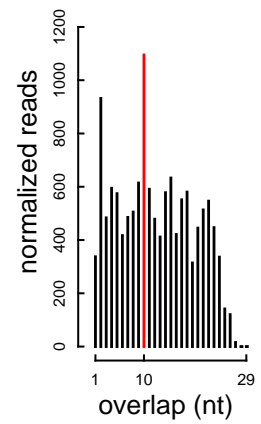
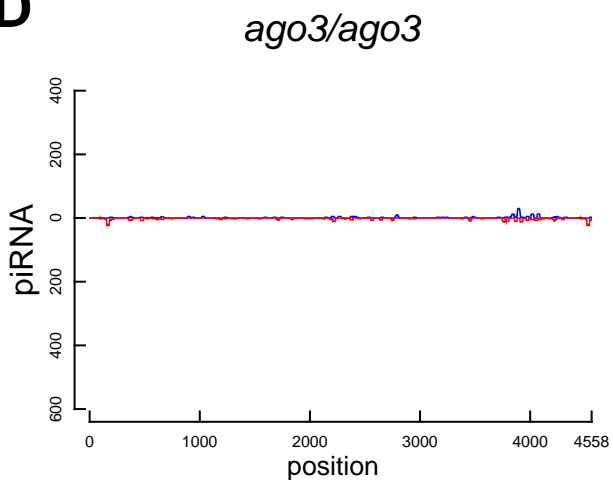
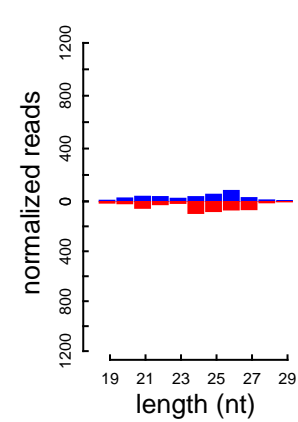
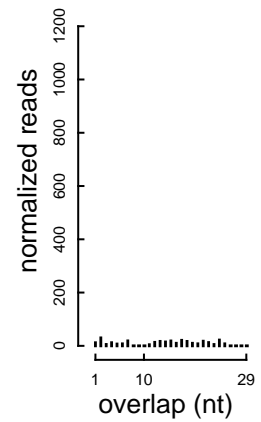
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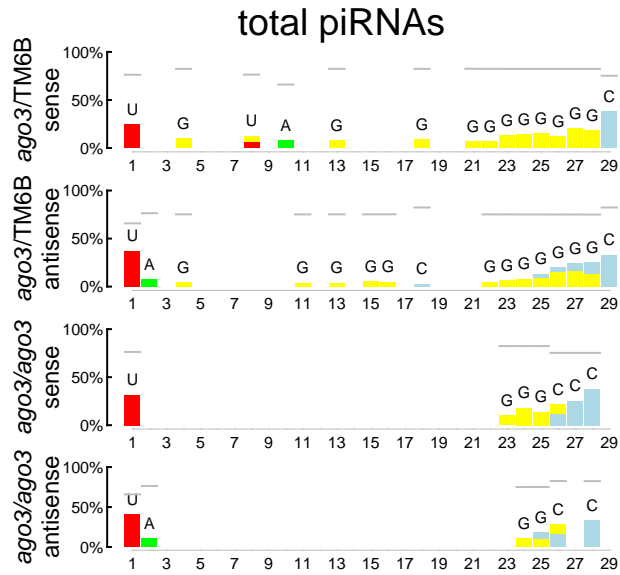
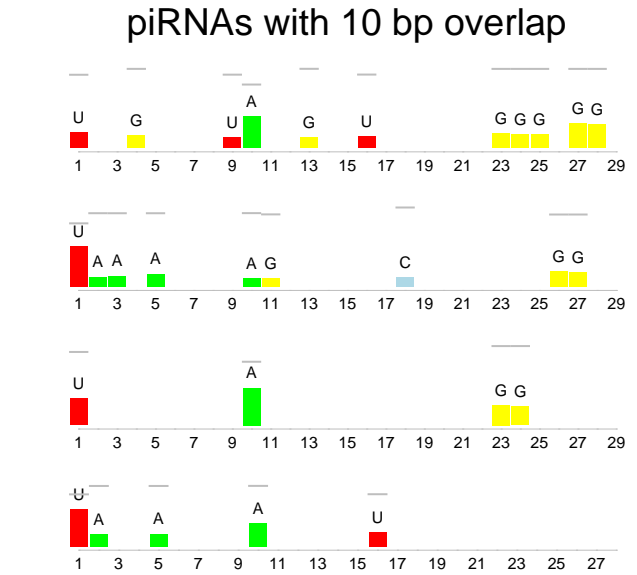
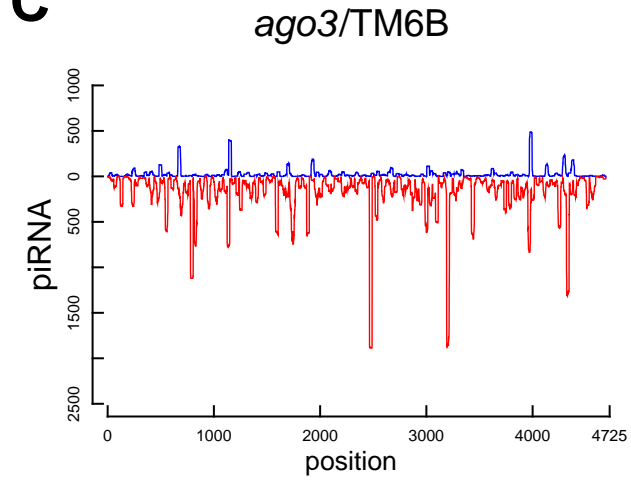
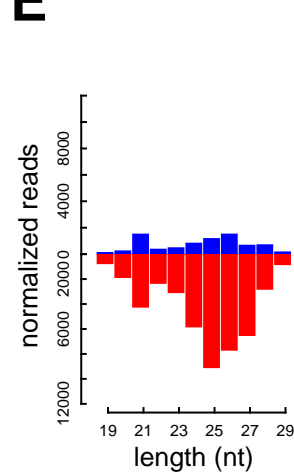
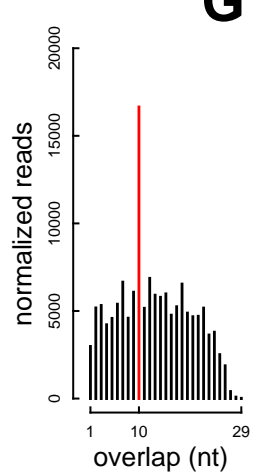
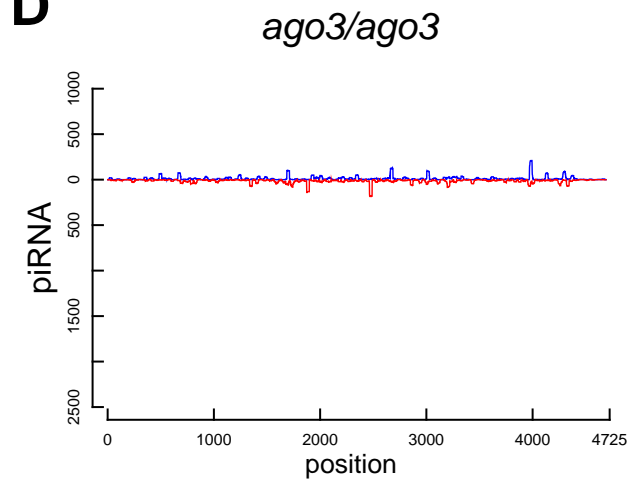
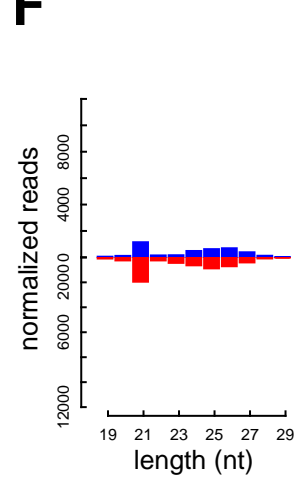
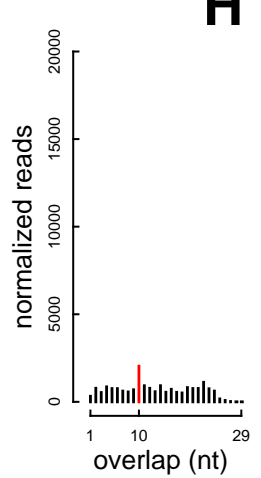
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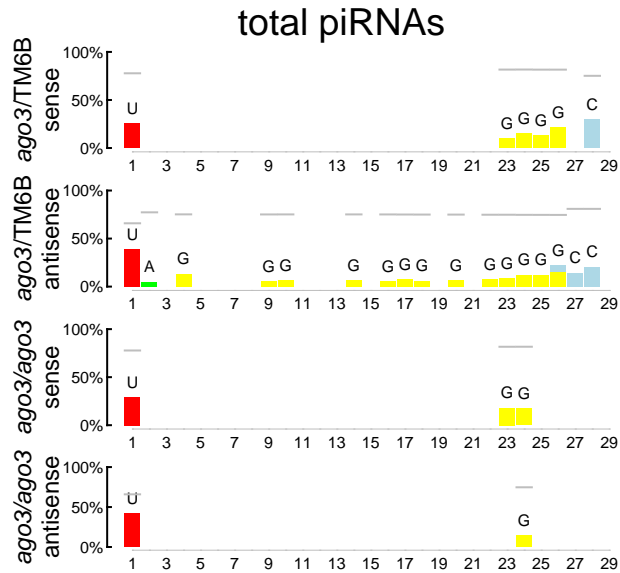
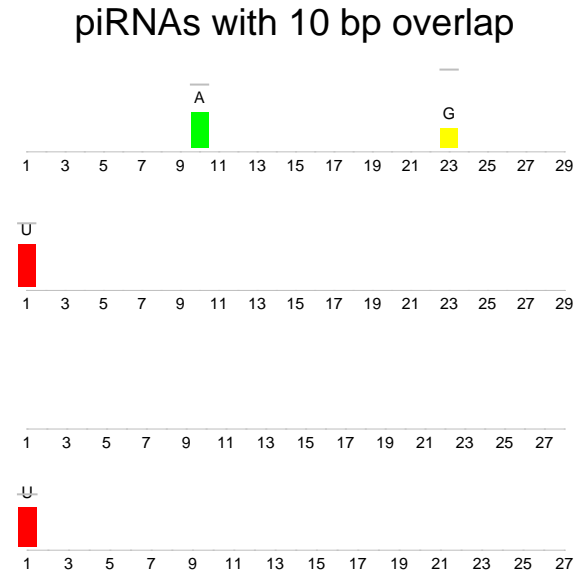
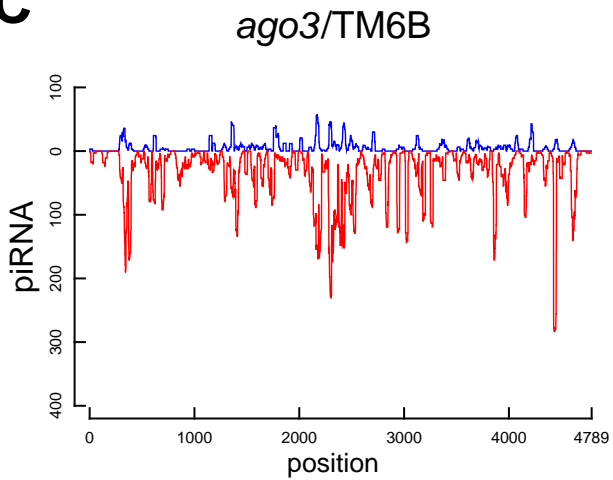
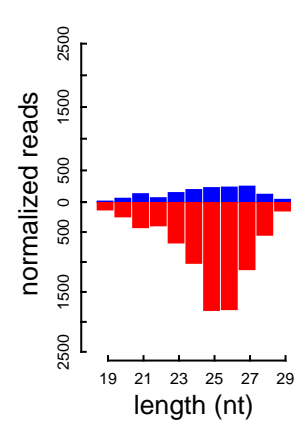
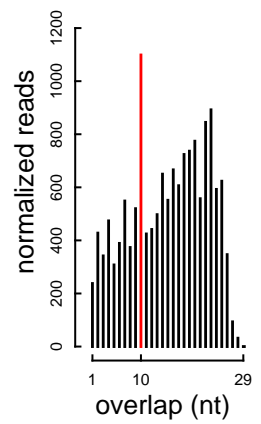
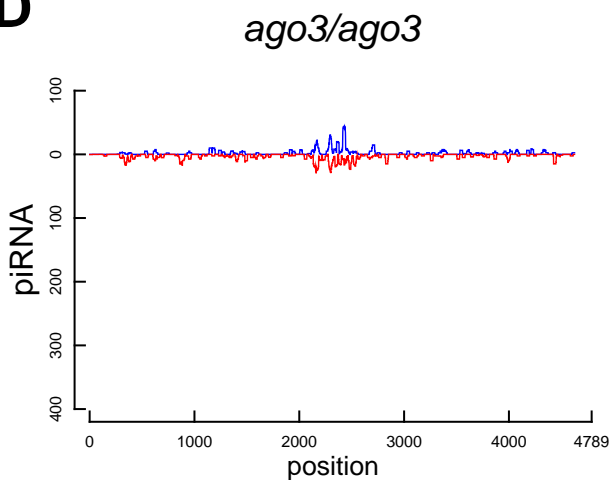
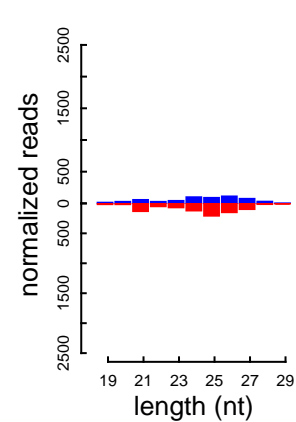
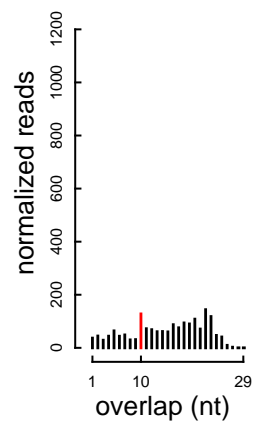
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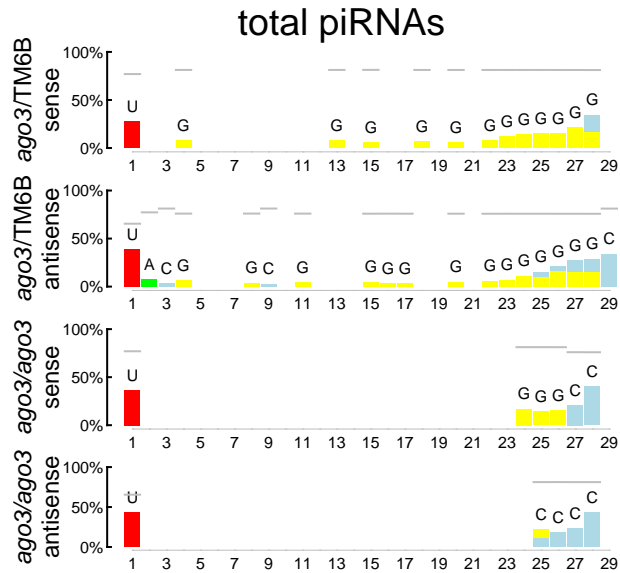
A**B****C****E****G****D****F****H**

Doc2 element

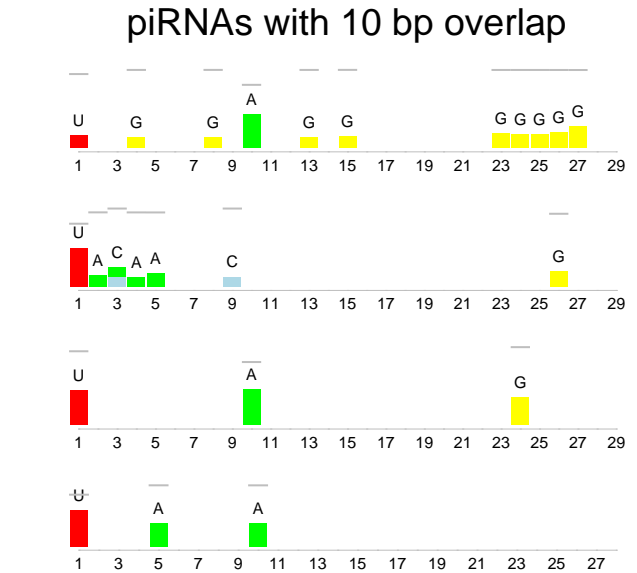
A**B****C****E****G****D****F****H**

Doc3 element

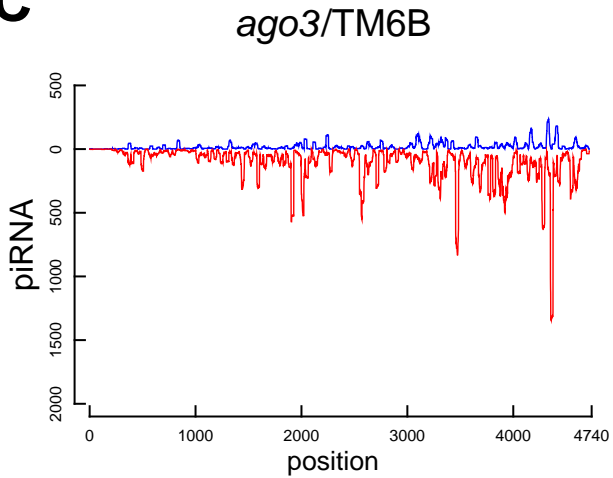
A



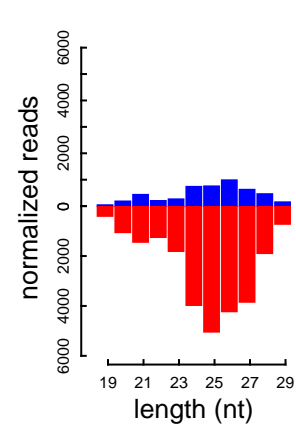
B



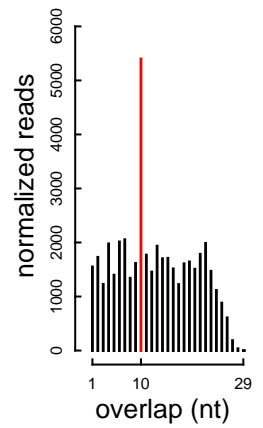
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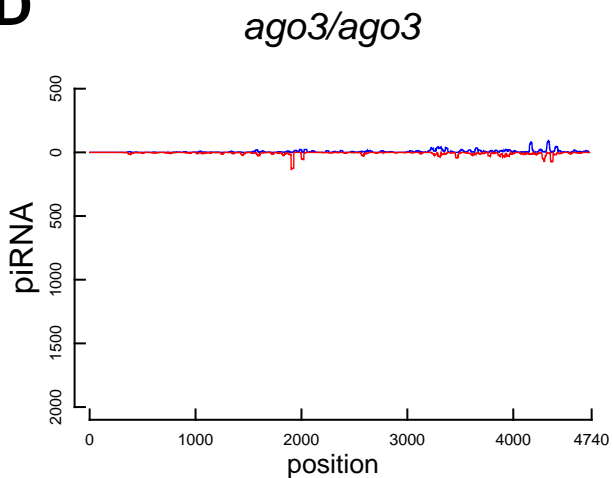
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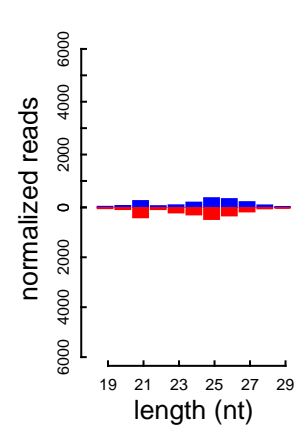
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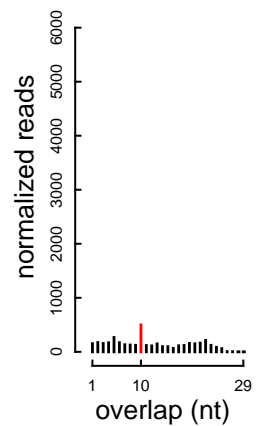
D



F

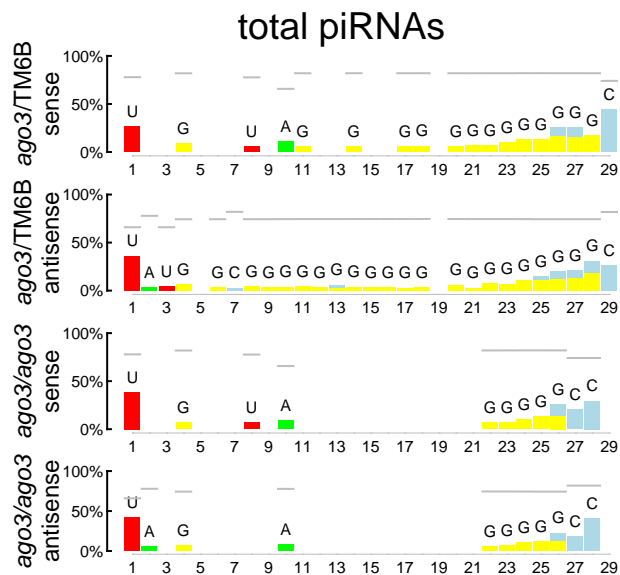


H

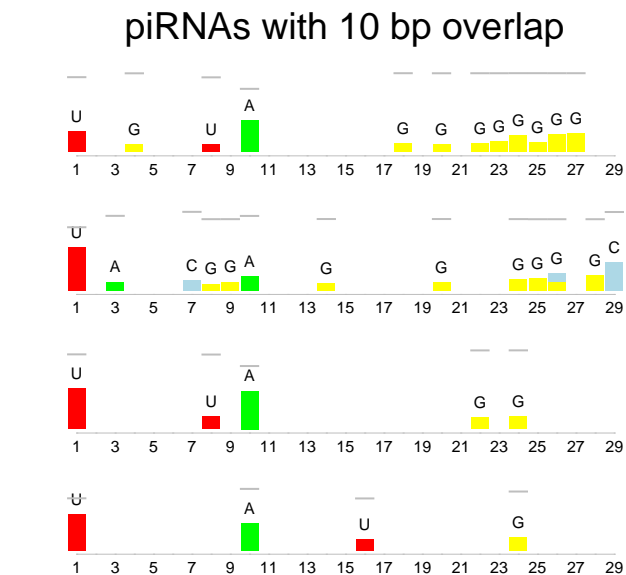


F element

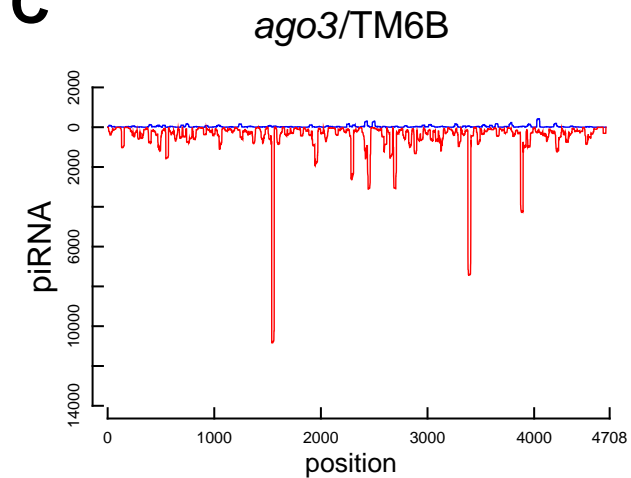
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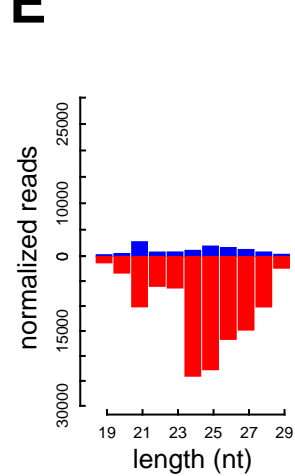
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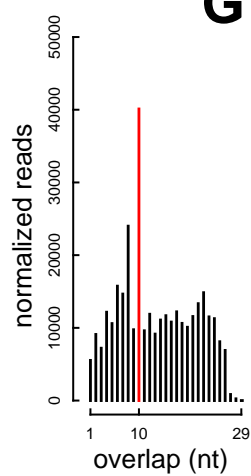
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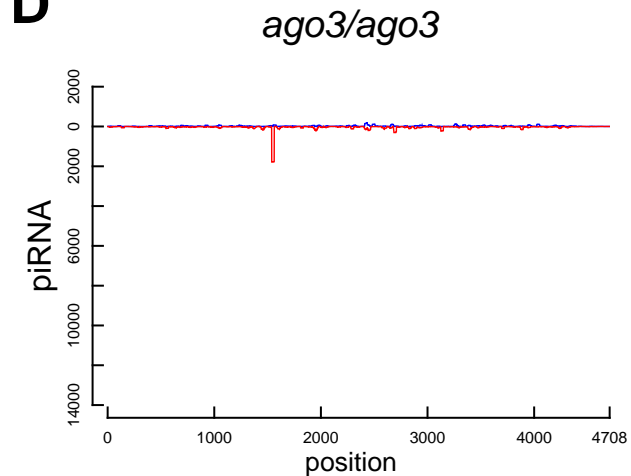
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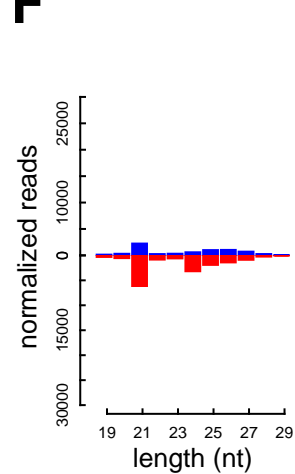
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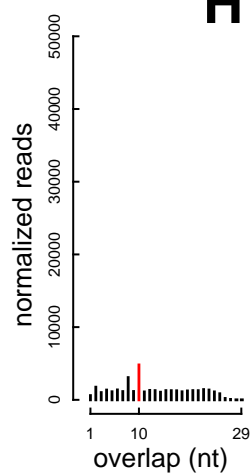
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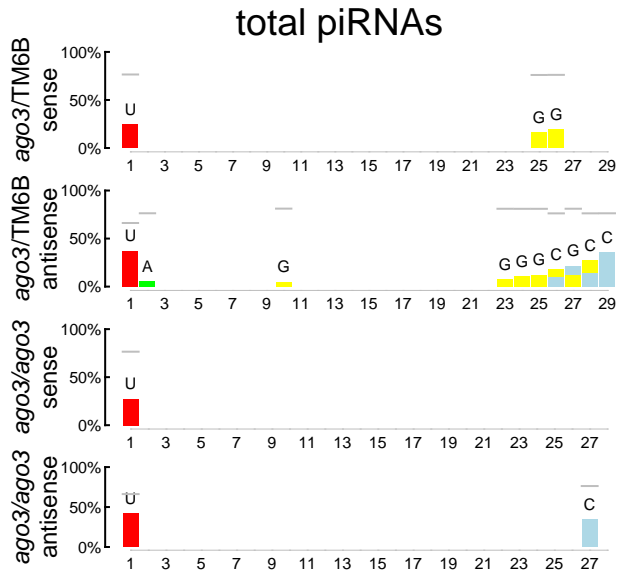
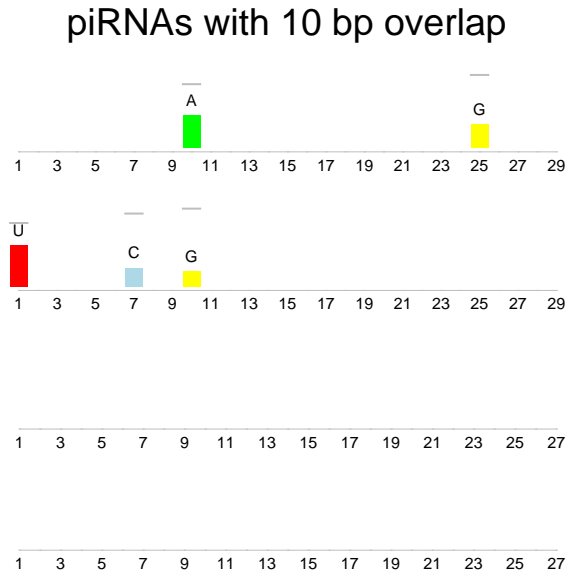
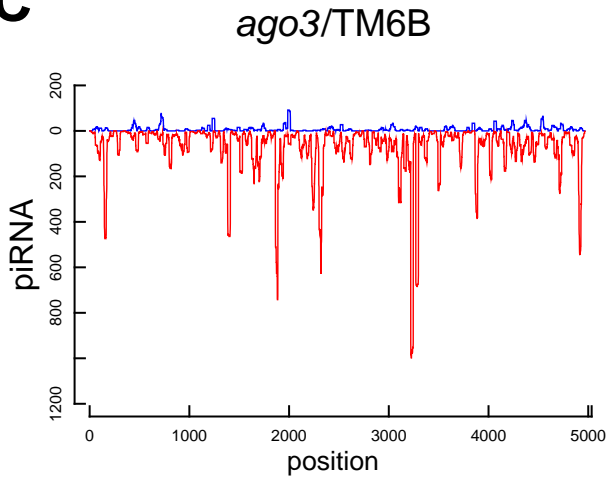
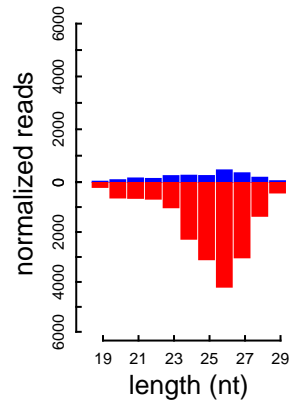
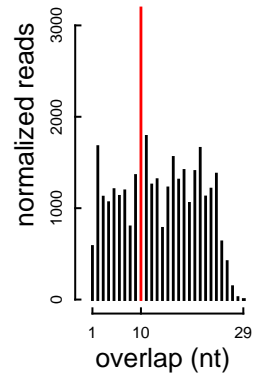
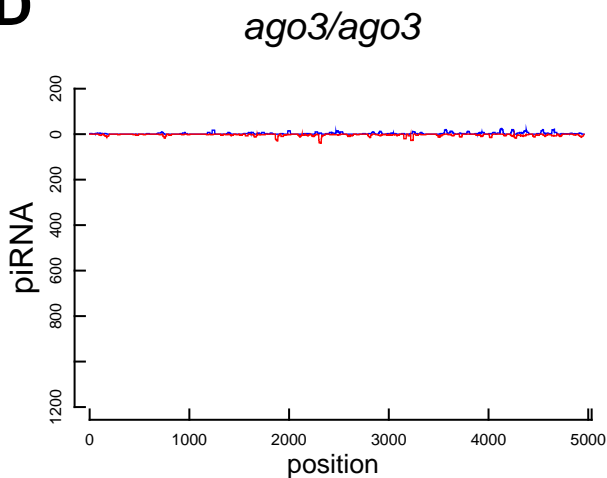
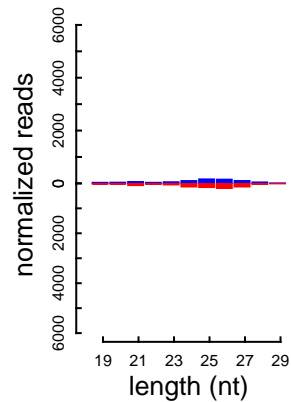
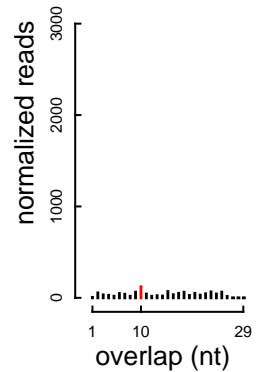
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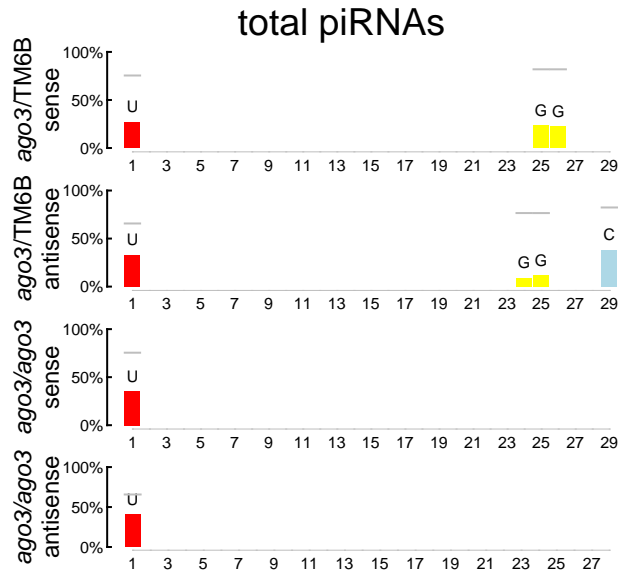
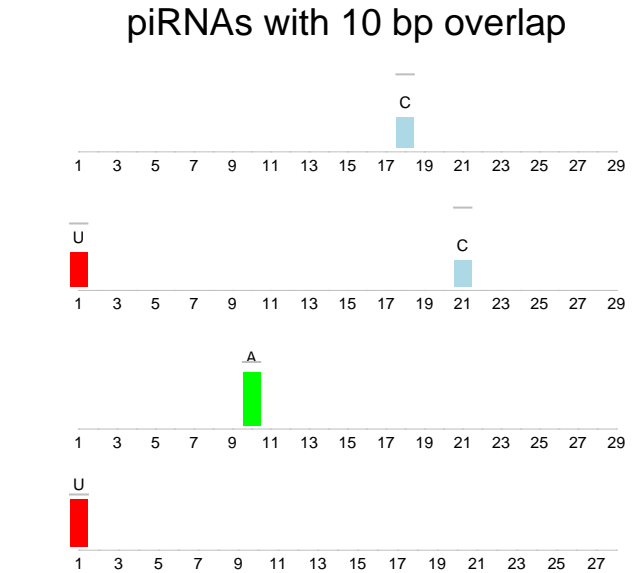
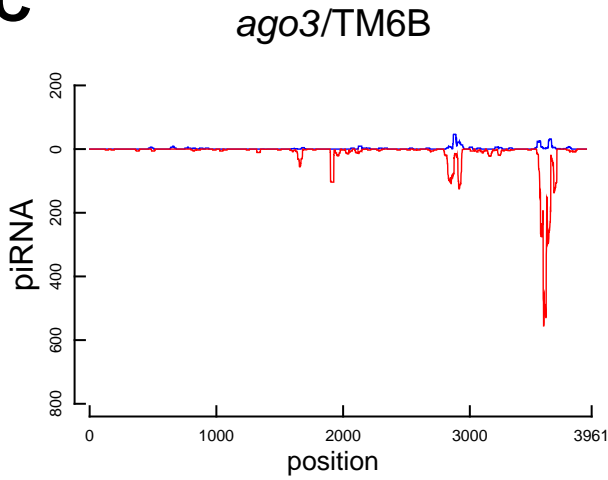
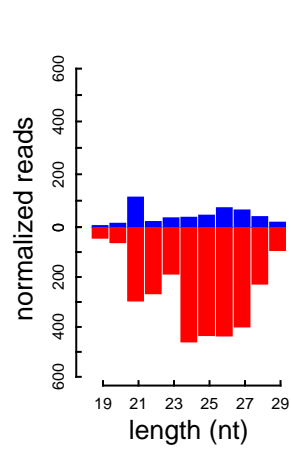
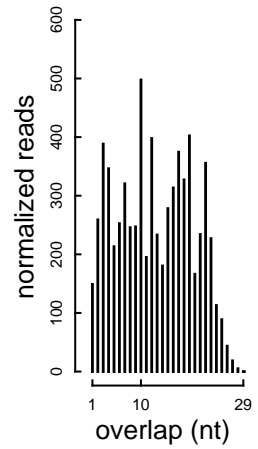
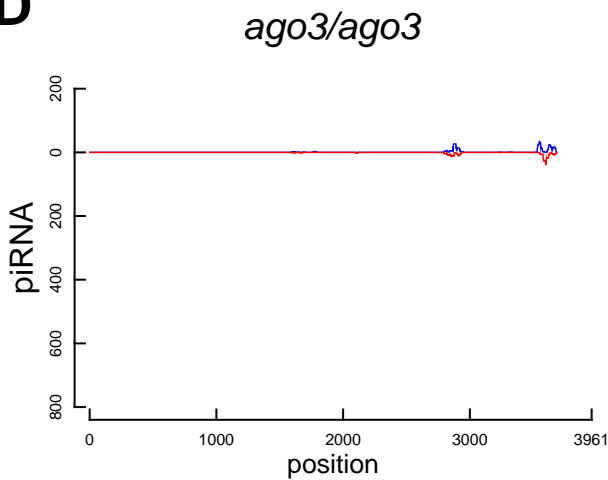
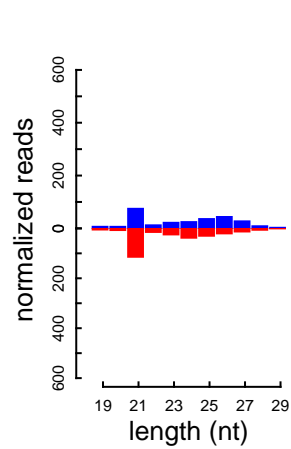
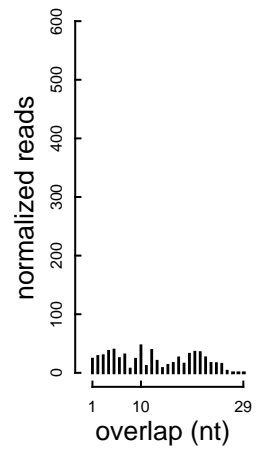
H



flea

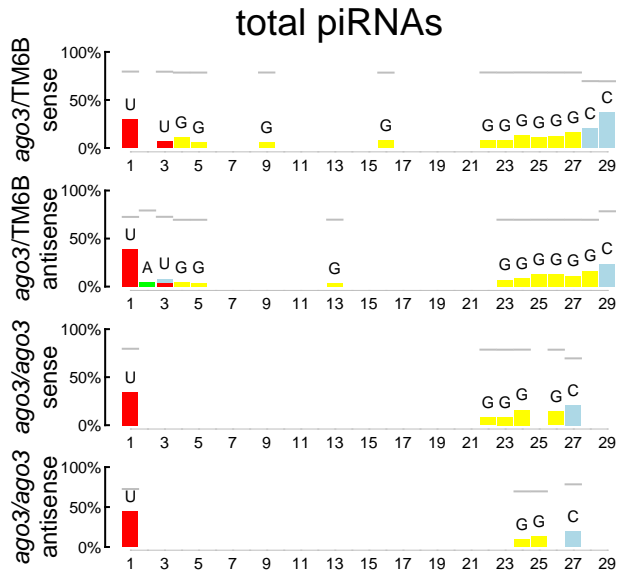
A**B****C****E****G****D****F****H**

FW2

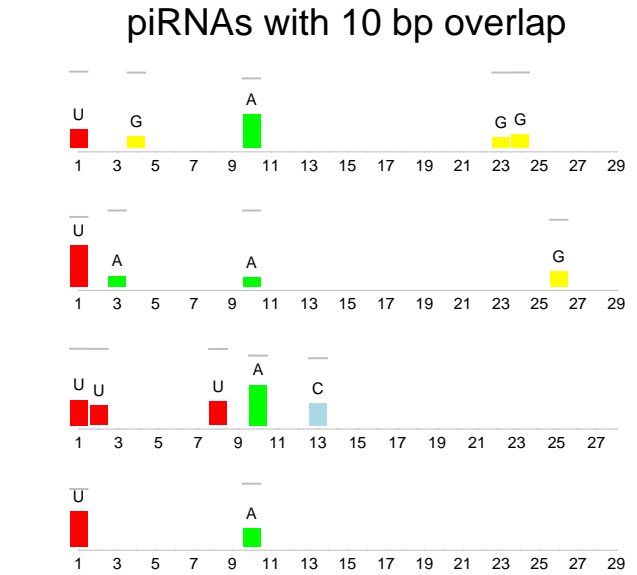
A**B****C****E****G****D****F****H**

G element

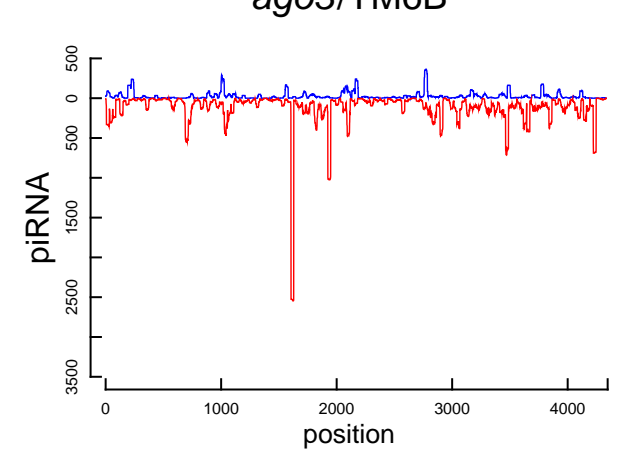
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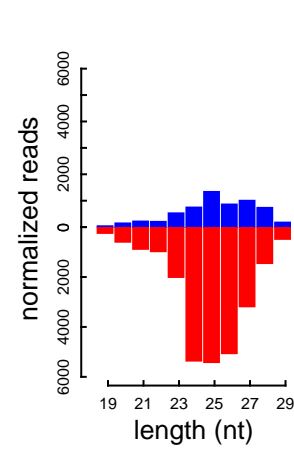
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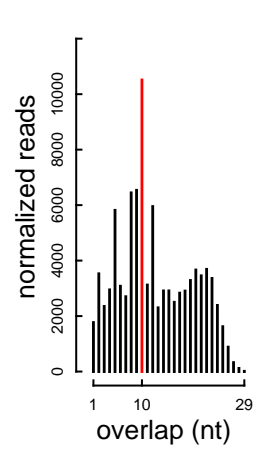
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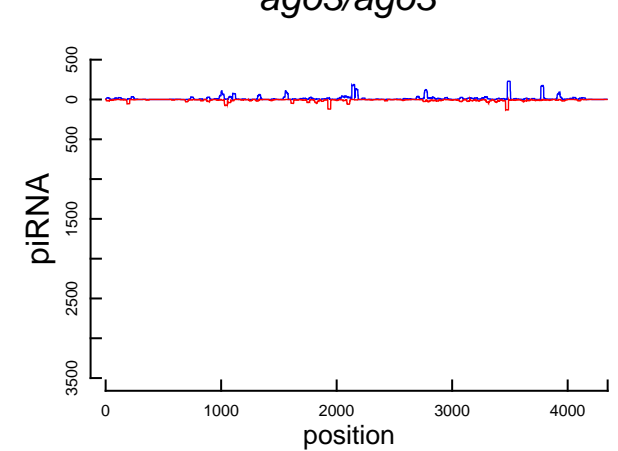
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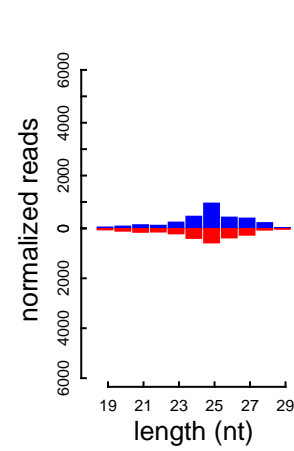
G



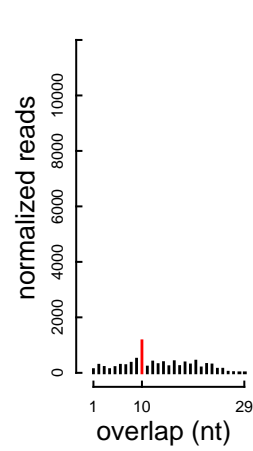
D



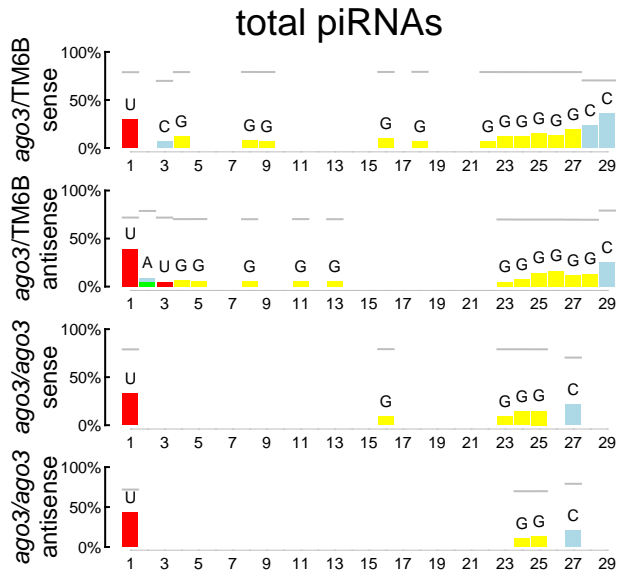
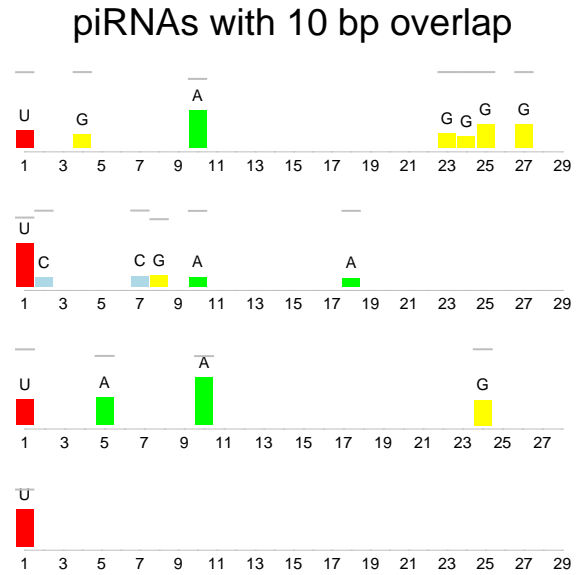
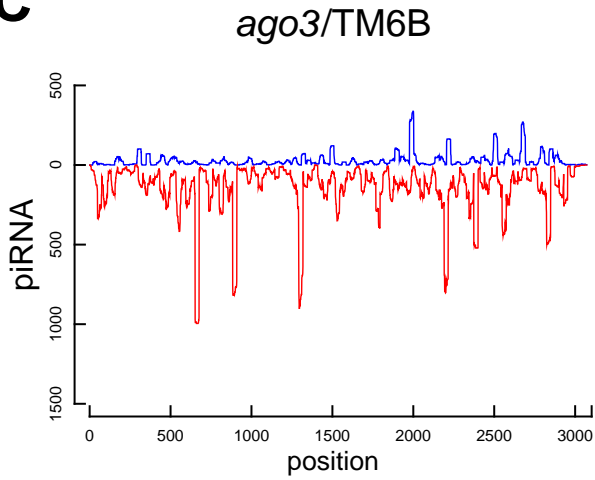
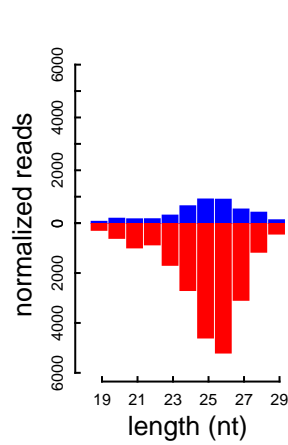
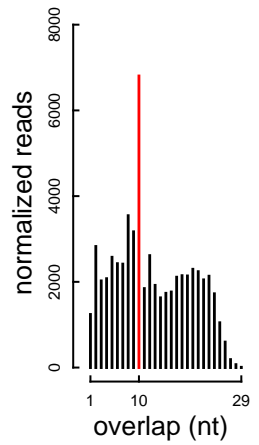
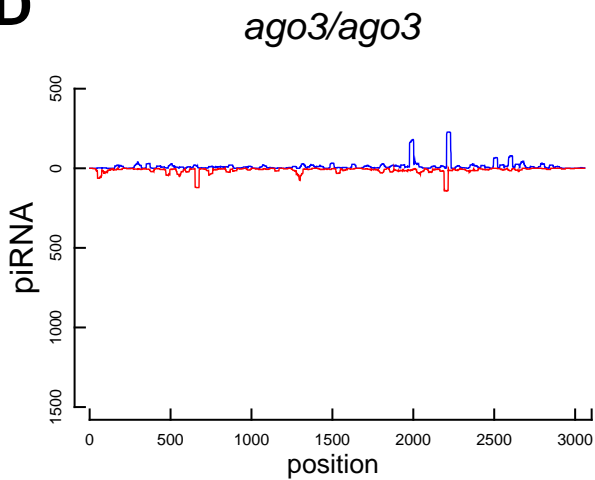
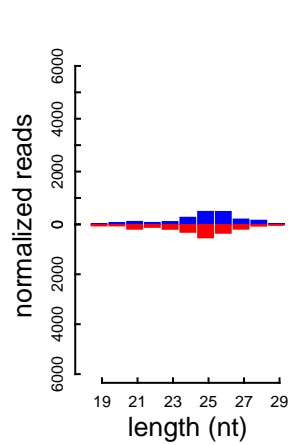
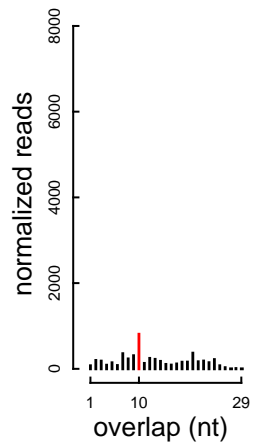
F



H

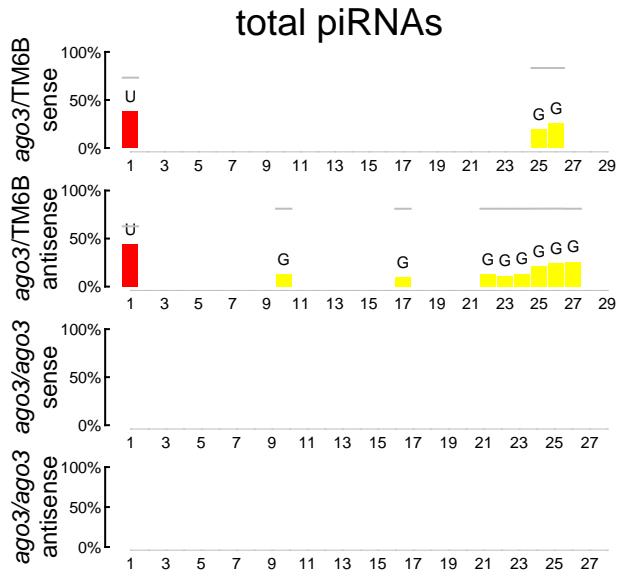


G2

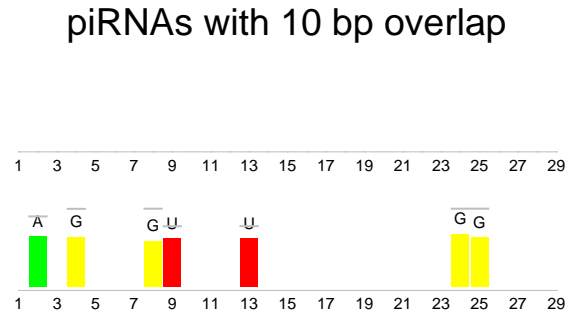
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G4

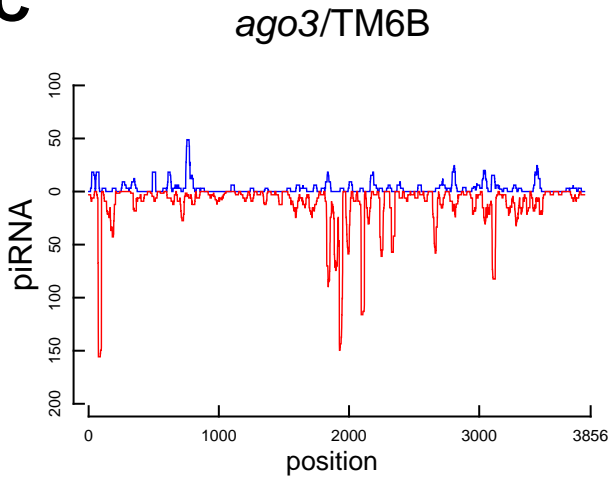
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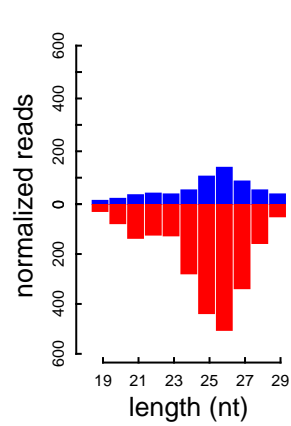
B



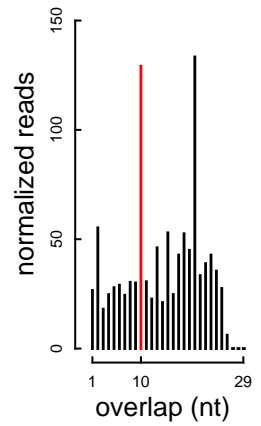
C



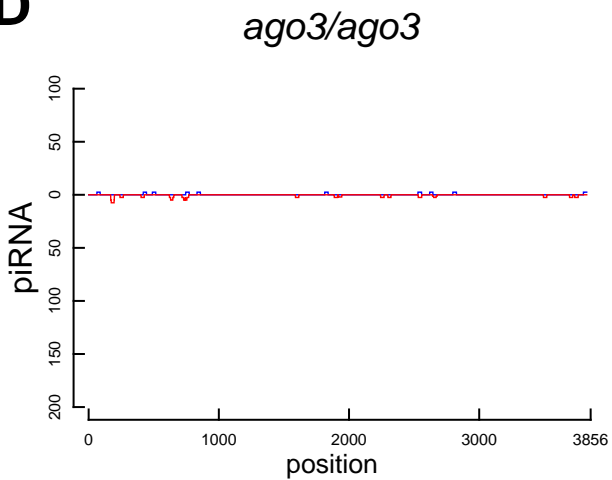
E



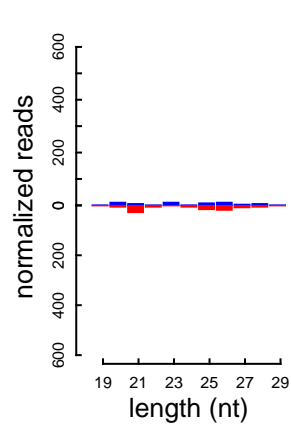
G



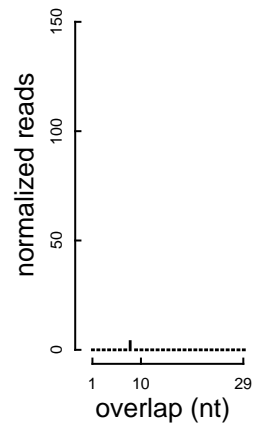
D



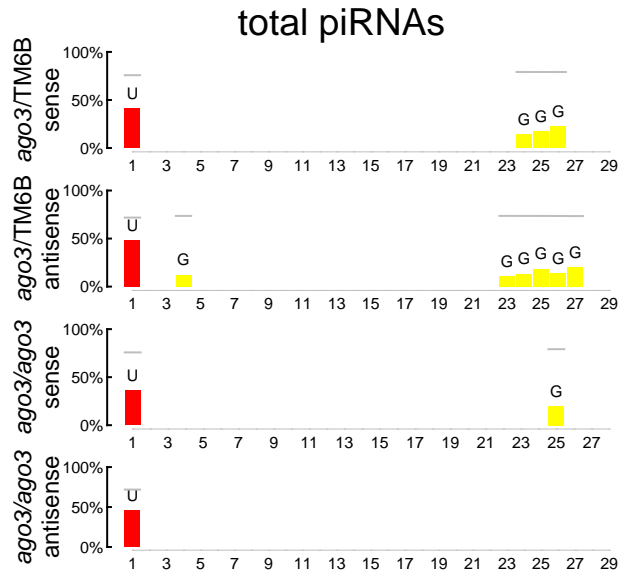
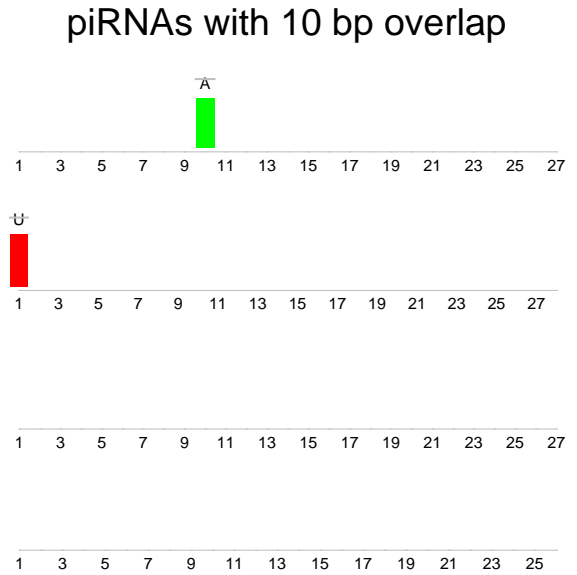
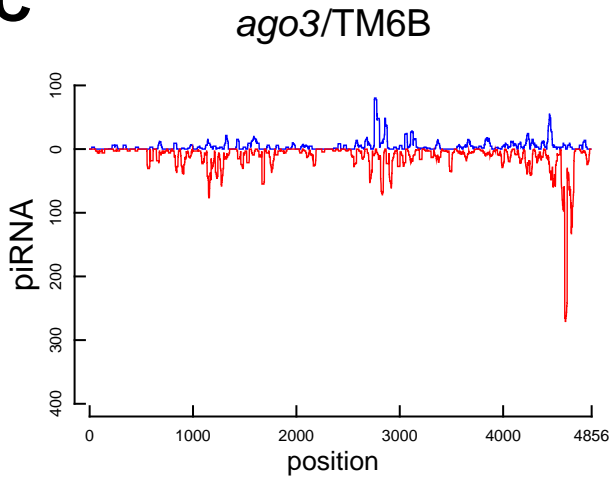
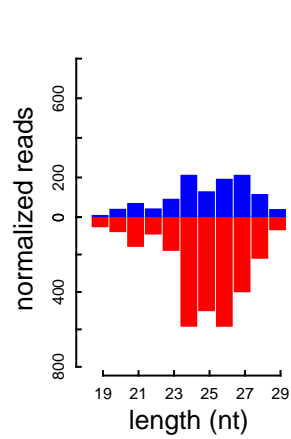
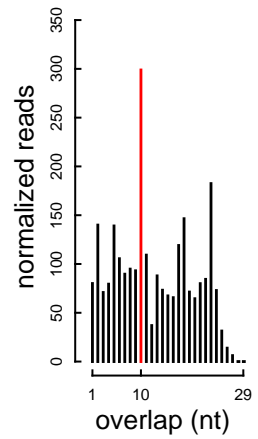
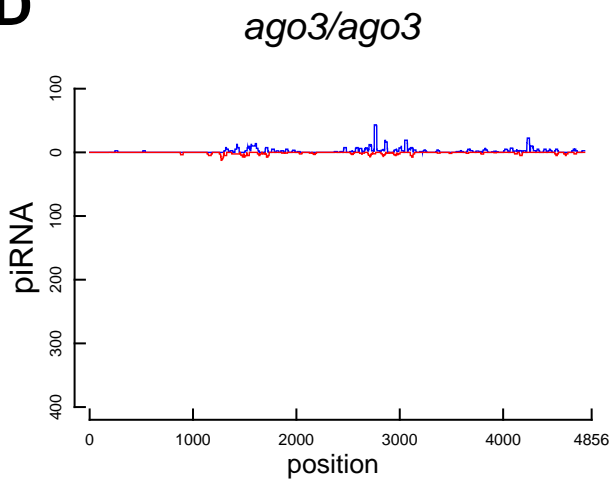
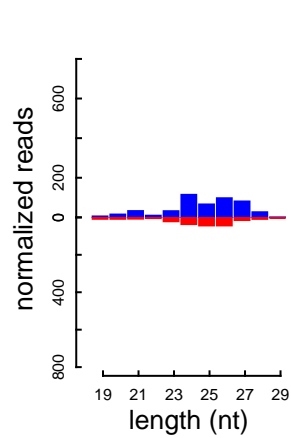
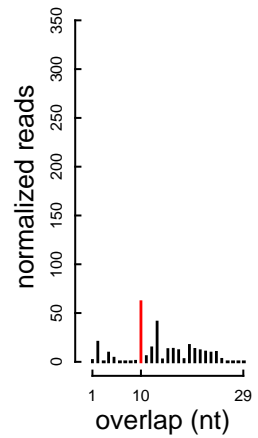
F



H

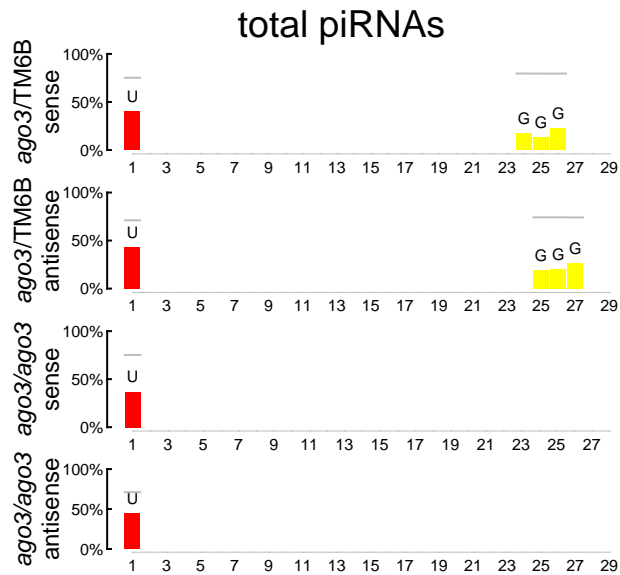


G5

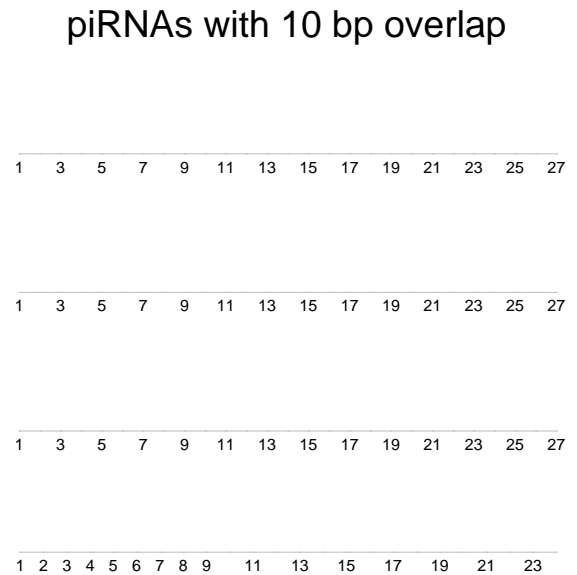
A**B****C****E****G****D****F****H**

G5A

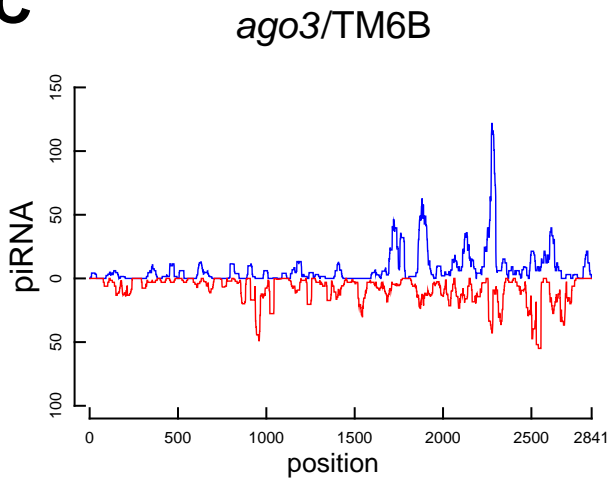
A



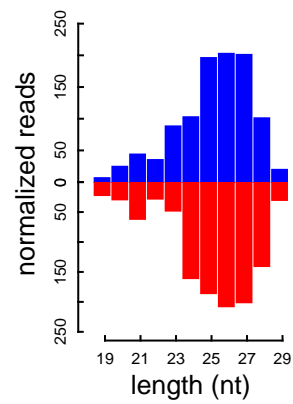
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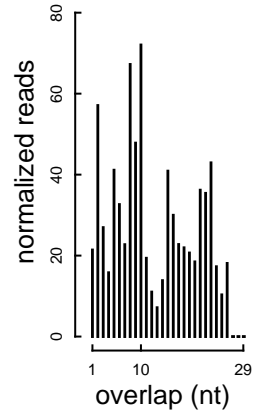
C



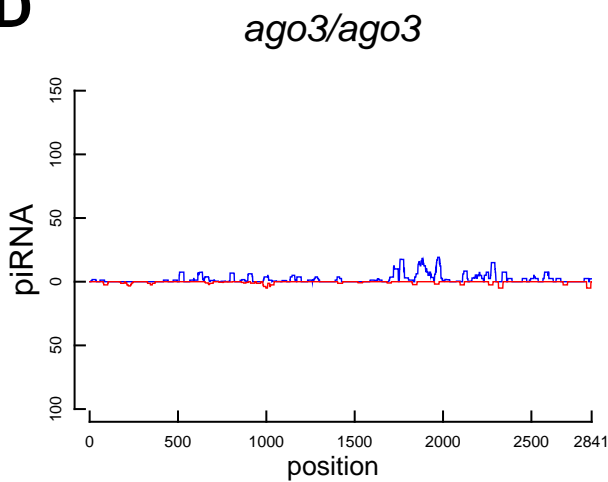
E



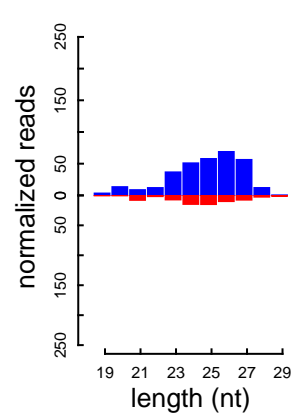
G



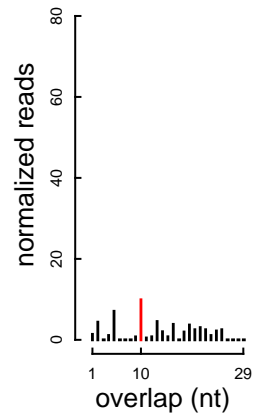
D



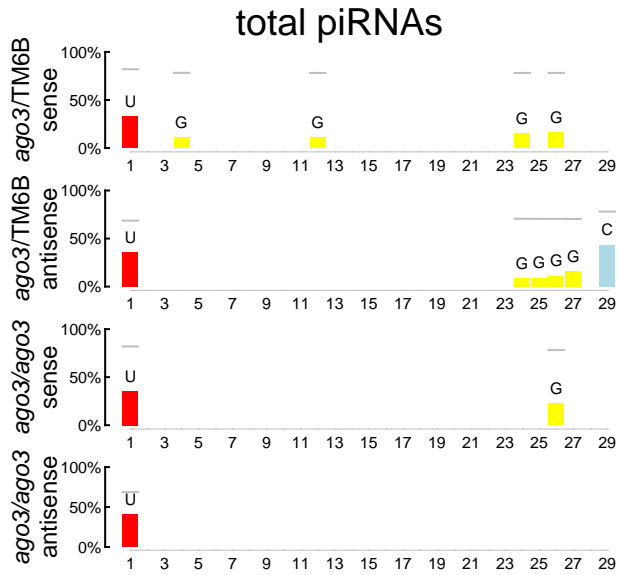
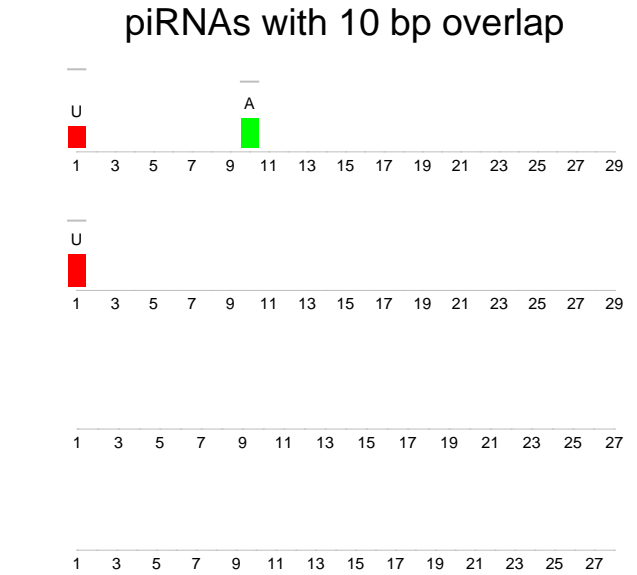
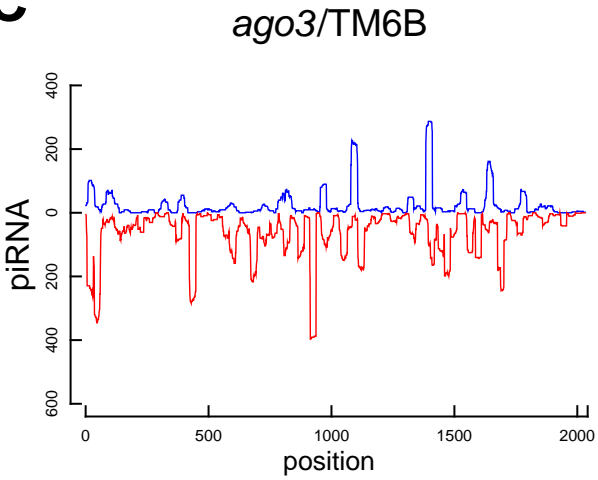
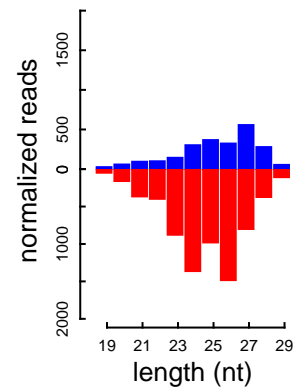
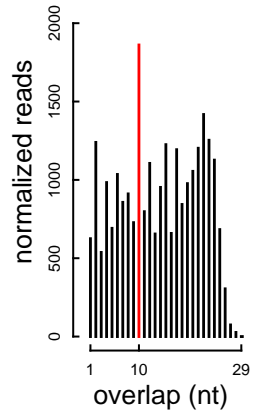
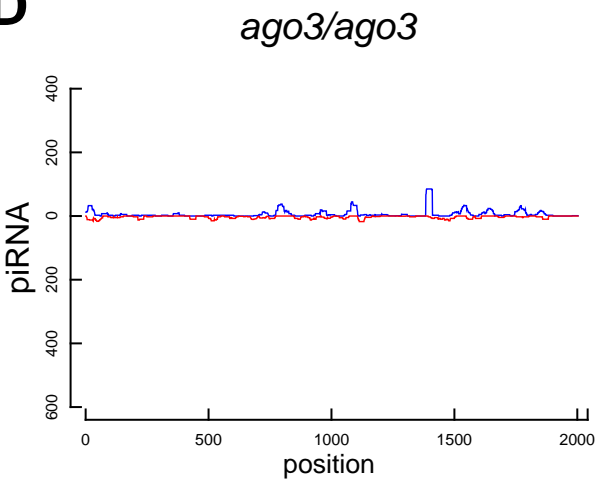
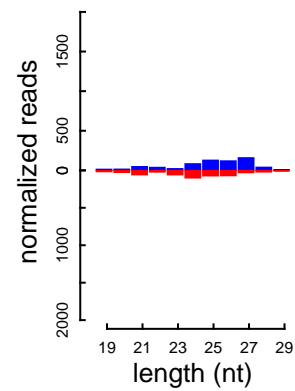
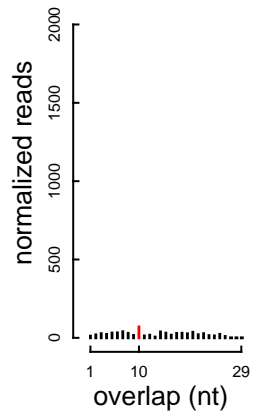
F



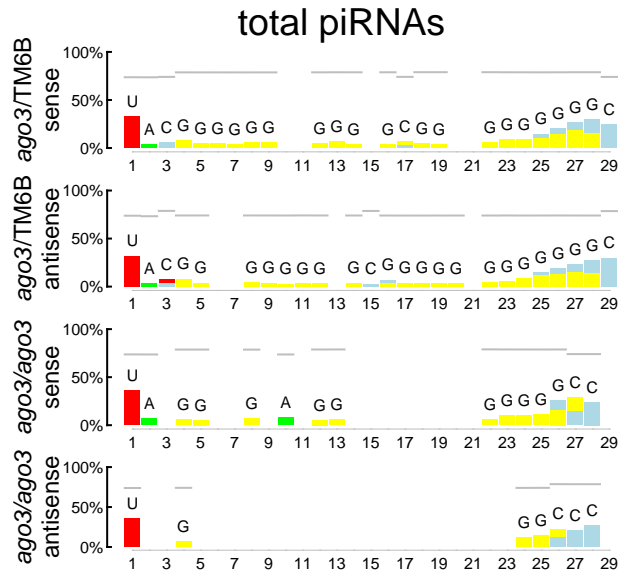
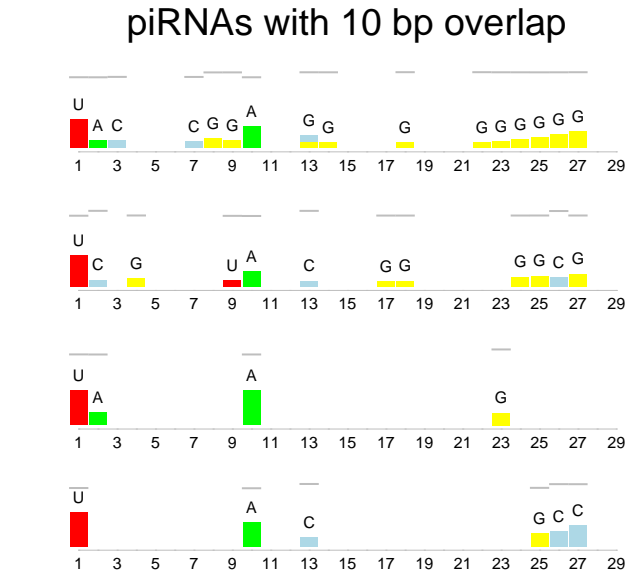
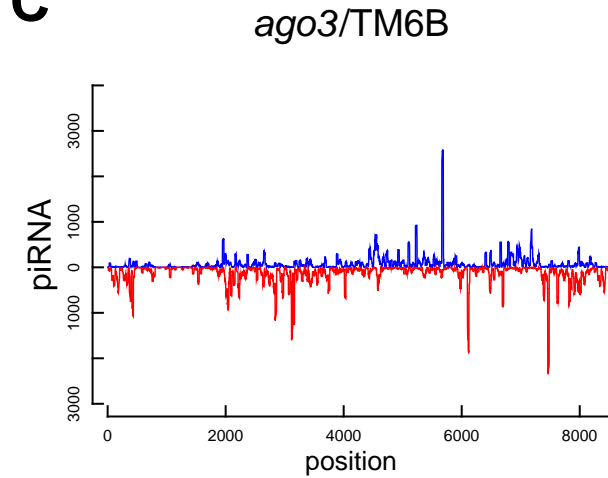
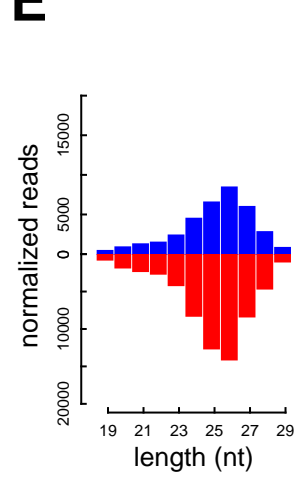
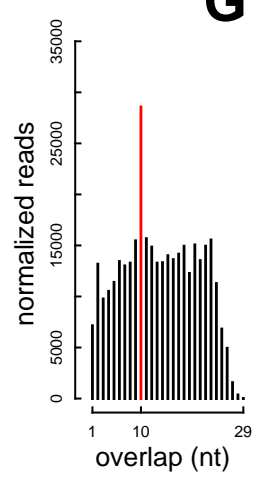
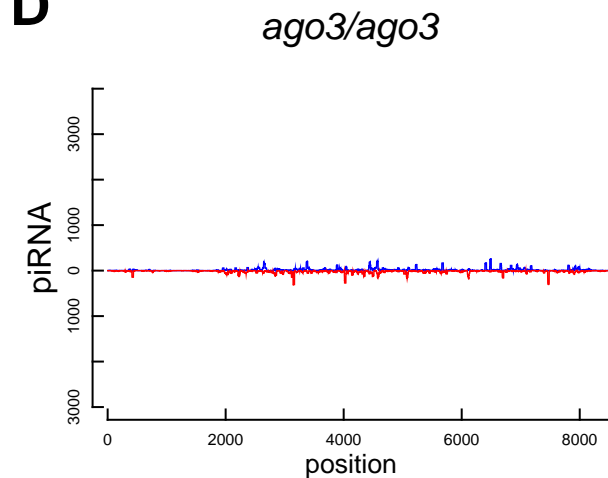
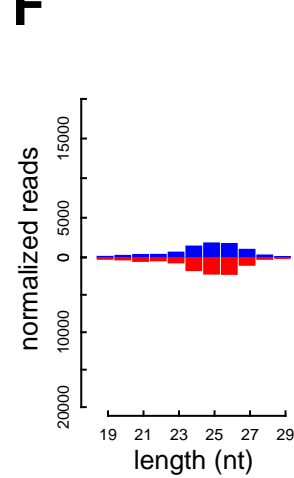
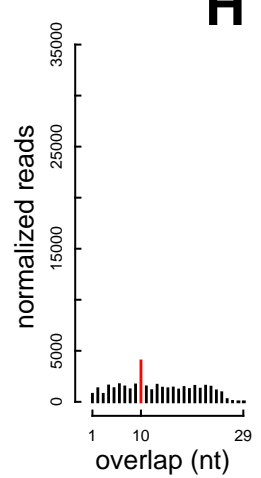
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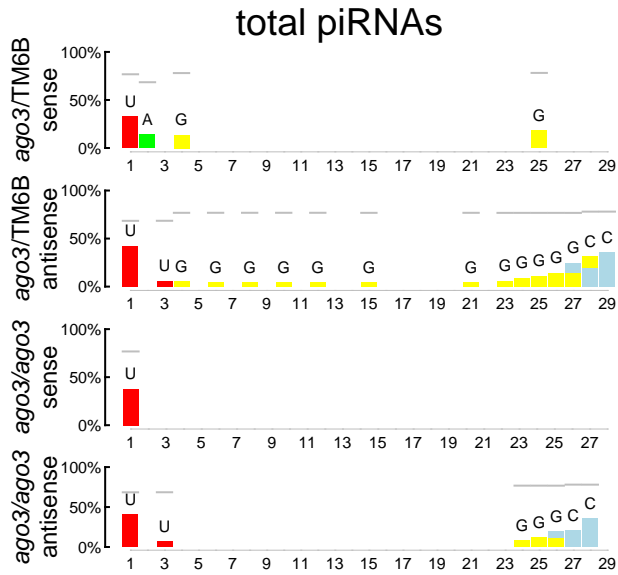
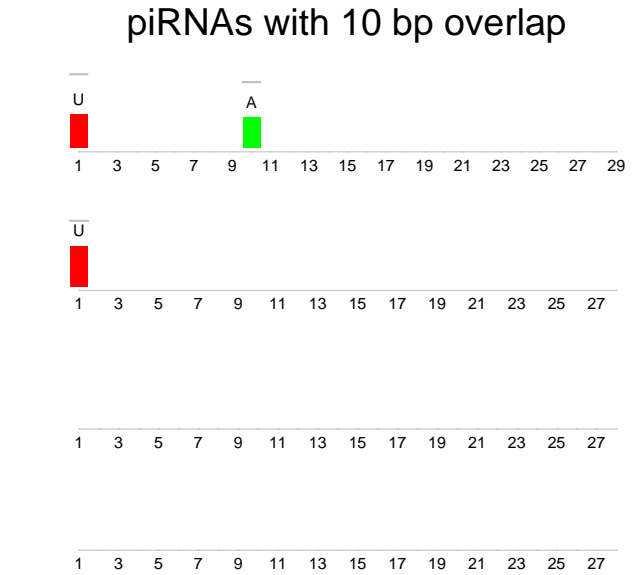
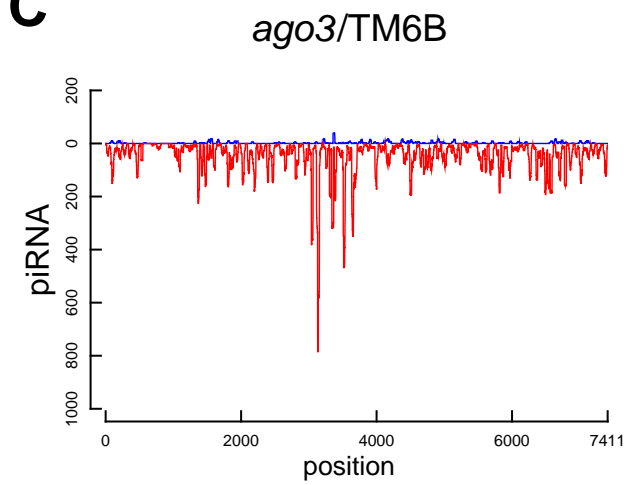
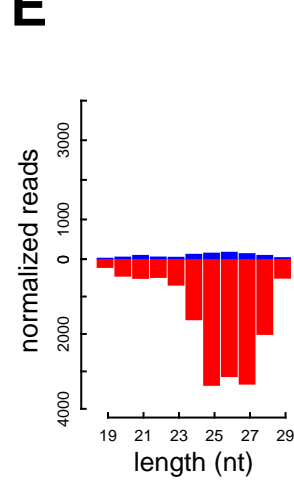
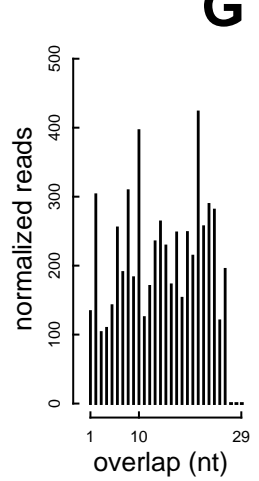
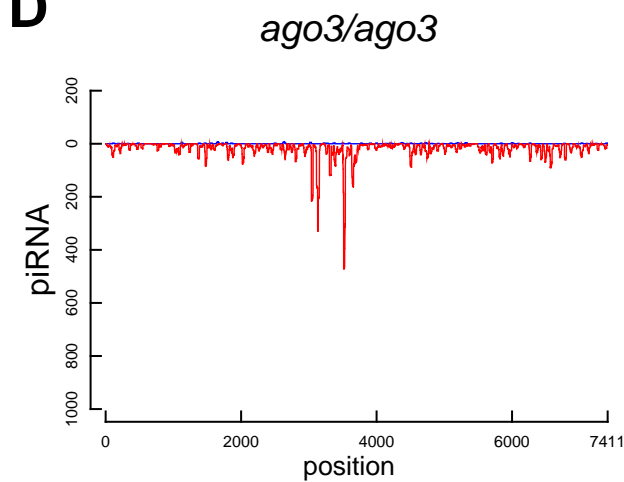
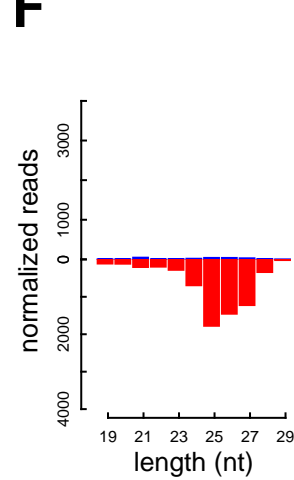
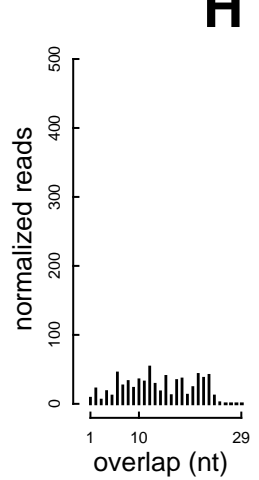
G6

A**B****C****E****G****D****F****H**

GATE

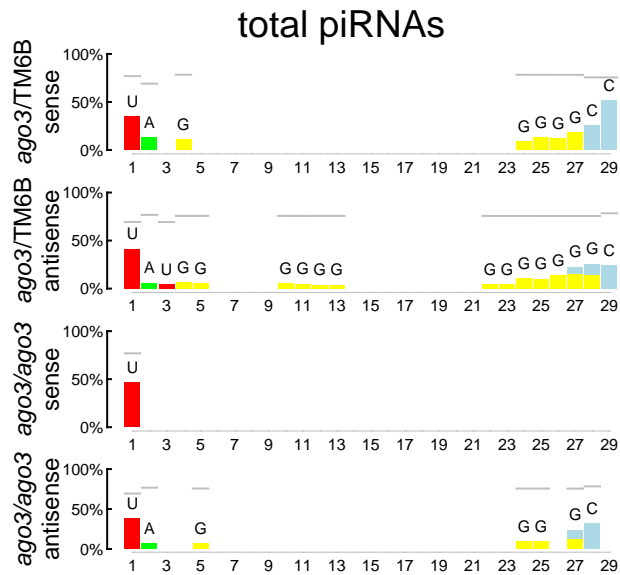
A**B****C****E****G****D****F****H**

gtwin

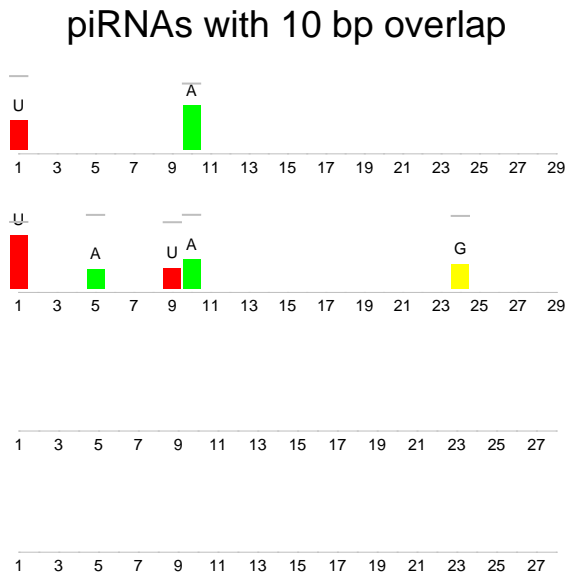
A**B****C****E****G****D****F****H**

gypsy

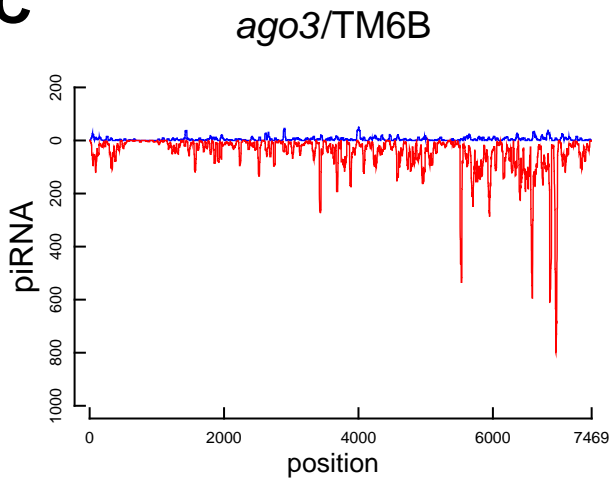
A



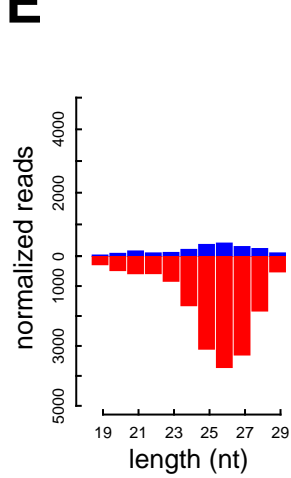
B



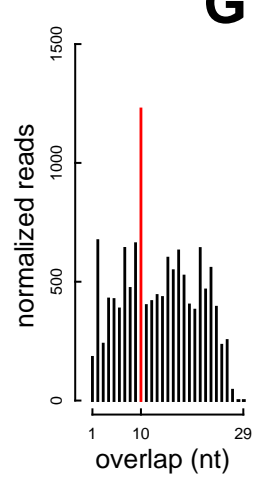
C



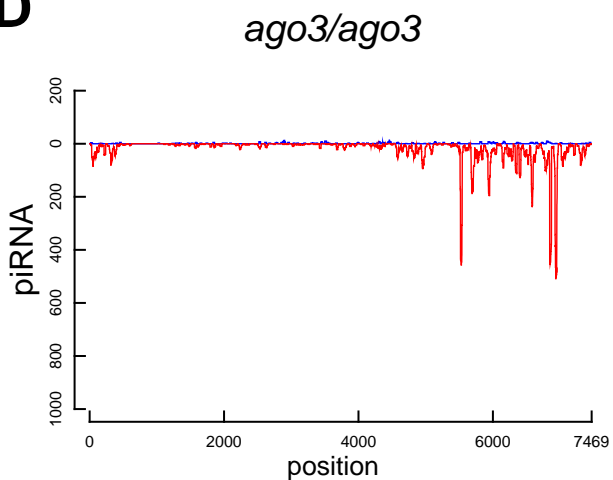
E



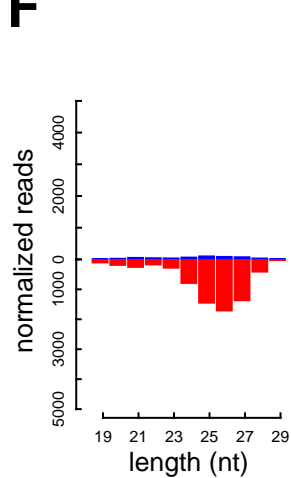
G



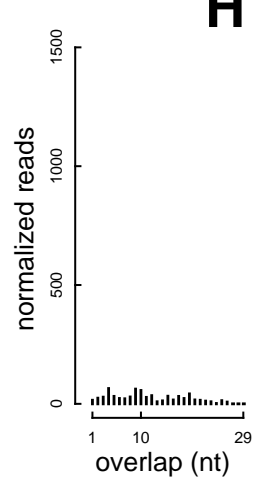
D



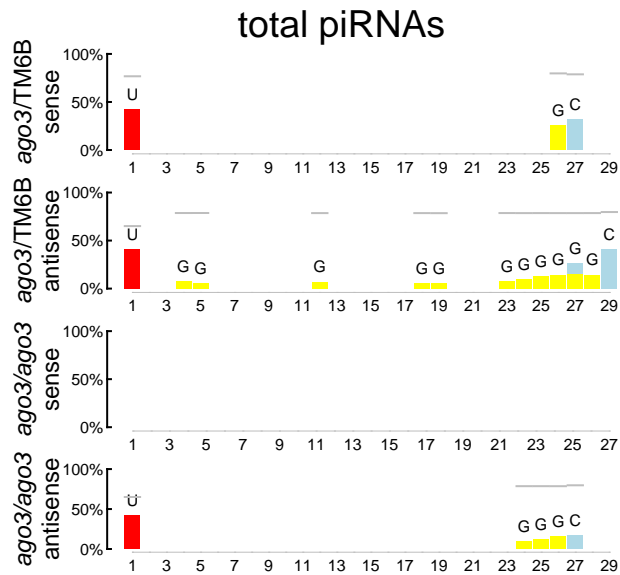
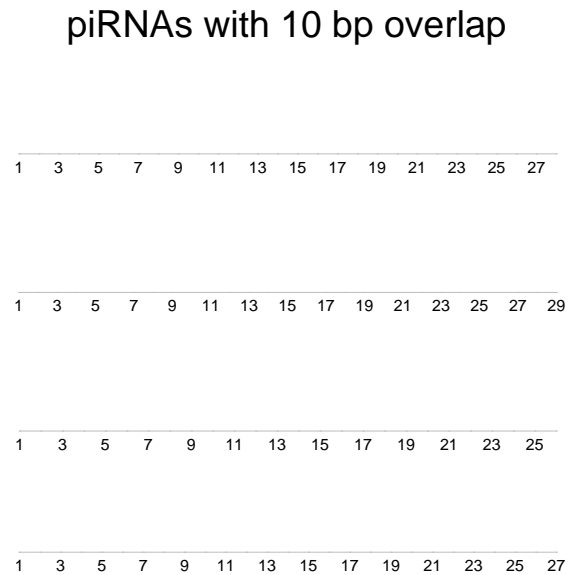
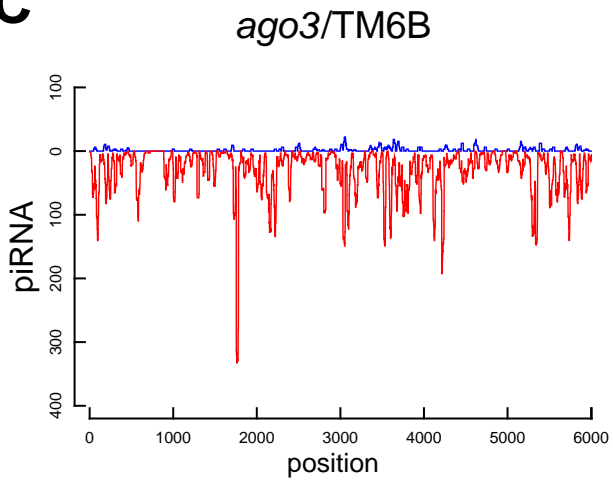
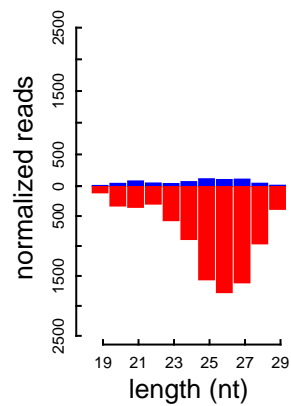
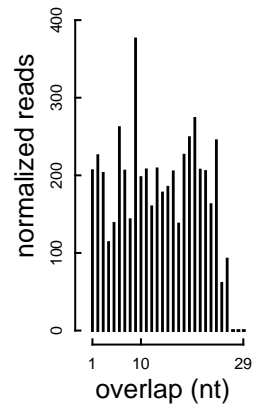
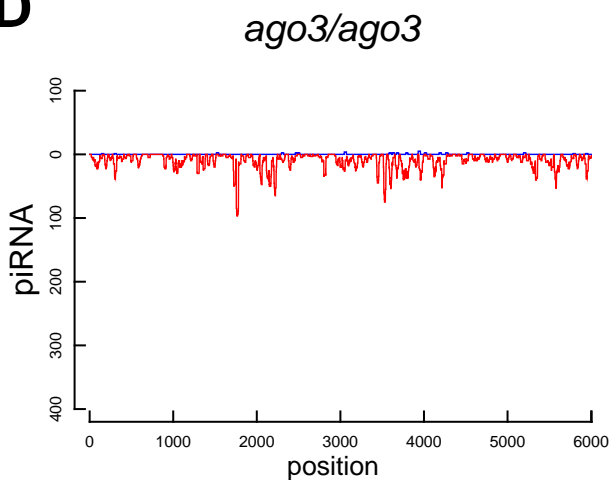
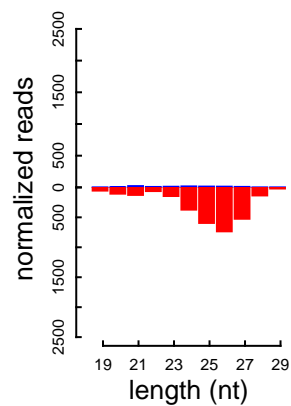
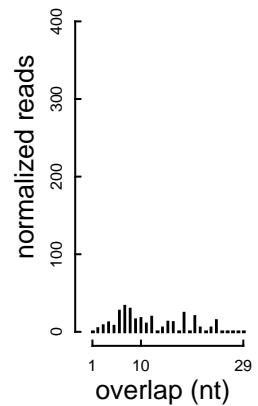
F



H

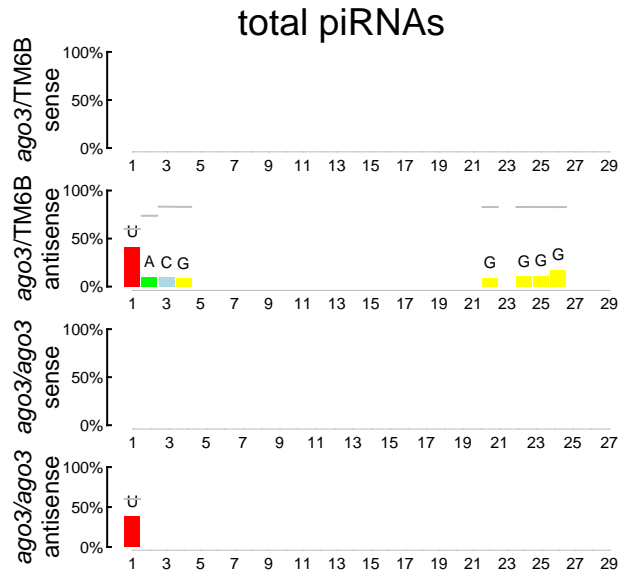


gypsy10

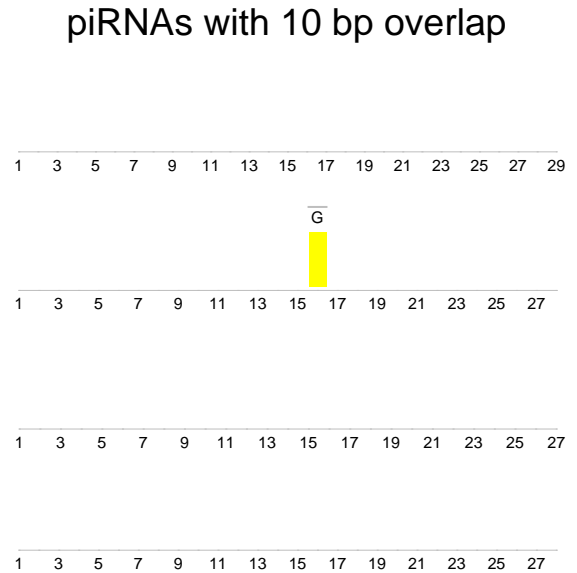
A**B****C****E****G****D****F****H**

gypsy11

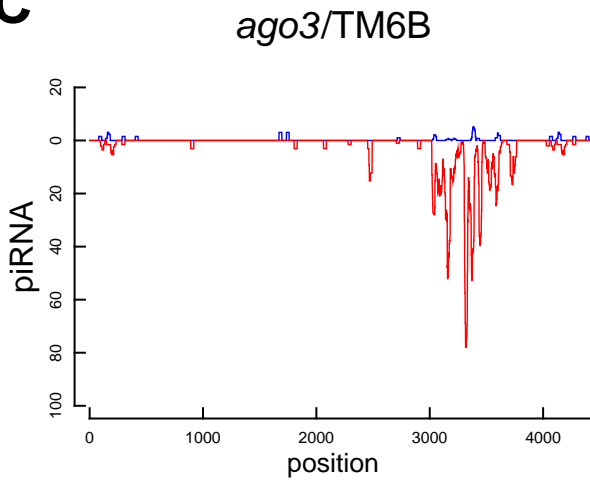
A



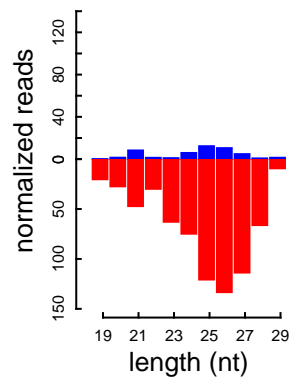
B



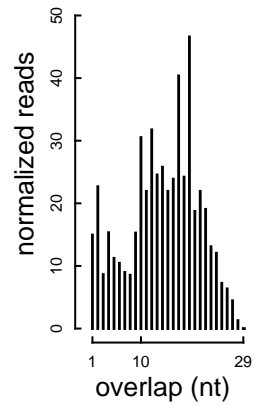
C



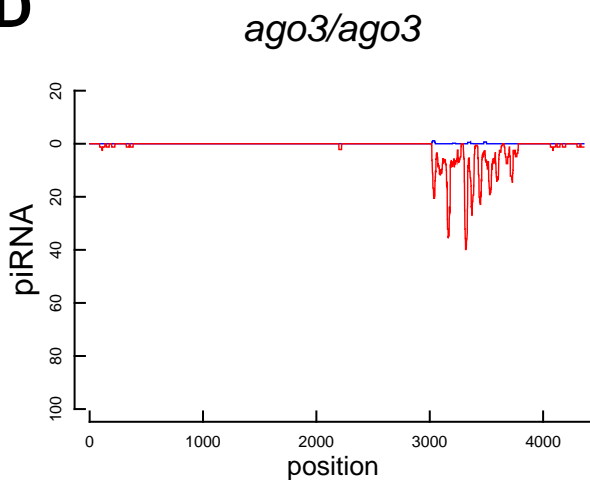
E



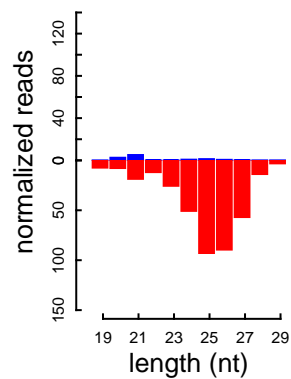
G



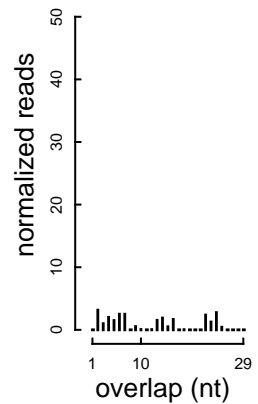
D



F

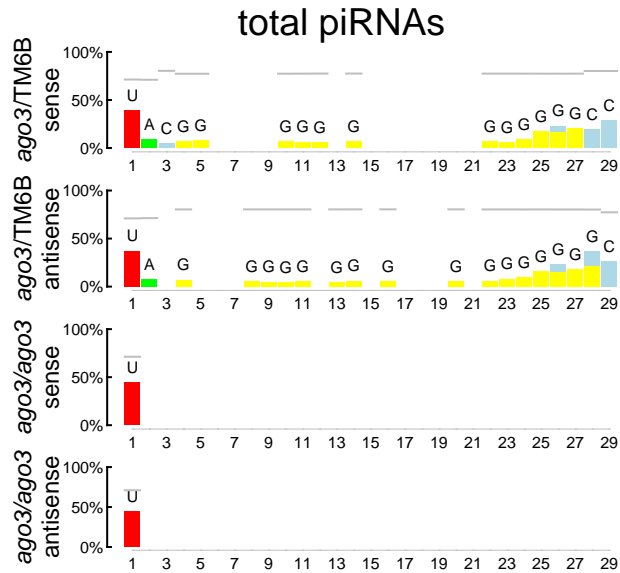


H

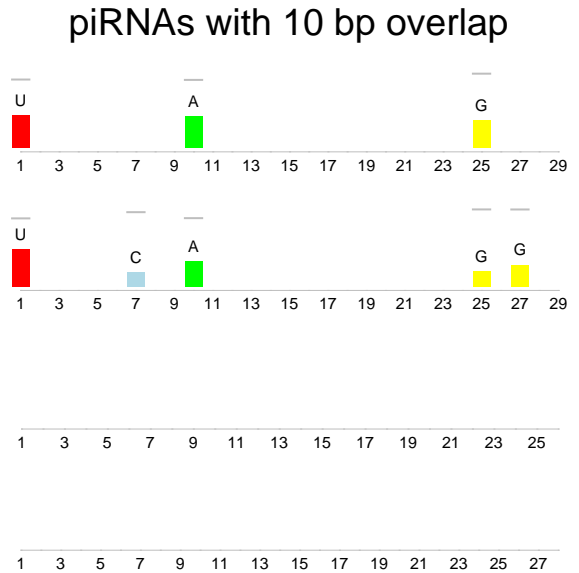


gypsy12

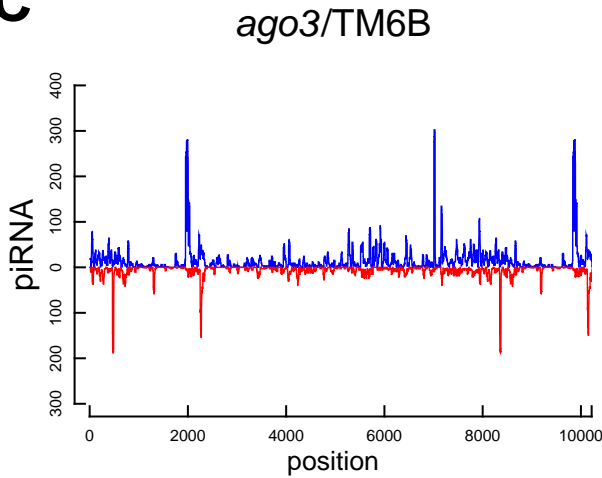
A



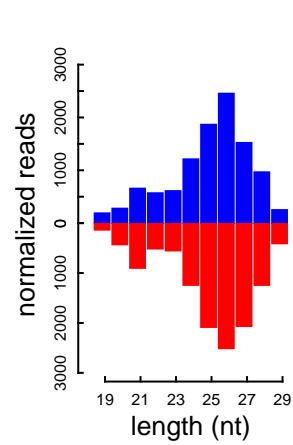
B



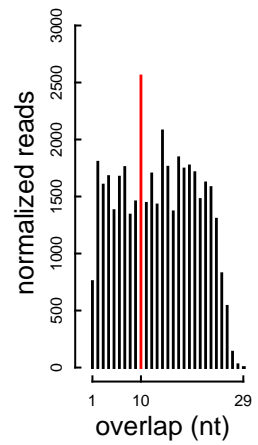
C



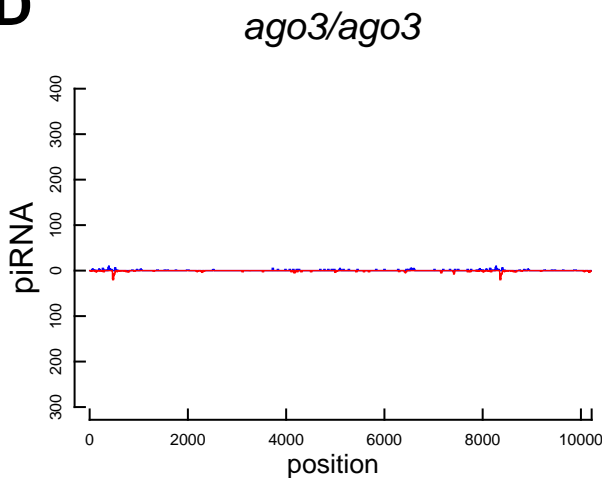
E



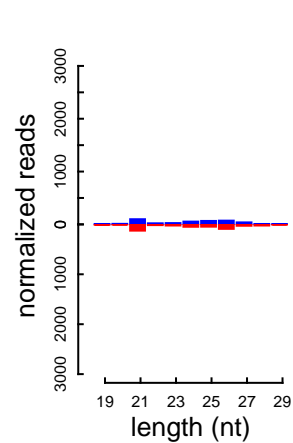
G



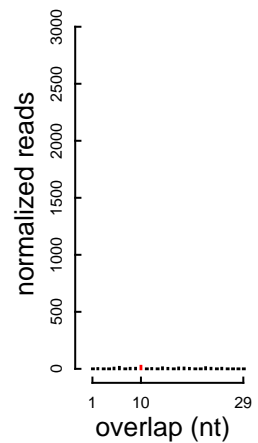
D



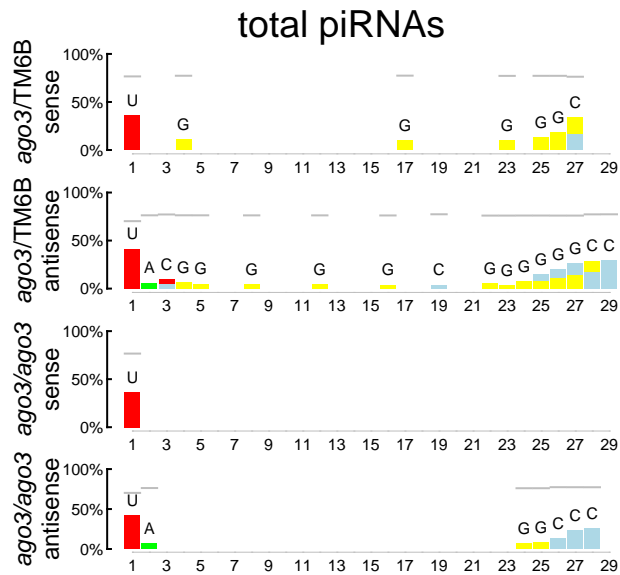
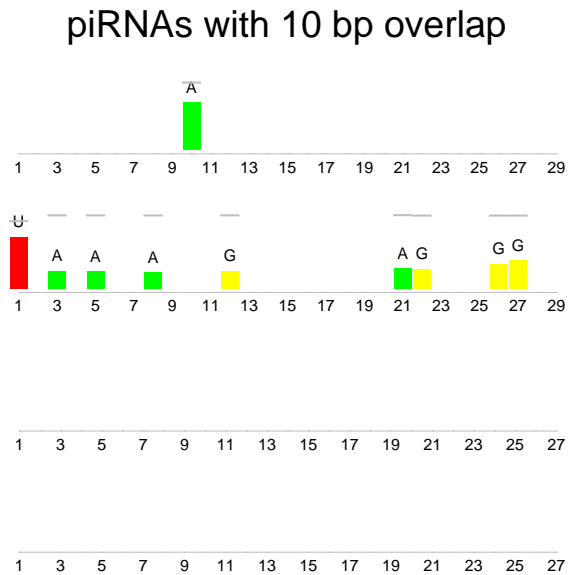
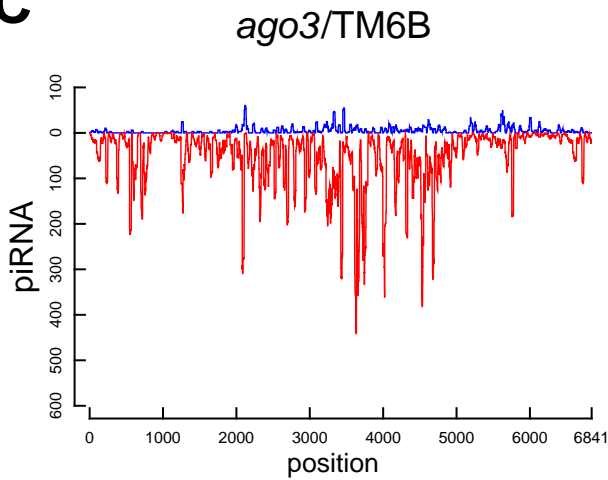
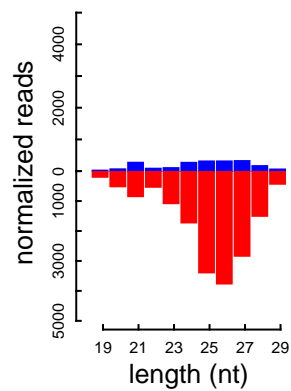
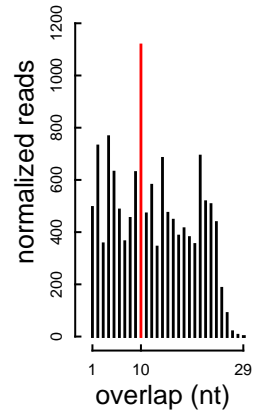
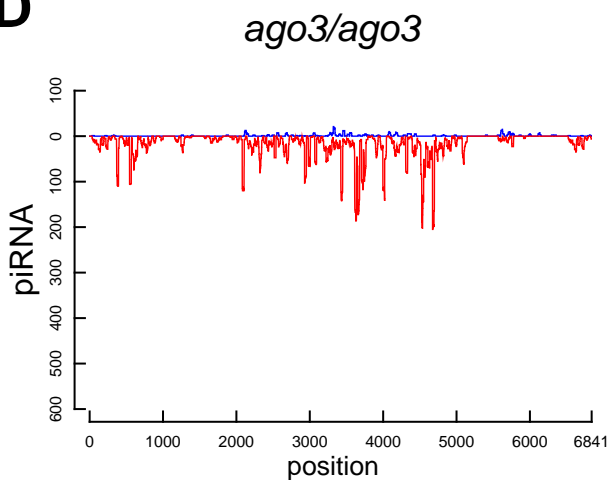
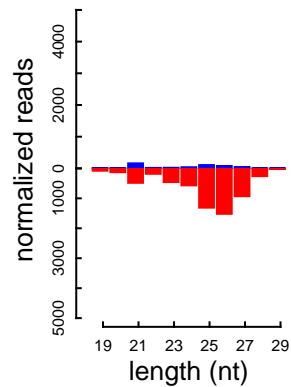
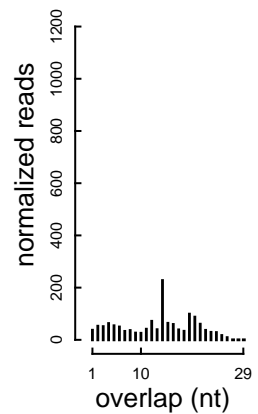
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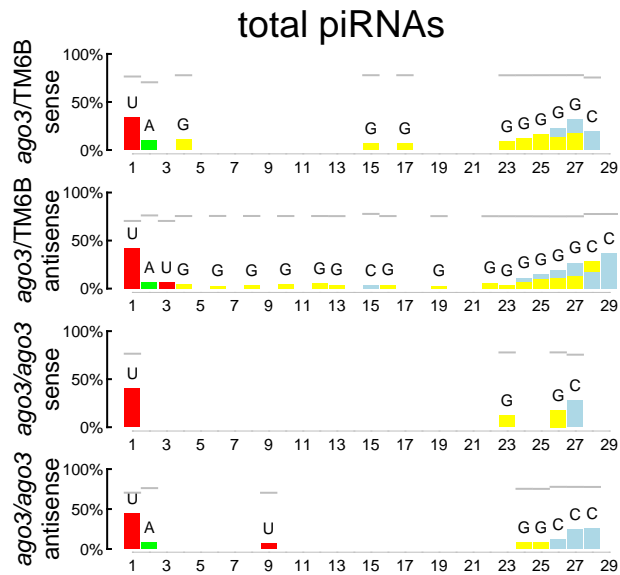
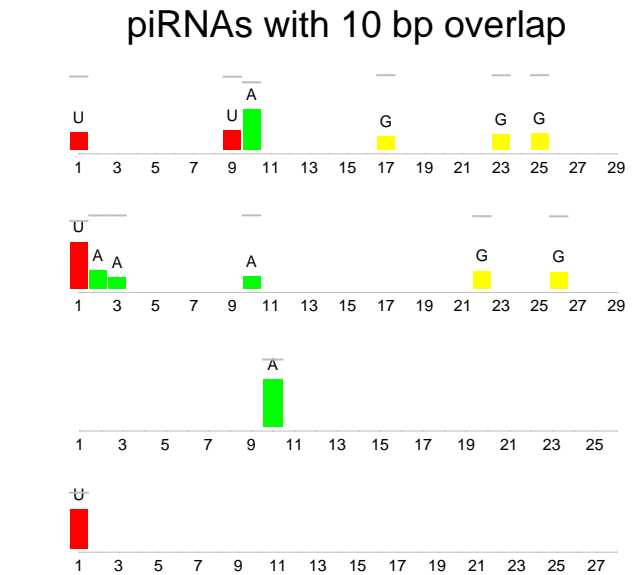
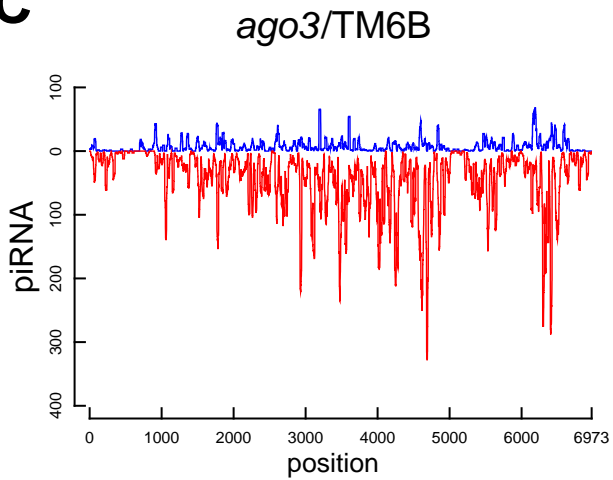
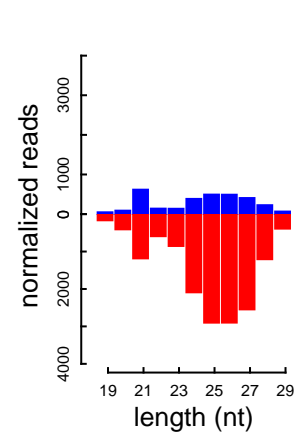
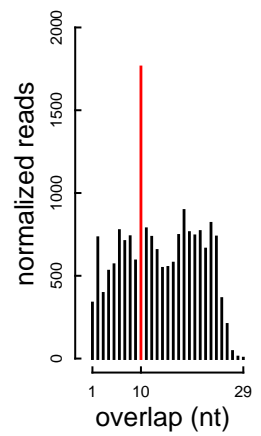
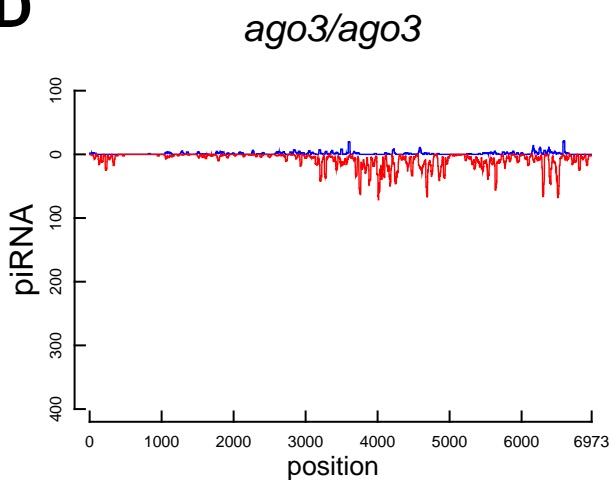
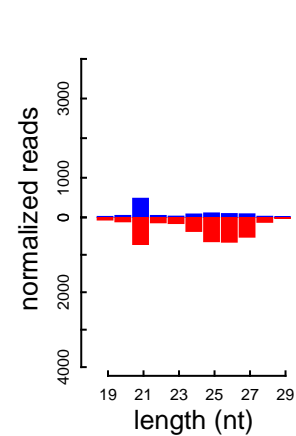
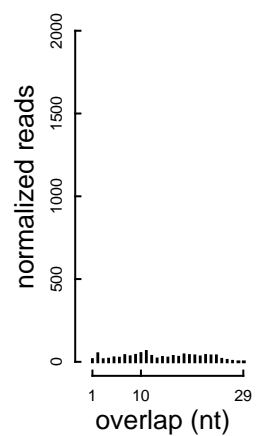
H



gypsy2

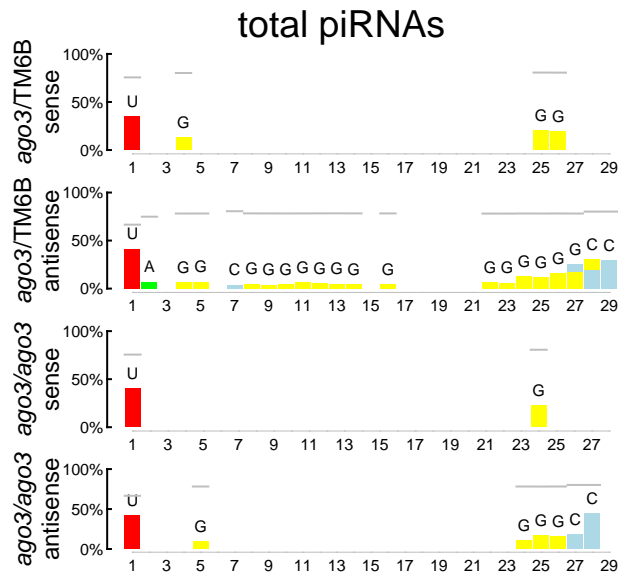
A**B****C****E****G****D****F****H**

gypsy3

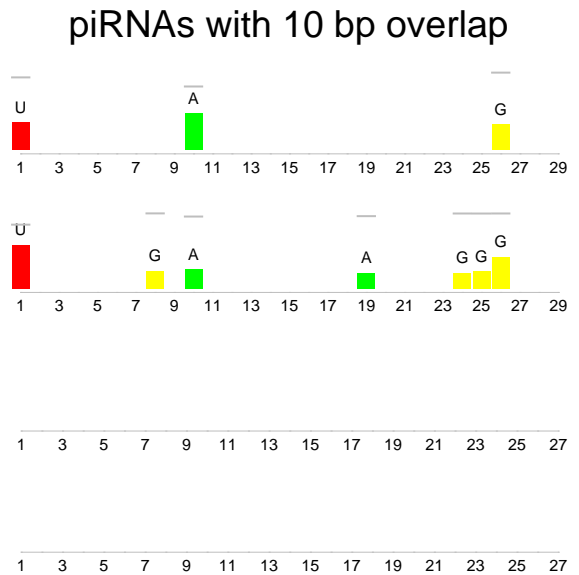
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gypsy4

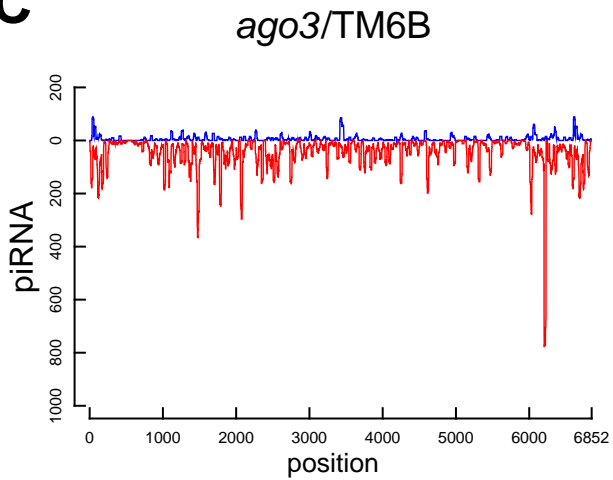
A



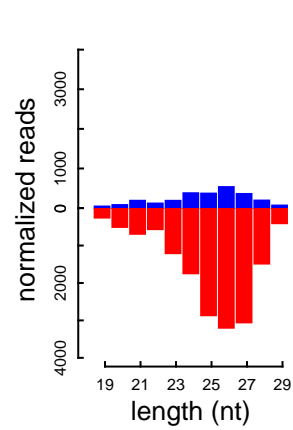
B



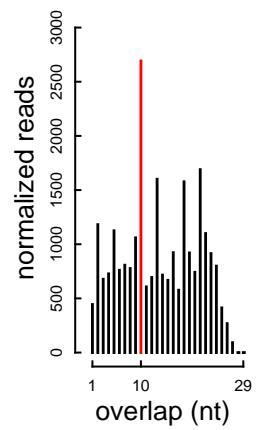
C



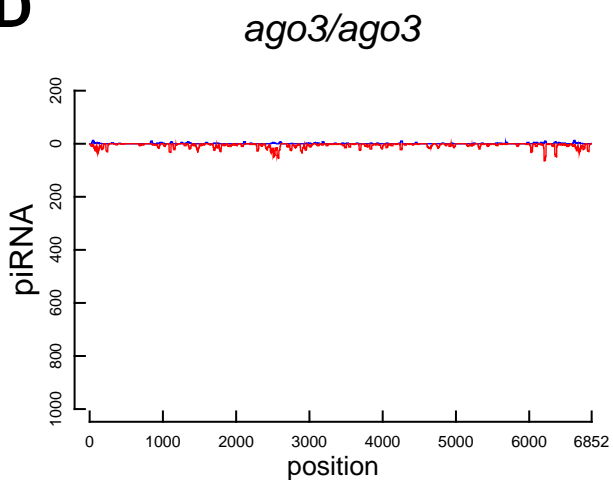
E



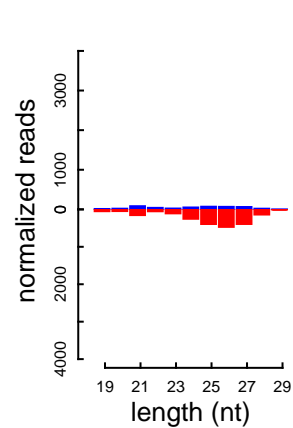
G



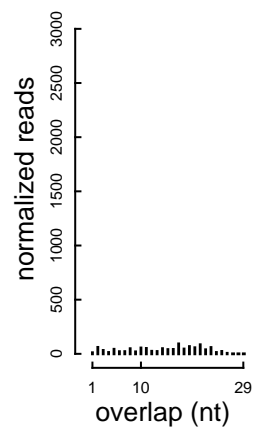
D



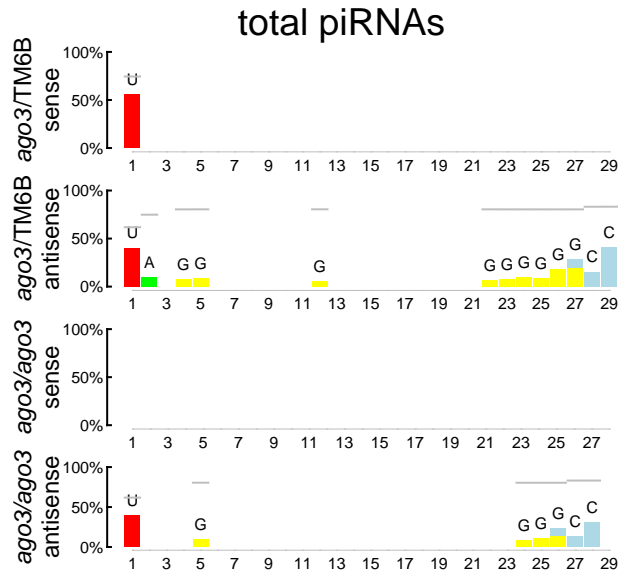
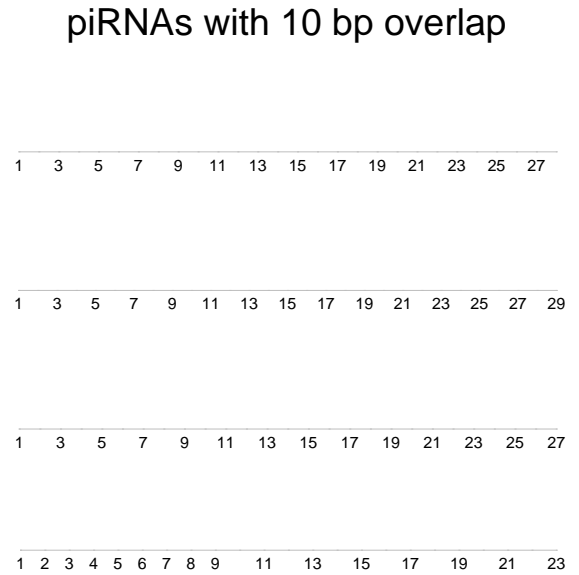
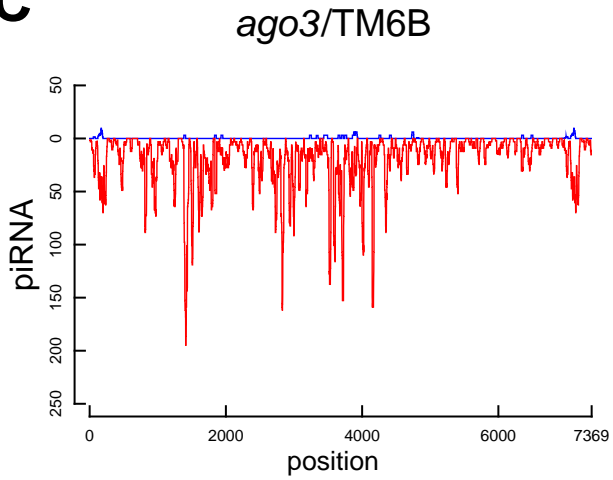
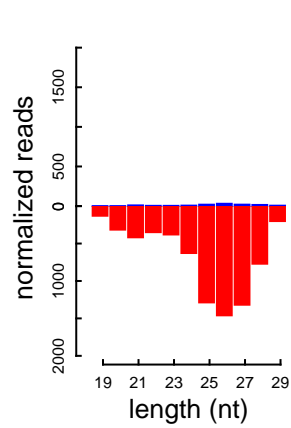
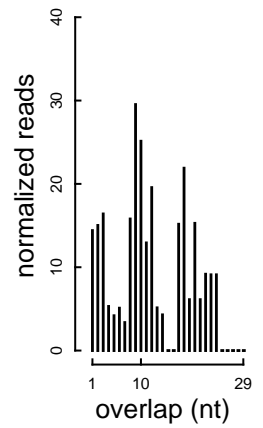
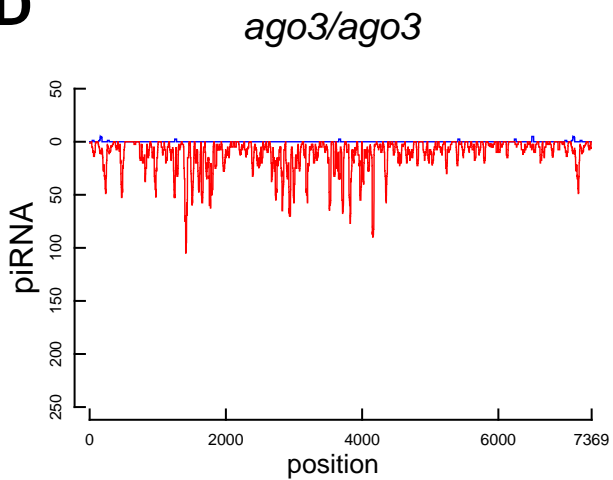
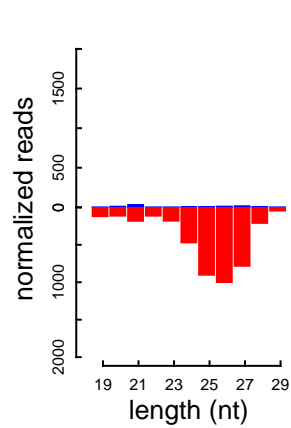
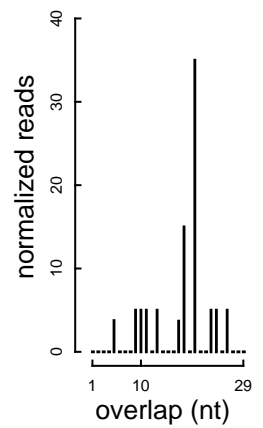
F



H

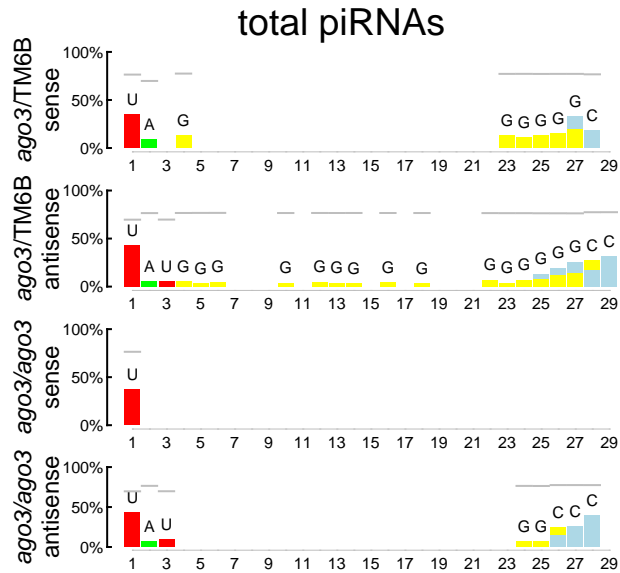


gypsy5

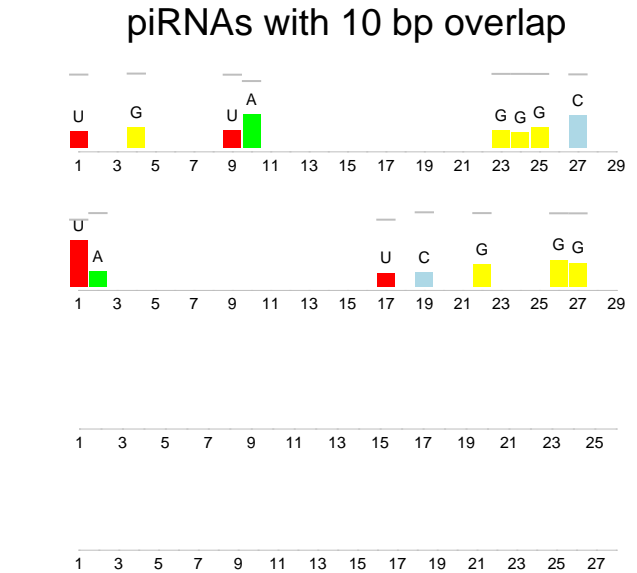
A**B****C****E****G****D****F****H**

gypsy6

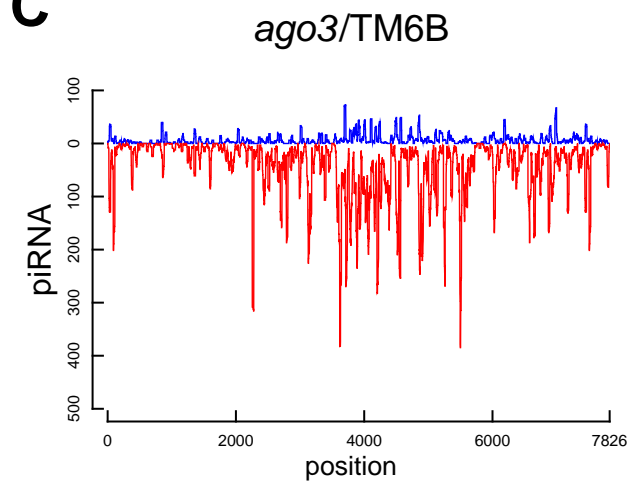
A



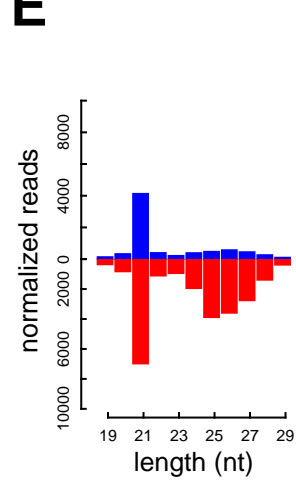
B



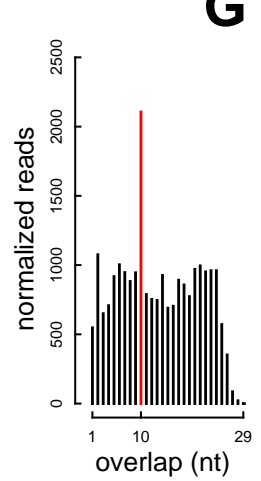
C



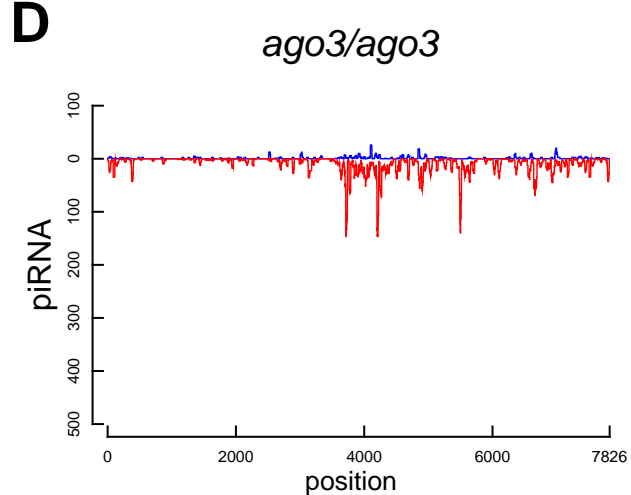
E



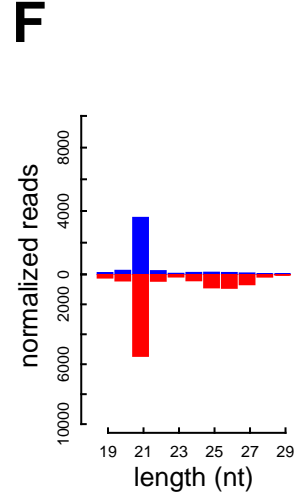
G



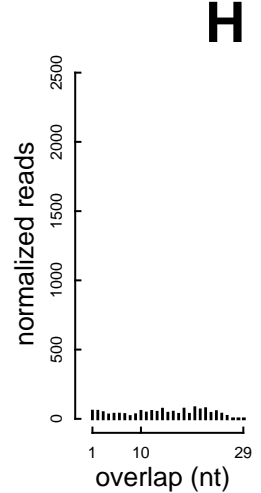
D



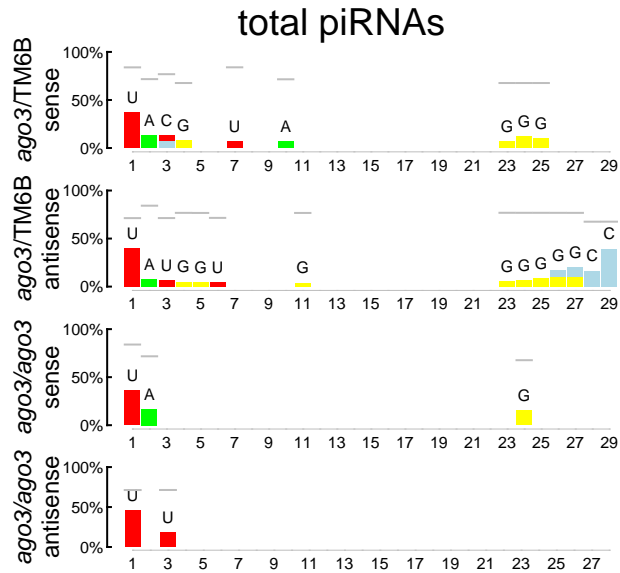
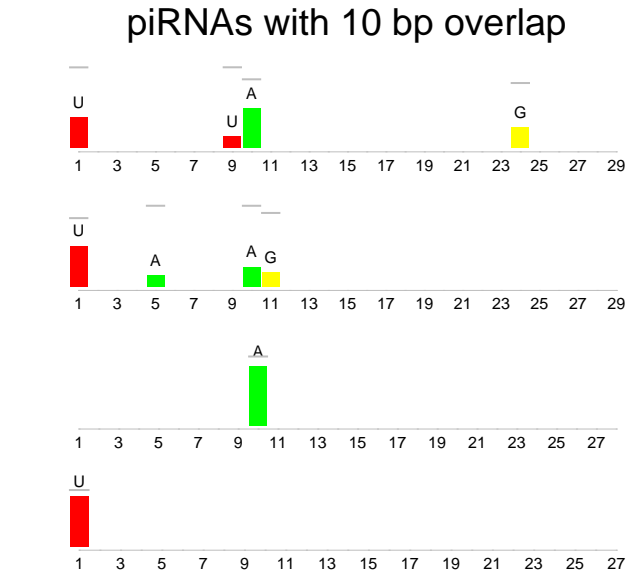
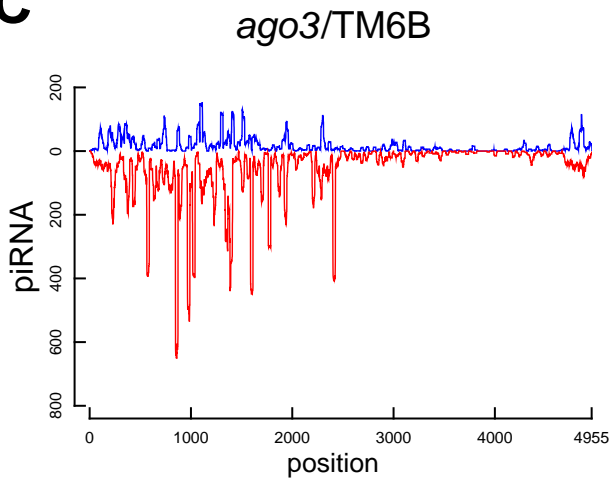
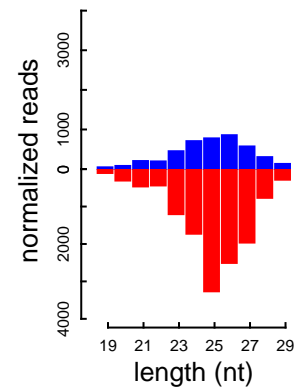
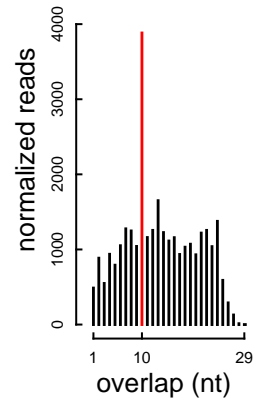
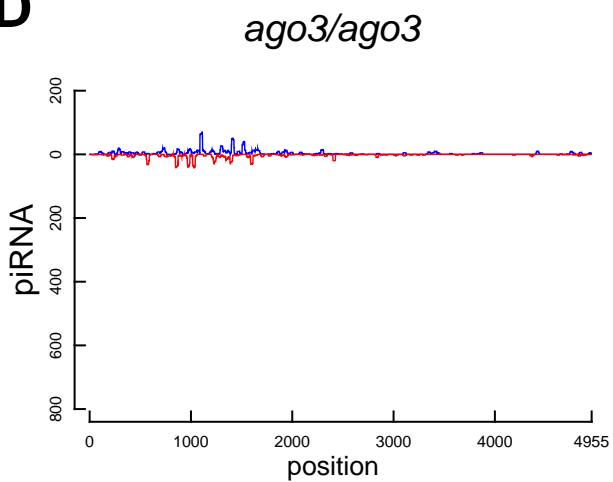
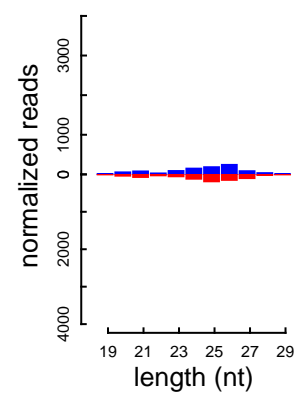
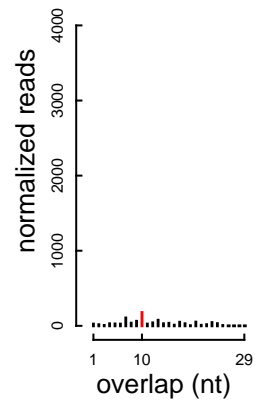
F



H

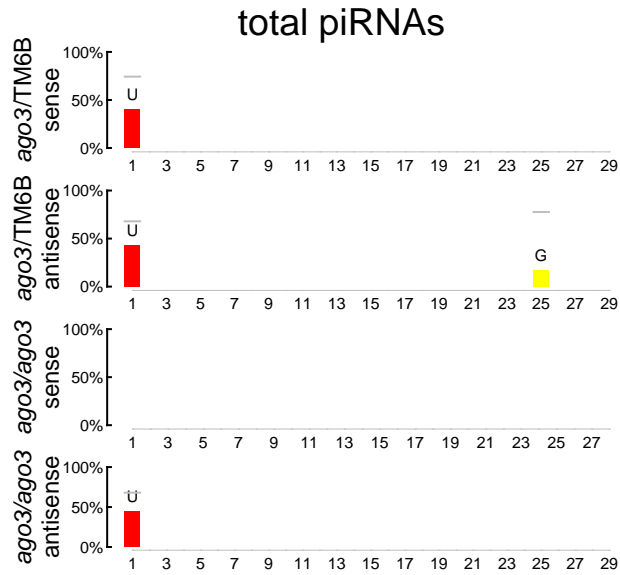


gypsy8

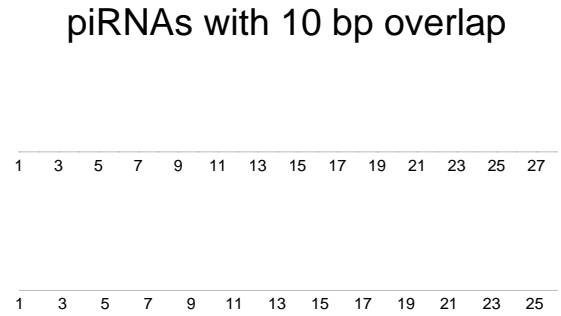
A**B****C****E****G****D****F****H**

Helena

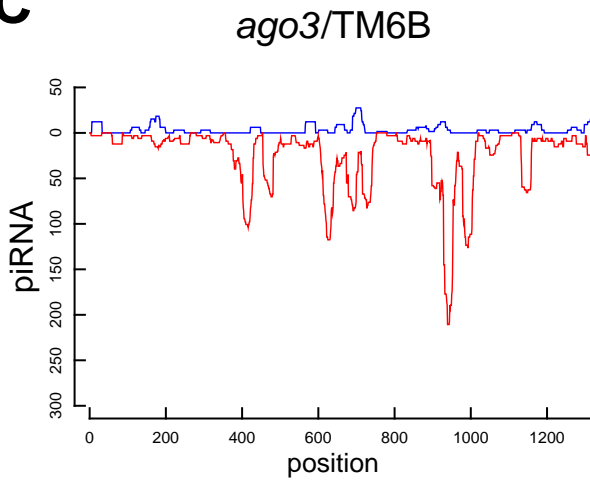
A



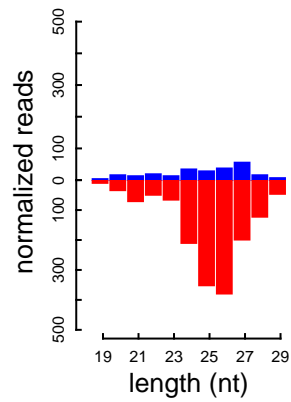
B



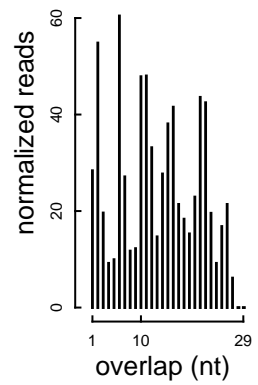
C



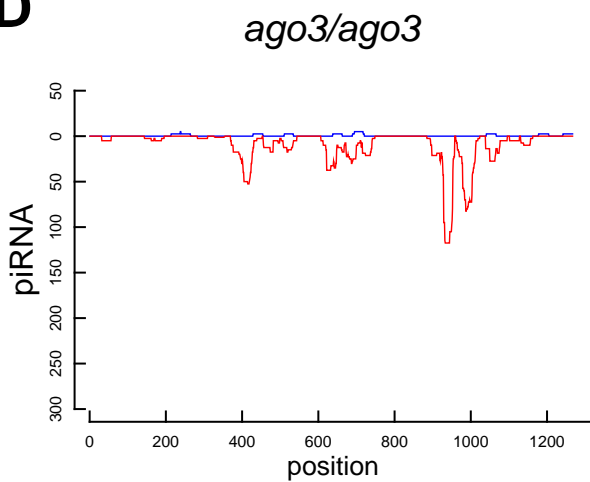
E



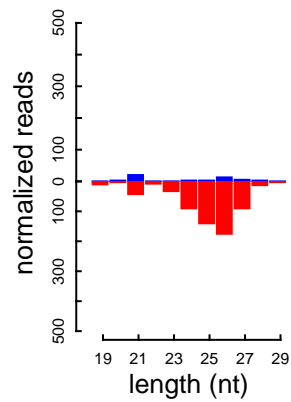
G



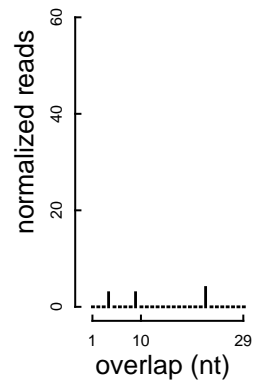
D



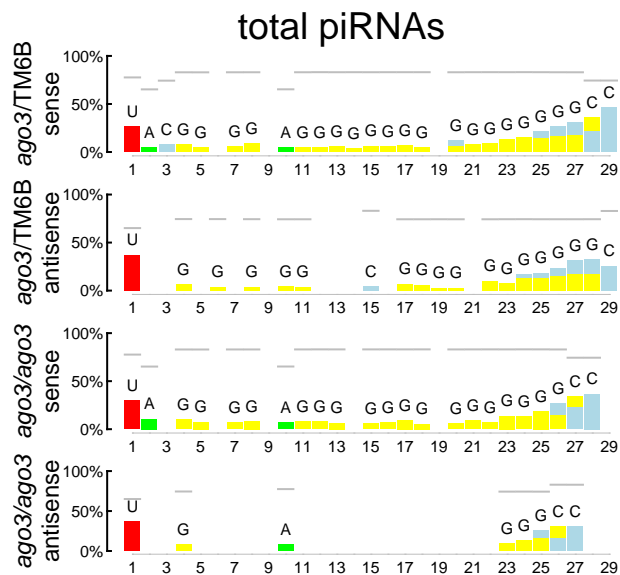
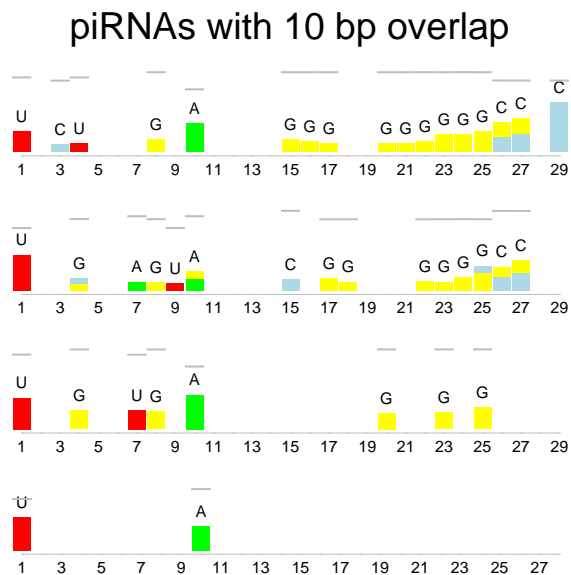
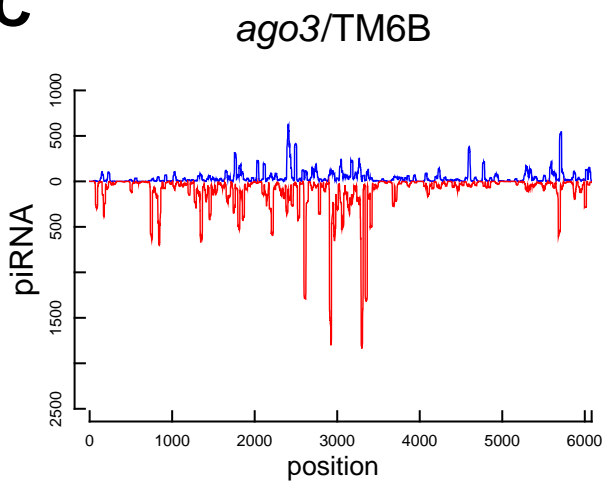
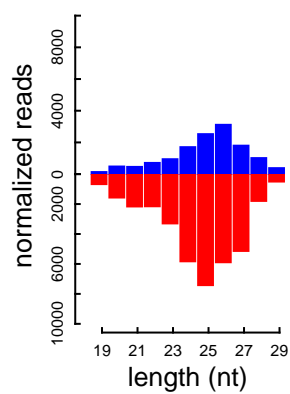
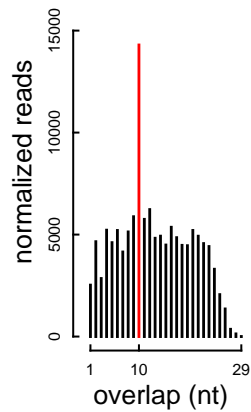
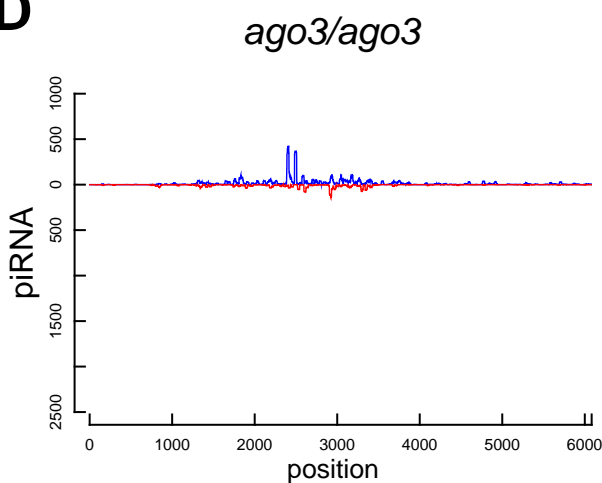
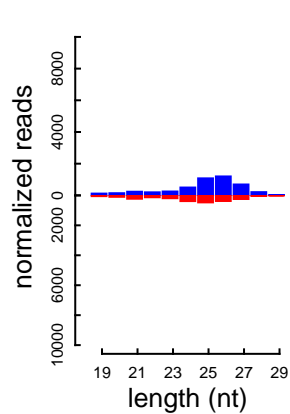
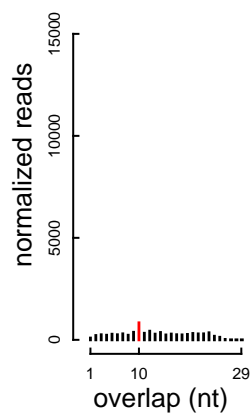
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H

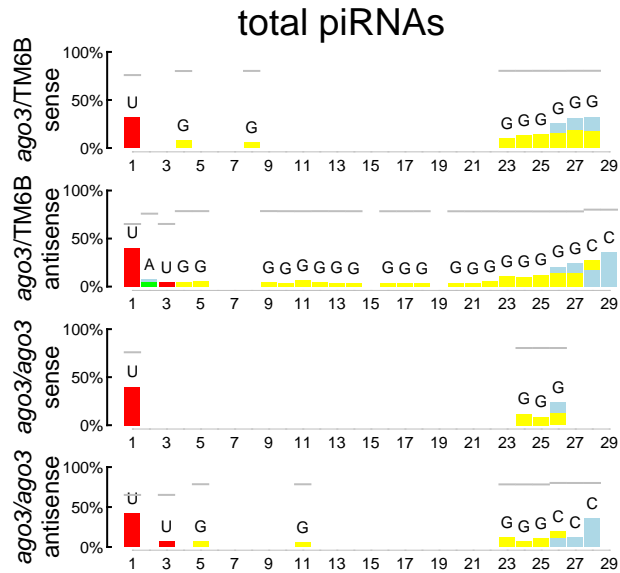


HeT A

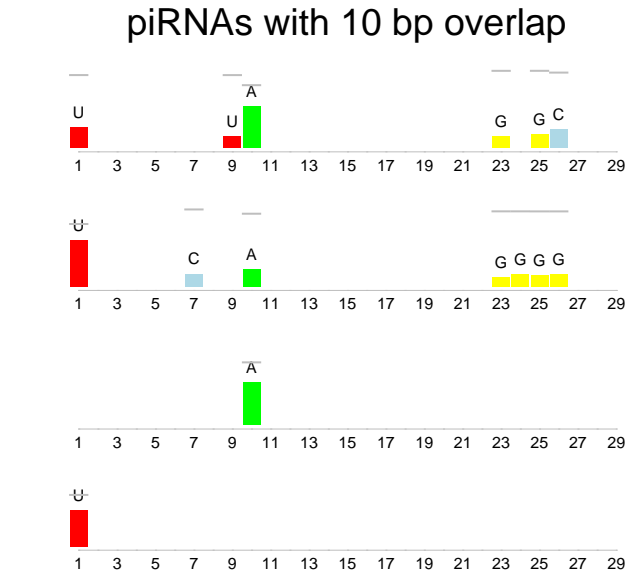
A**B****C****E****G****D****F****H**

HMS Beagle

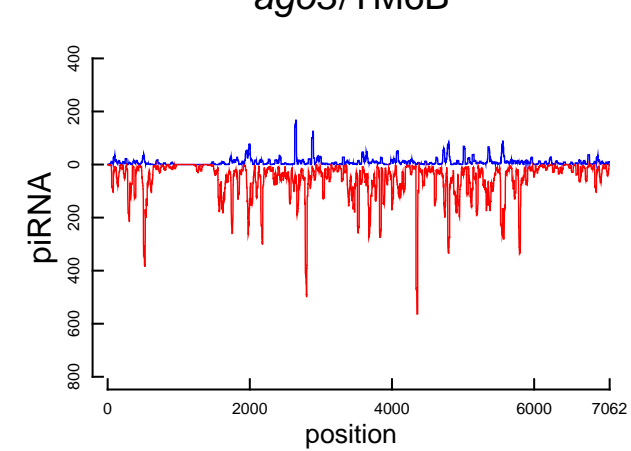
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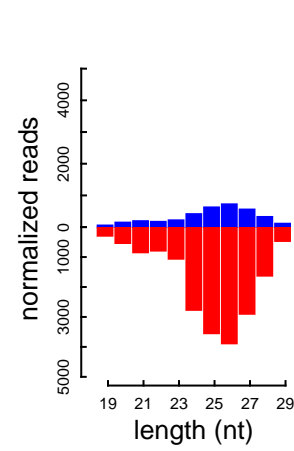
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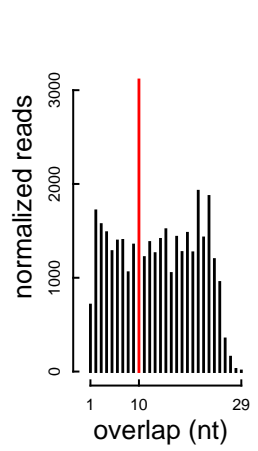
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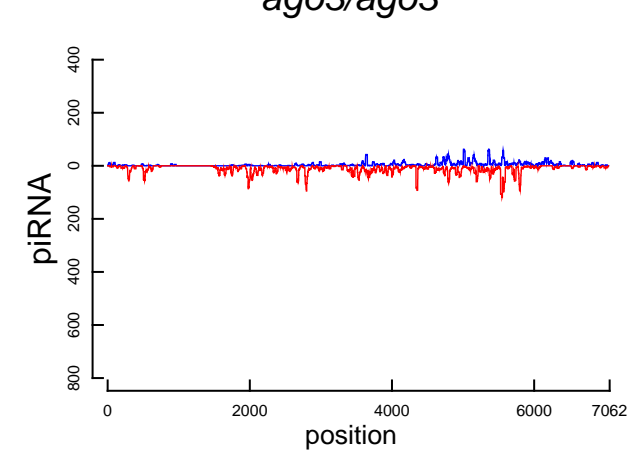
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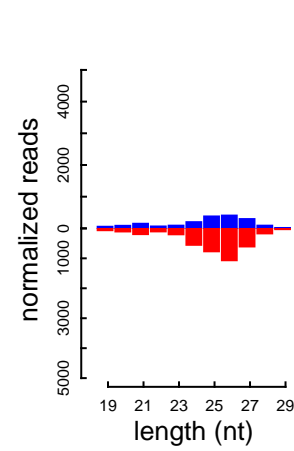
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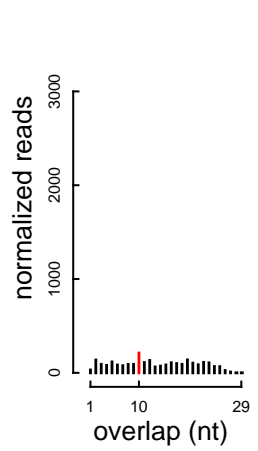
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F

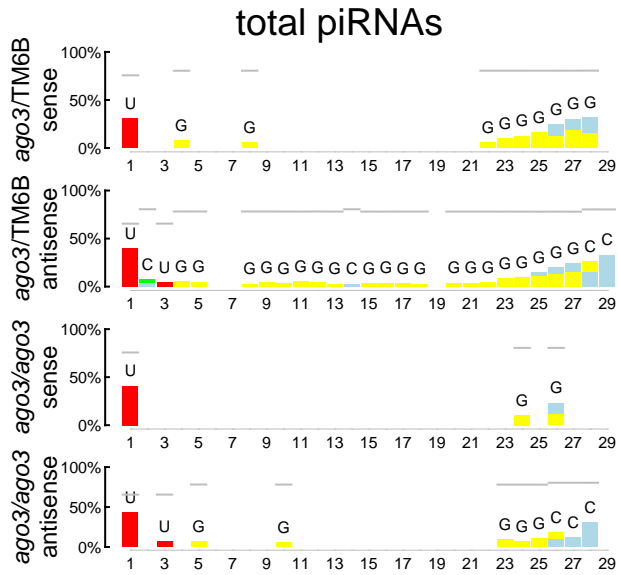


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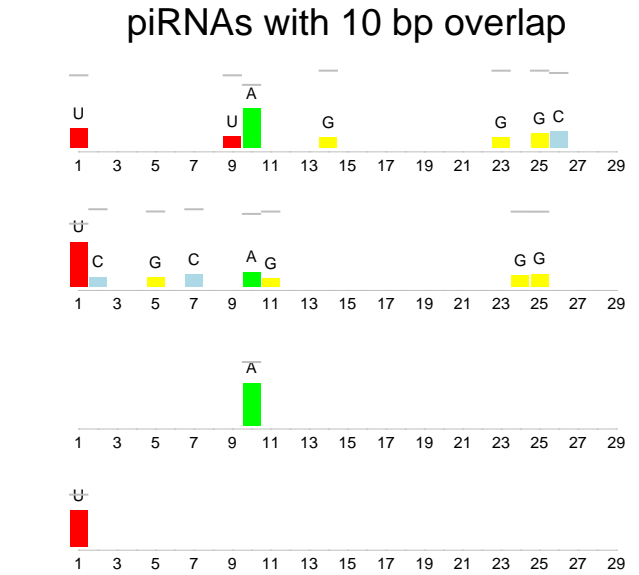


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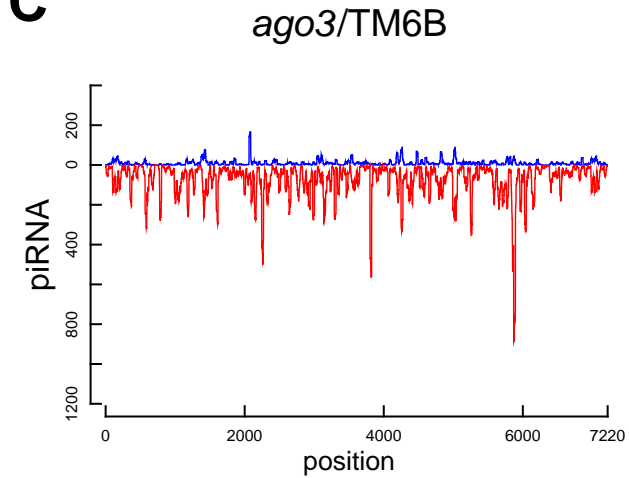
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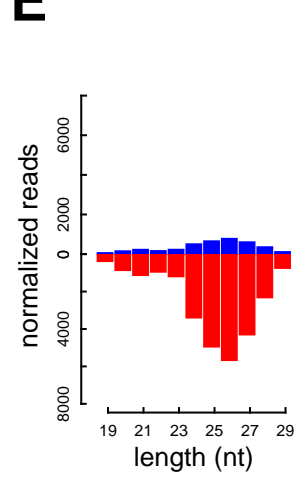
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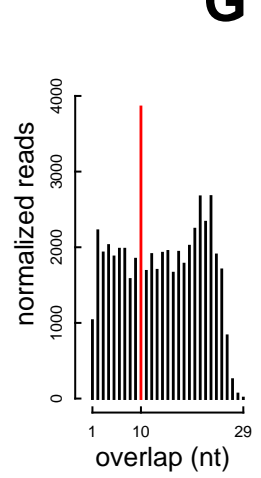
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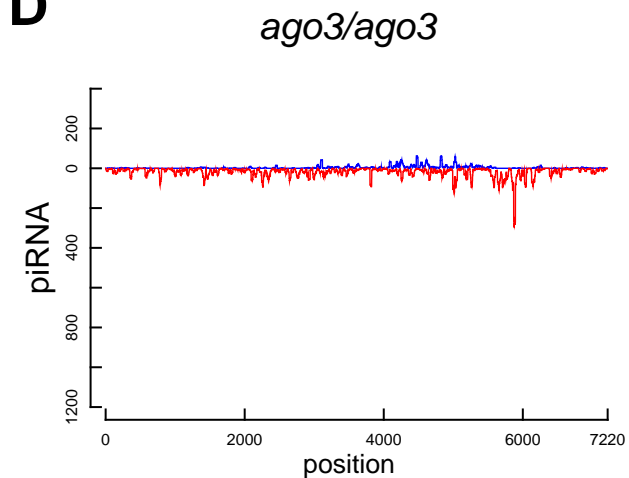
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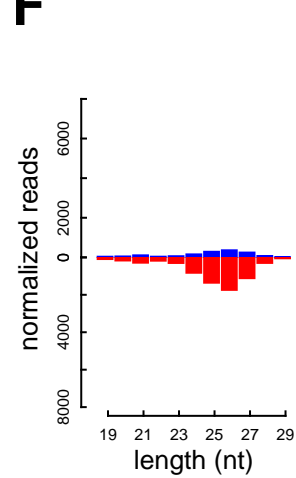
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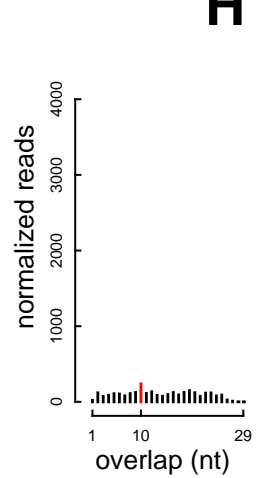
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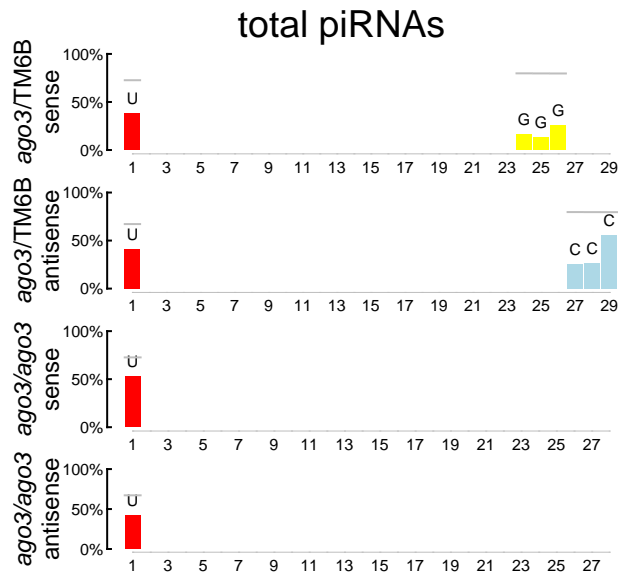
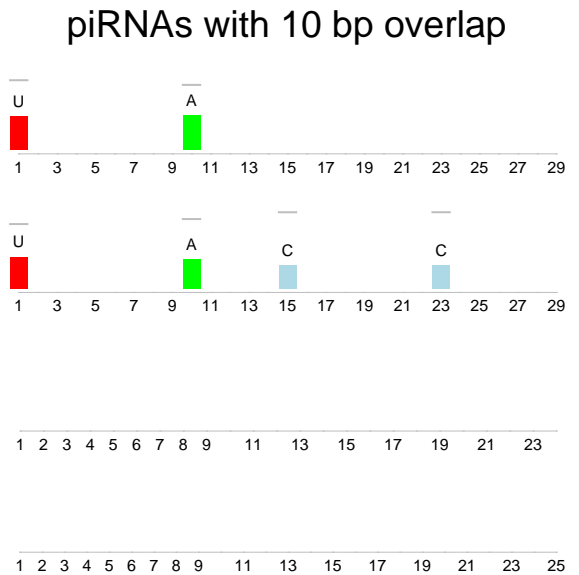
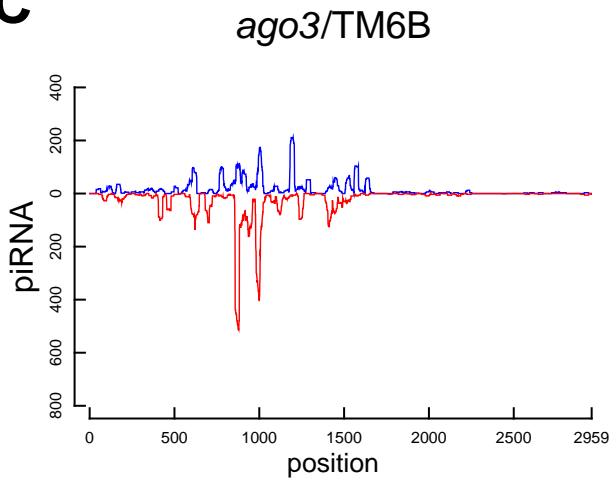
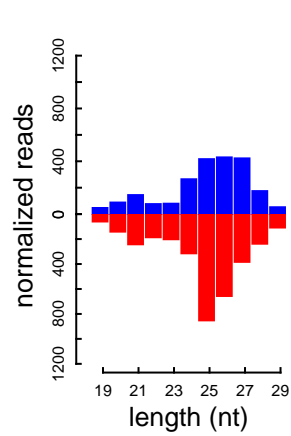
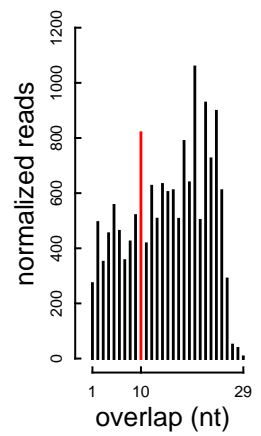
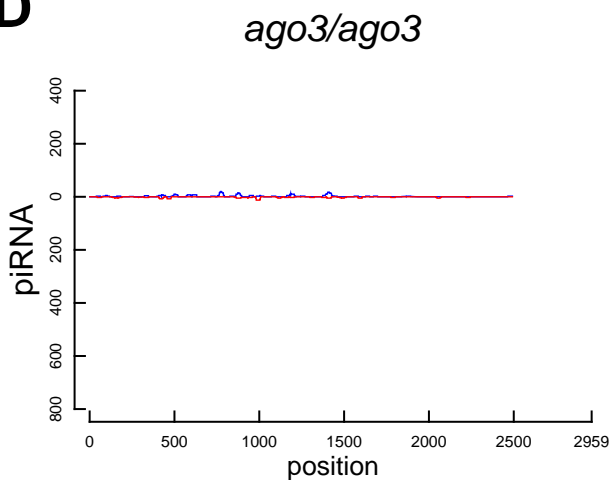
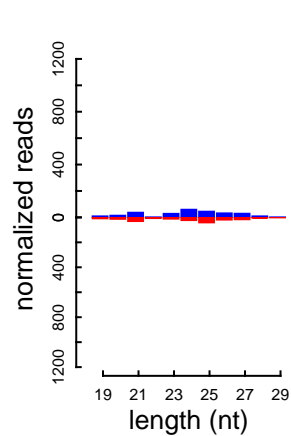
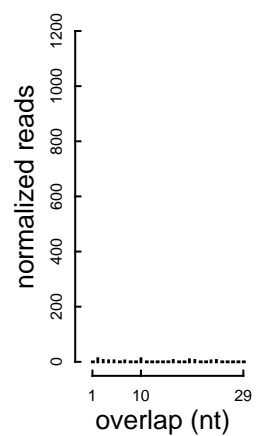
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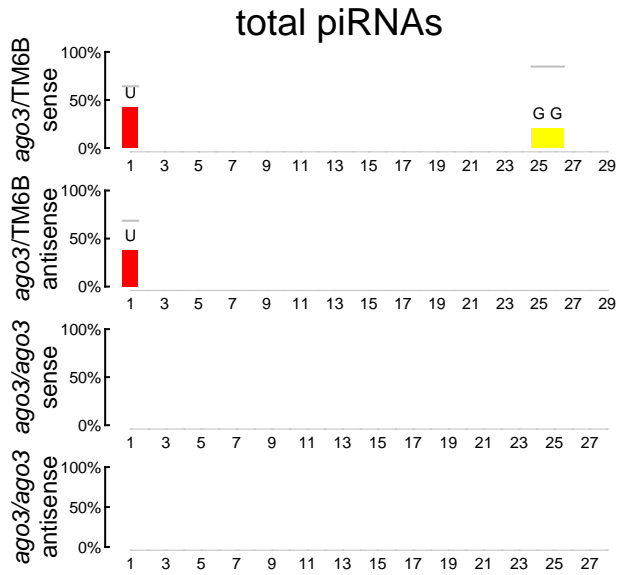


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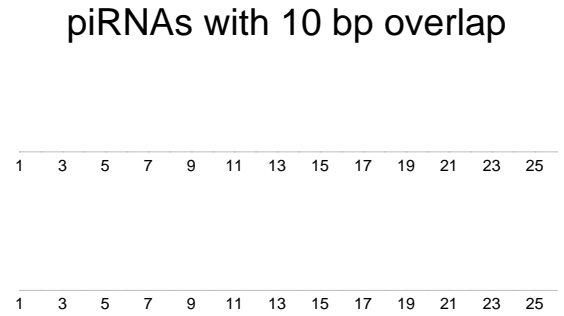
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hopper

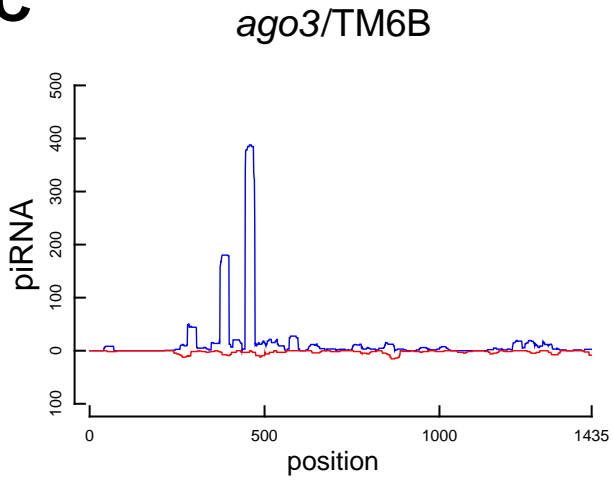
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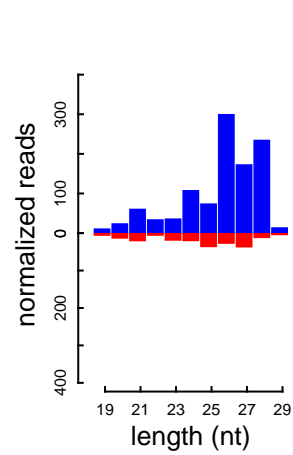
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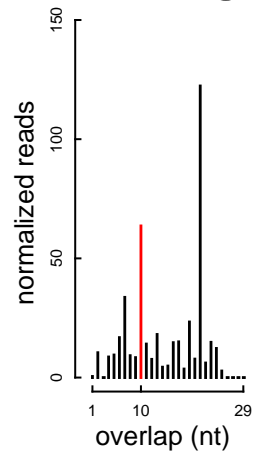
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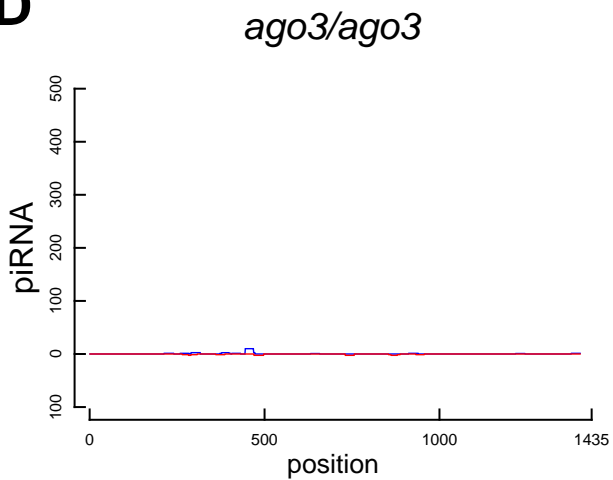
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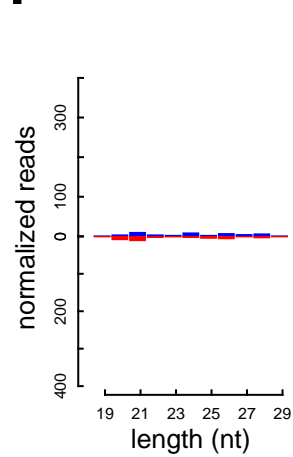
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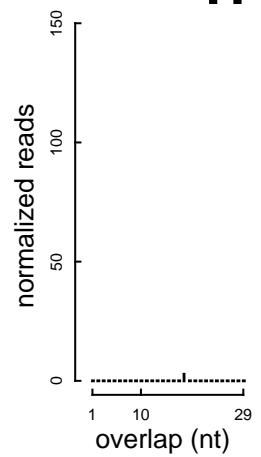
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F

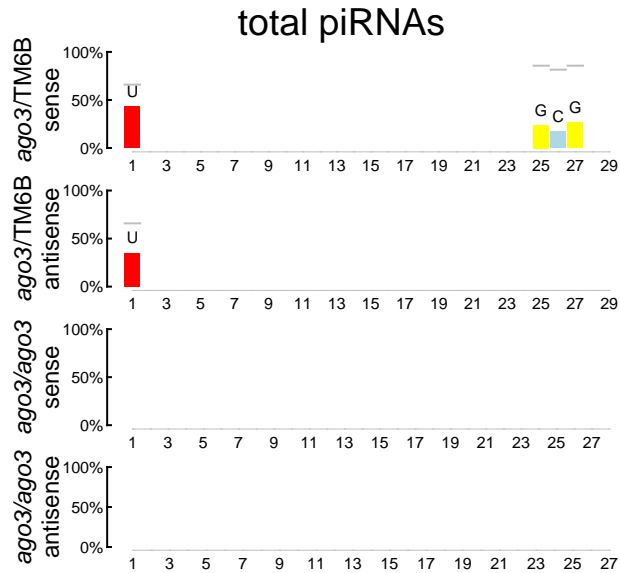


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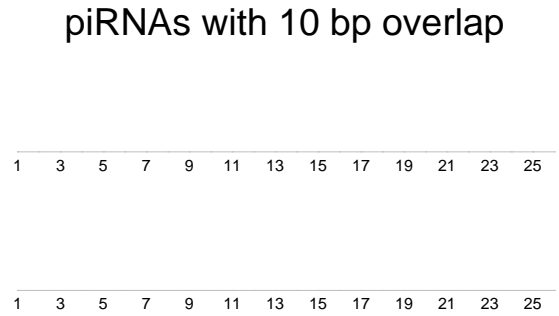


hopper2

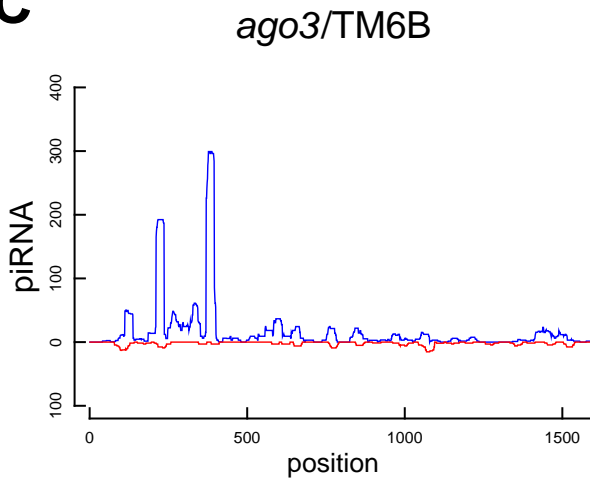
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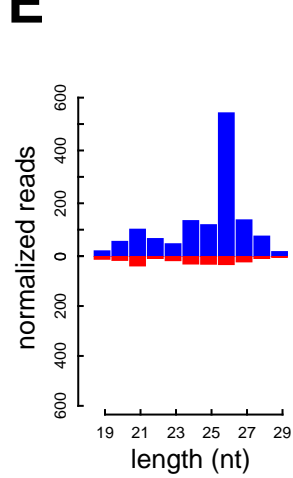
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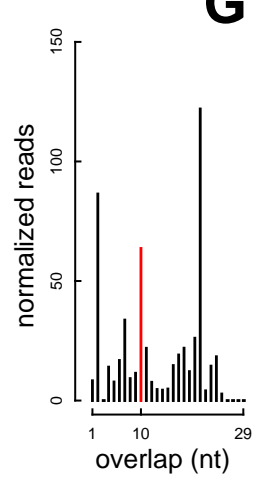
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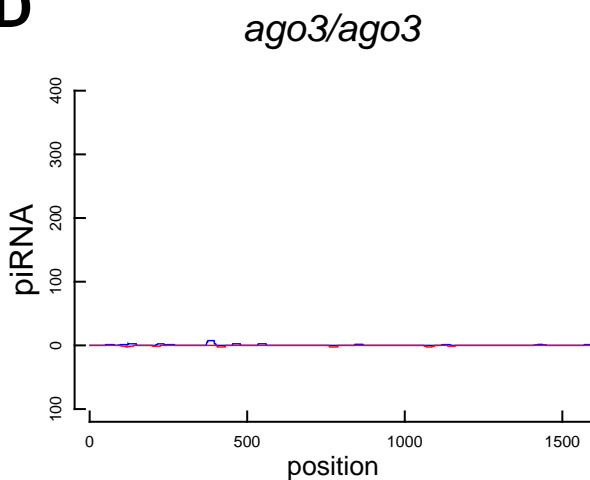
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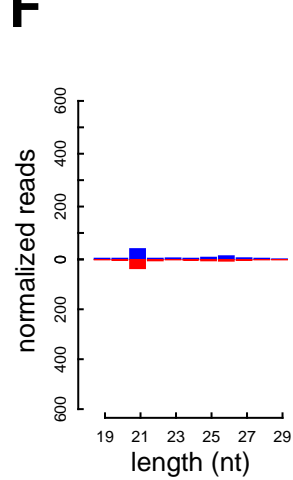
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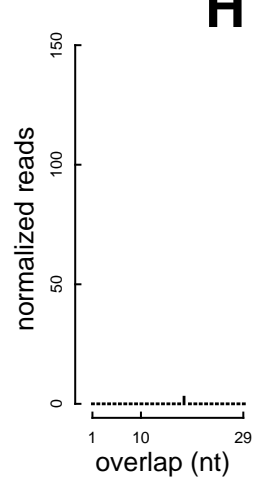
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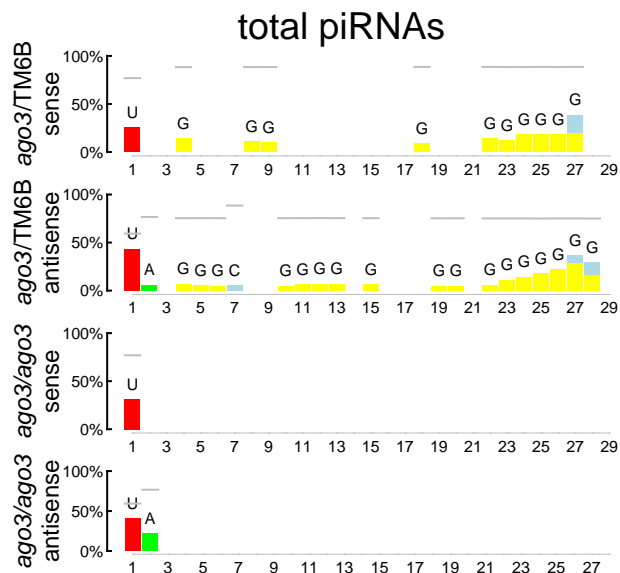
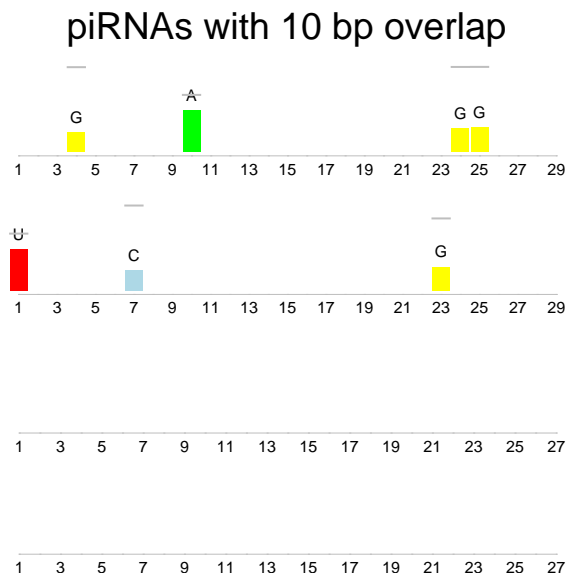
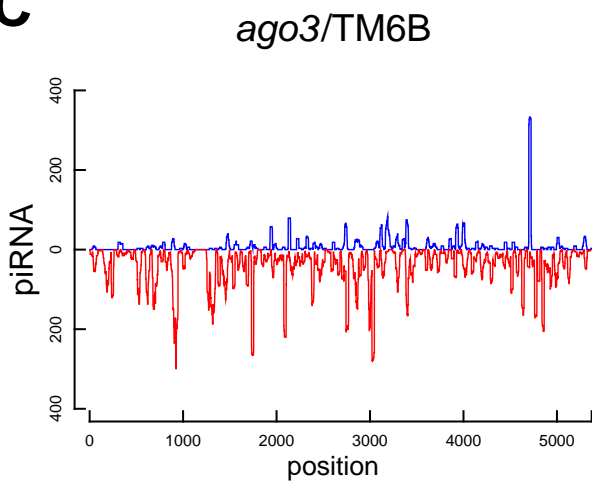
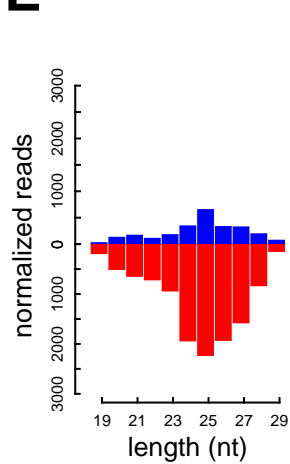
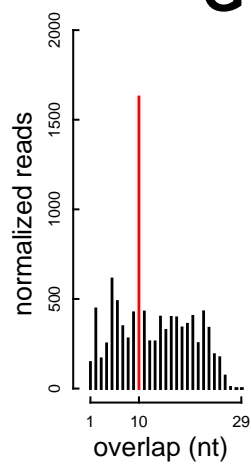
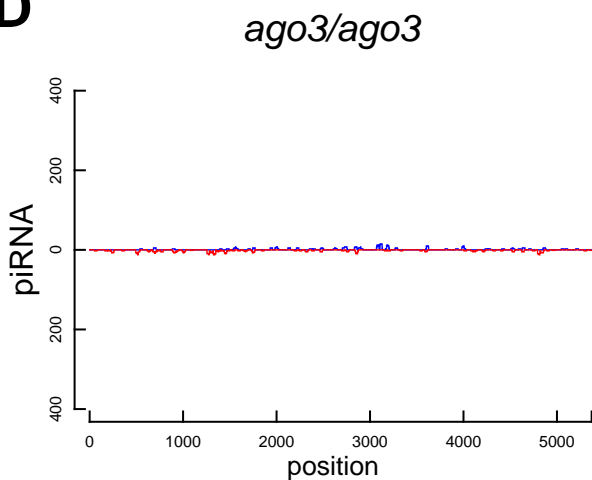
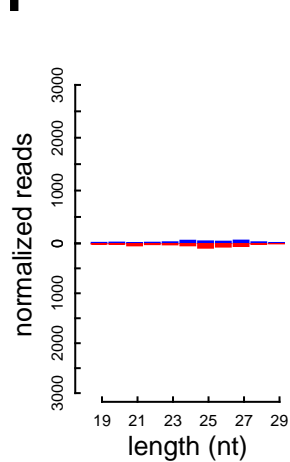
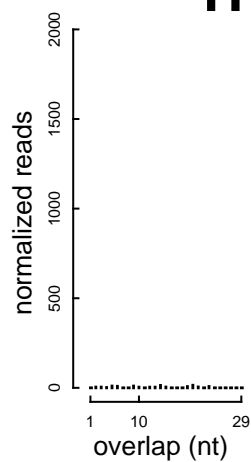
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H

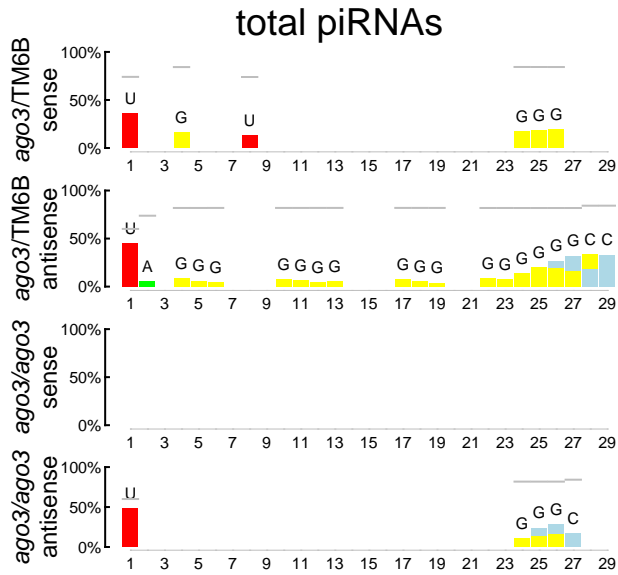


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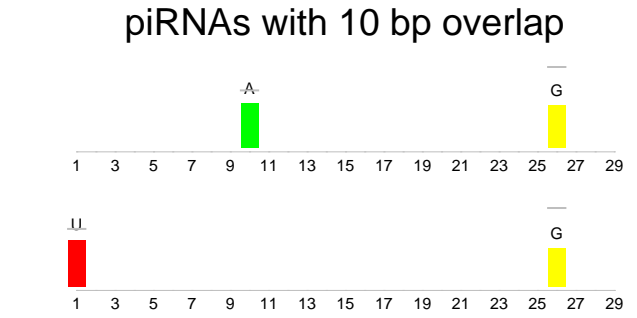
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Idefix

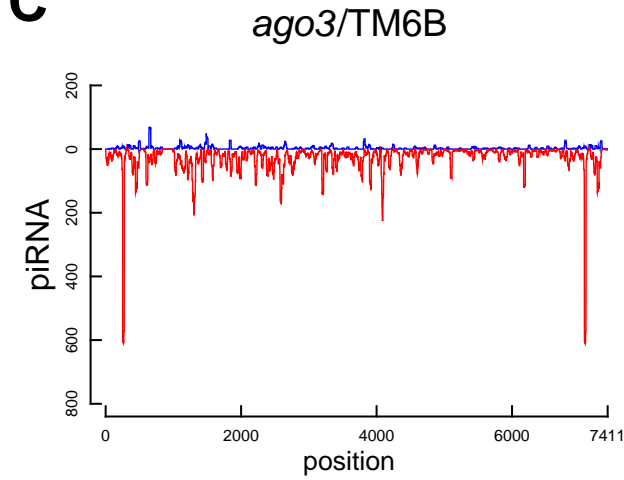
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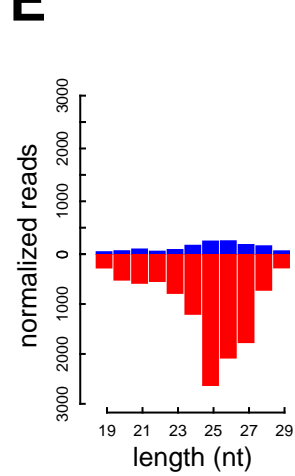
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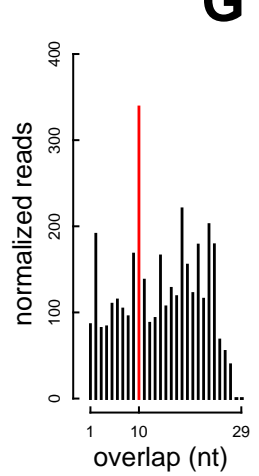
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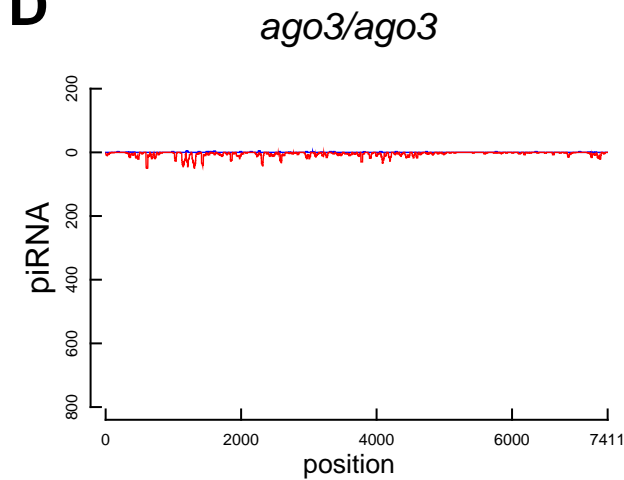
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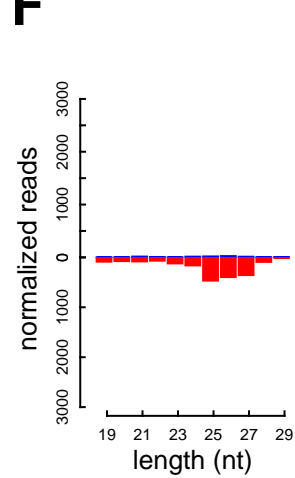
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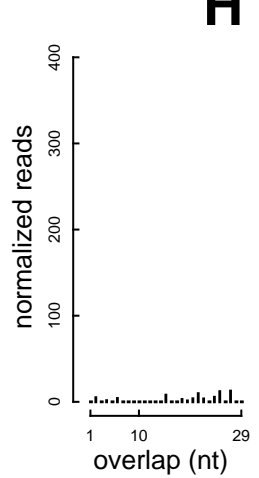
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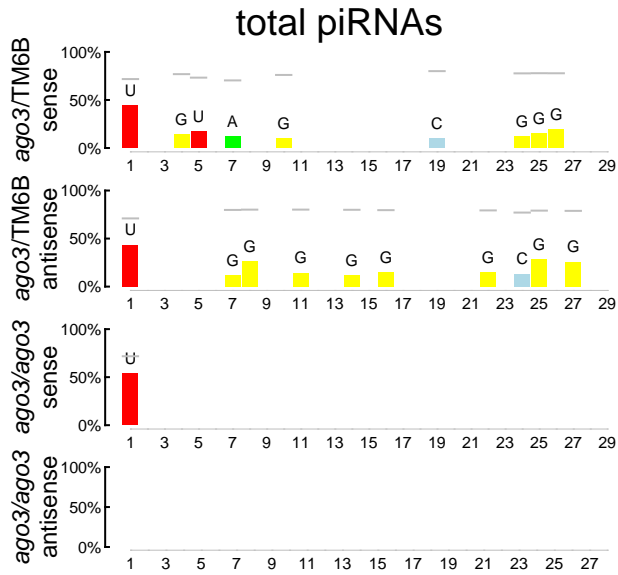
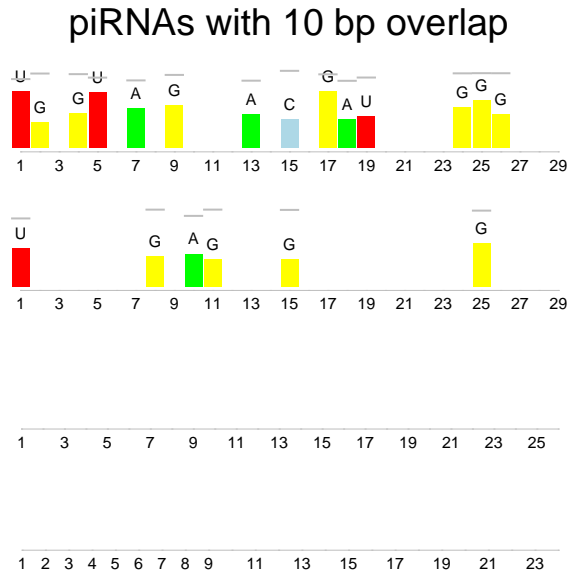
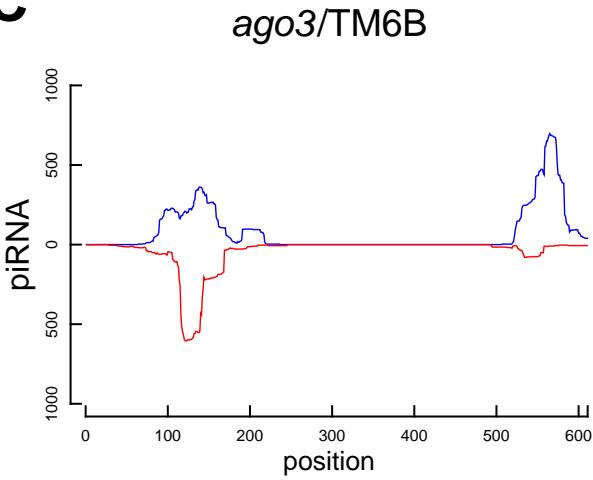
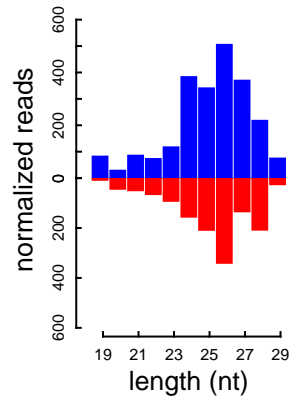
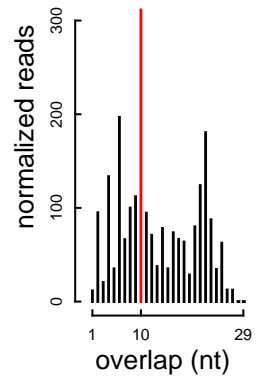
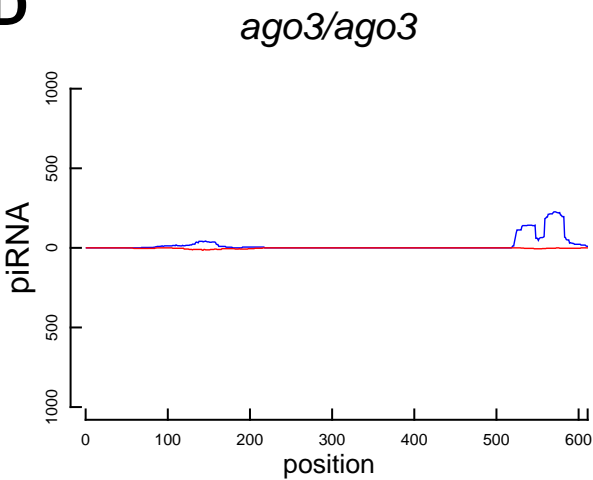
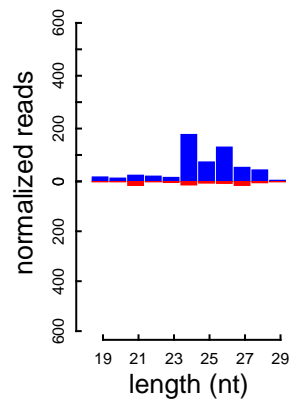
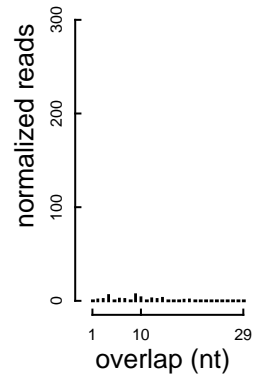
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H

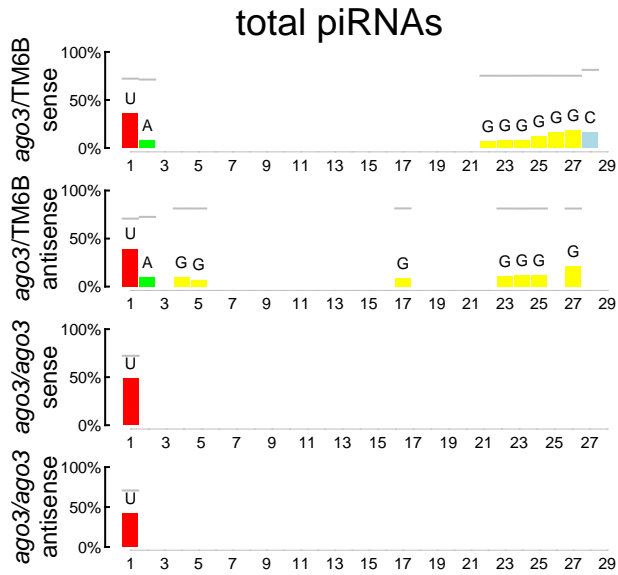


INE 1

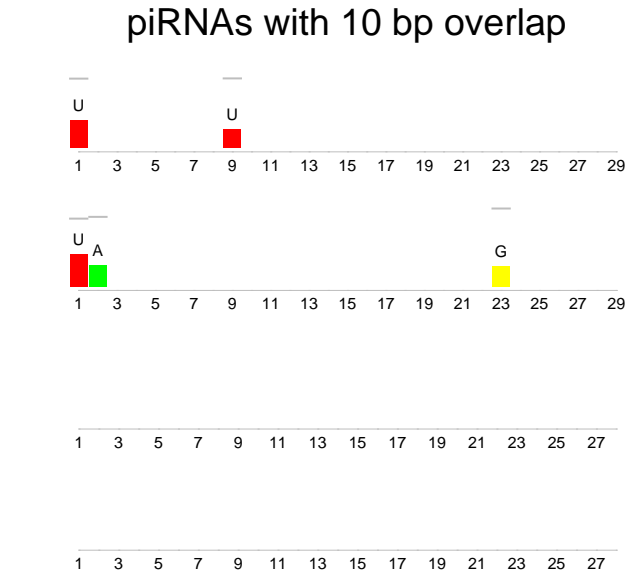
A**B****C****E****G****D****F****H**

invader1

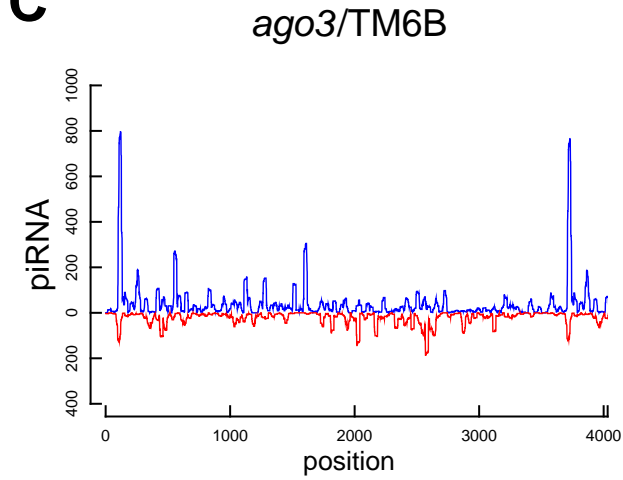
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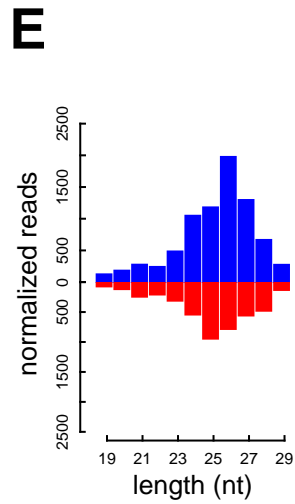
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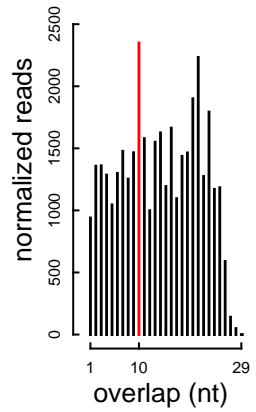
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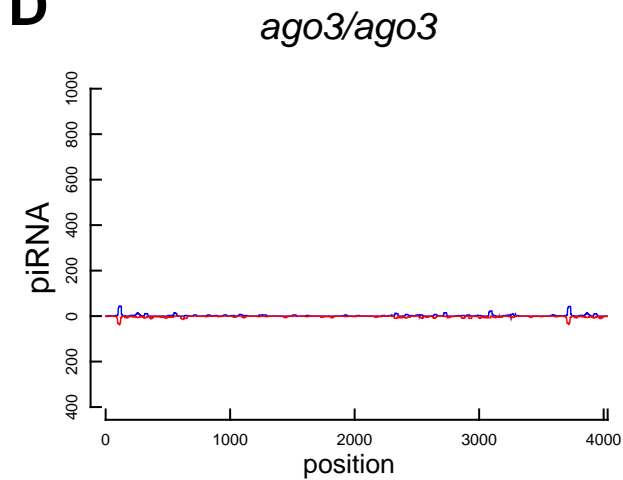
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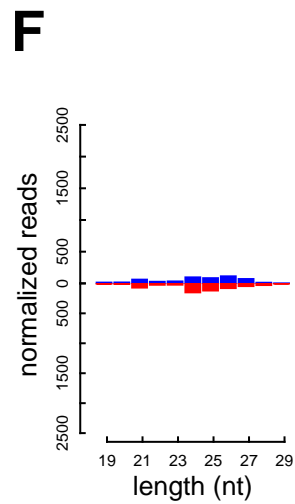
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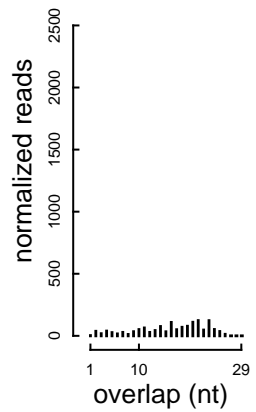
D



F

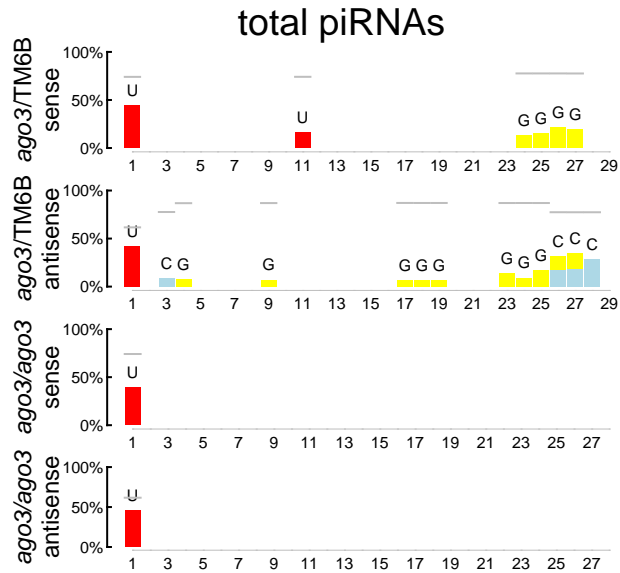


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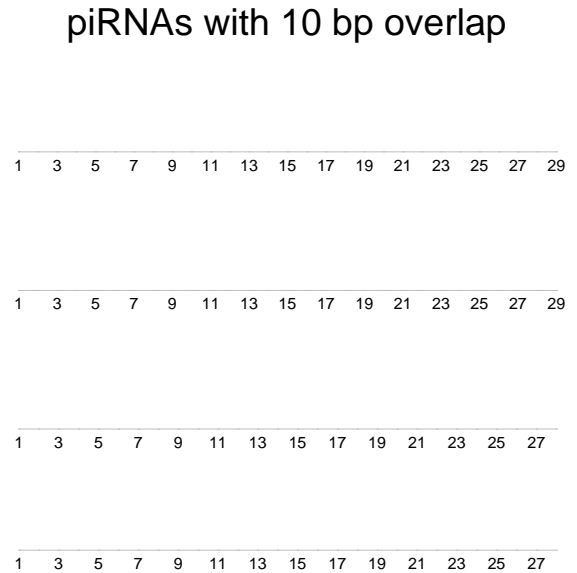


invader2

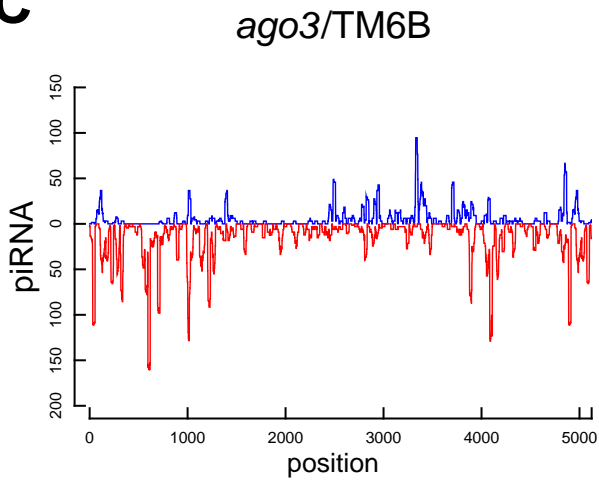
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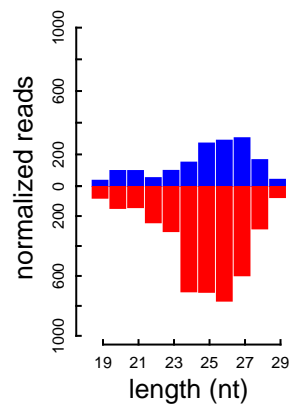
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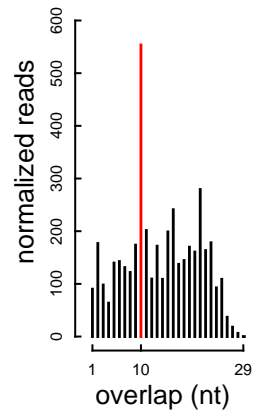
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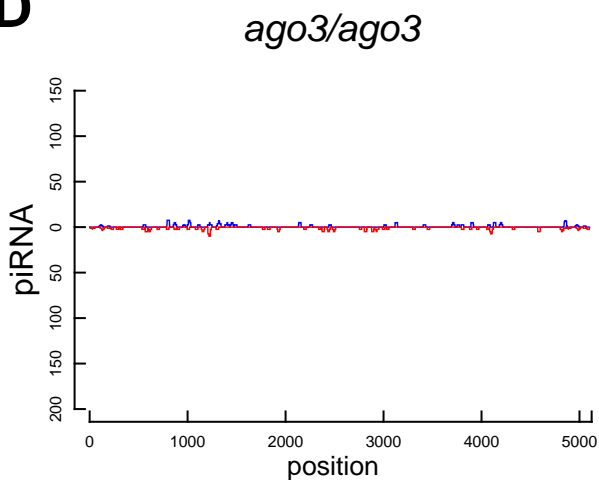
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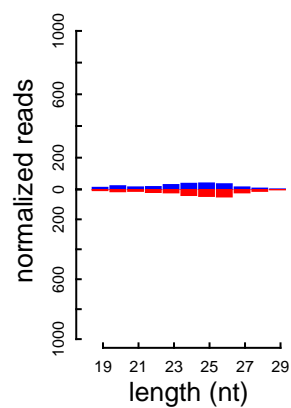
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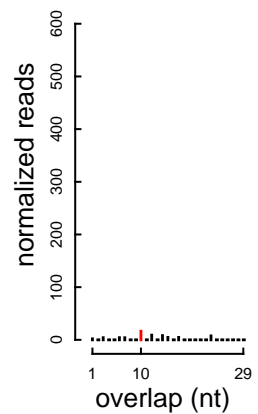
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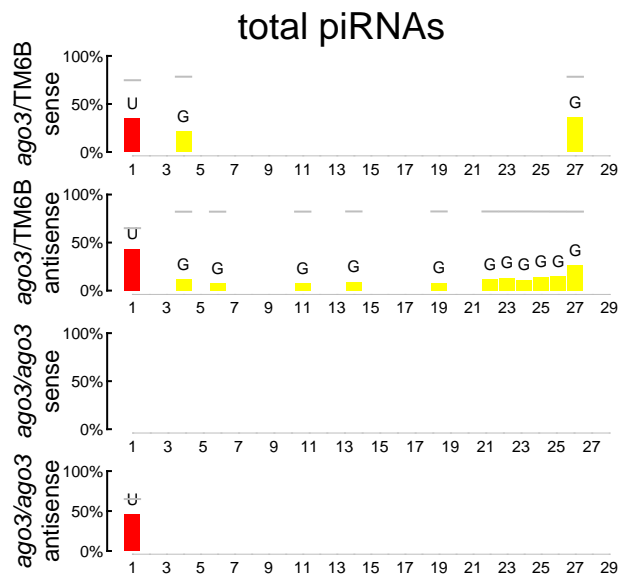
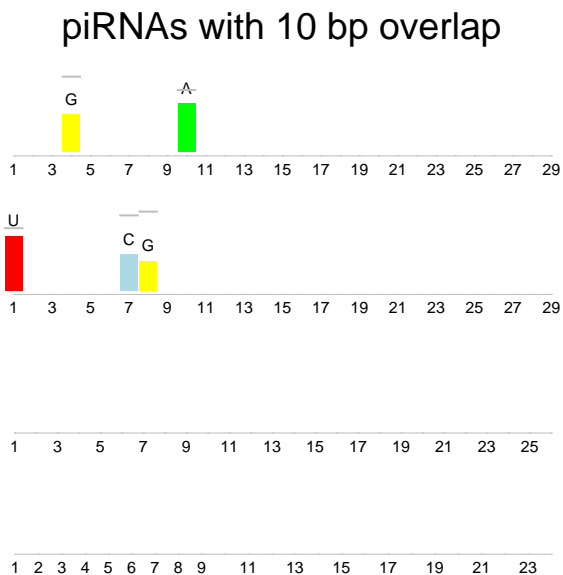
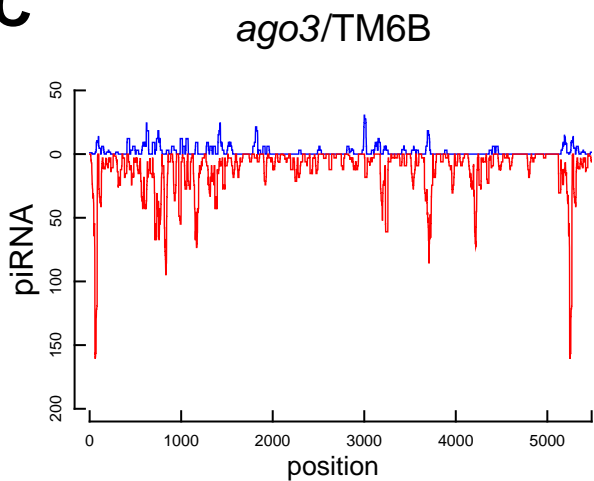
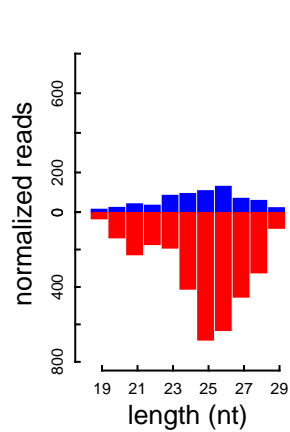
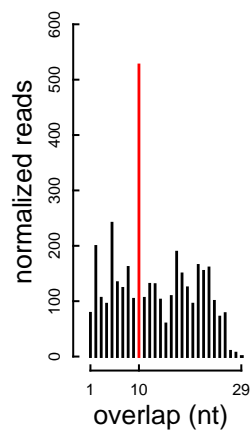
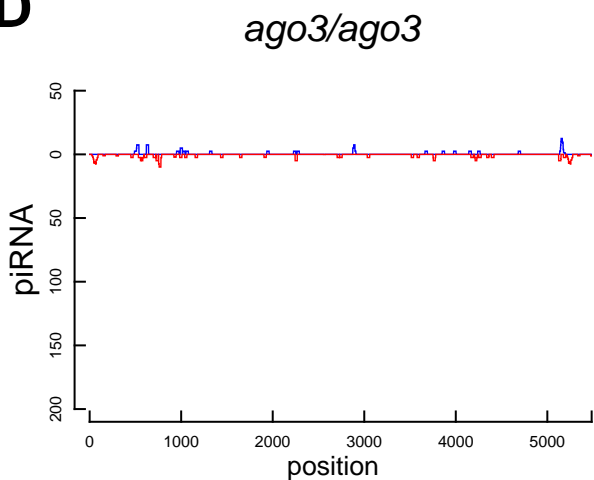
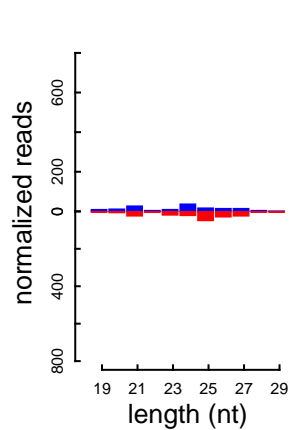
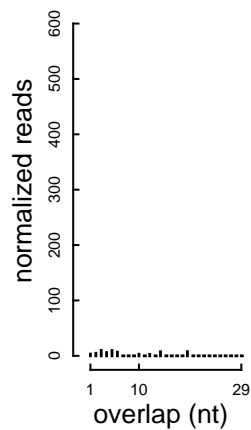
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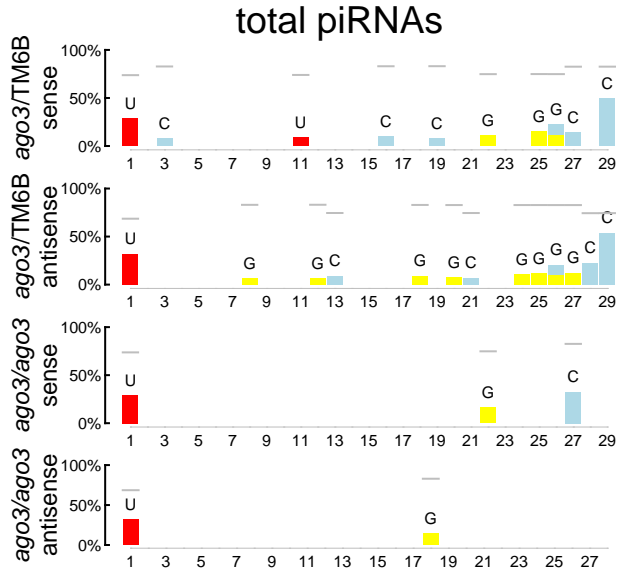
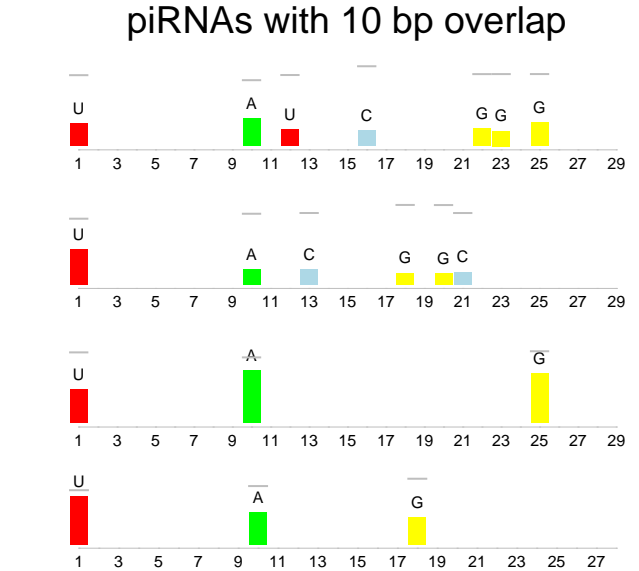
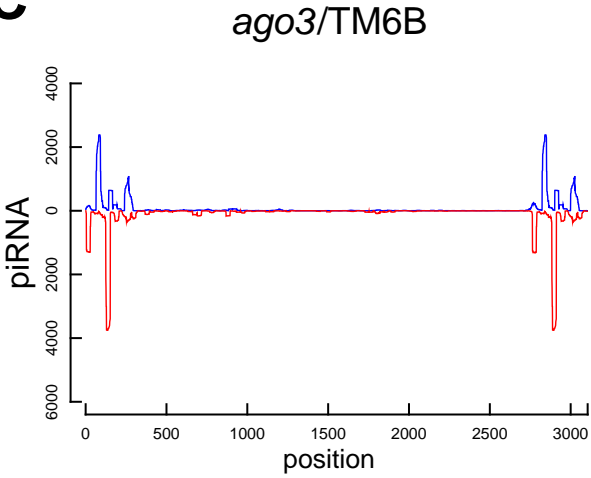
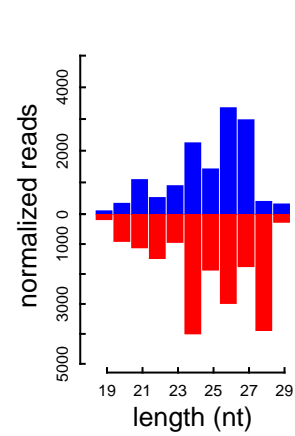
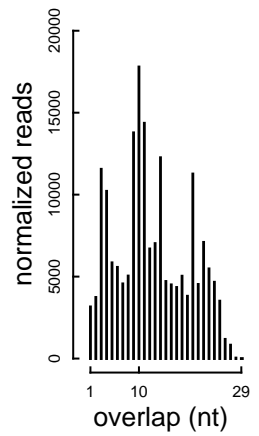
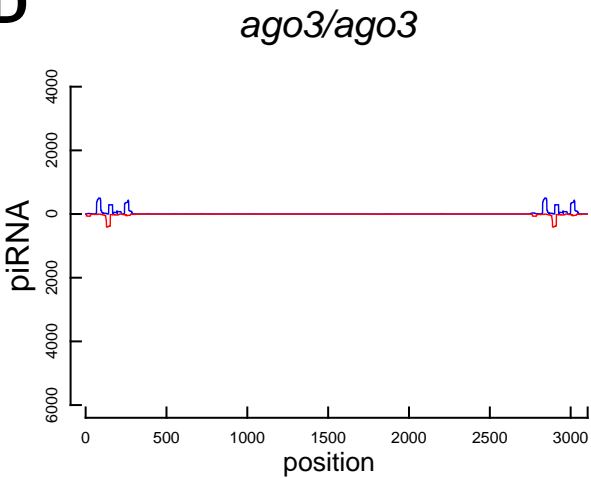
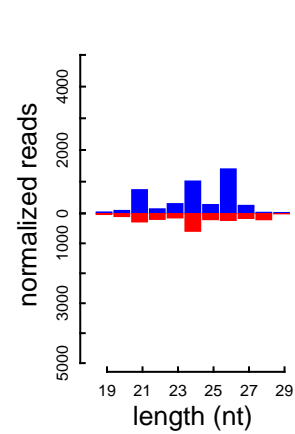
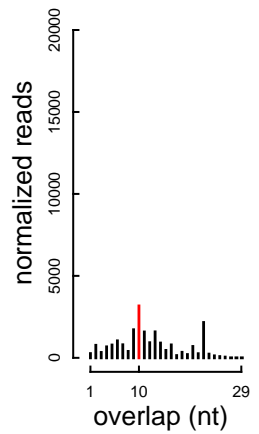
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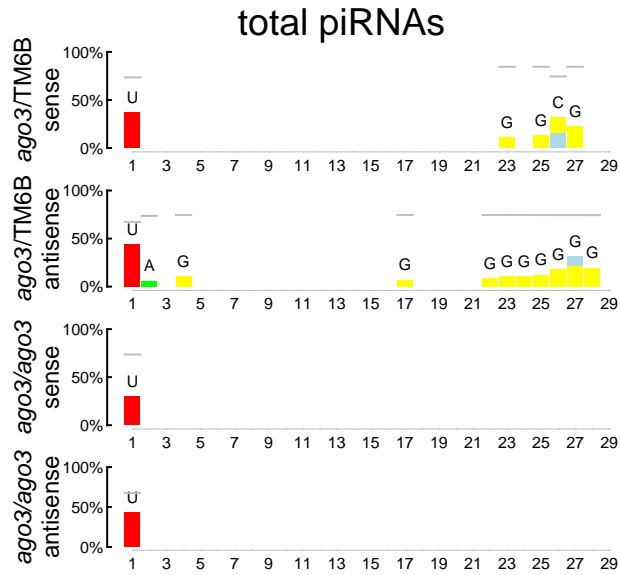
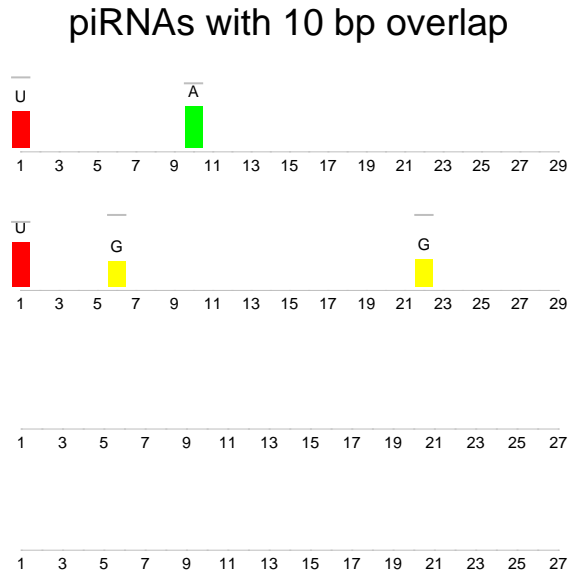
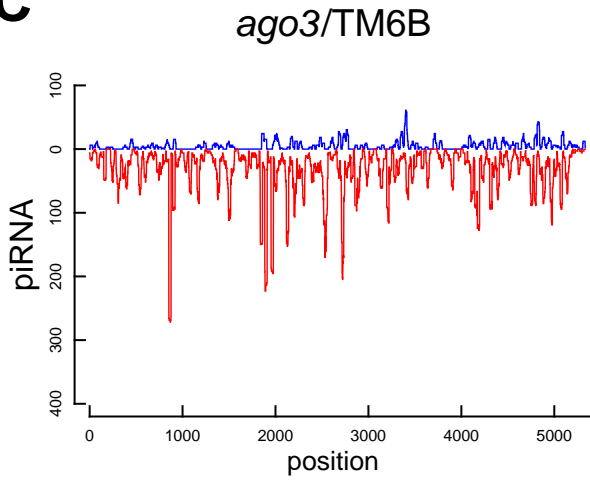
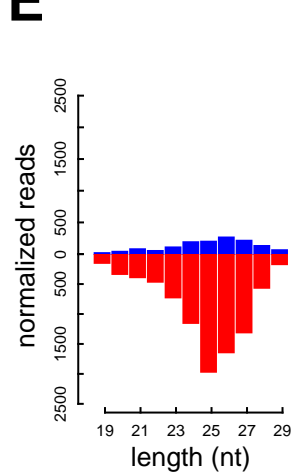
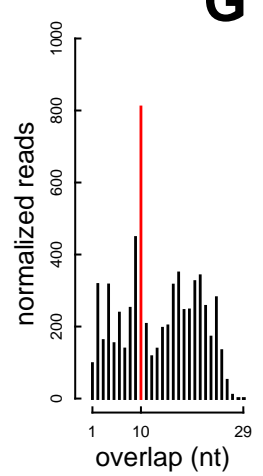
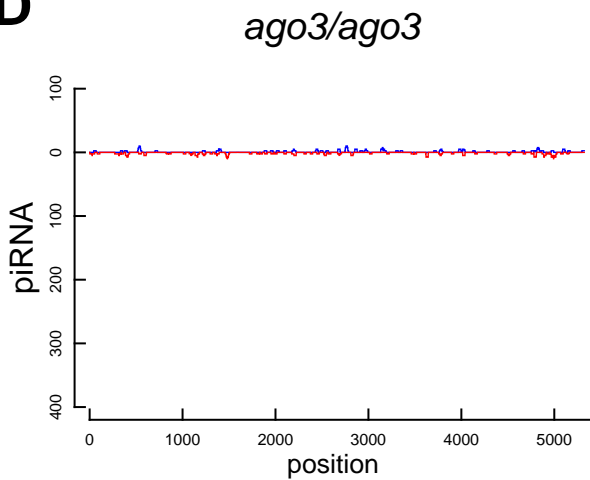
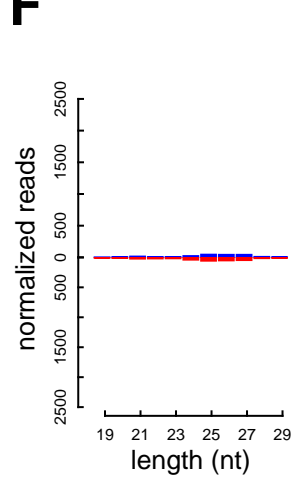
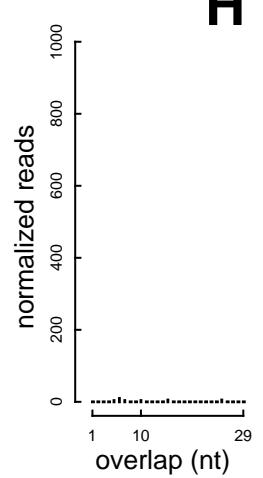
invader3

A**B****C****E****G****D****F****H**

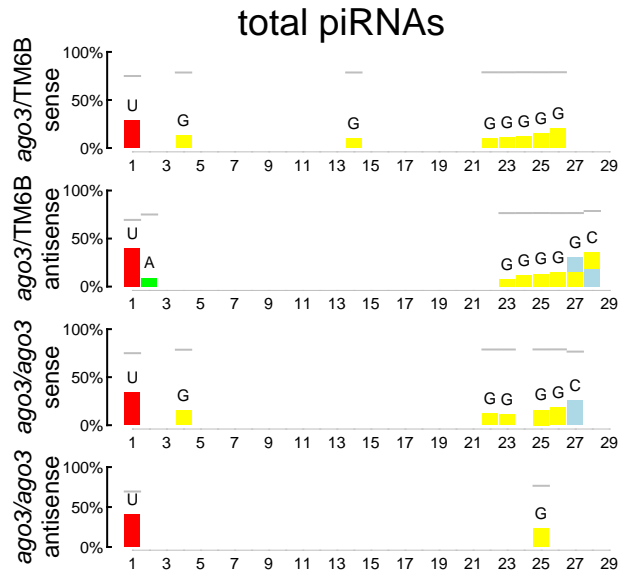
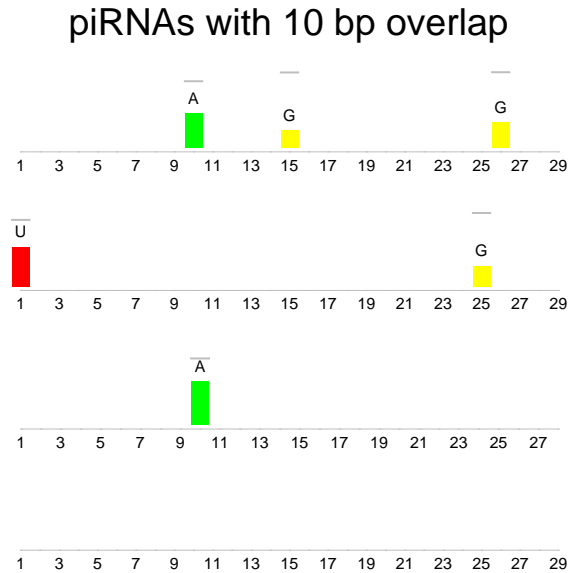
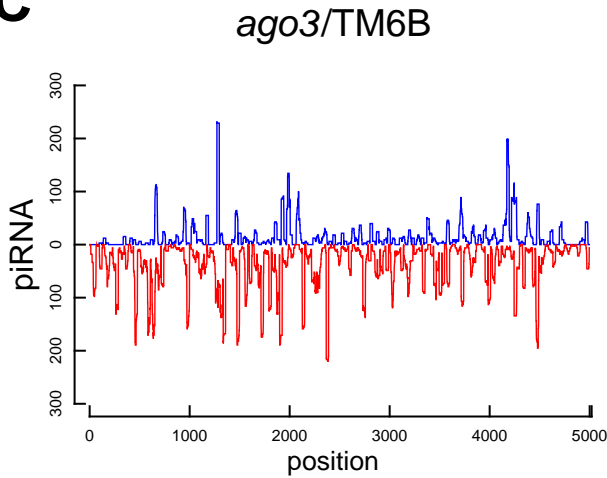
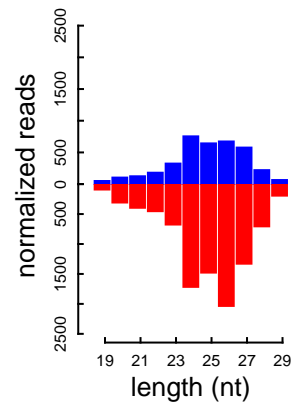
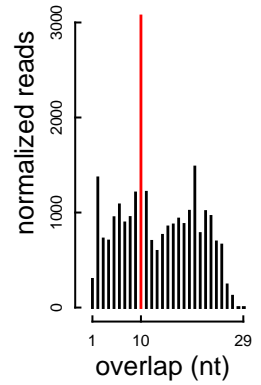
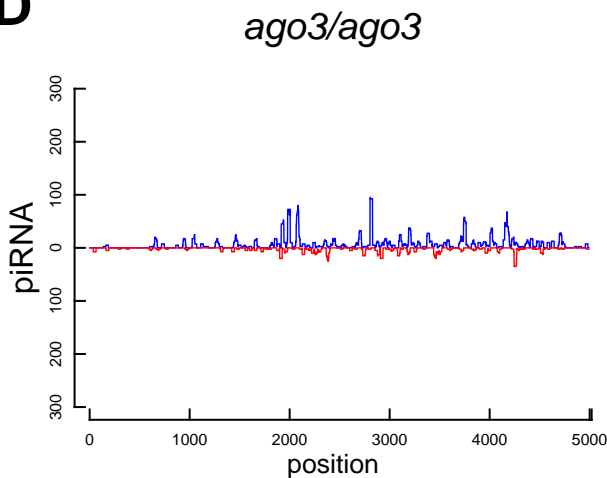
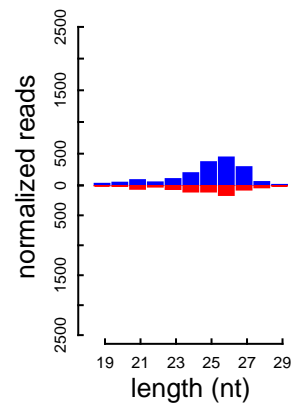
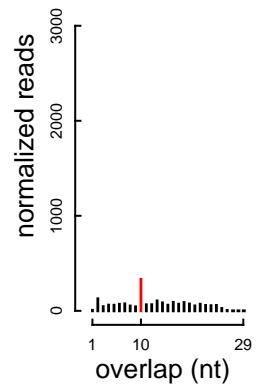
invader4

A**B****C****E****G****D****F****H**

lvk

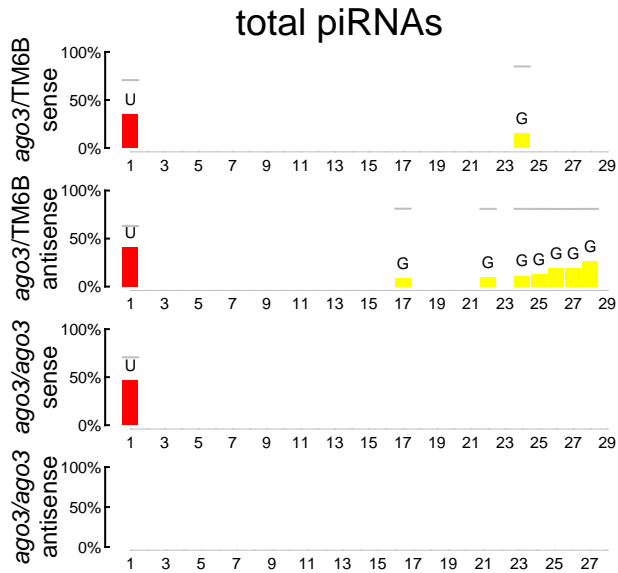
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jockey

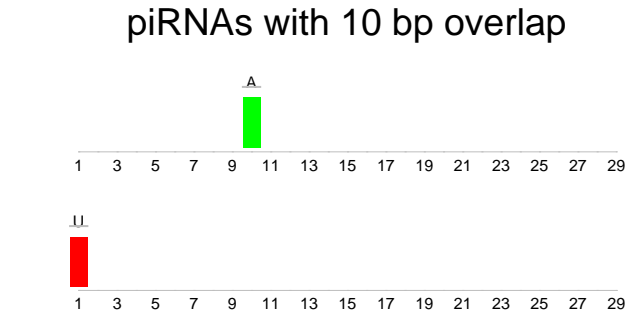
A**B****C****E****G****D****F****H**

Juan

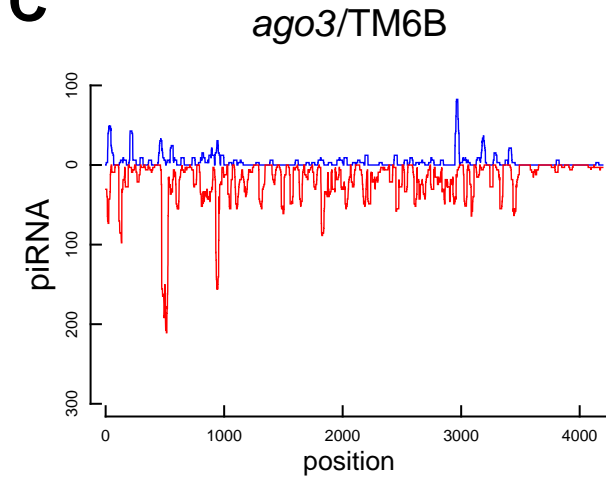
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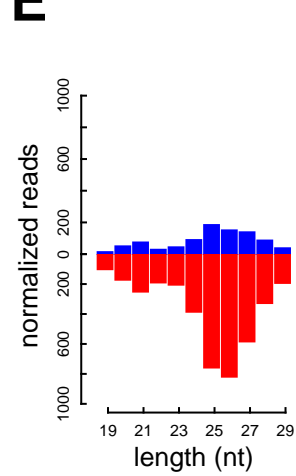
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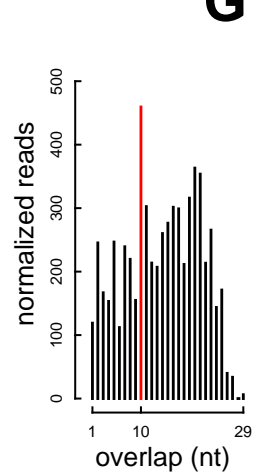
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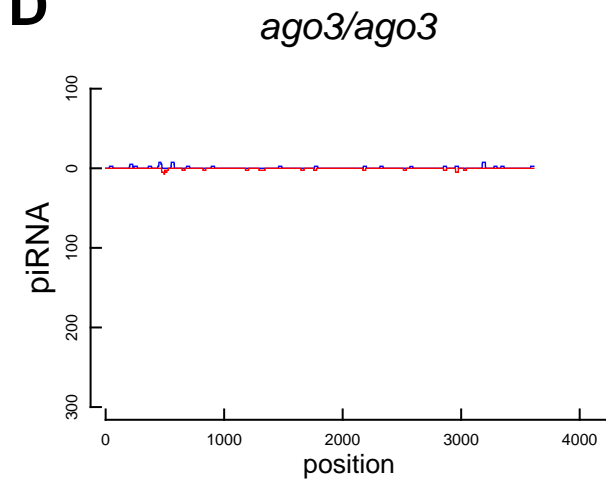
E



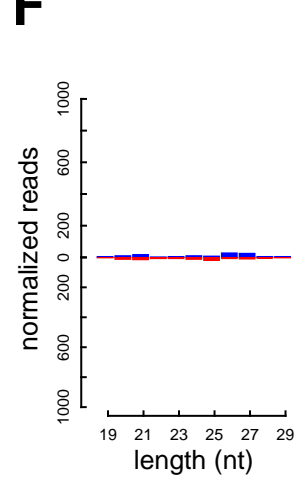
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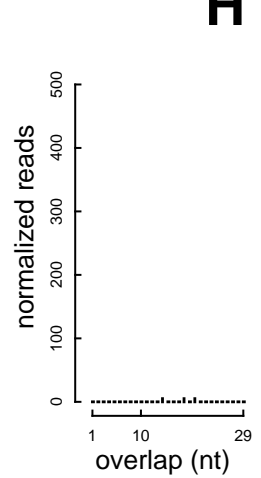
D



F

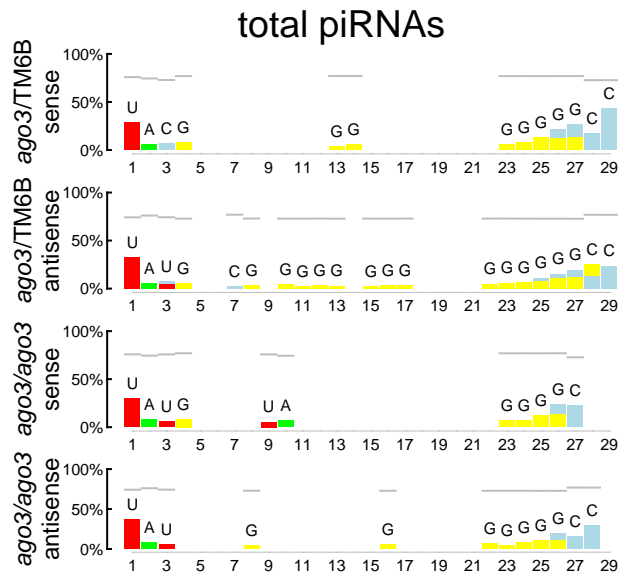


H

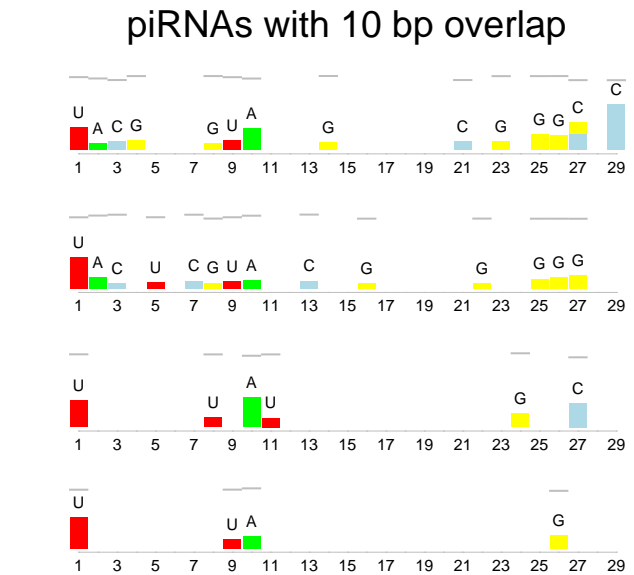


Max element

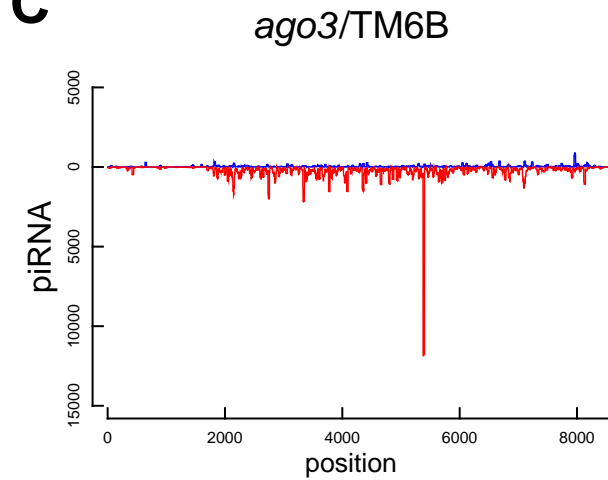
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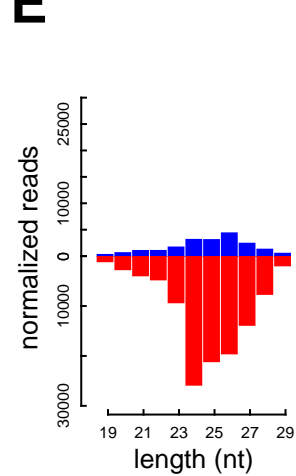
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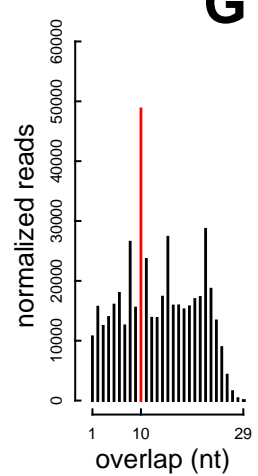
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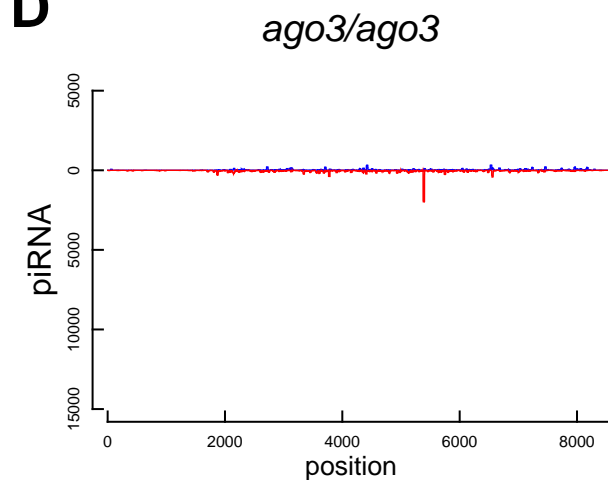
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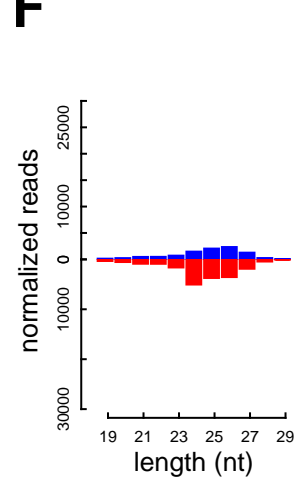
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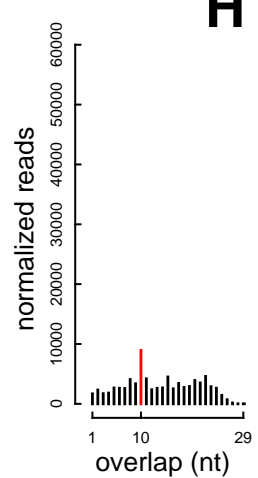
D



F

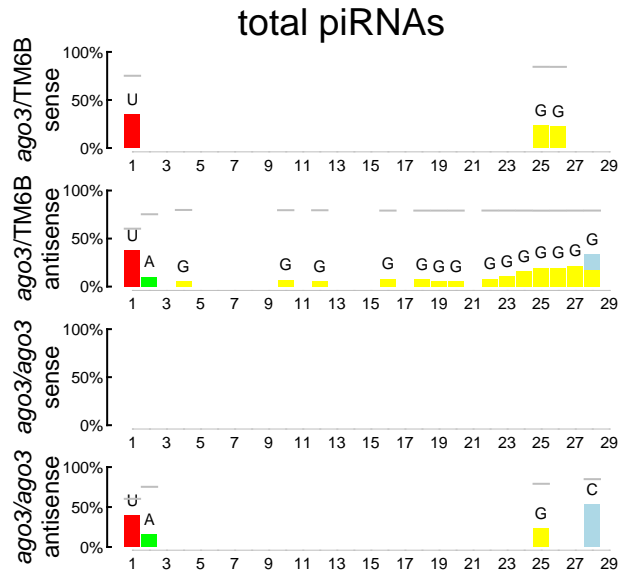


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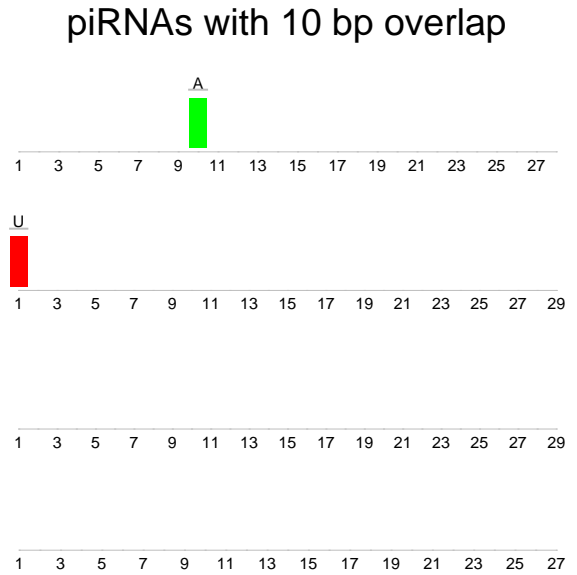


McClintock

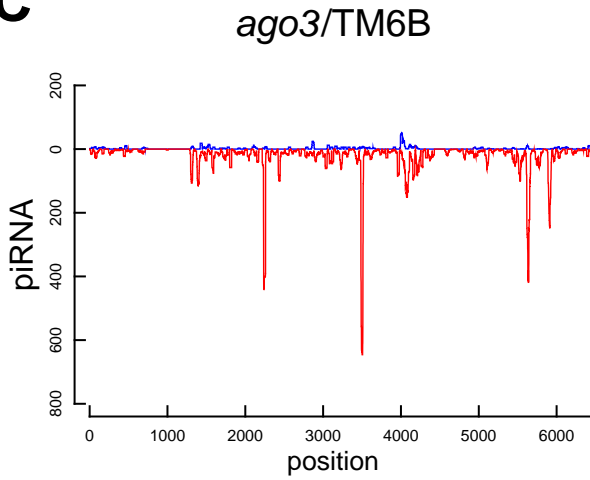
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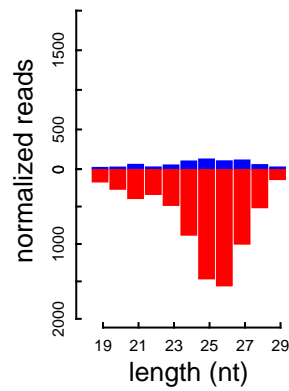
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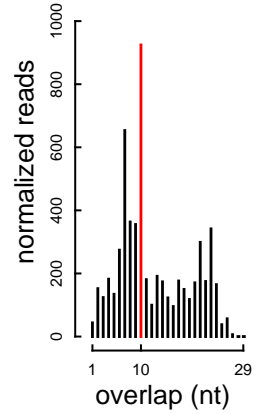
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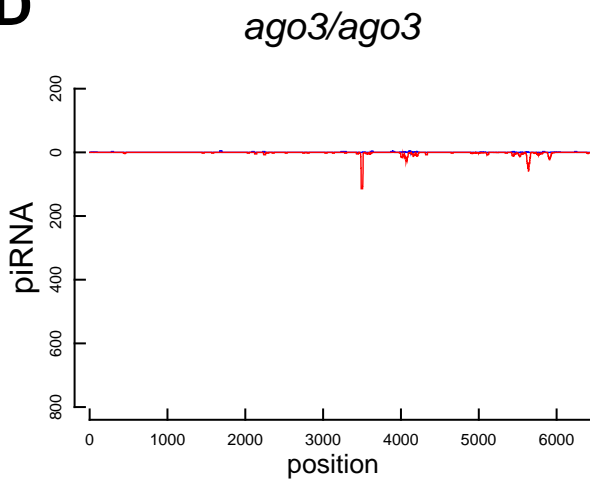
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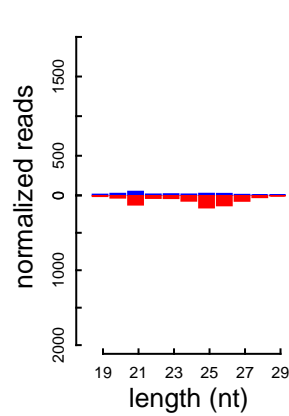
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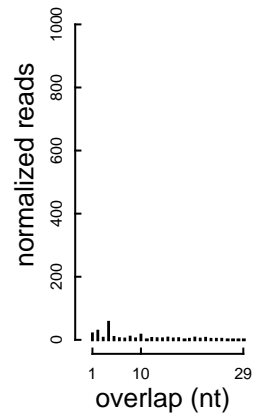
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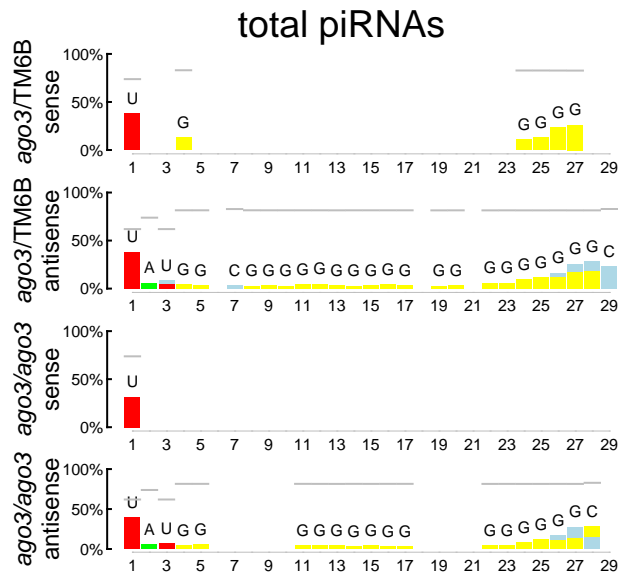
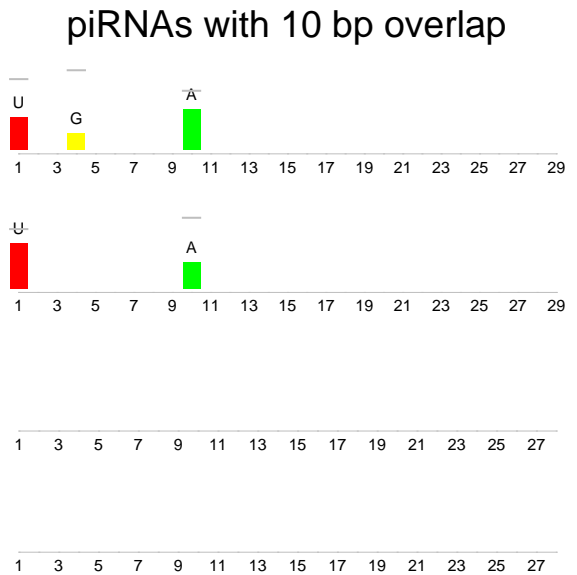
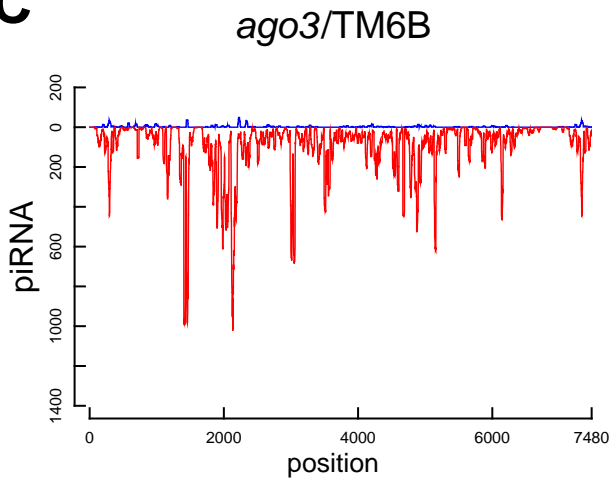
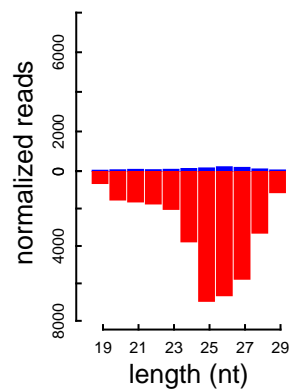
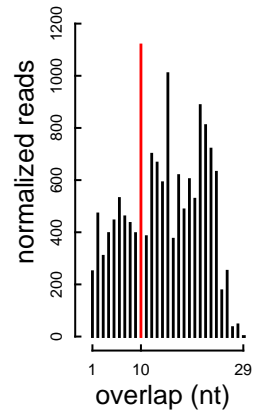
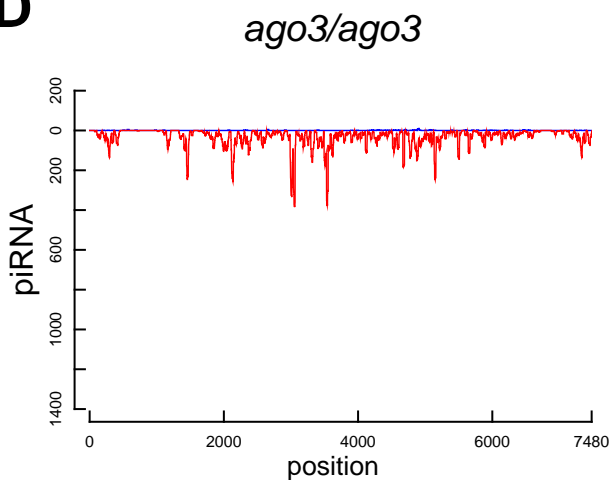
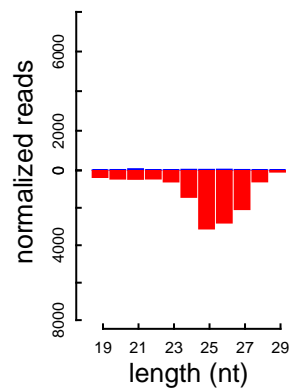
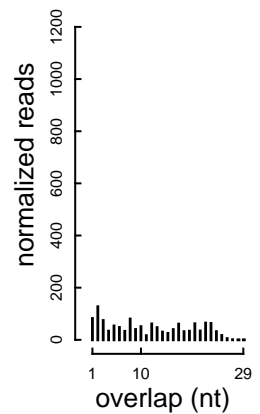
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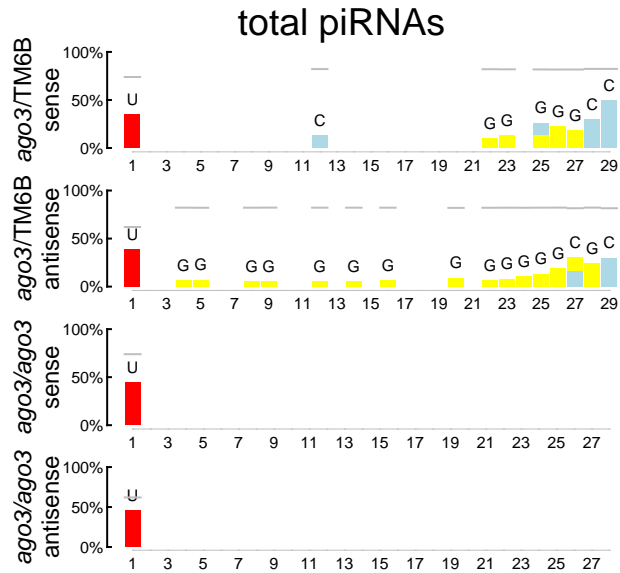
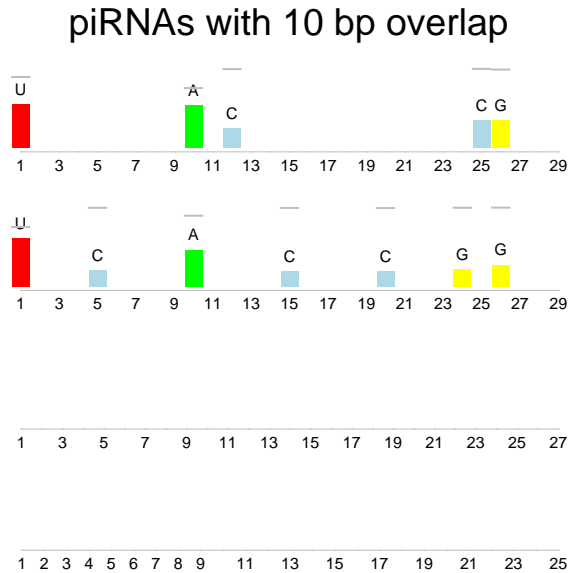
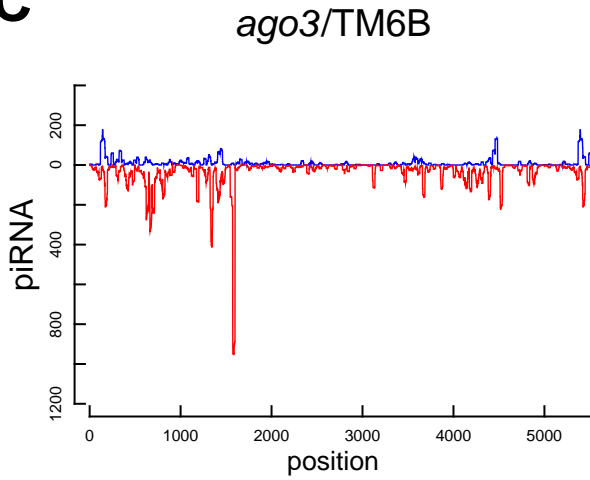
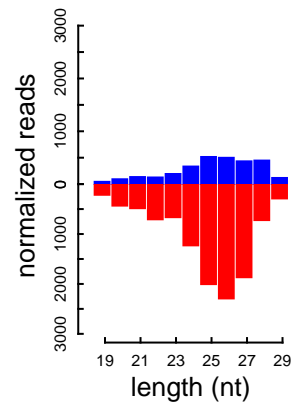
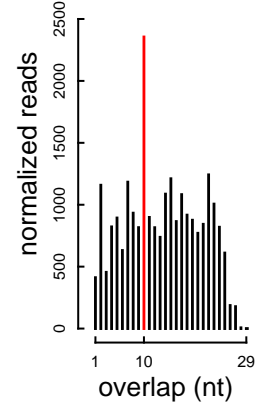
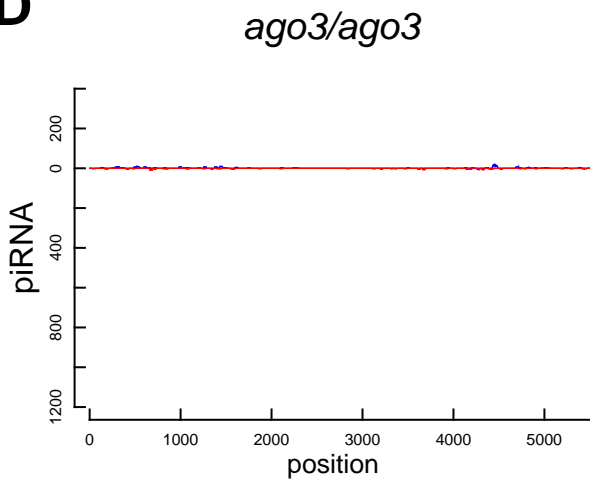
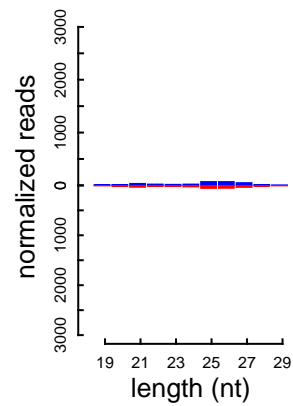
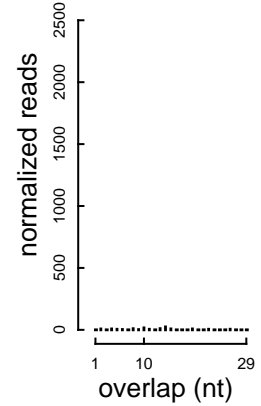
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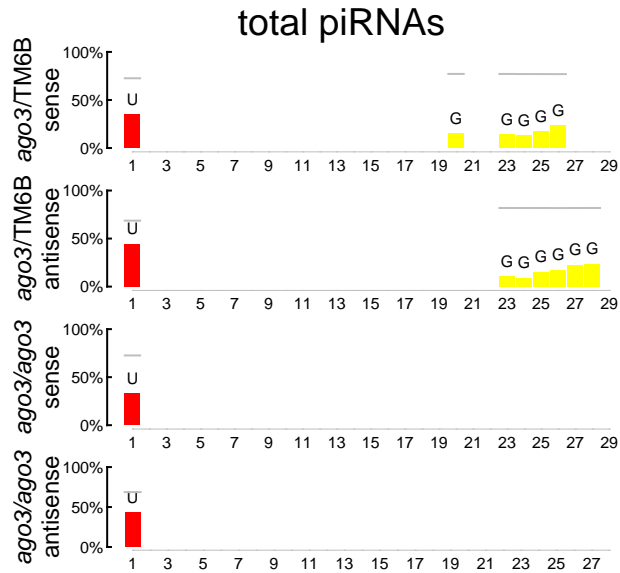
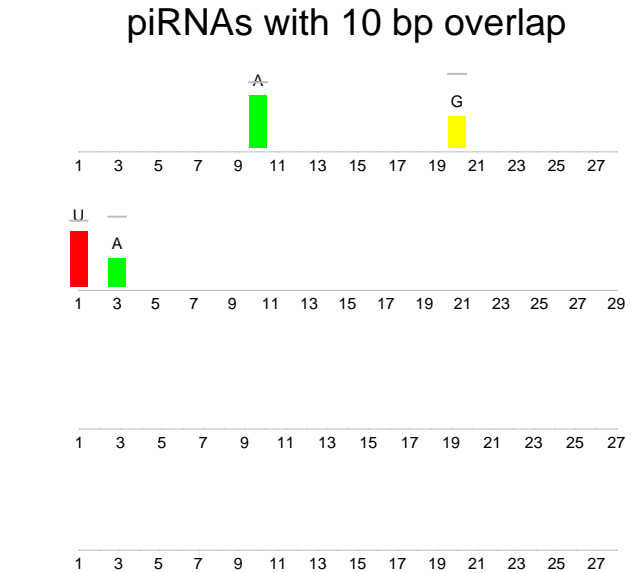
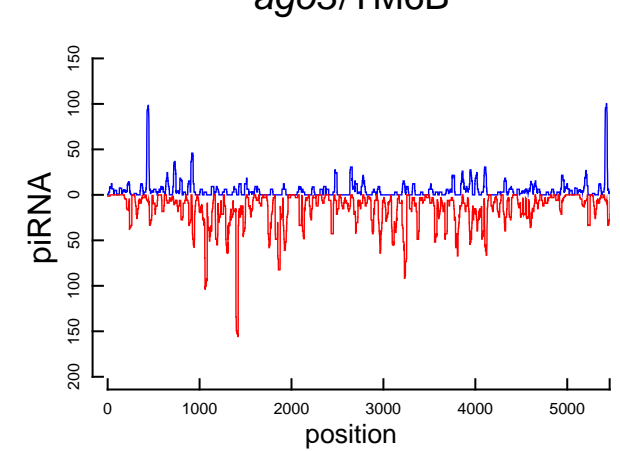
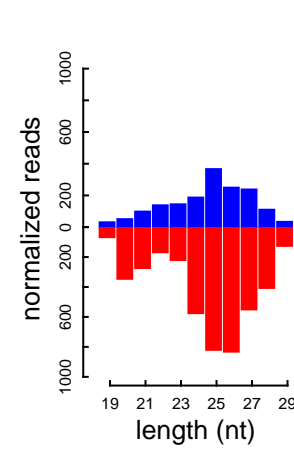
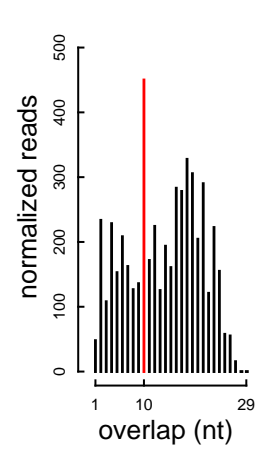
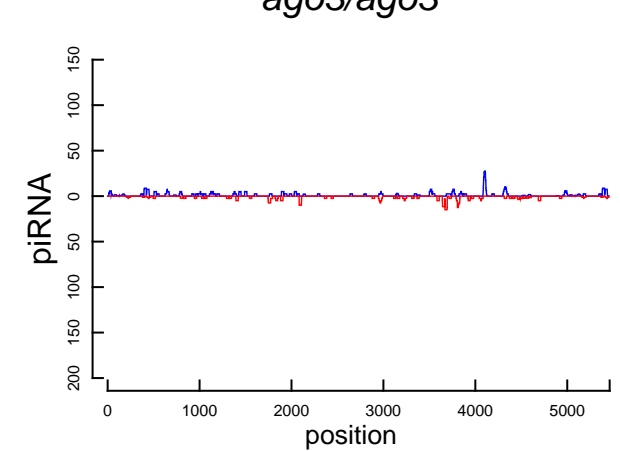
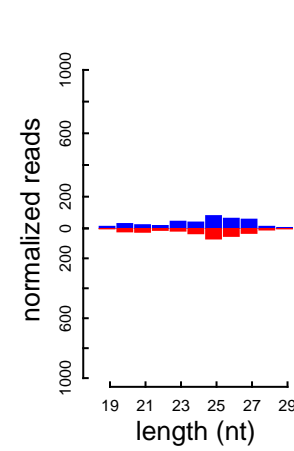
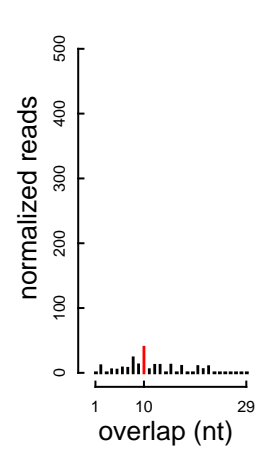
mdg1

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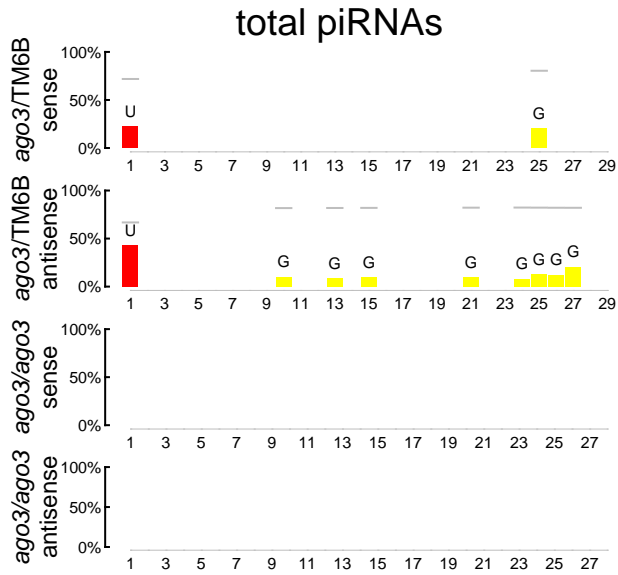
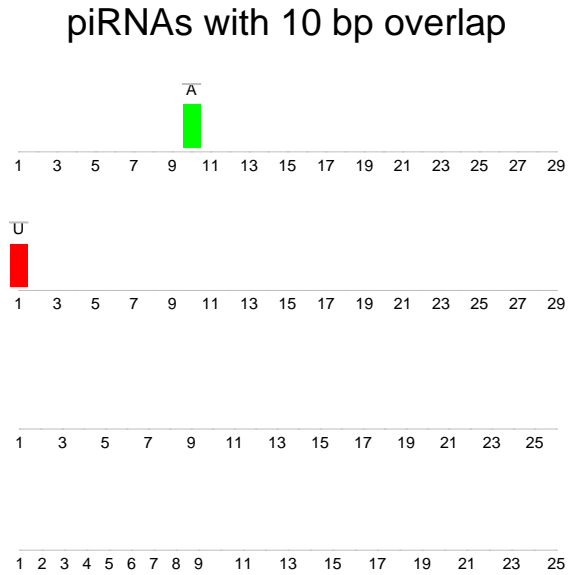
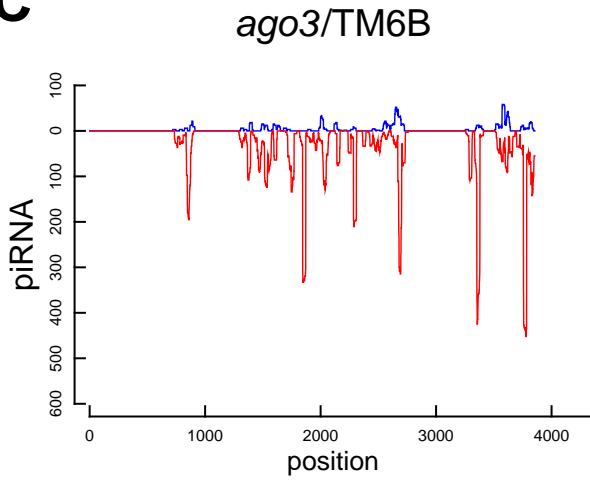
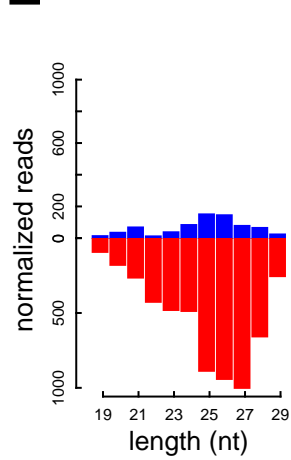
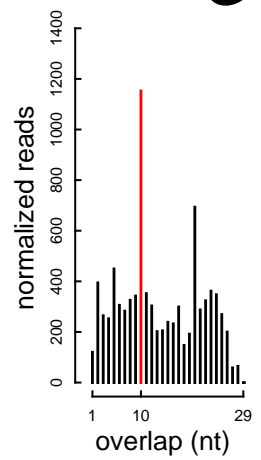
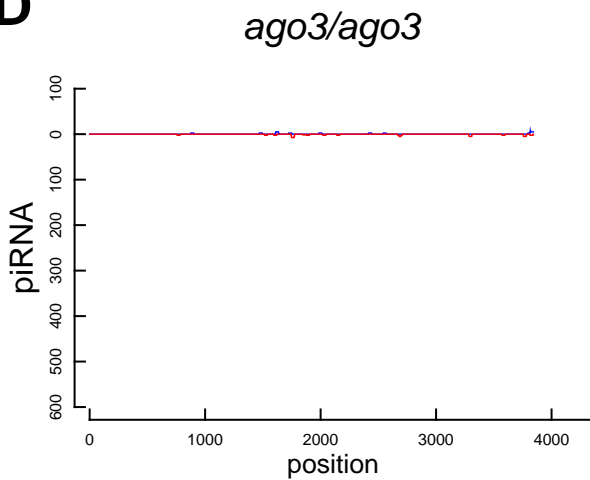
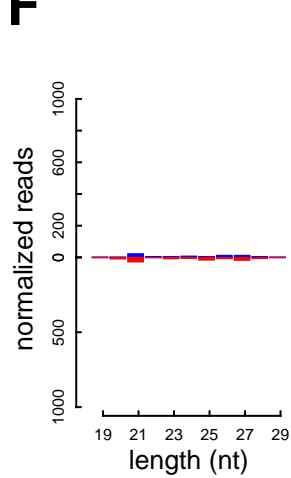
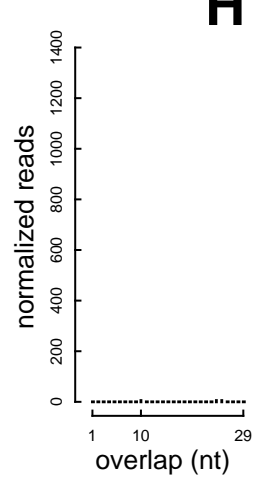
mdg3

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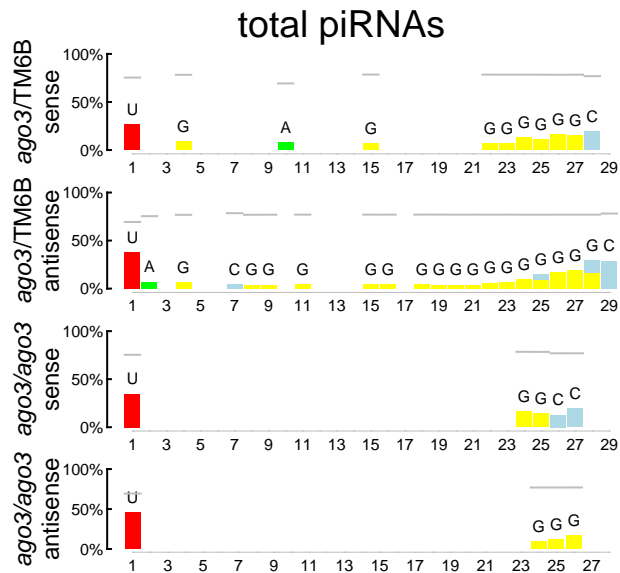
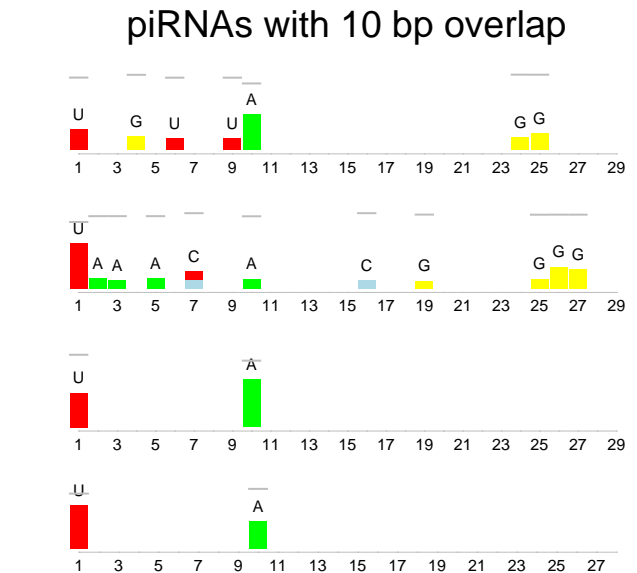
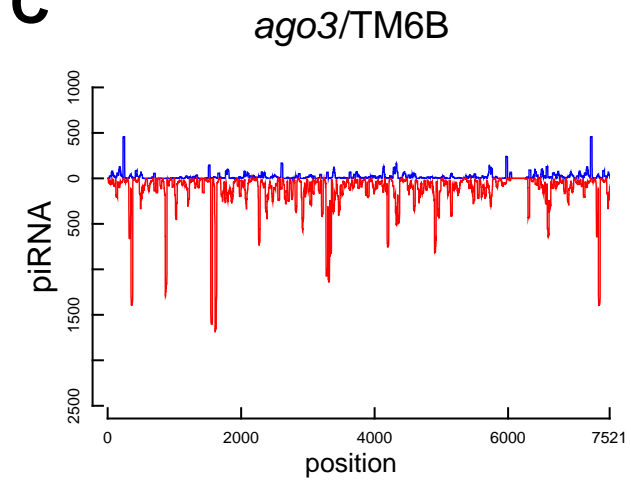
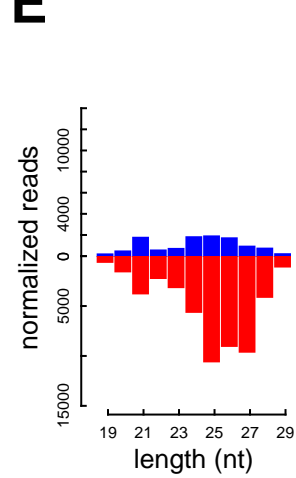
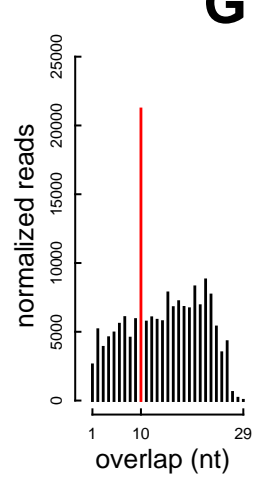
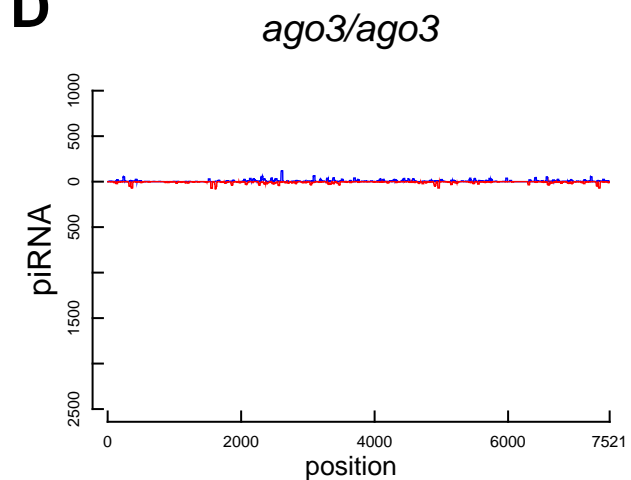
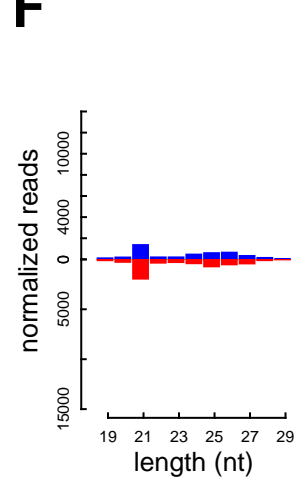
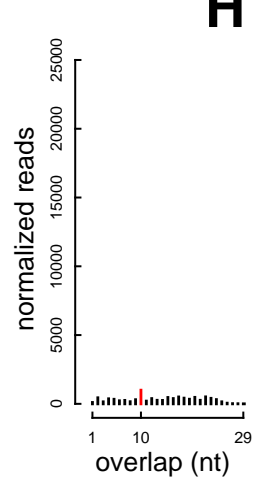
micropia

A**B****C****E****G****D****F****H**

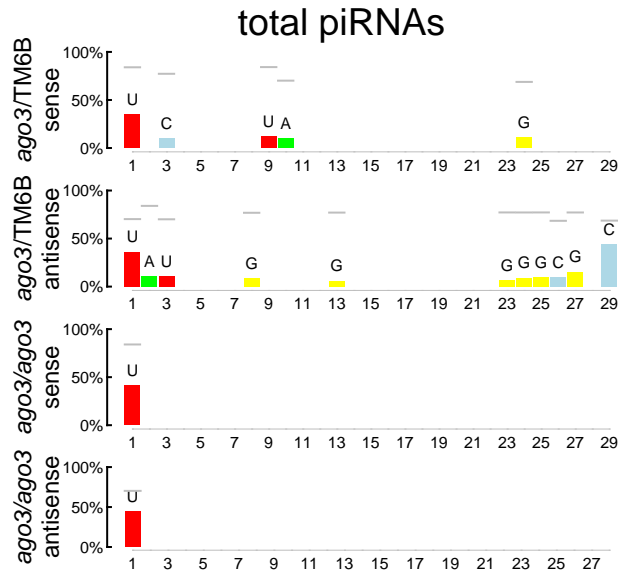
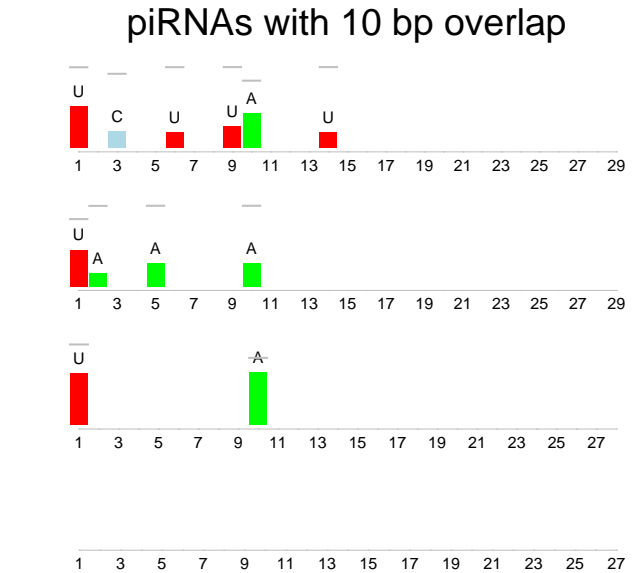
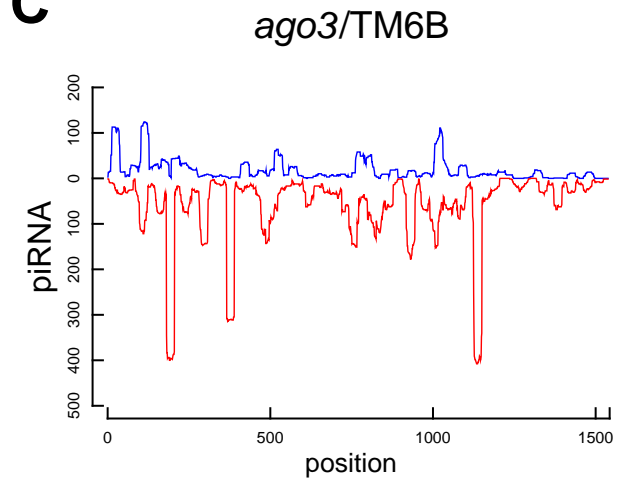
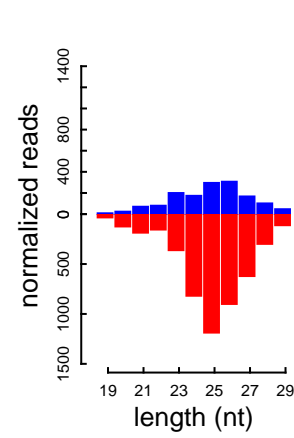
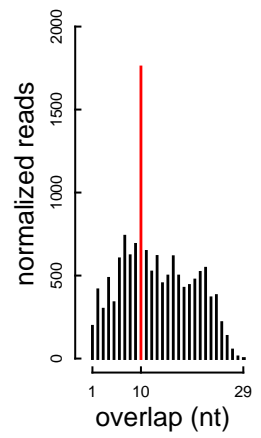
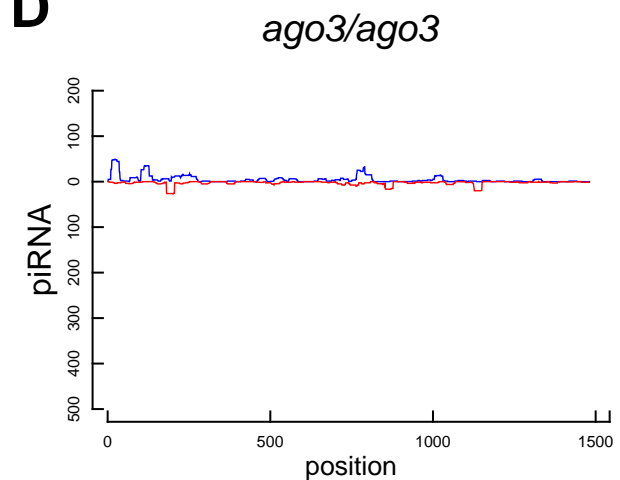
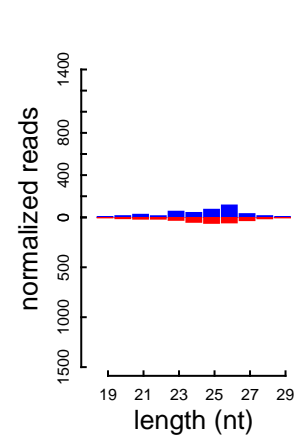
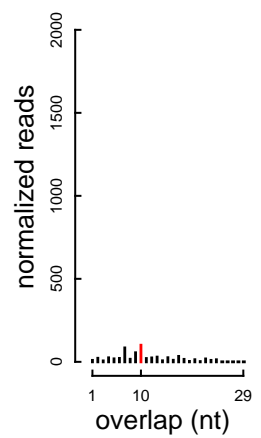
NOF

A**B****C****E****G****D****F****H**

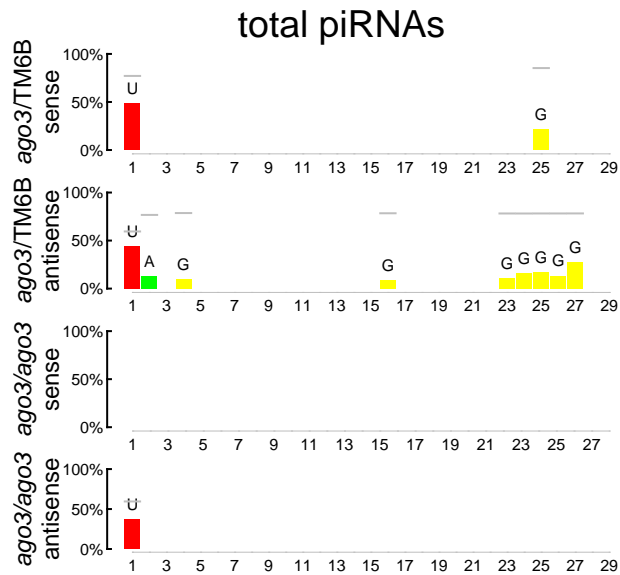
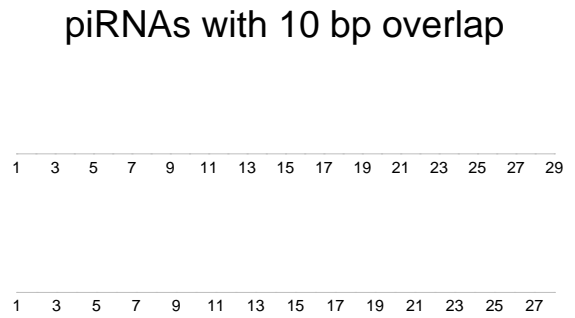
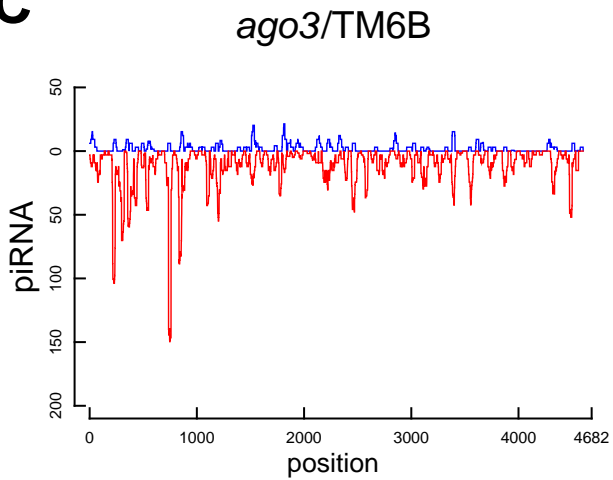
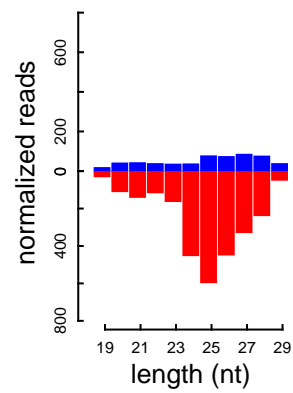
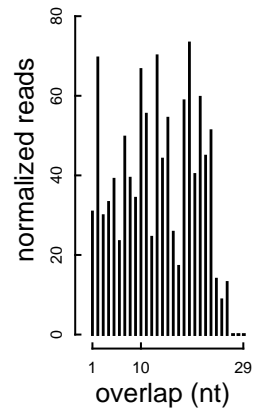
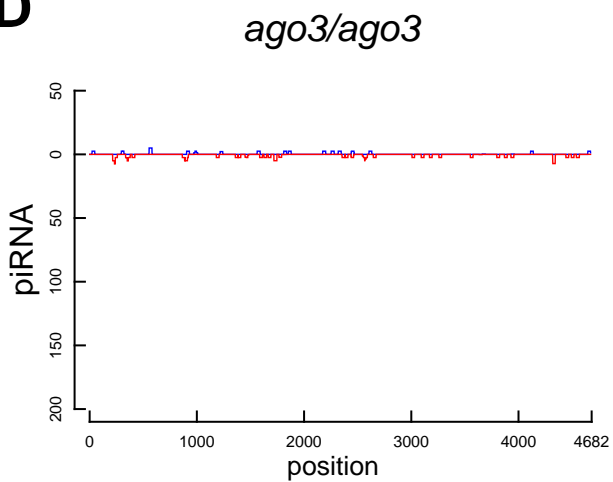
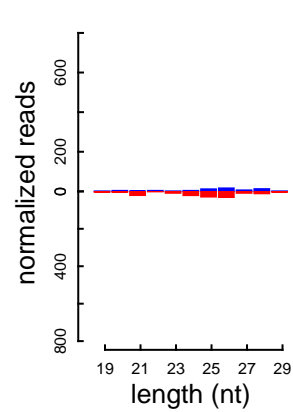
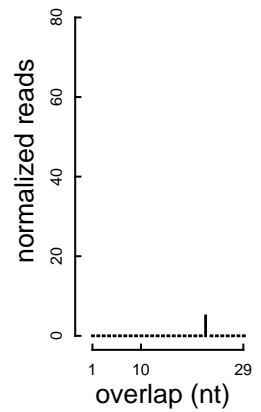
opus

A**B****C****E****G****D****F****H**

Osvaldo

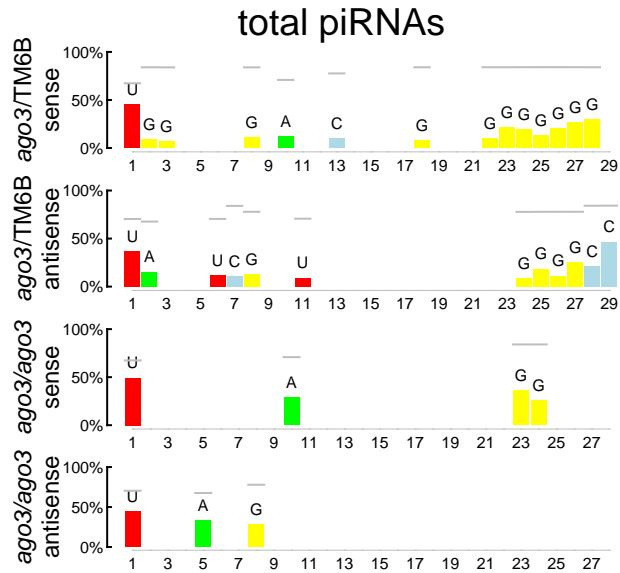
A**B****C****E****G****D****F****H**

Porto1

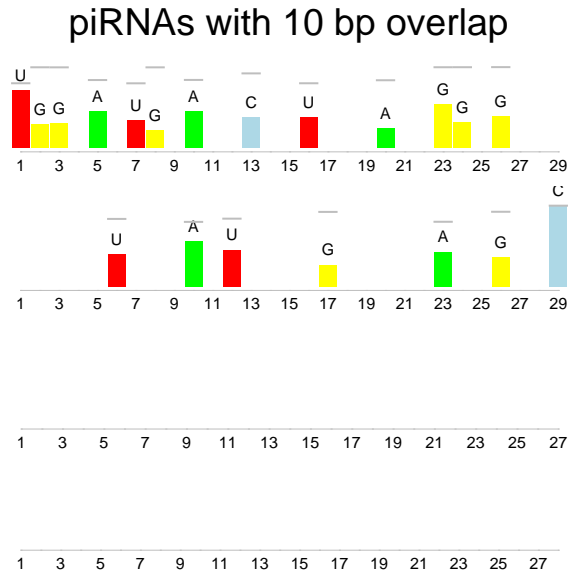
A**B****C****E****G****D****F****H**

Q element

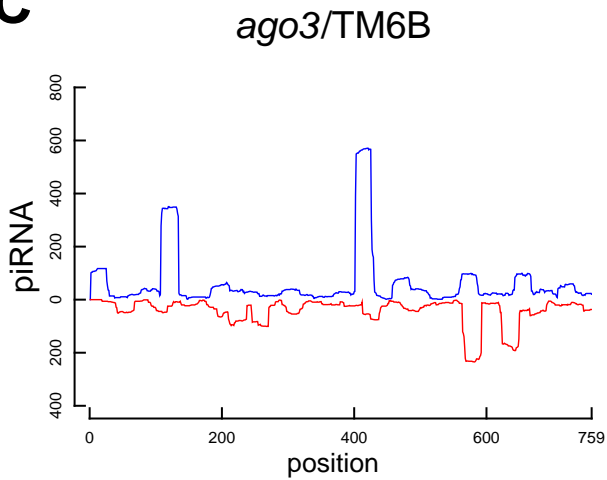
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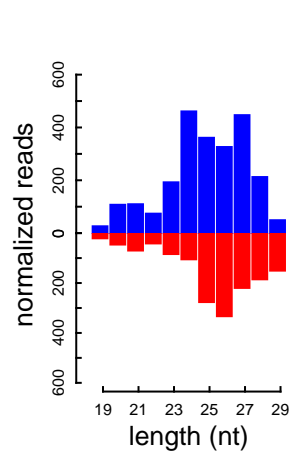
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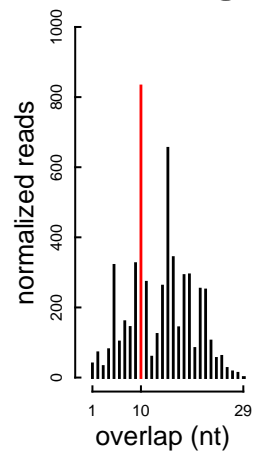
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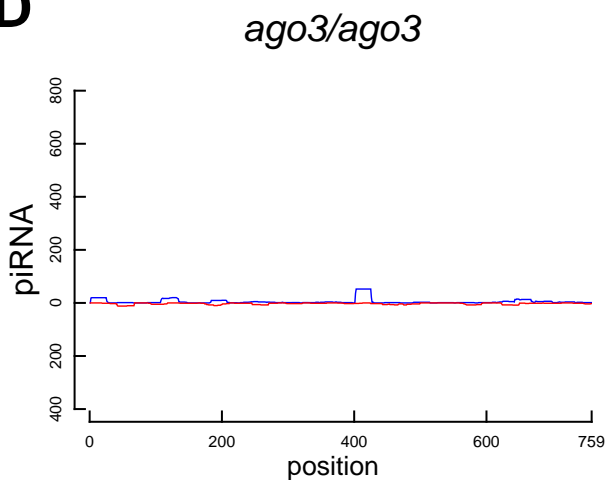
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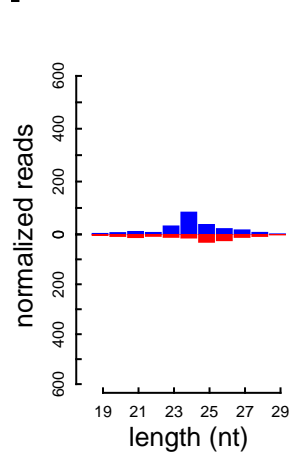
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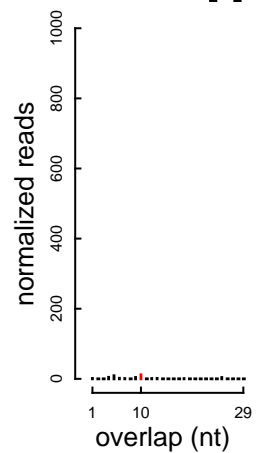
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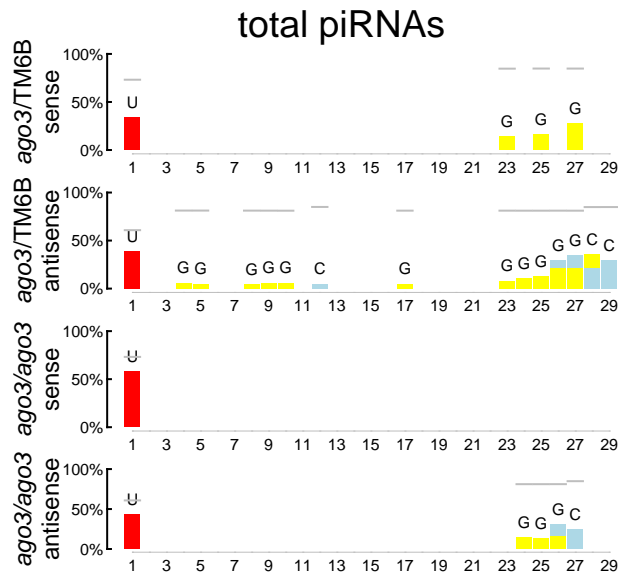
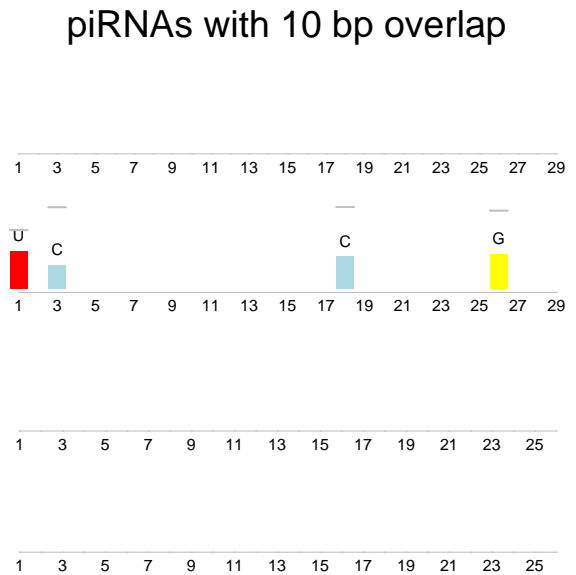
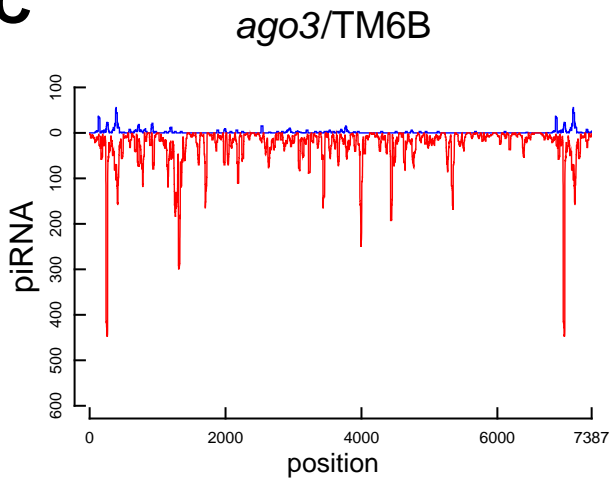
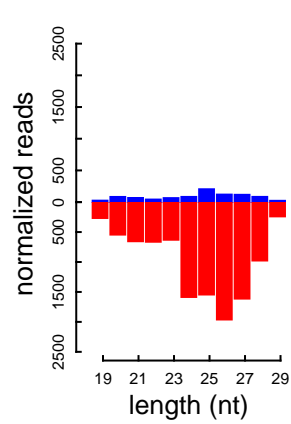
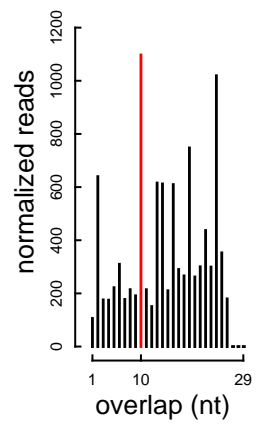
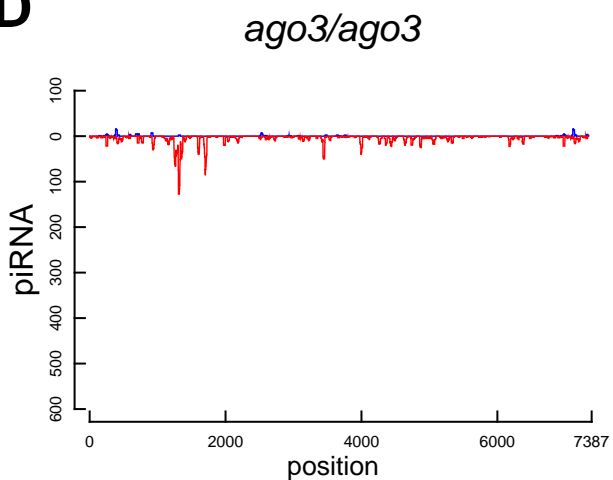
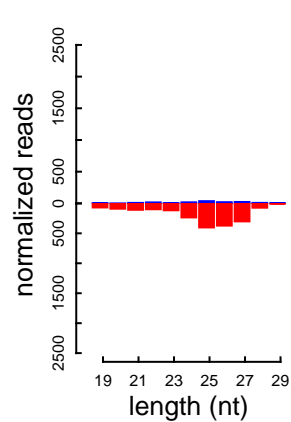
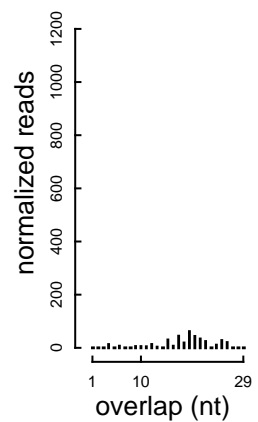
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H

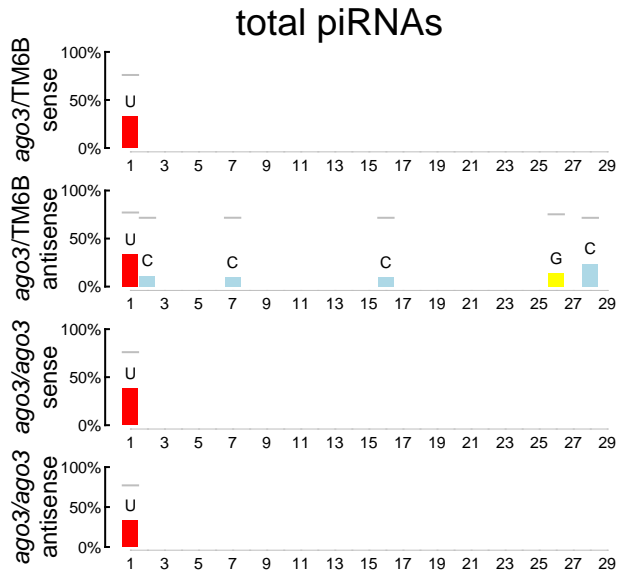


Quasimodo

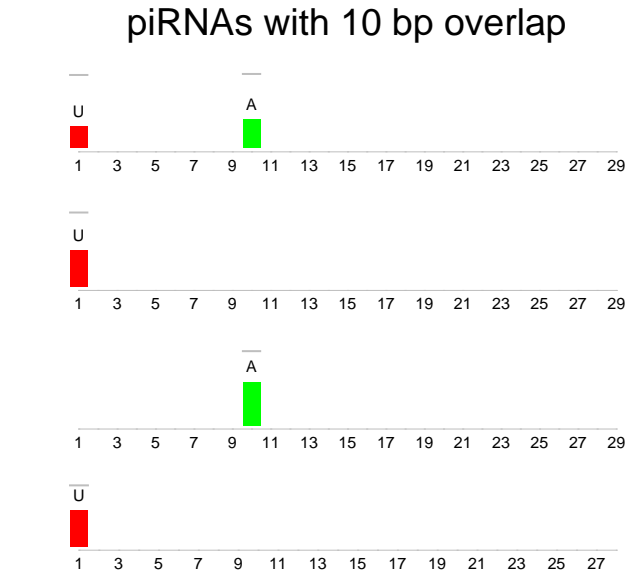
A**B****C****E****G****D****F****H**

R1 2

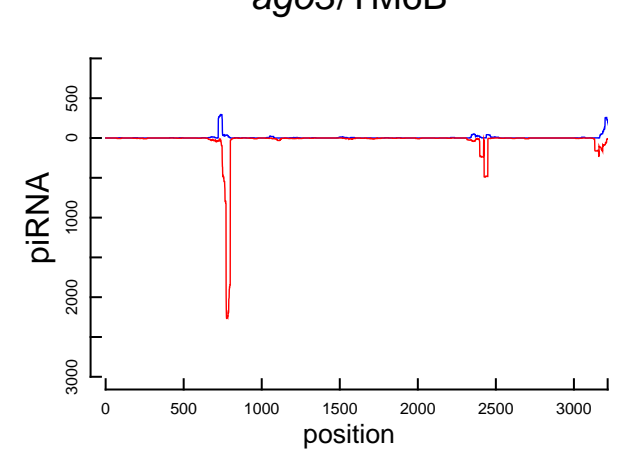
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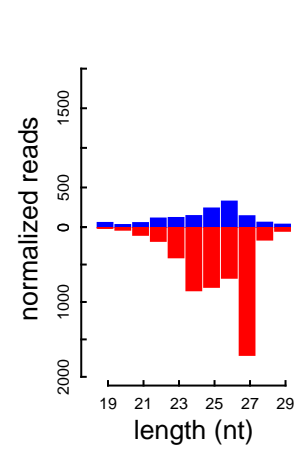
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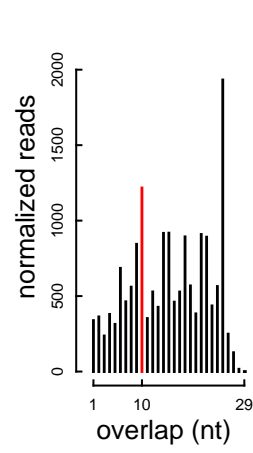
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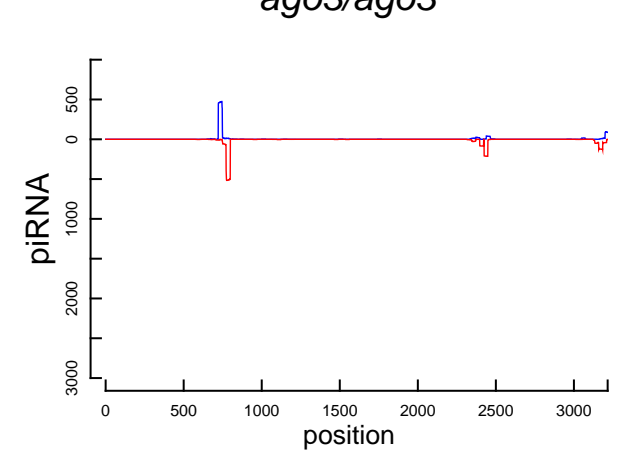
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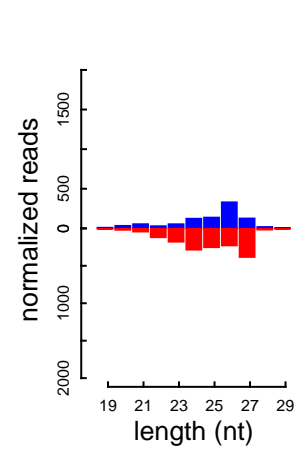
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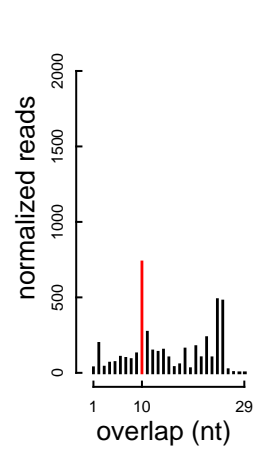
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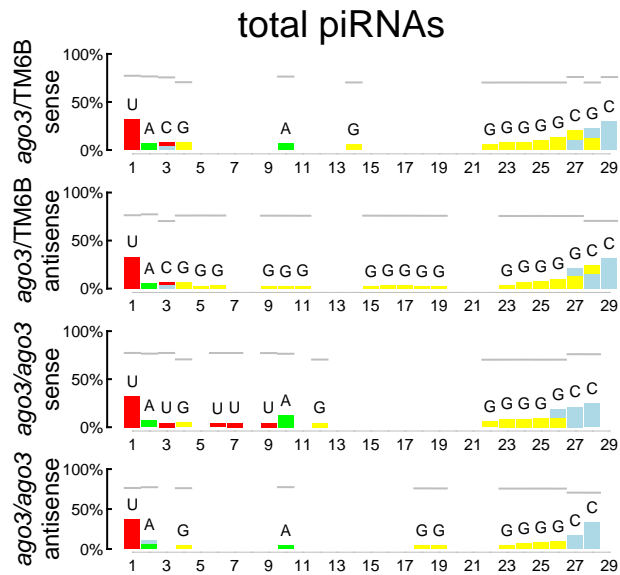
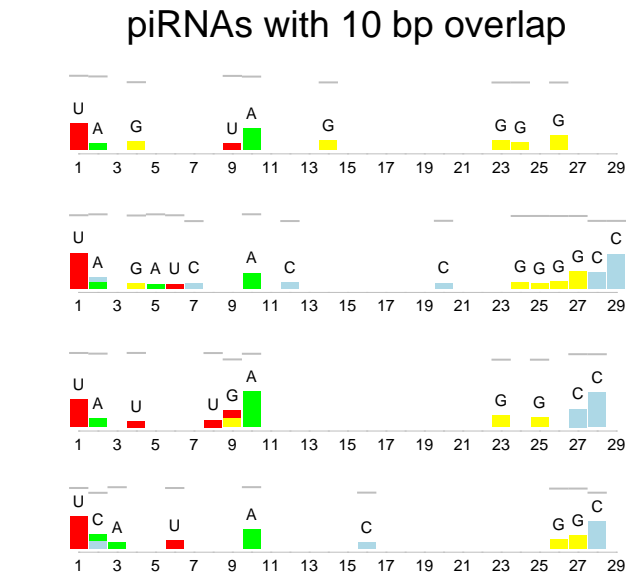
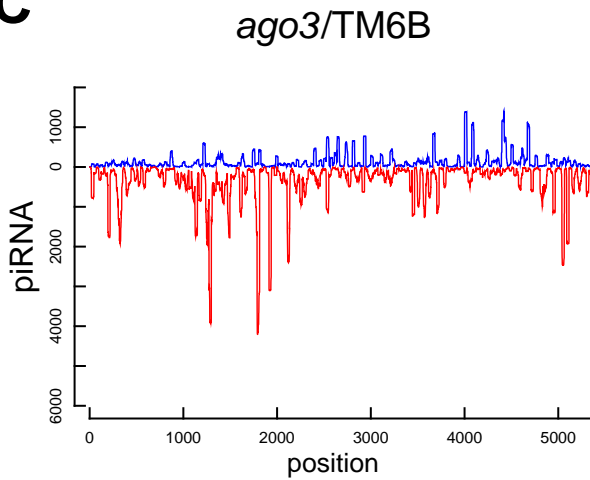
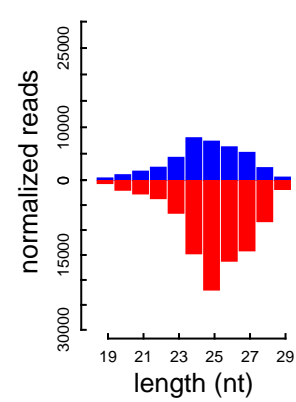
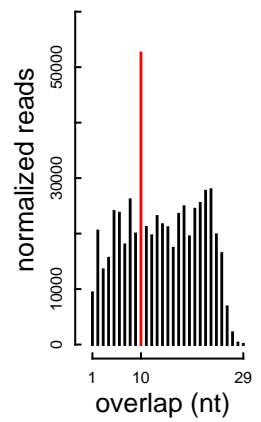
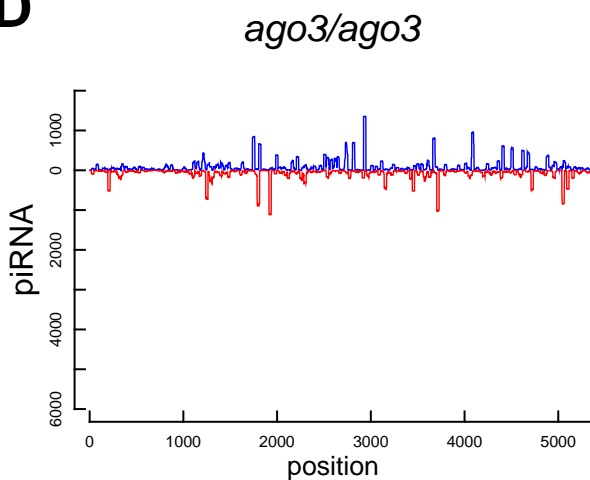
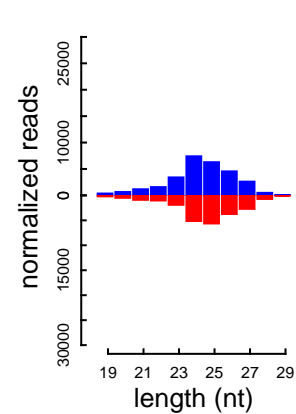
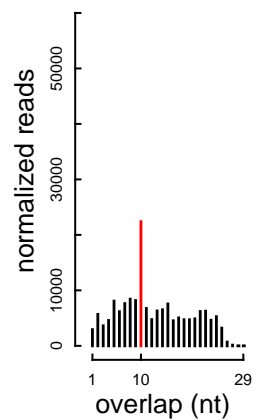
F



H

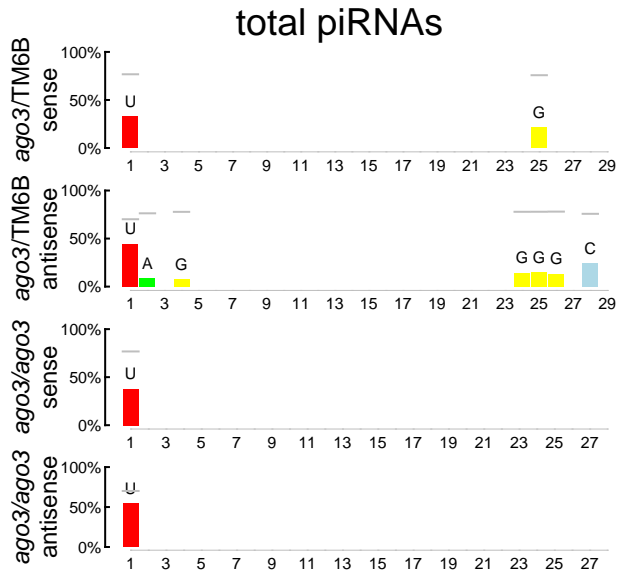


R1A1 element

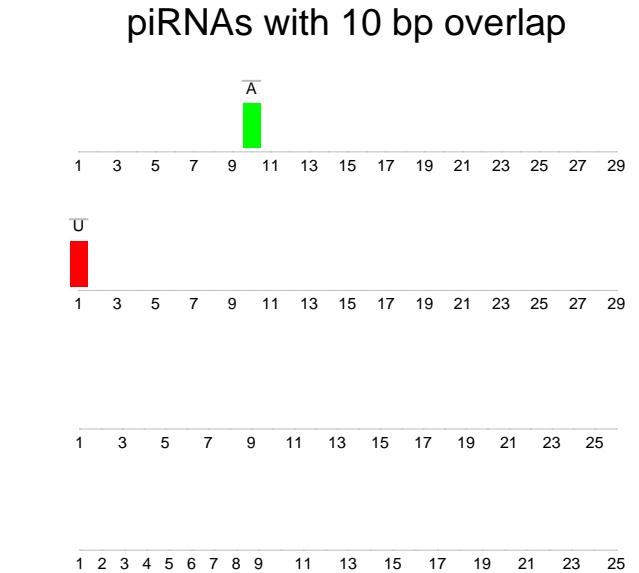
A**B****C****E****G****D****F****H**

R2 element

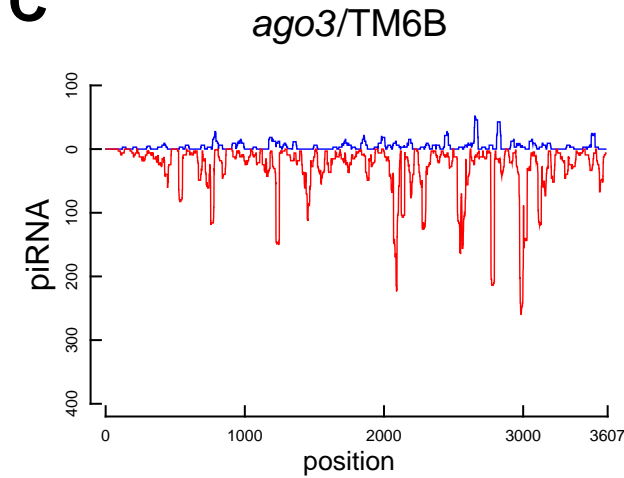
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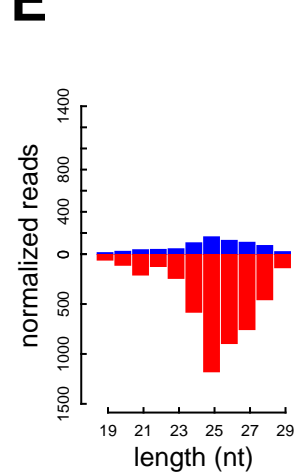
B



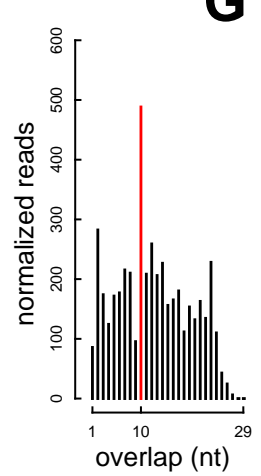
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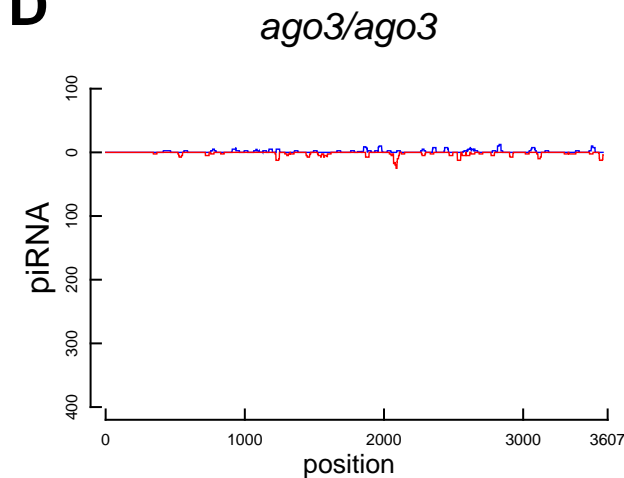
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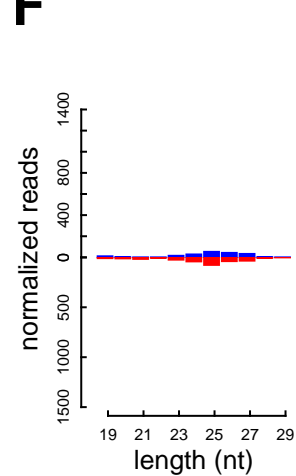
G



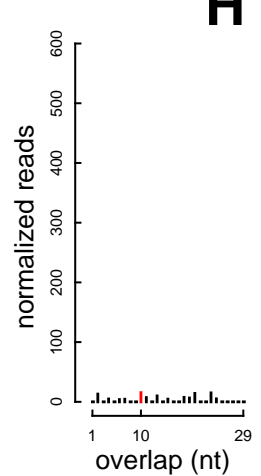
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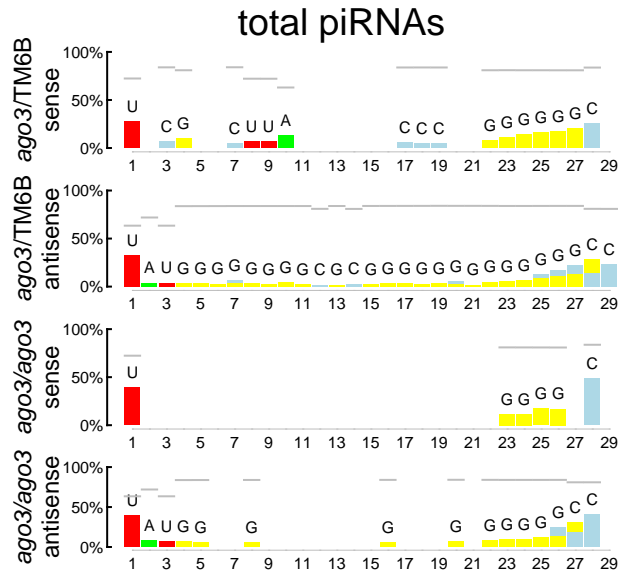
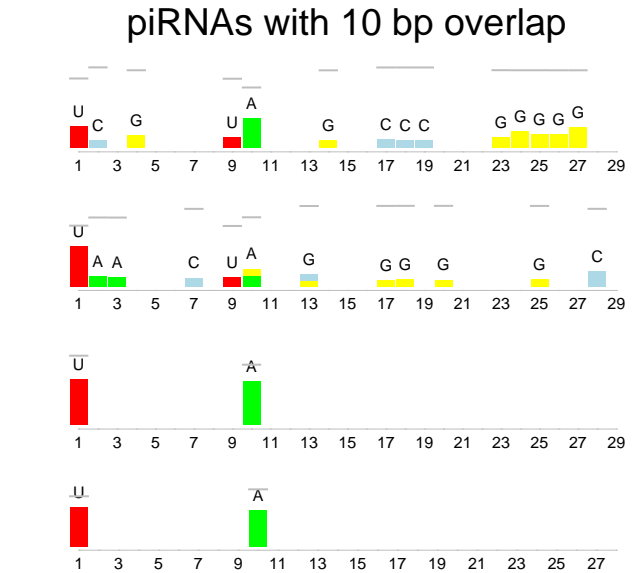
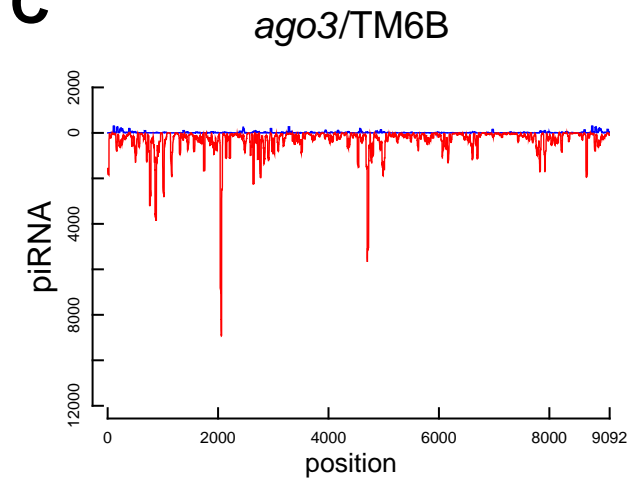
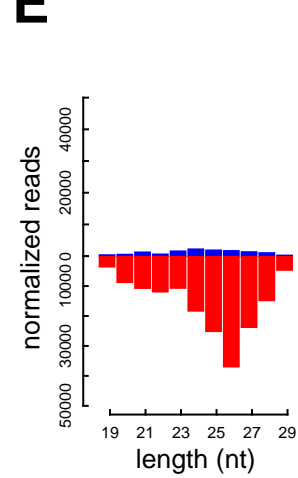
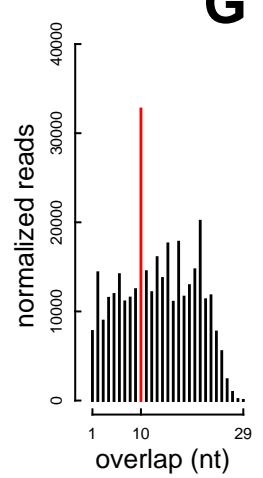
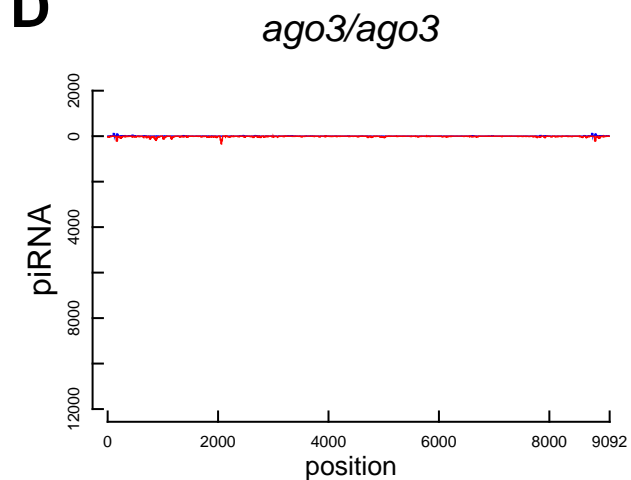
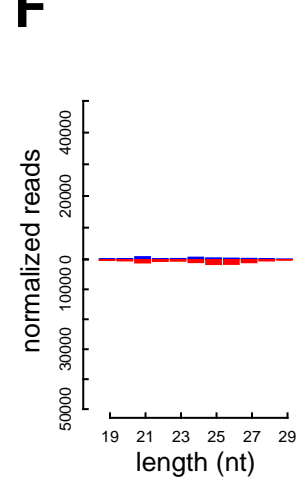
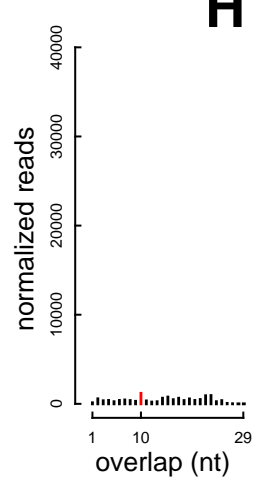
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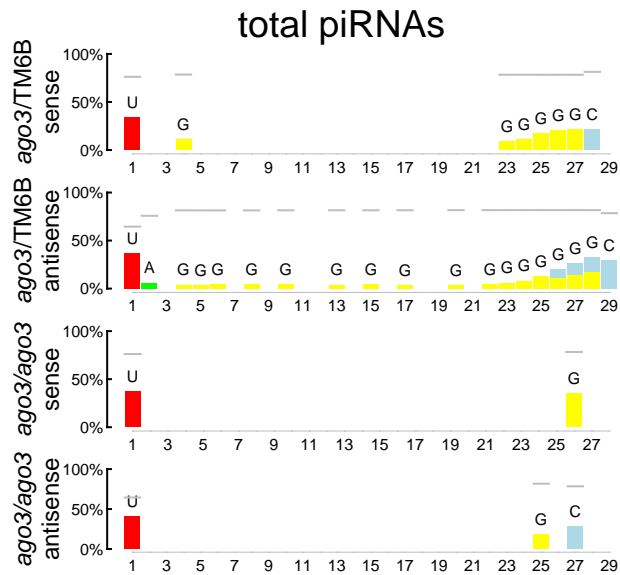
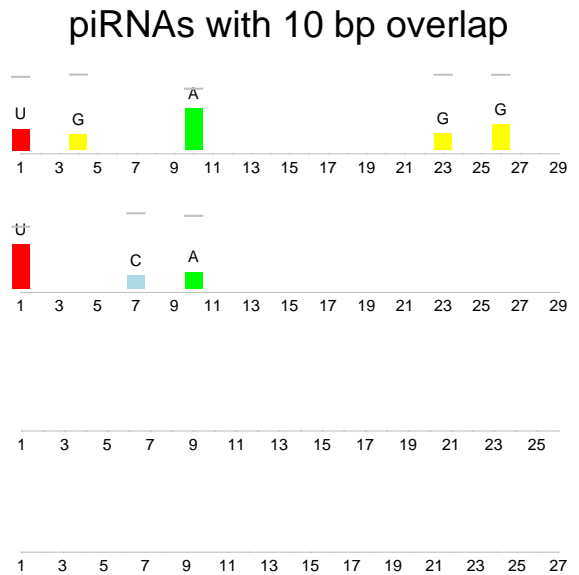
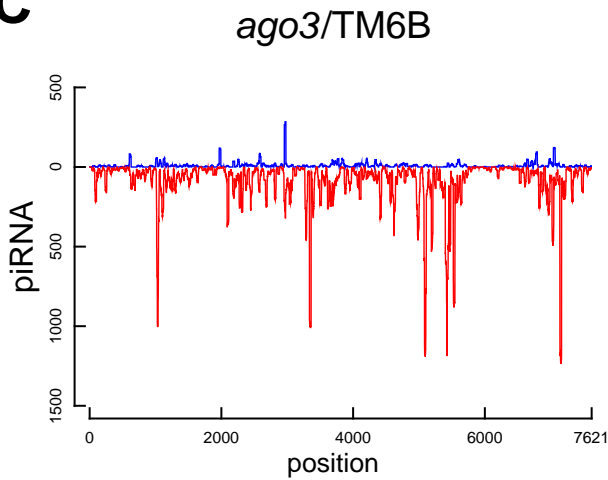
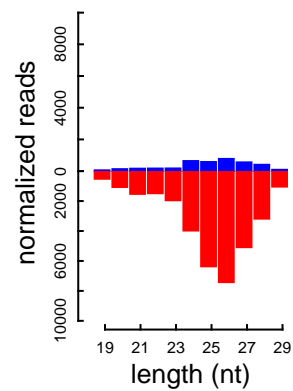
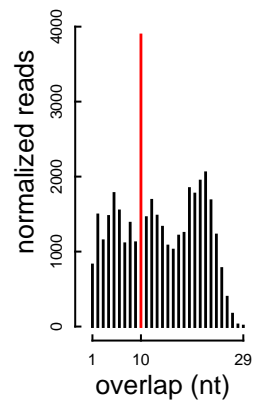
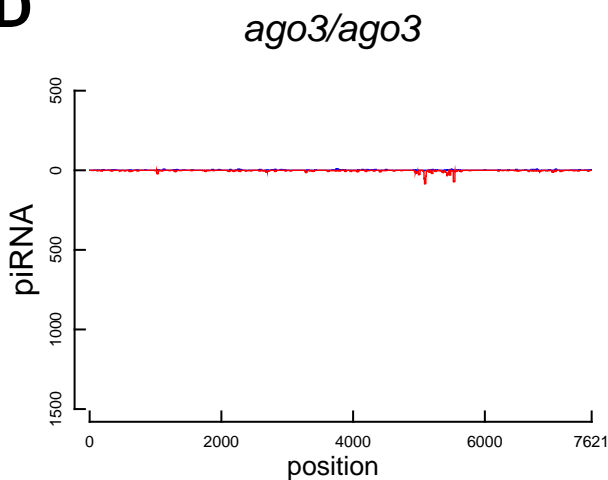
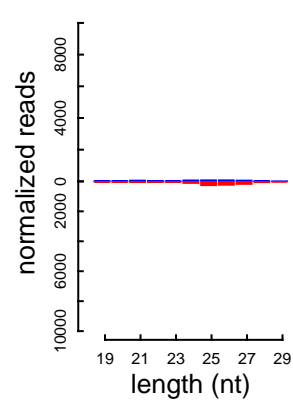
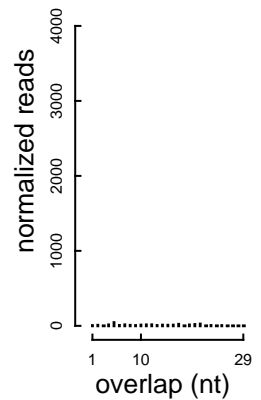
H



roo

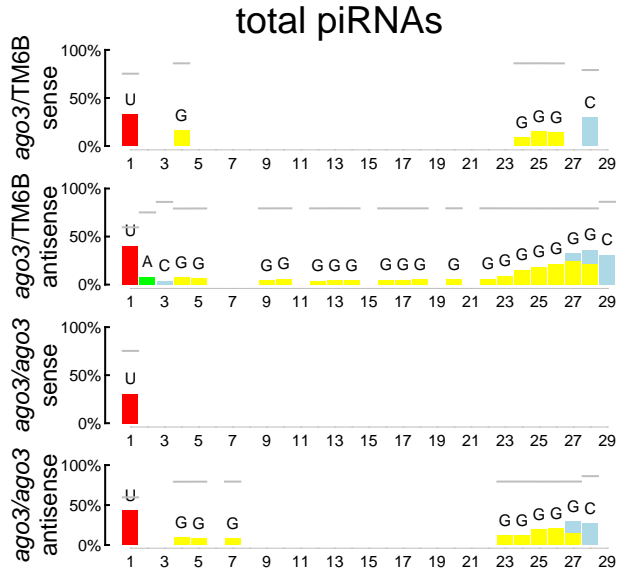
A**B****C****E****G****D****F****H**

rooA

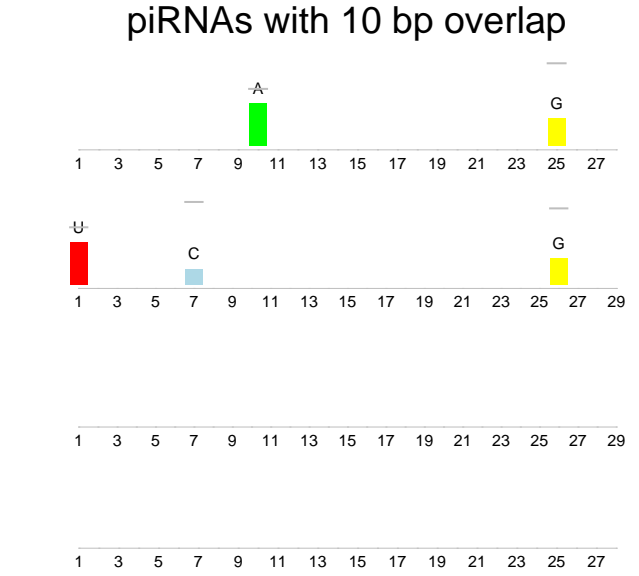
A**B****C****E****G****D****F****H**

rover

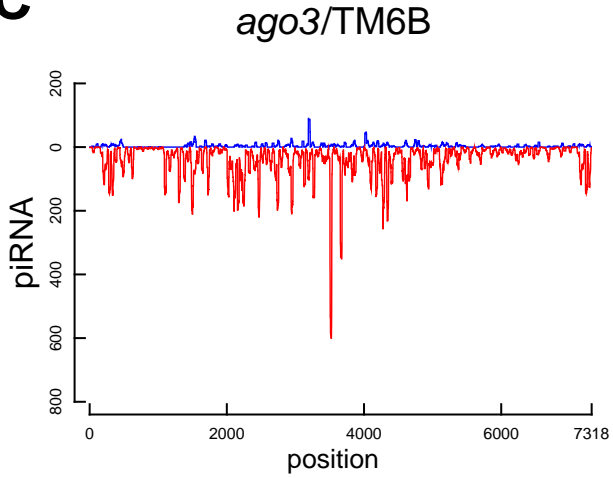
A



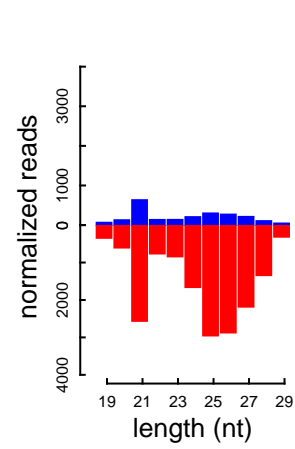
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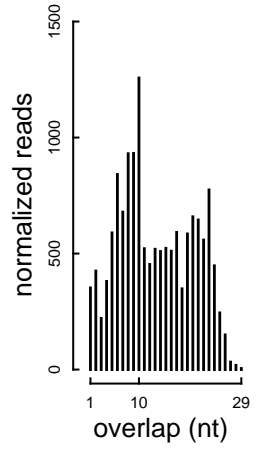
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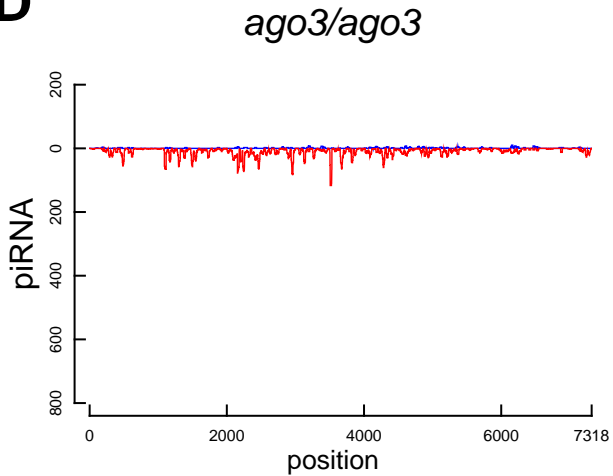
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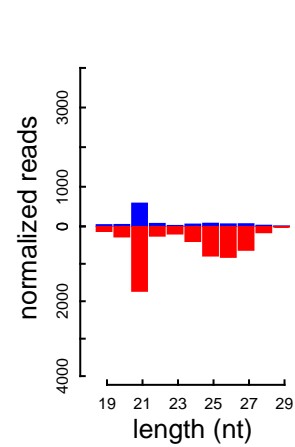
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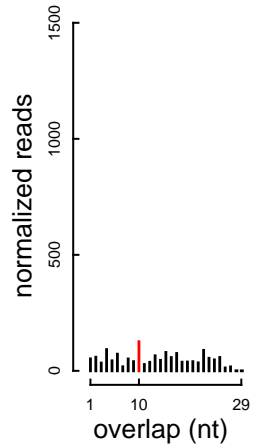
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F

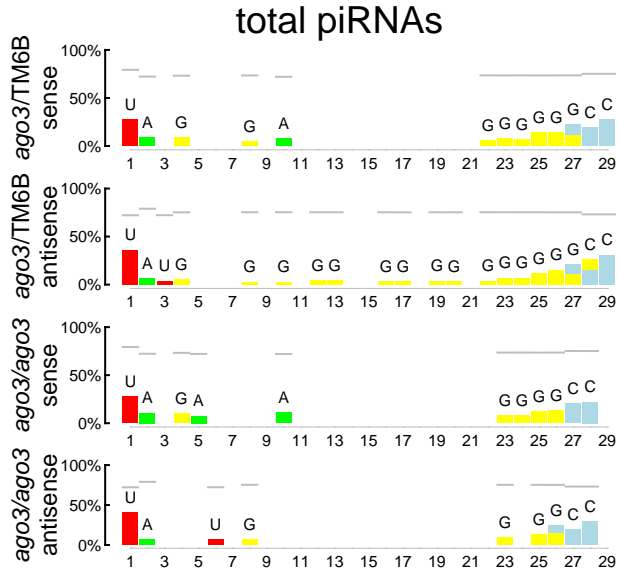


H

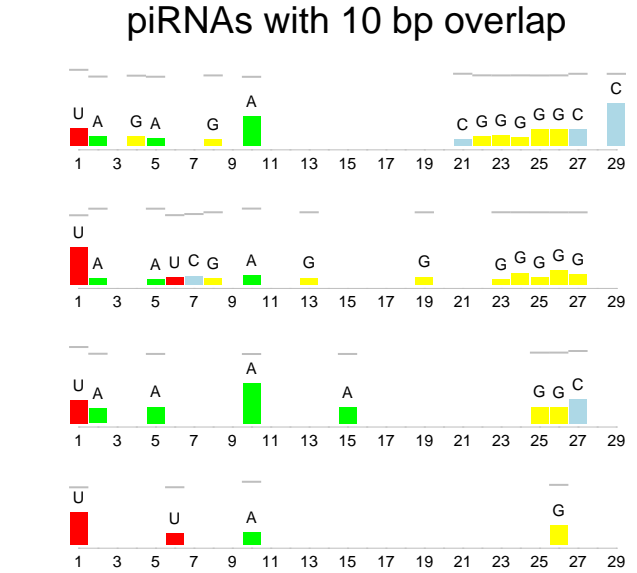


Rt1a

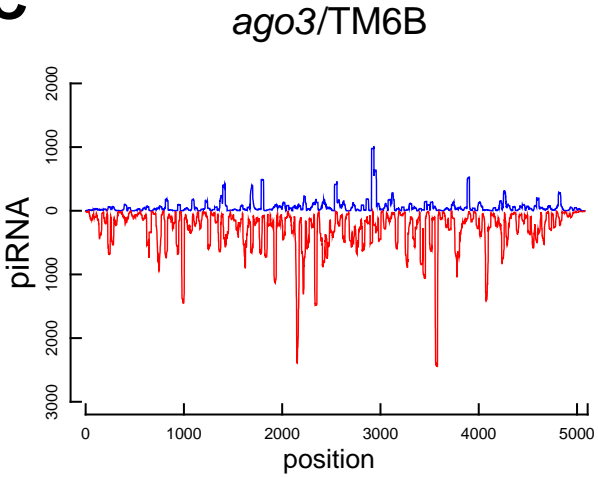
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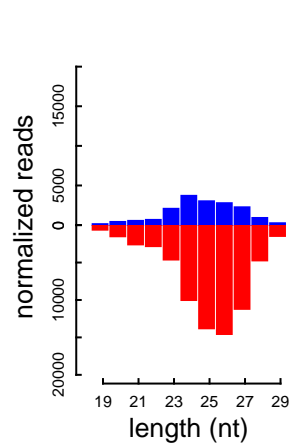
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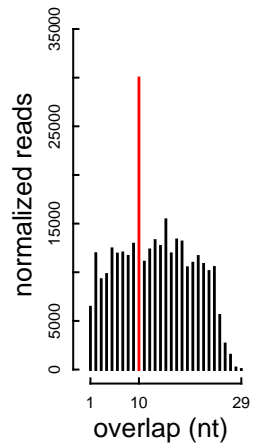
C



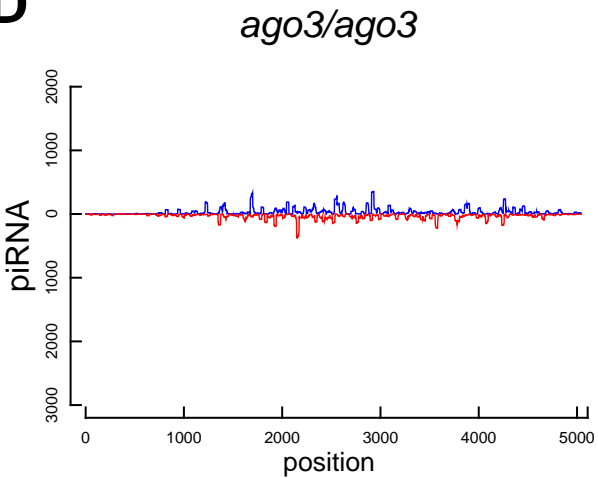
E



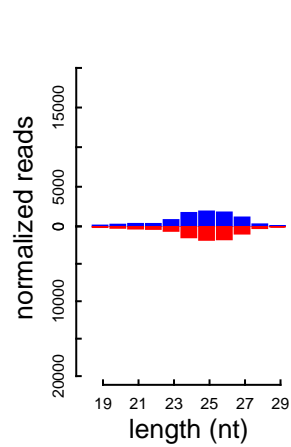
G



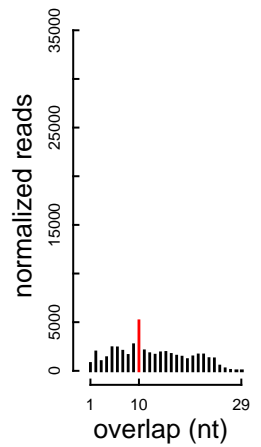
D



F

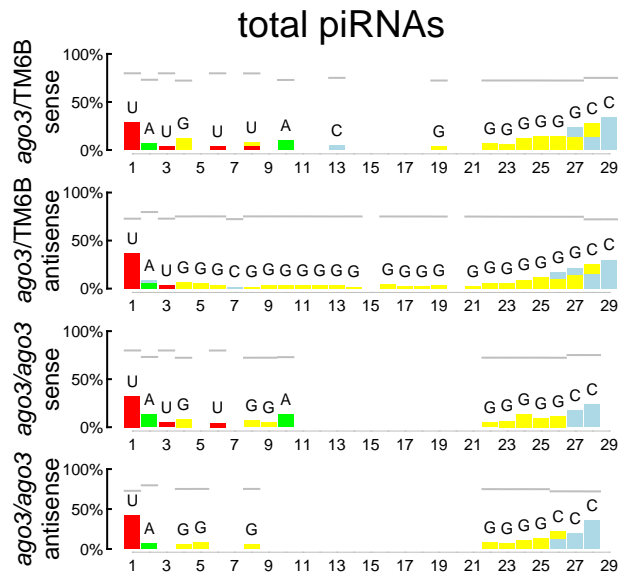


H

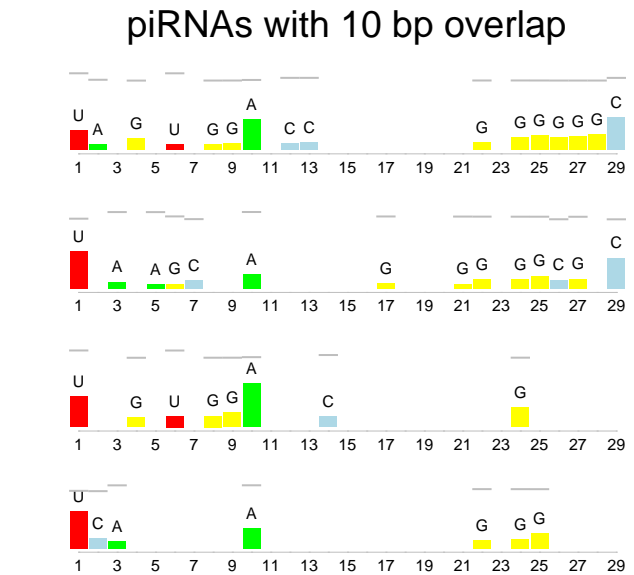


Rt1b

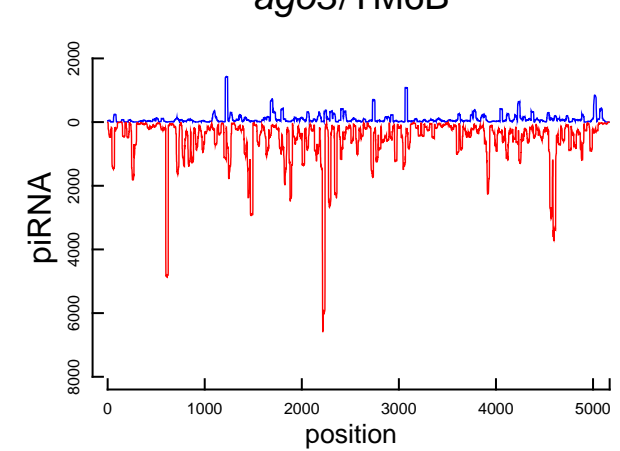
A



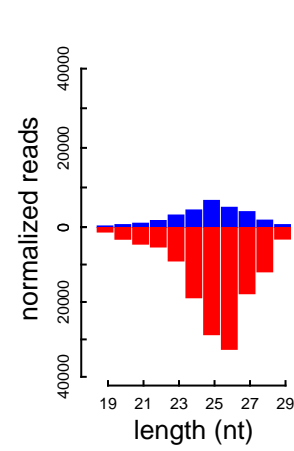
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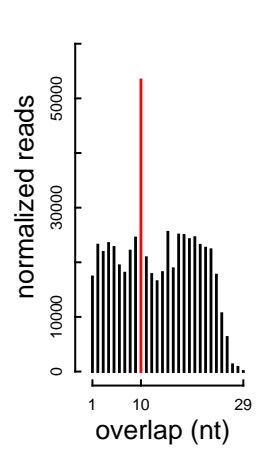
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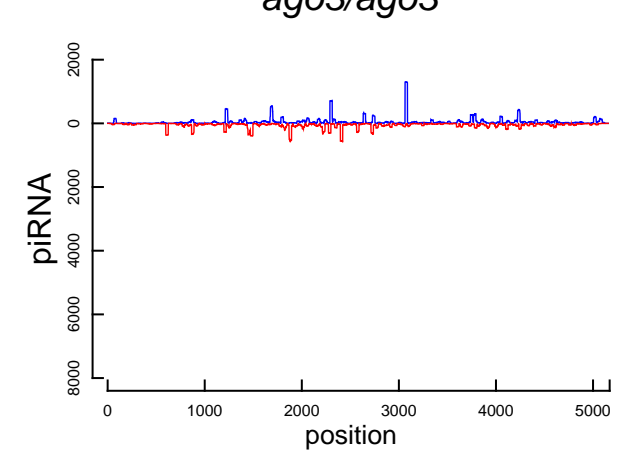
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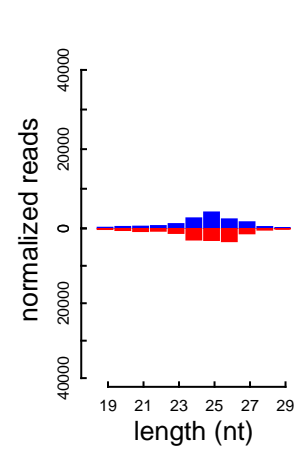
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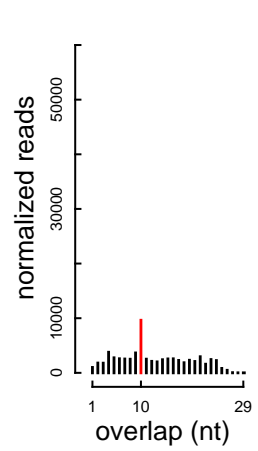
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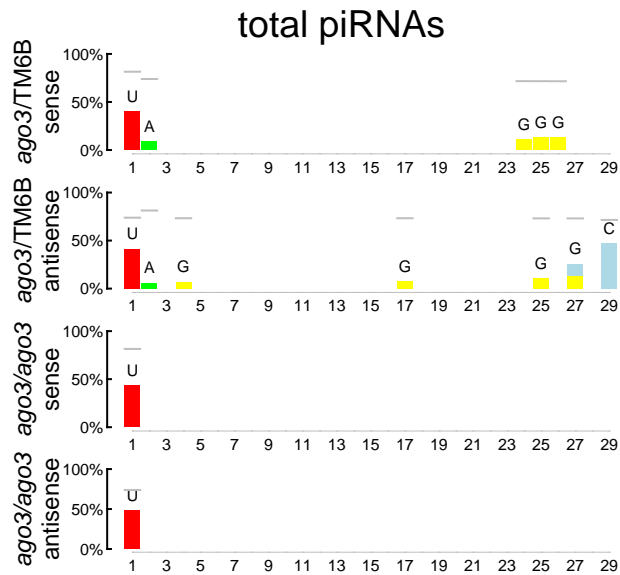
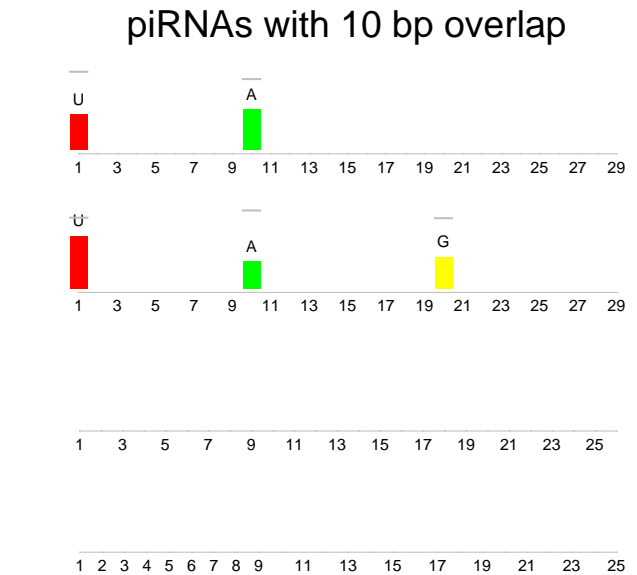
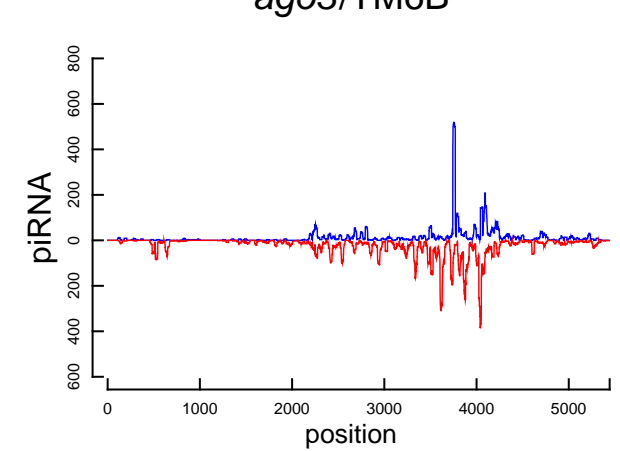
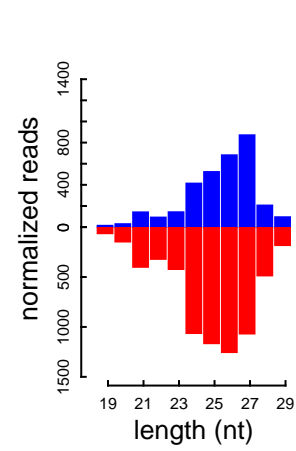
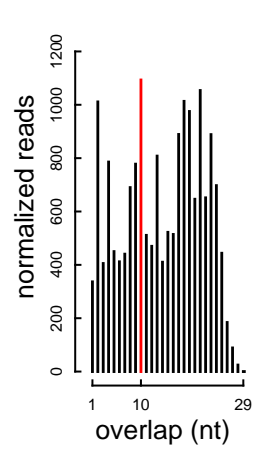
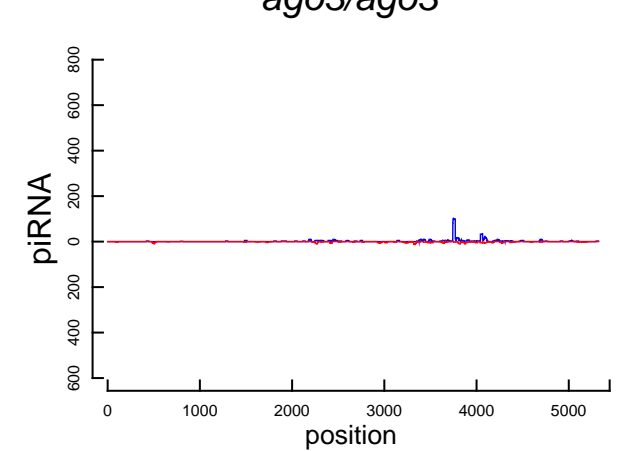
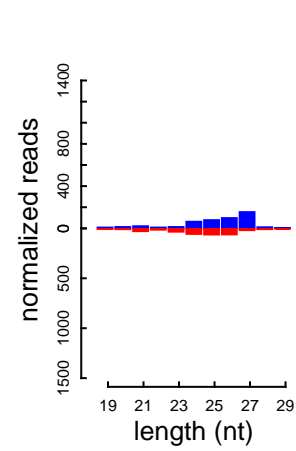
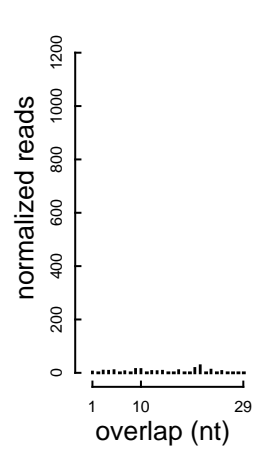
F



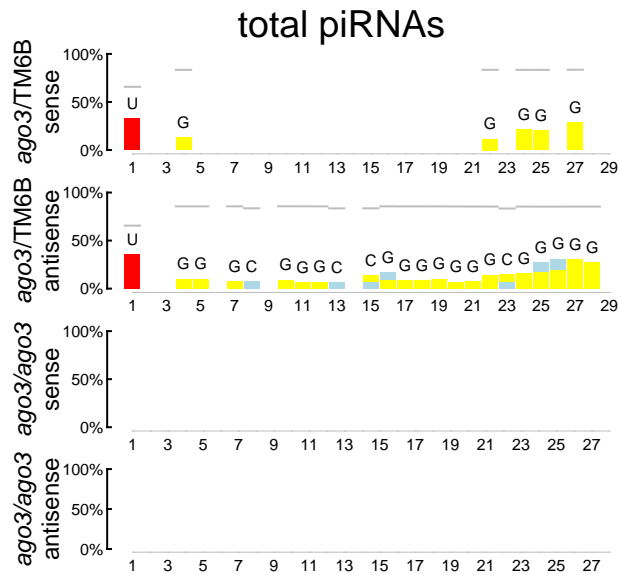
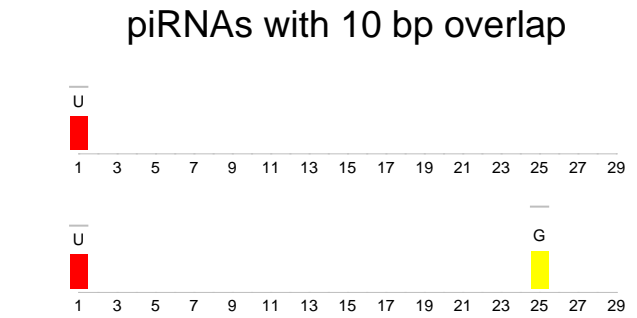
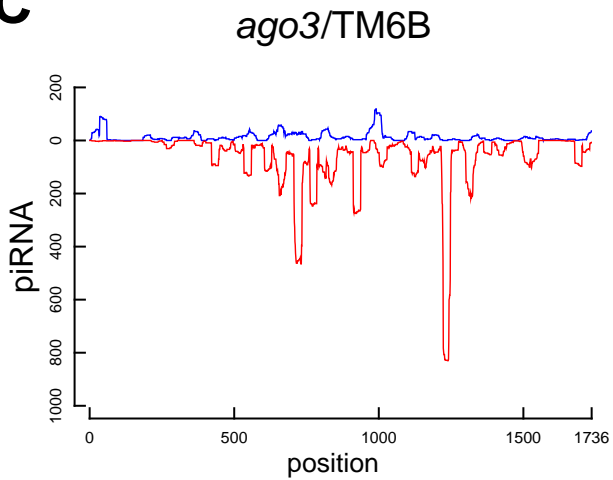
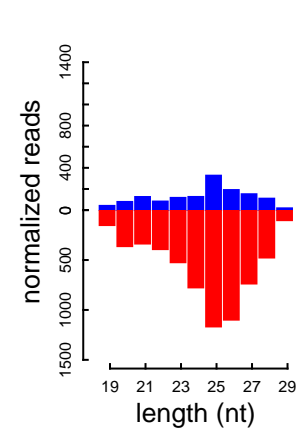
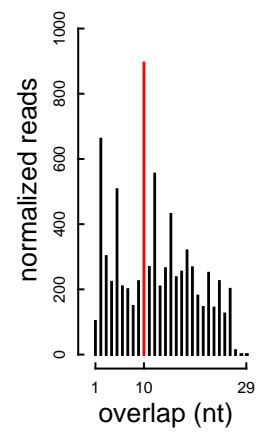
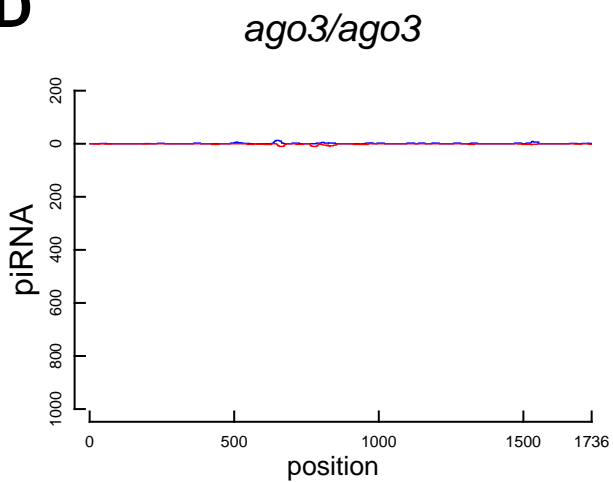
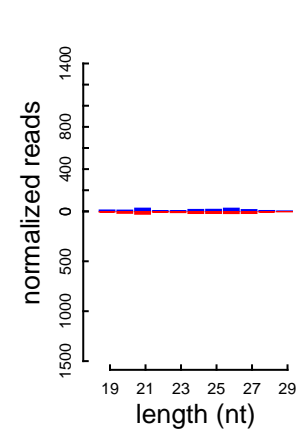
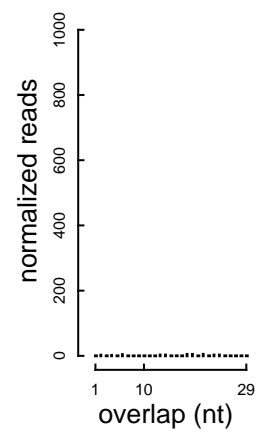
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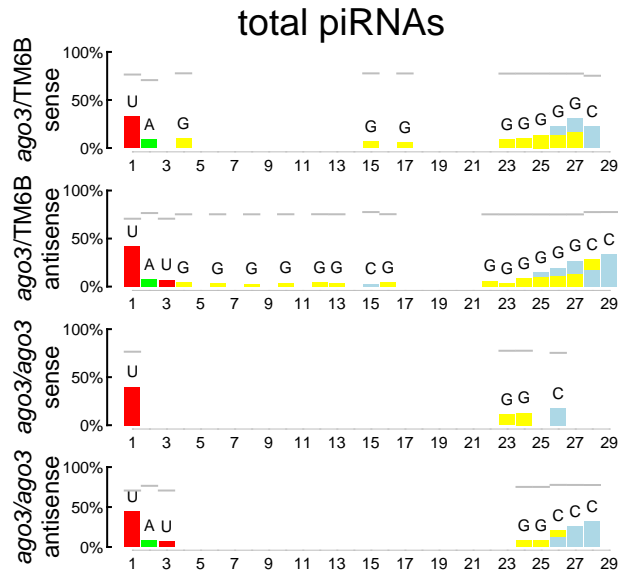
Rt1c

A**B****C****E****G****D****F****H**

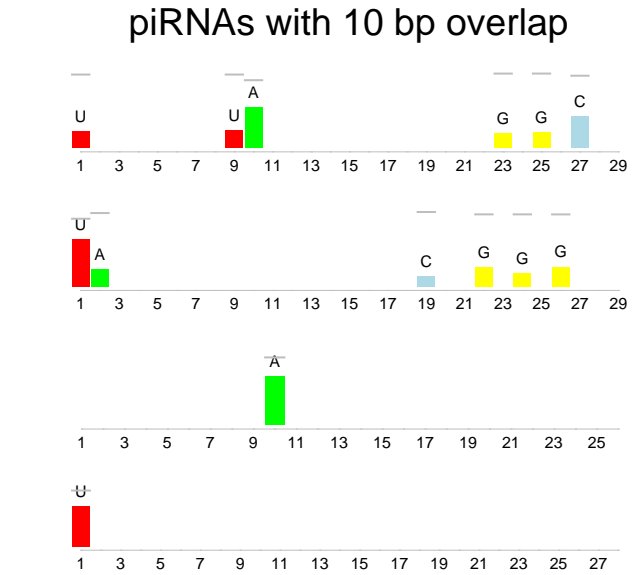
S element

A**B****C****E****G****D****F****H**

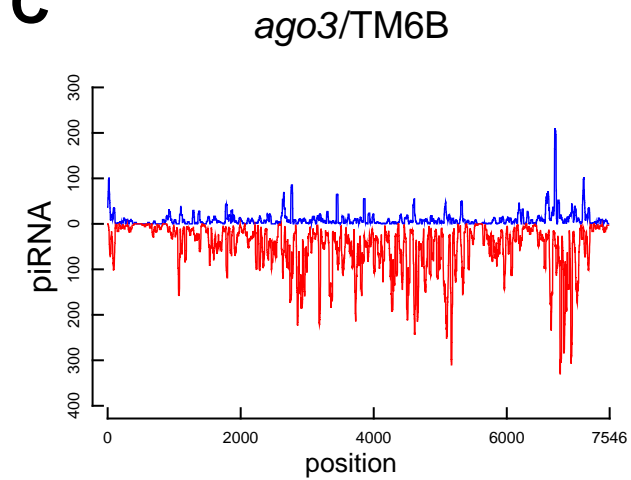
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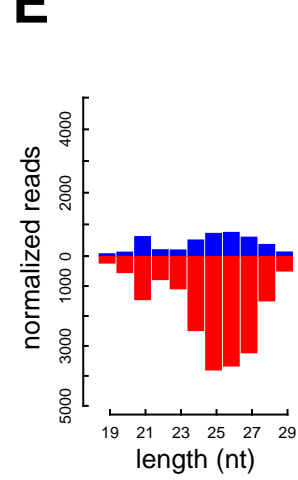
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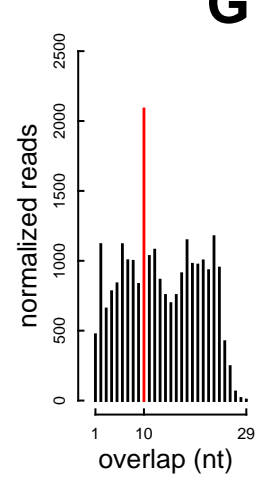
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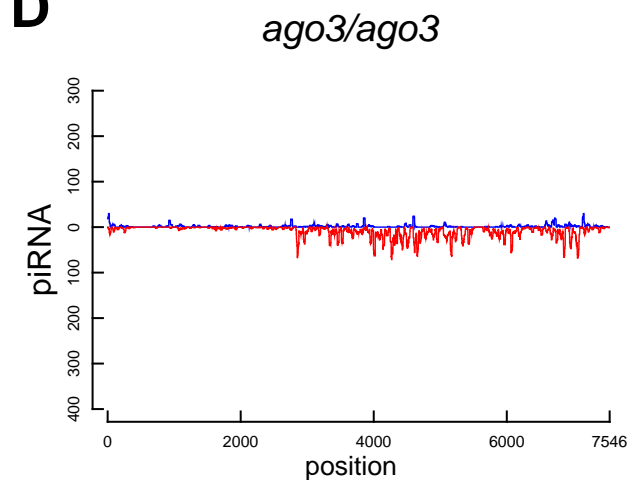
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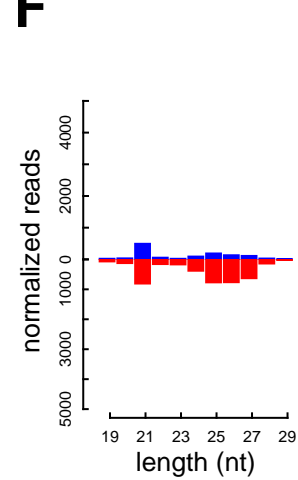
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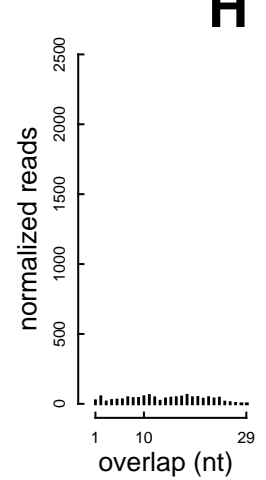
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F

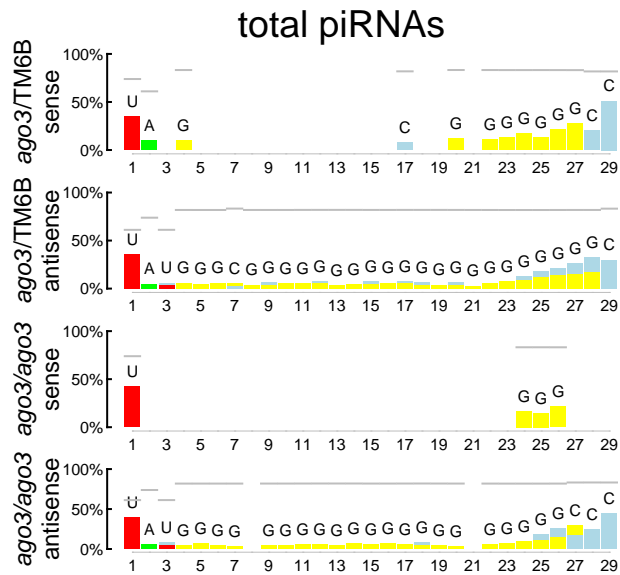


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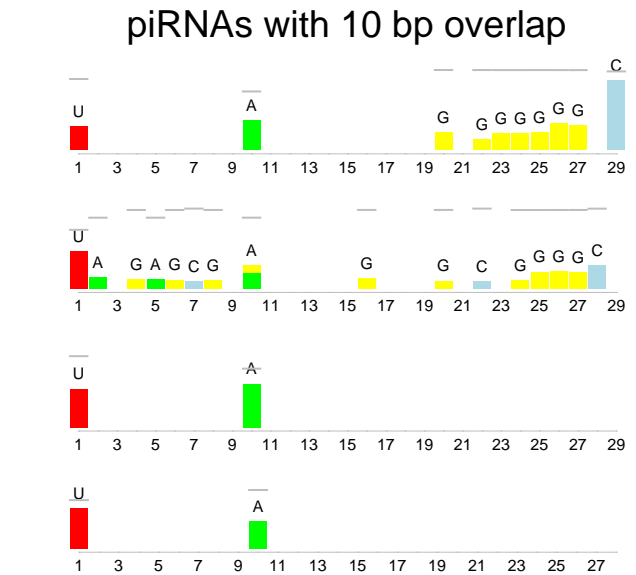


Stalker

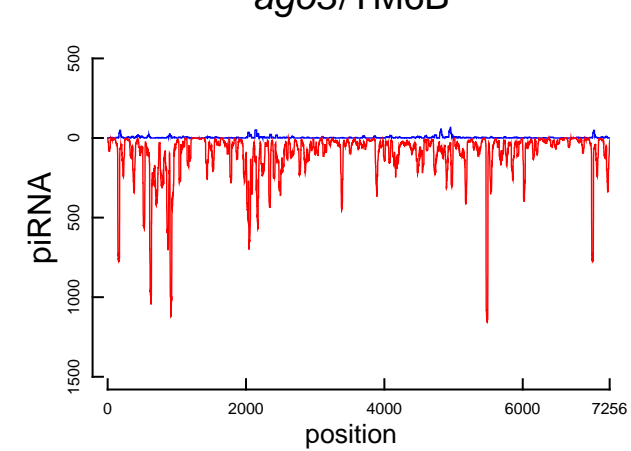
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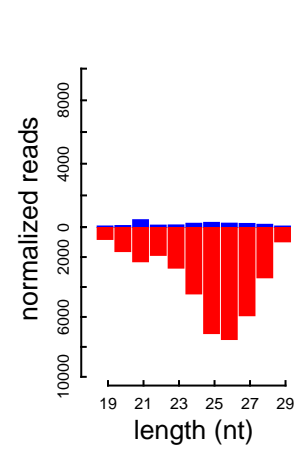
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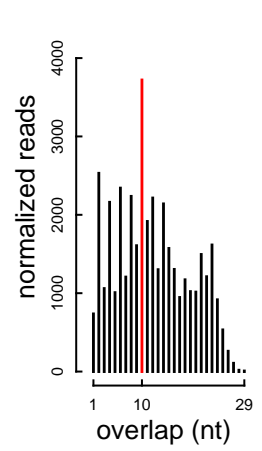
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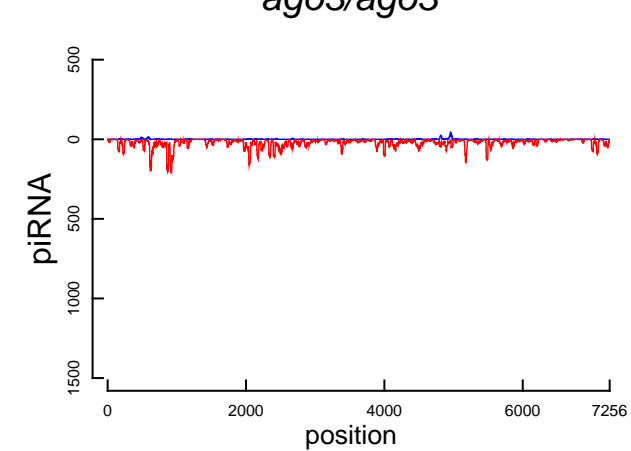
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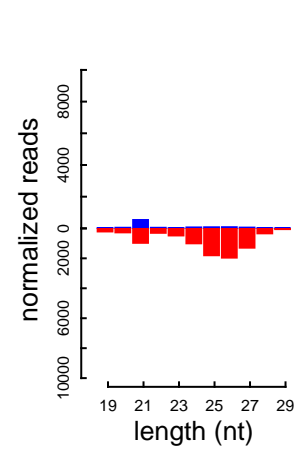
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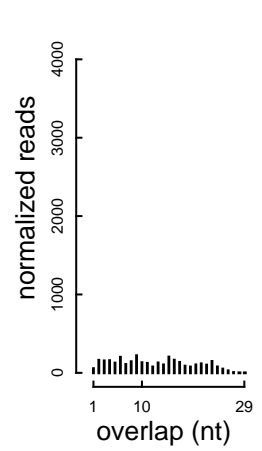
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F

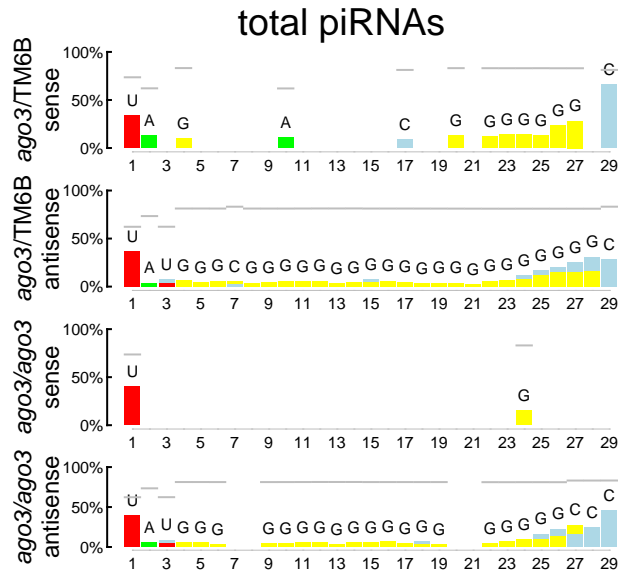


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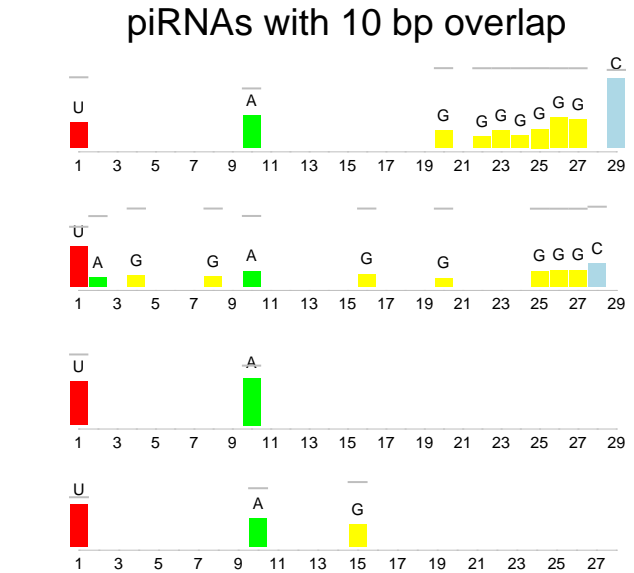


Stalker2

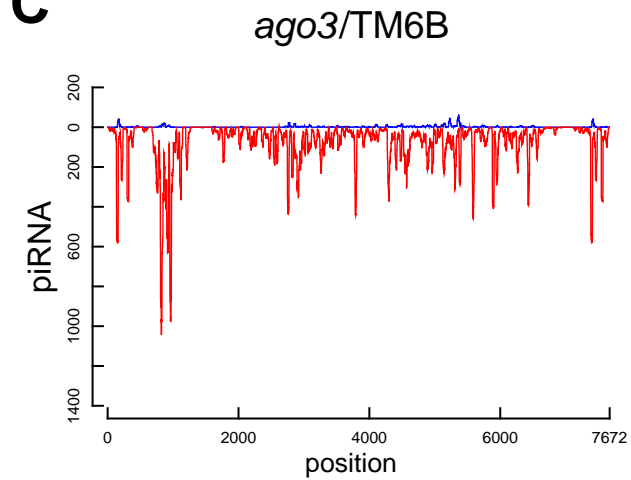
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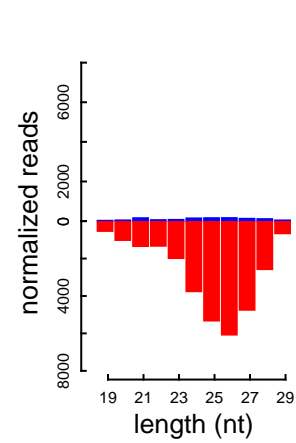
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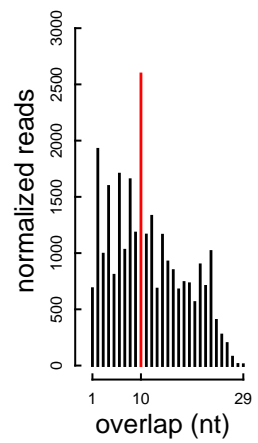
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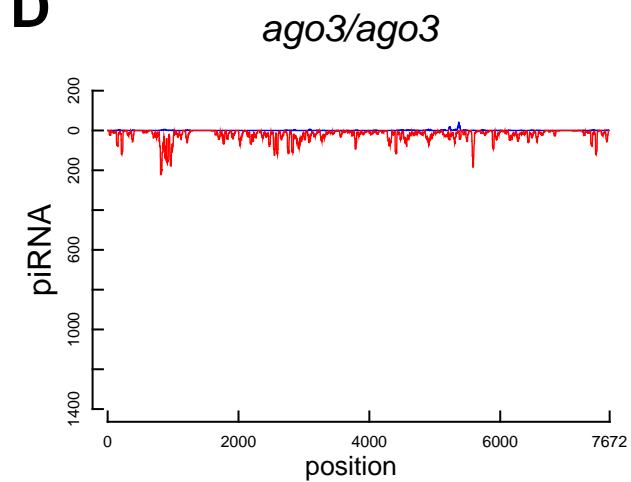
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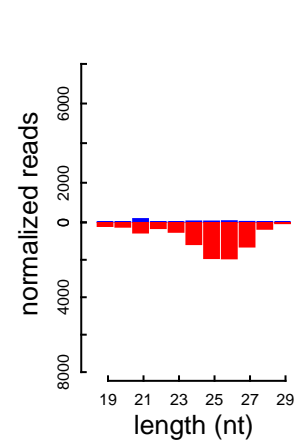
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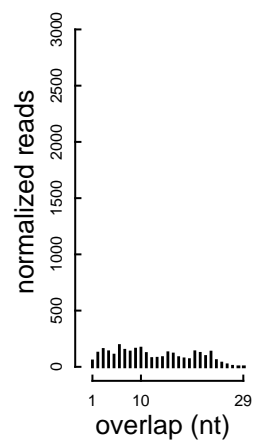
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F

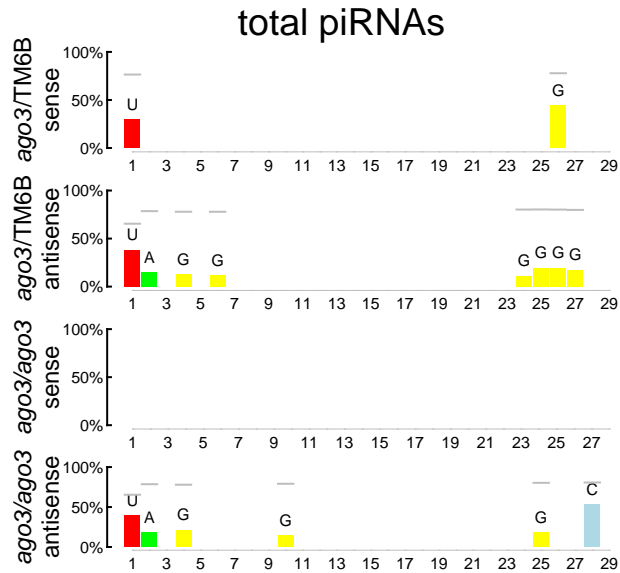


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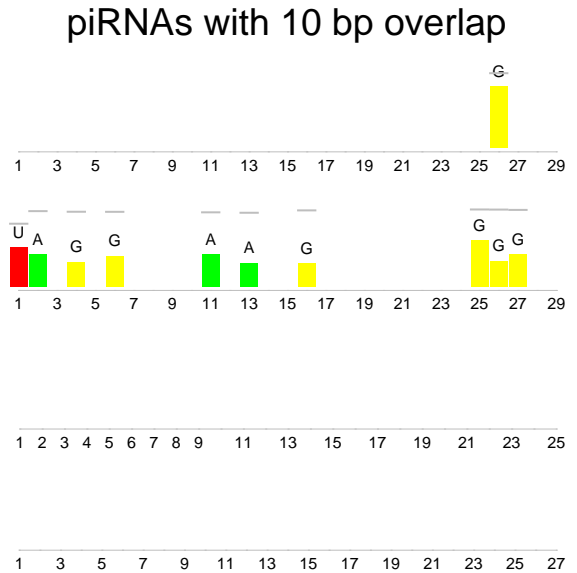


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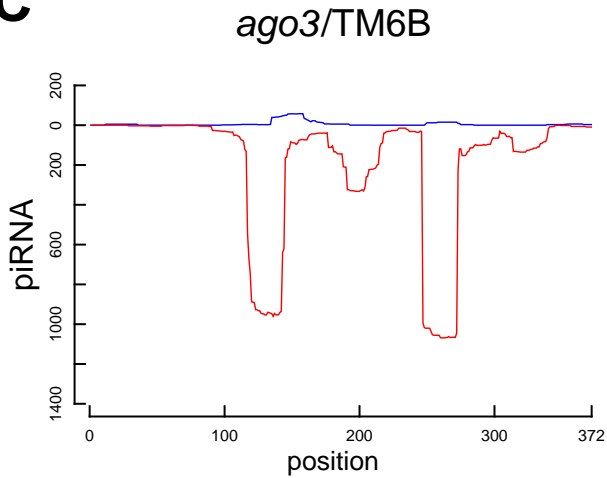
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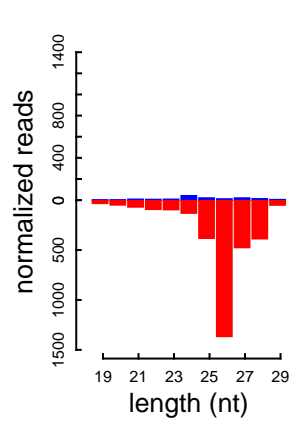
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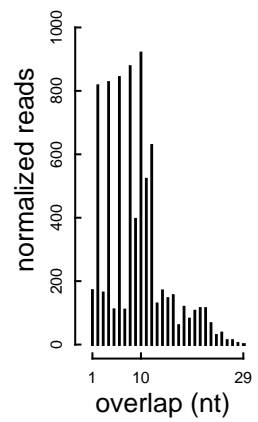
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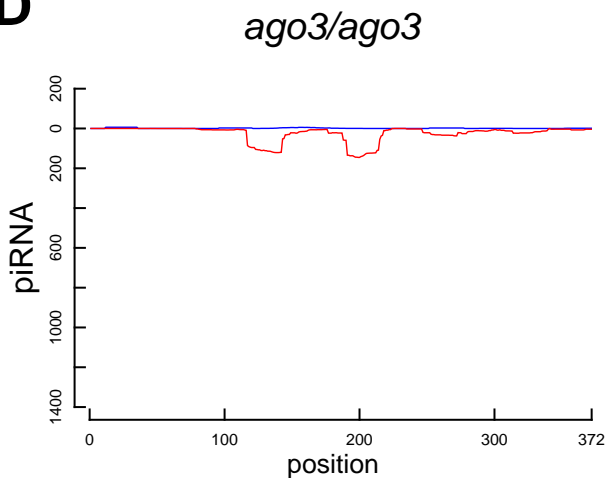
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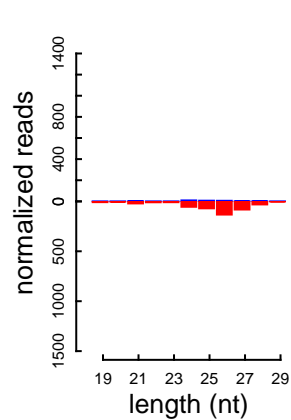
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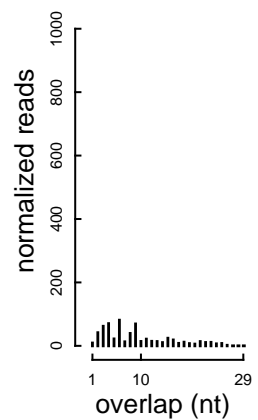
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F

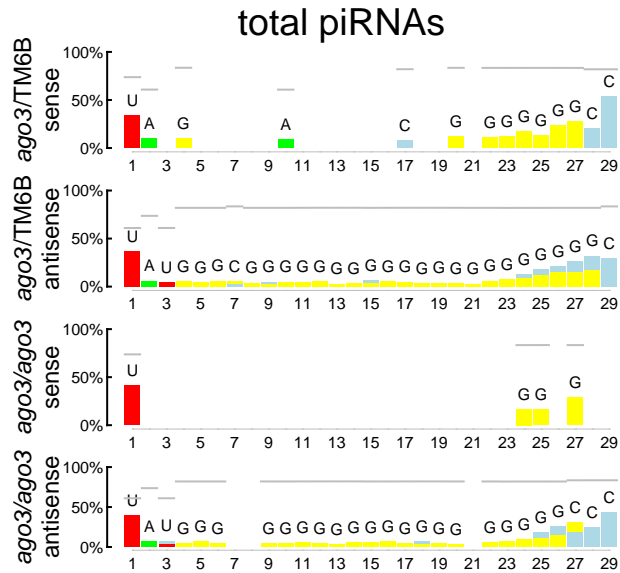


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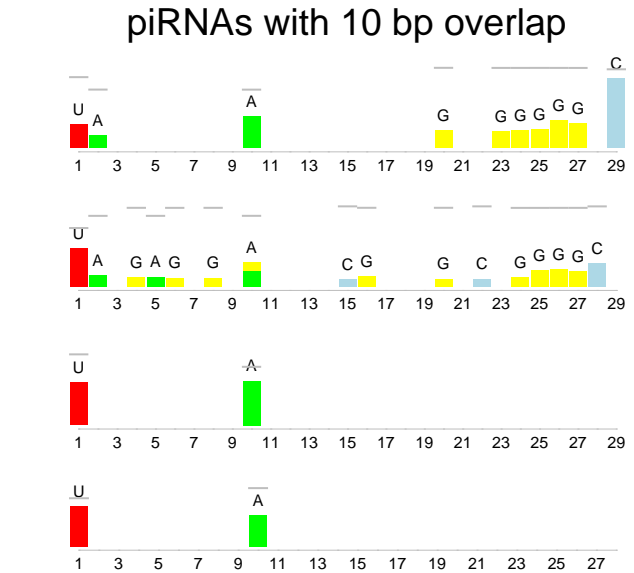


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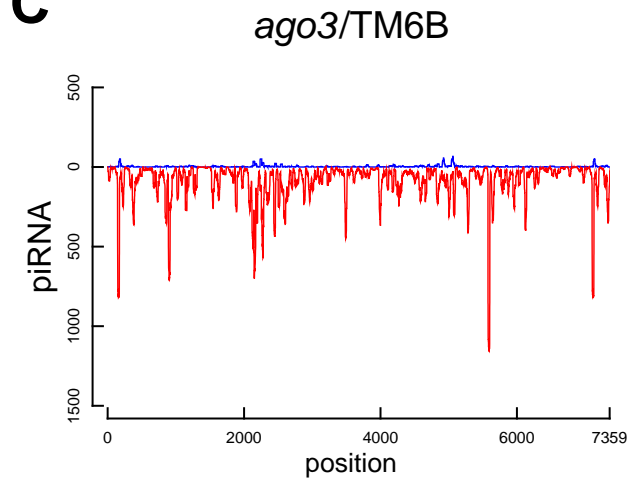
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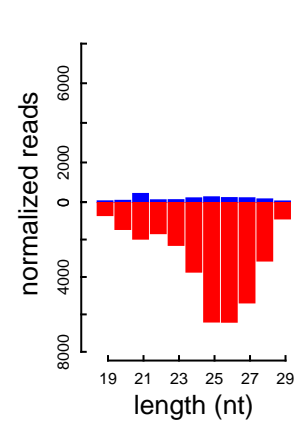
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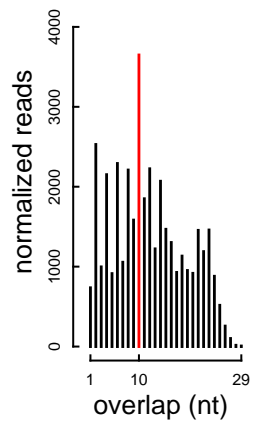
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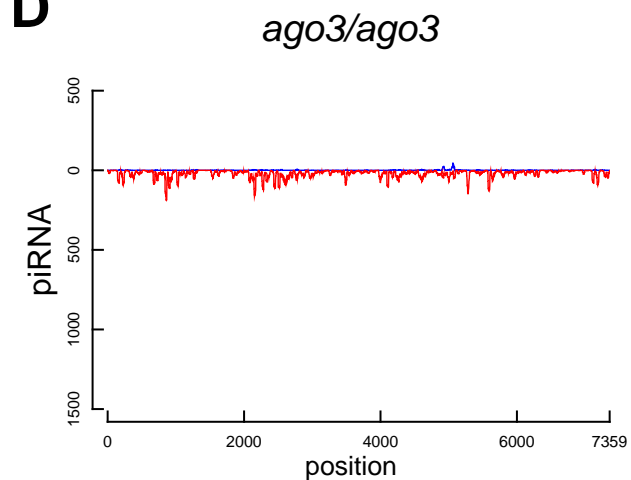
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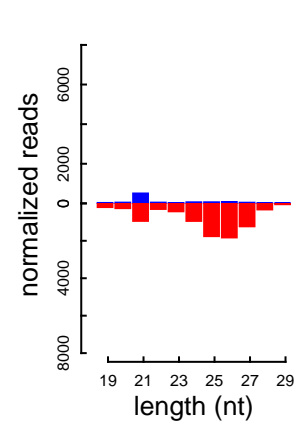
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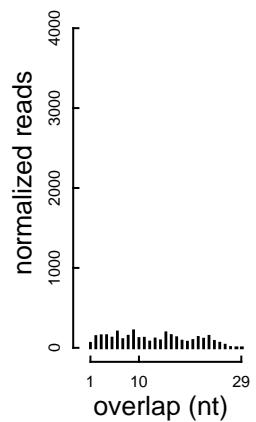
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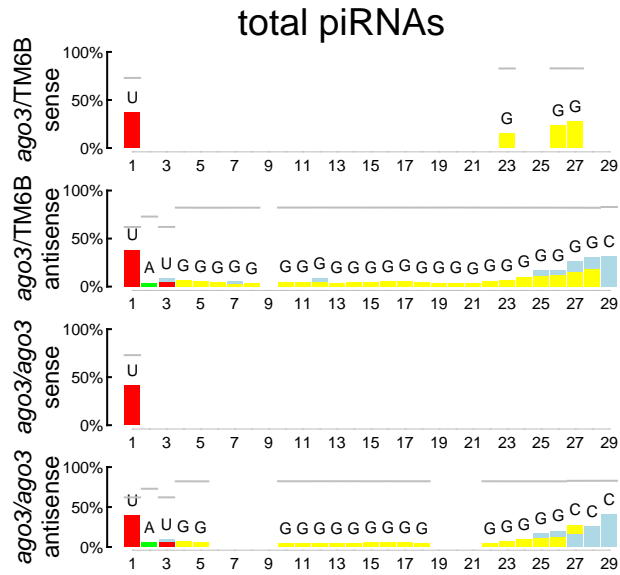


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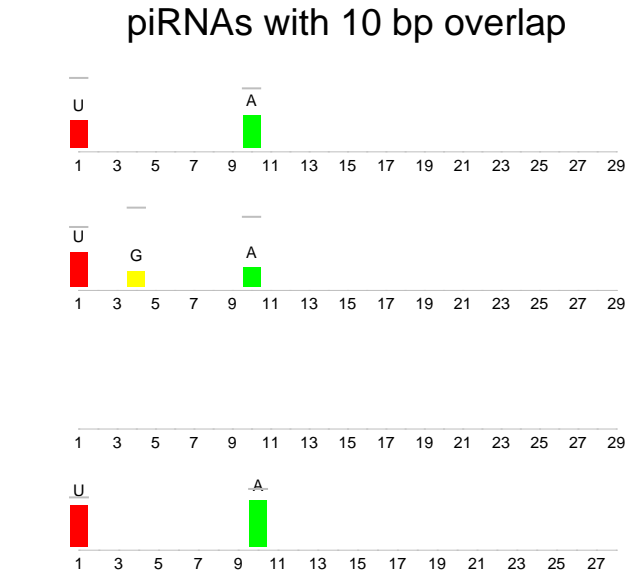


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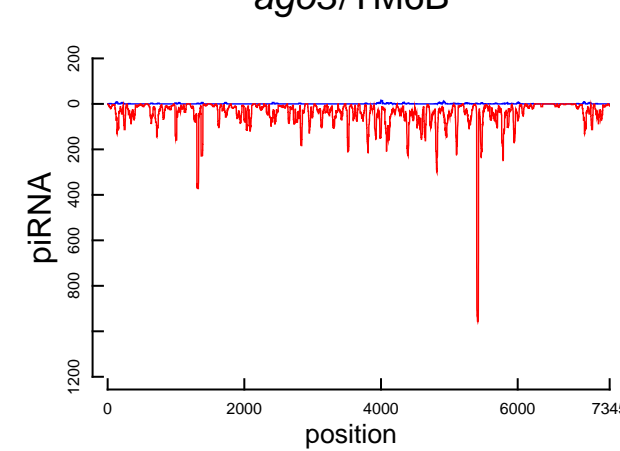
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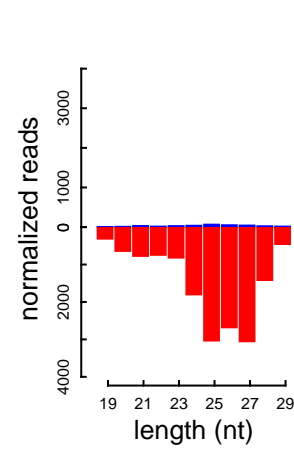
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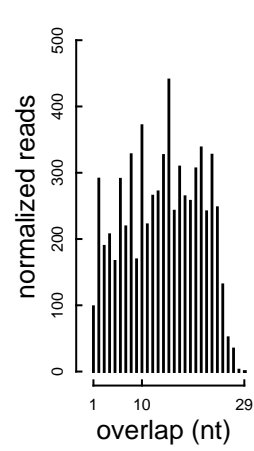
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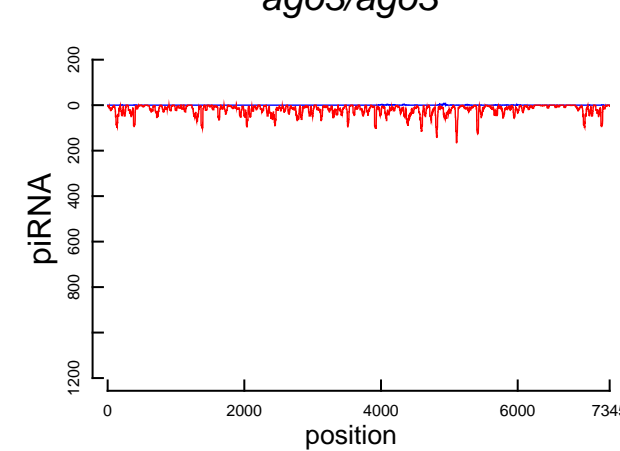
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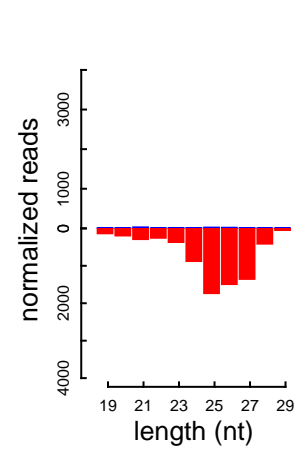
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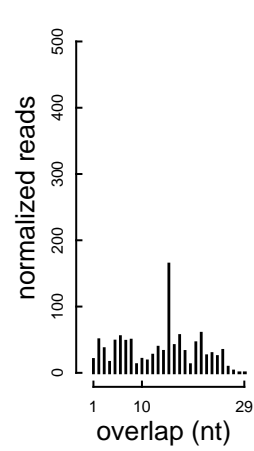
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F

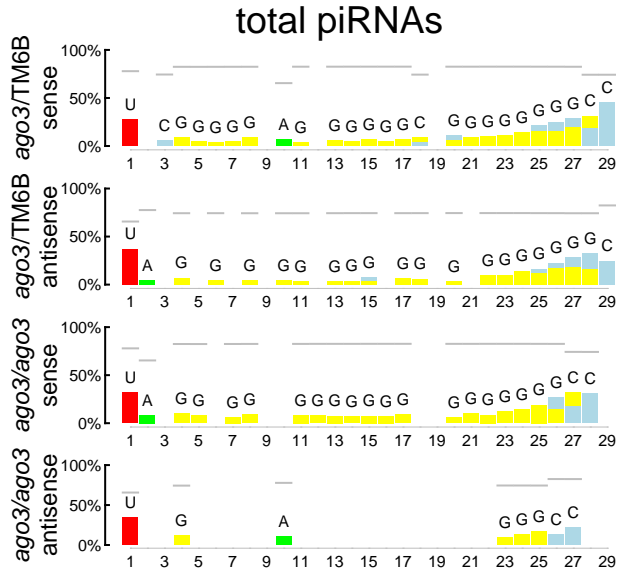


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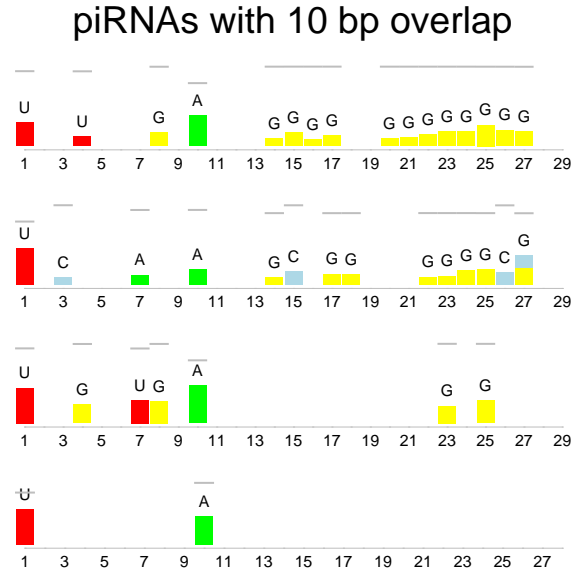


TAHRE

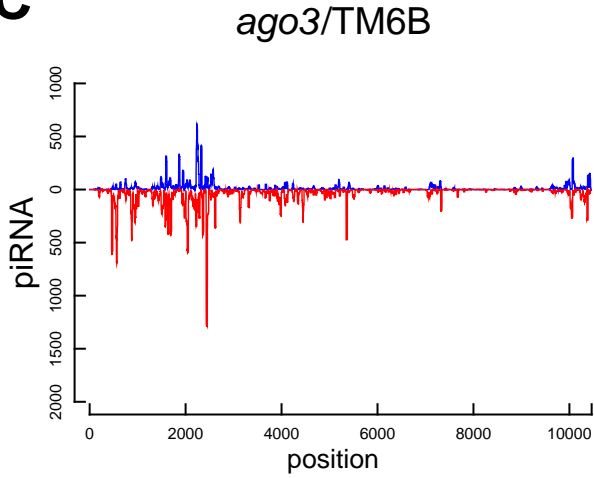
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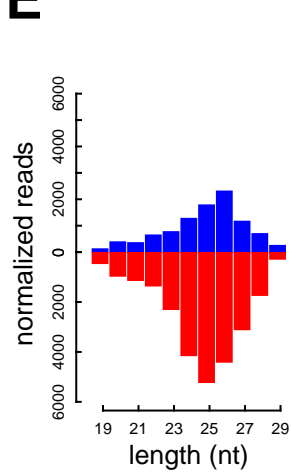
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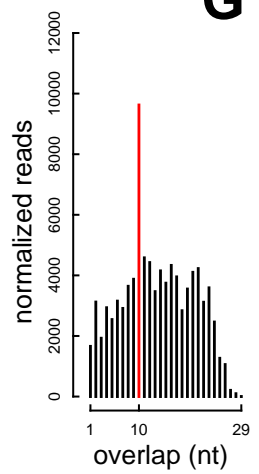
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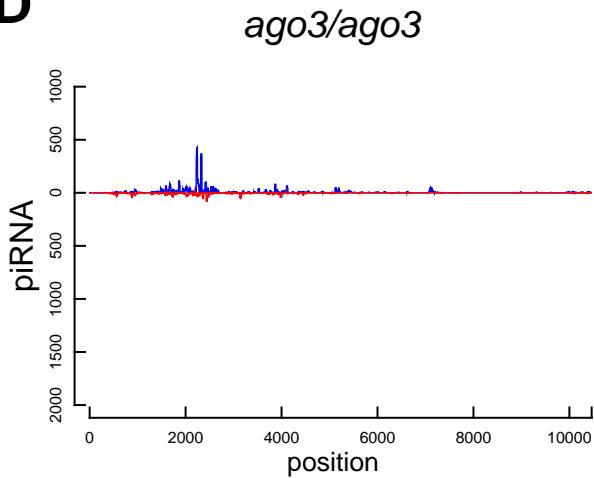
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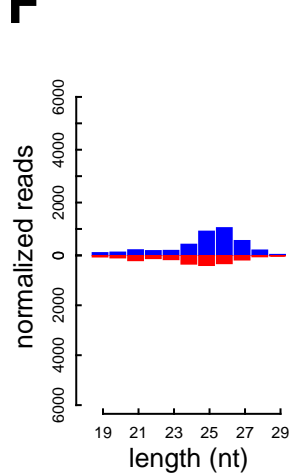
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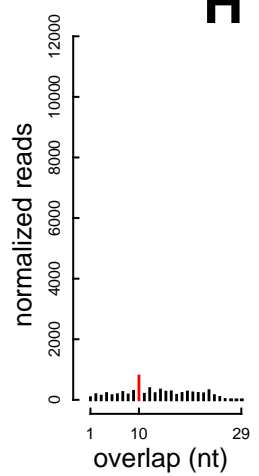
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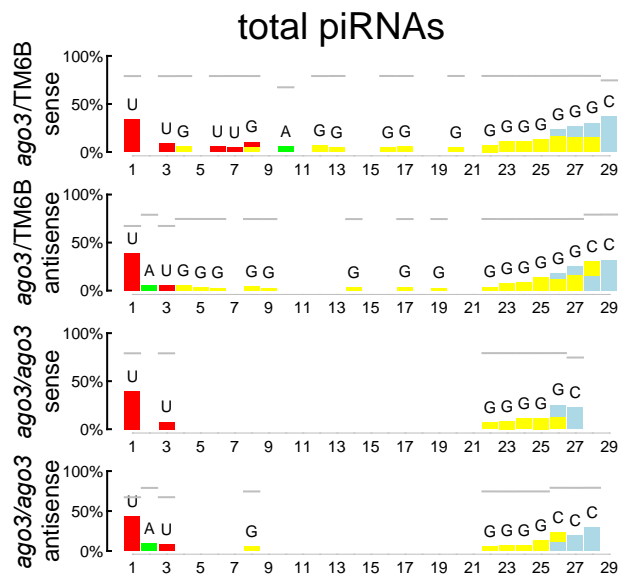


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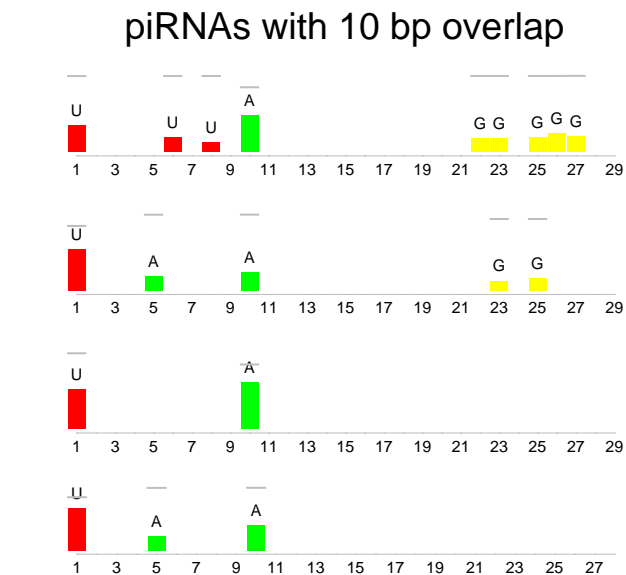


TART A, B and C

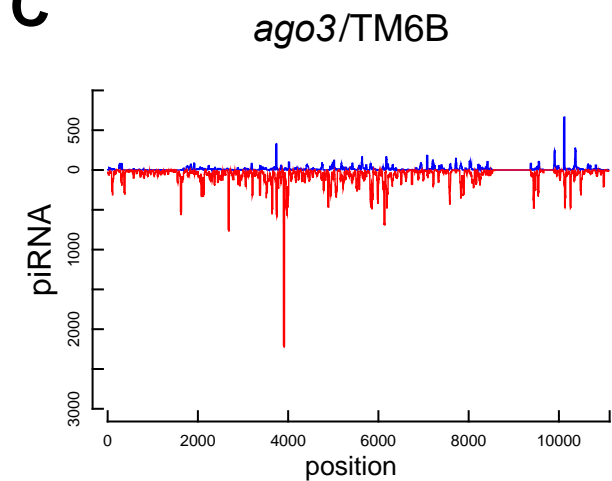
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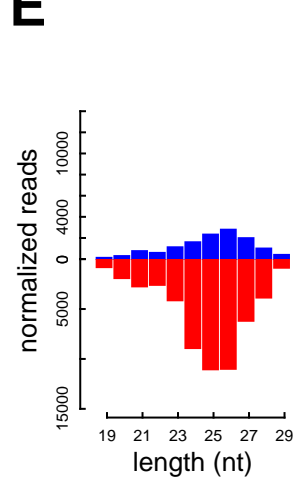
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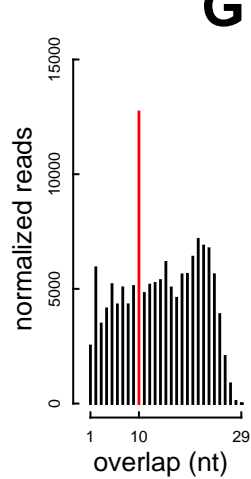
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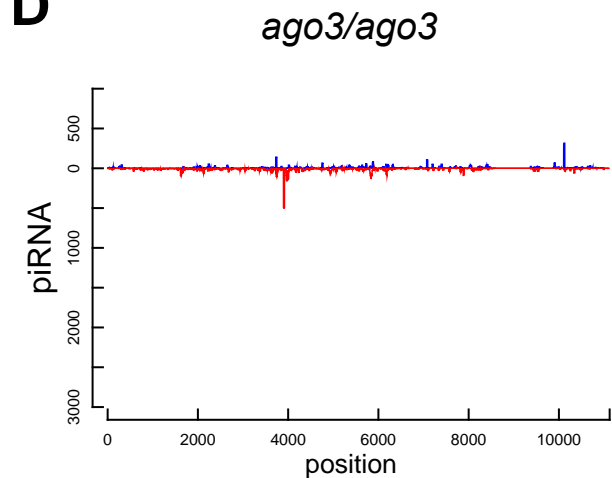
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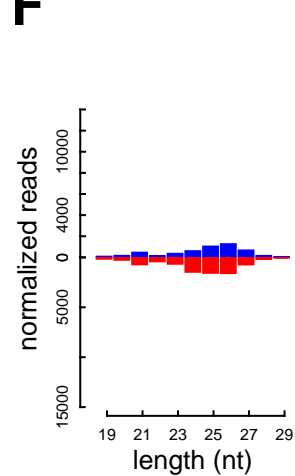
G



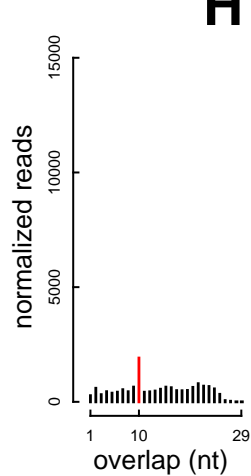
D



F

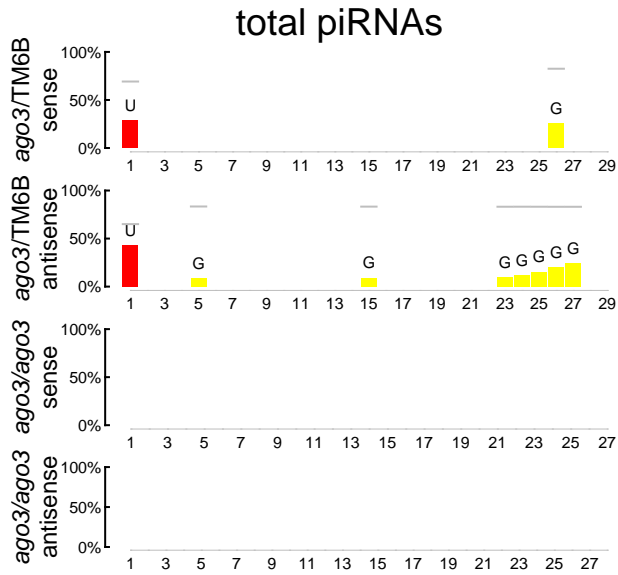


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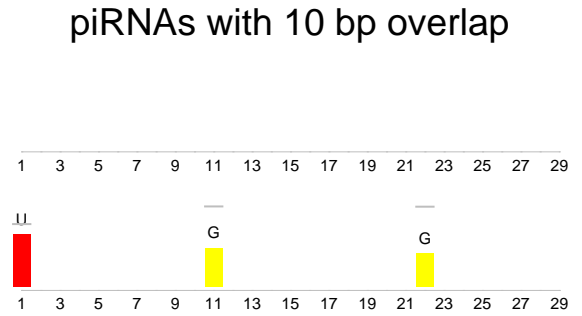


transib2

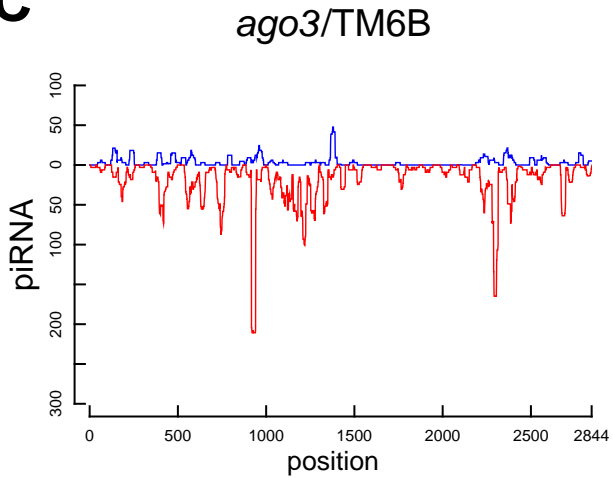
A



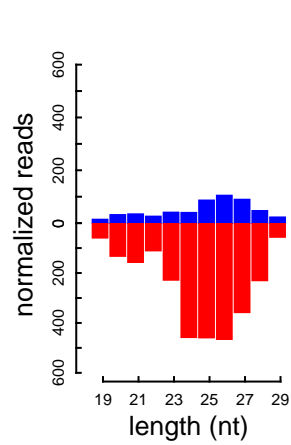
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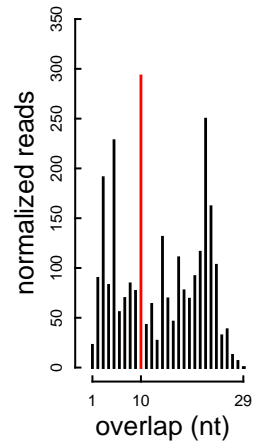
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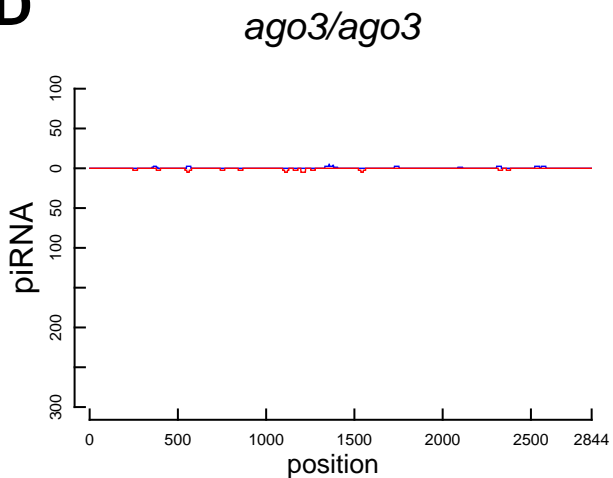
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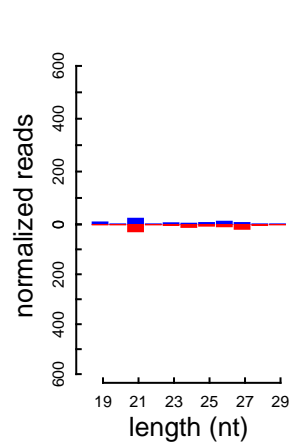
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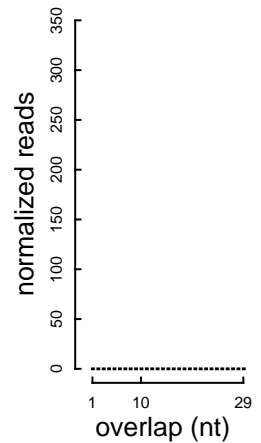
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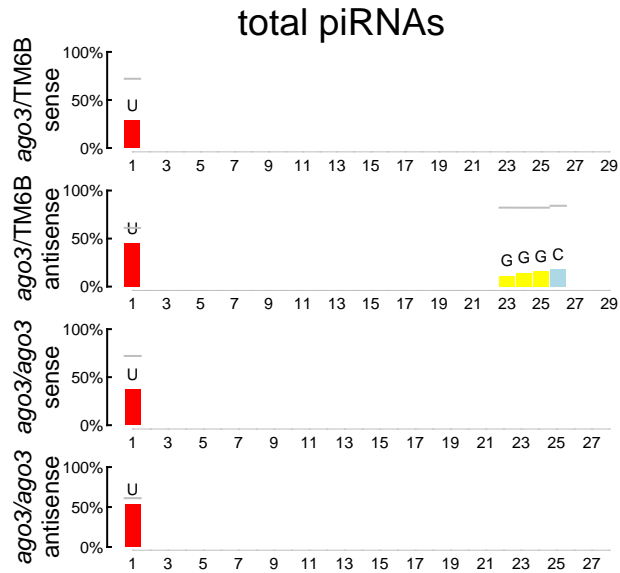


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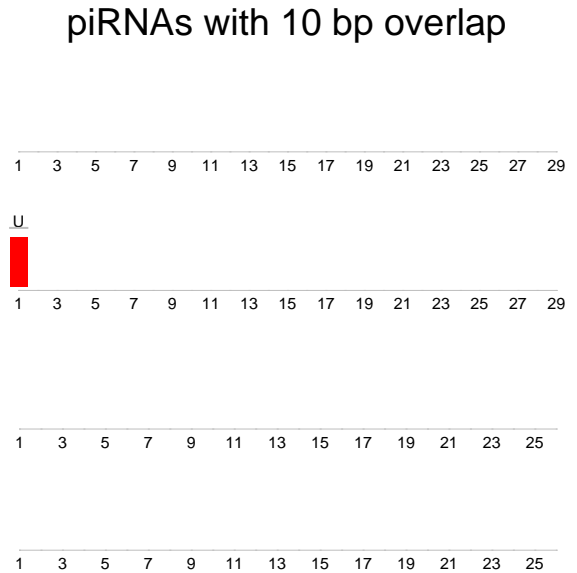


Transpac

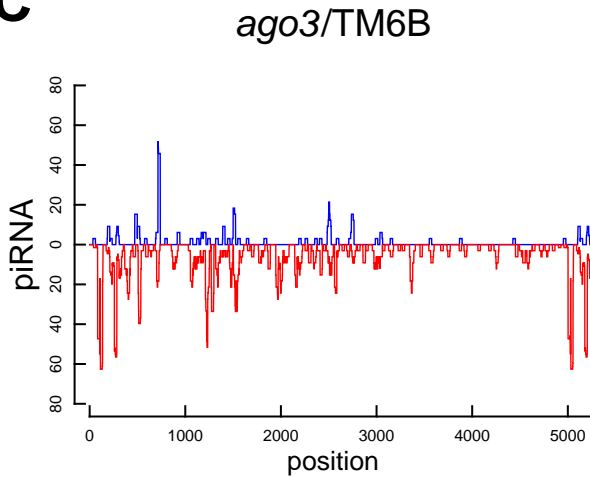
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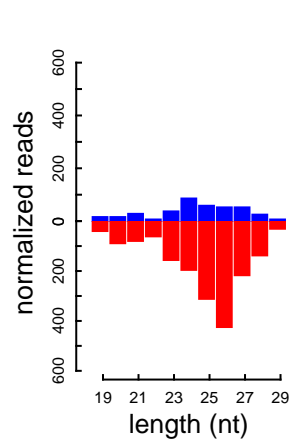
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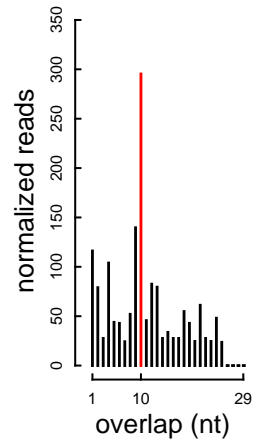
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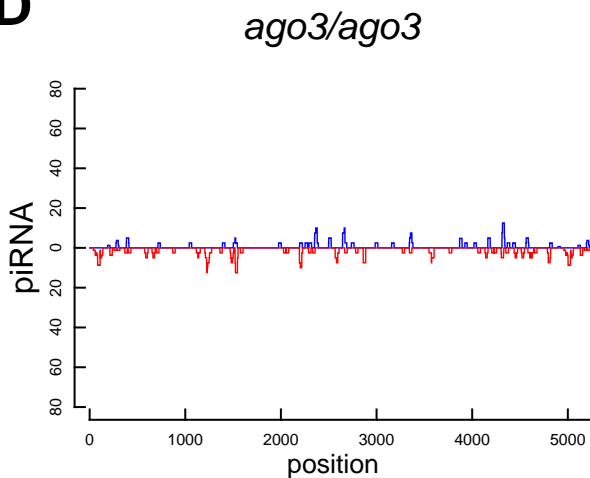
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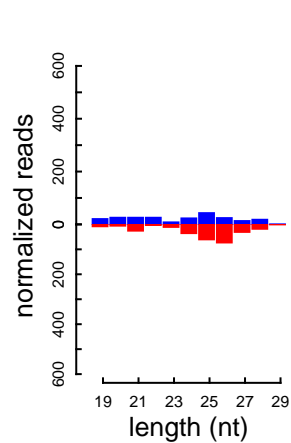
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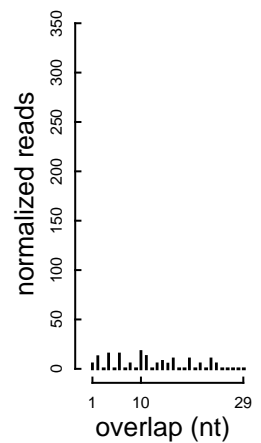
D



F

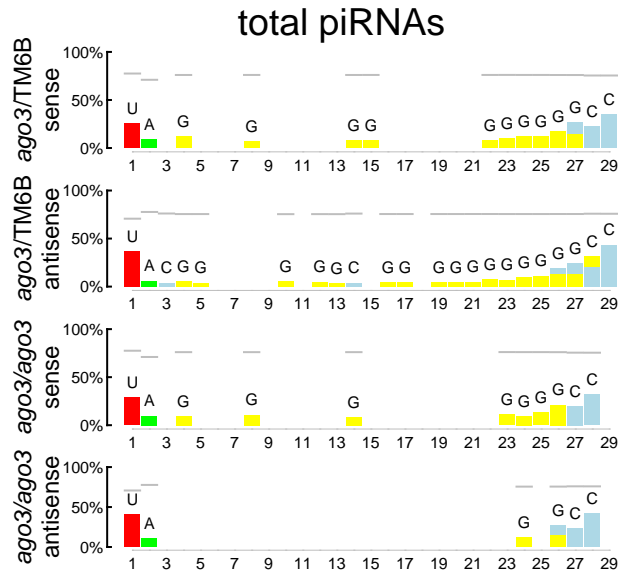


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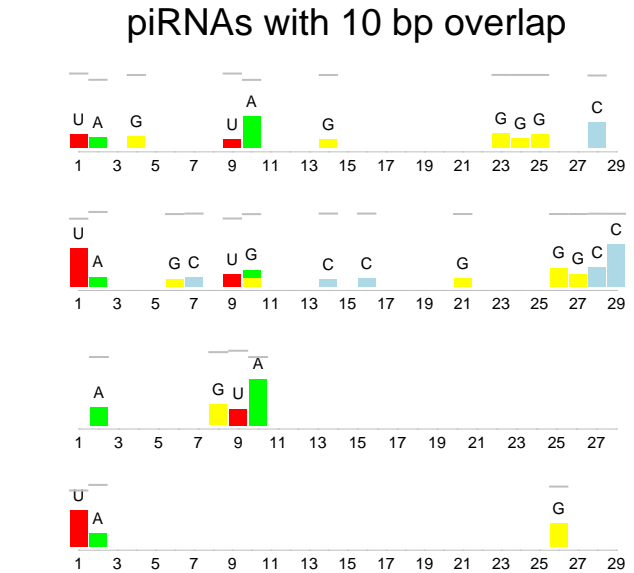


X element

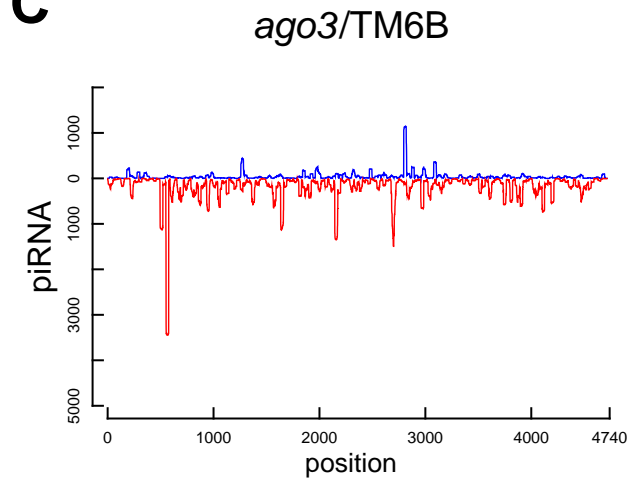
A



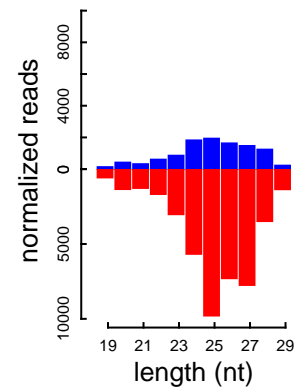
B



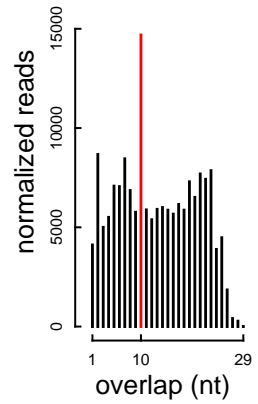
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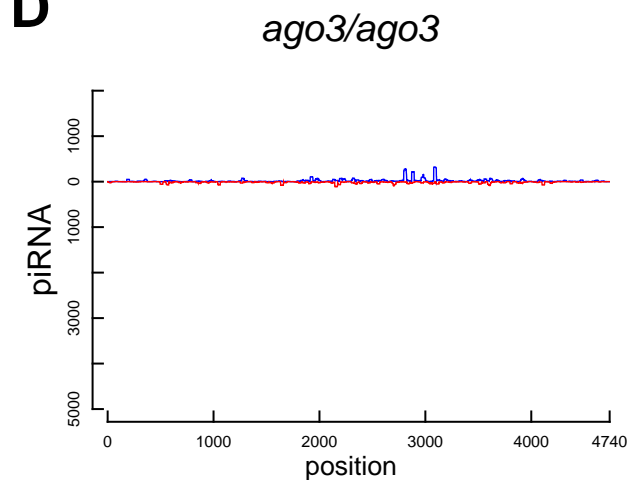
E



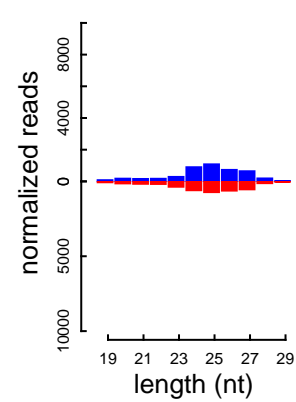
G



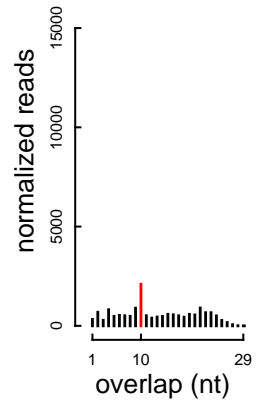
D



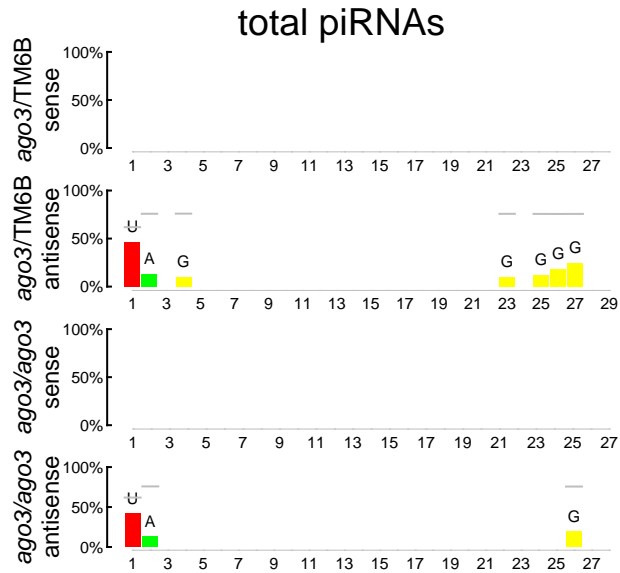
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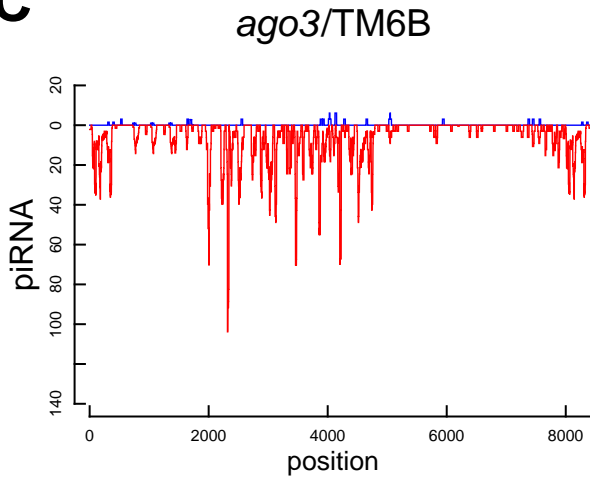
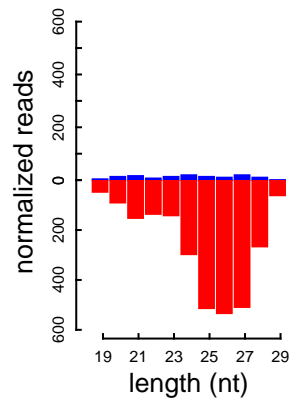
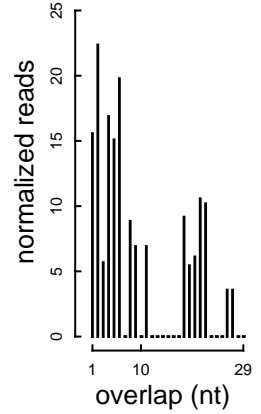
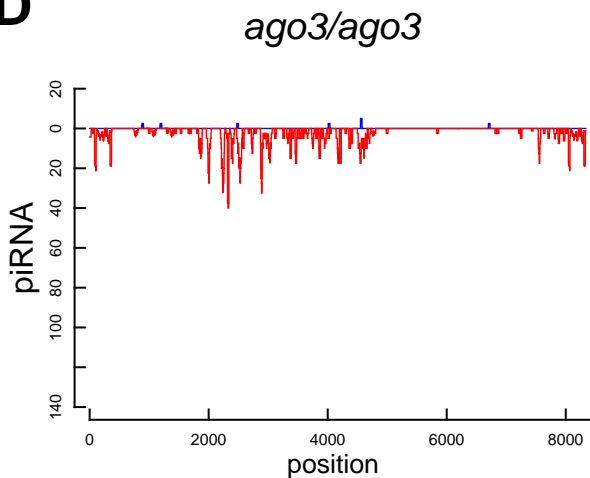
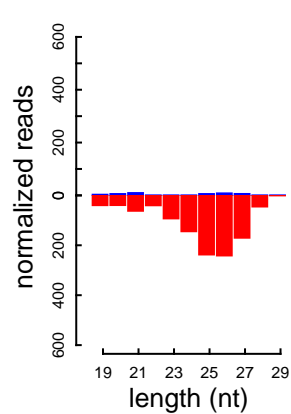
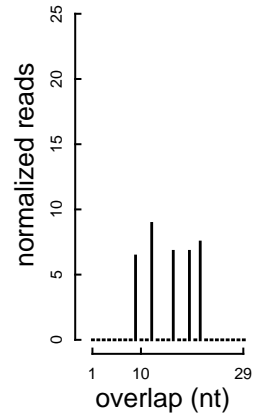
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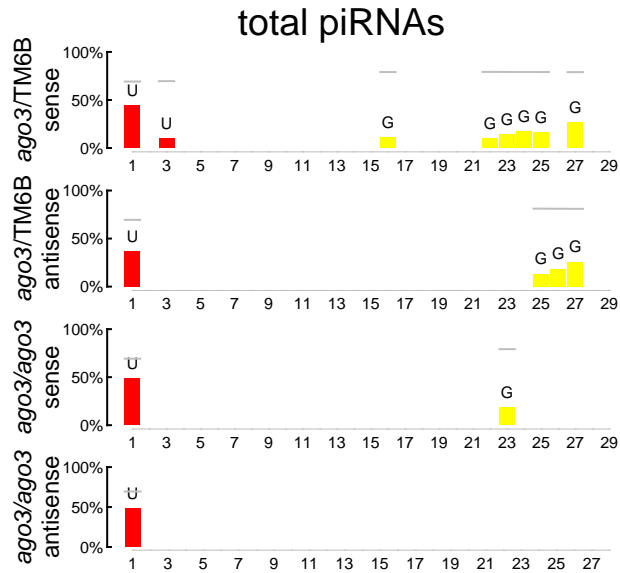
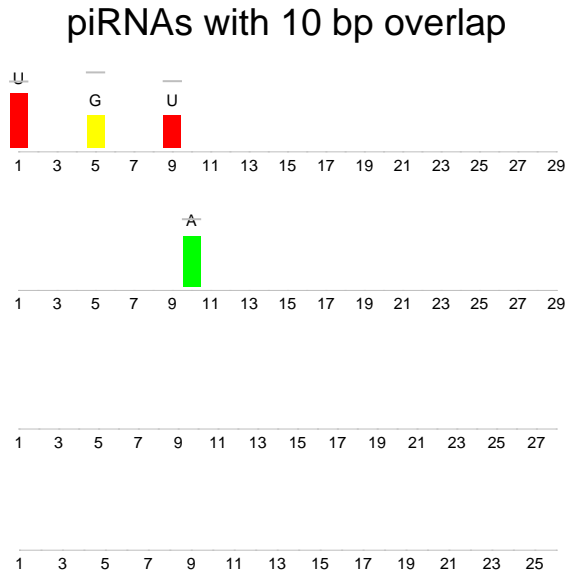
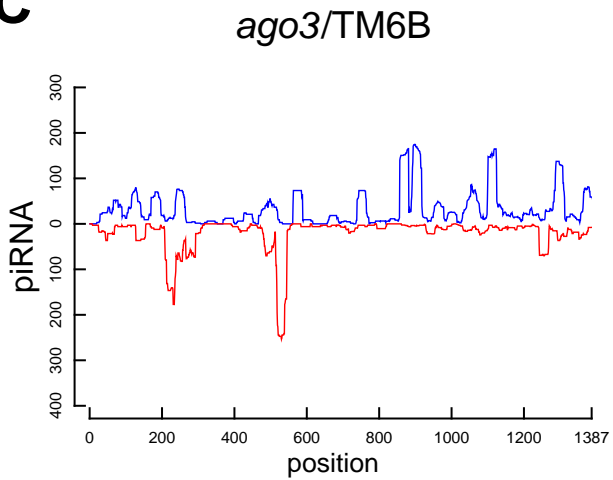
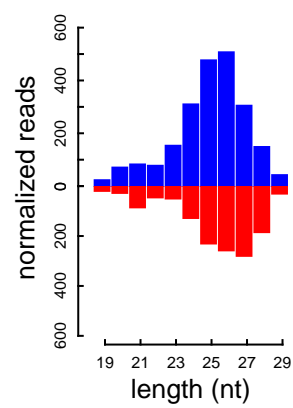
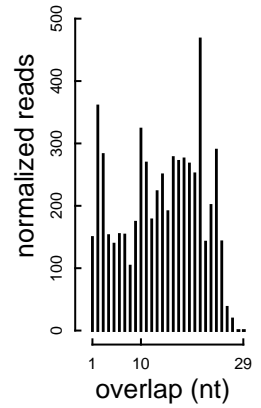
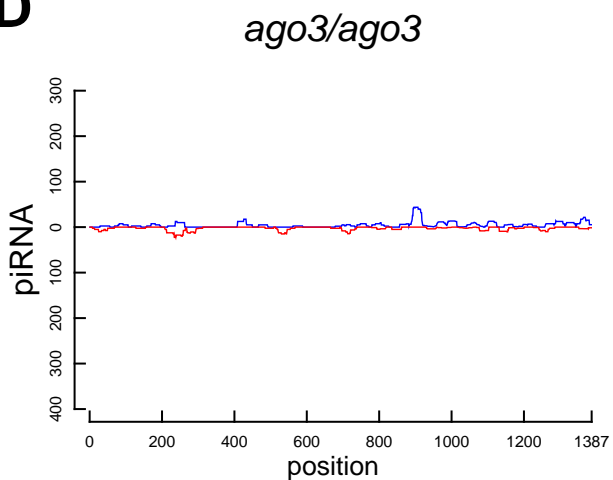
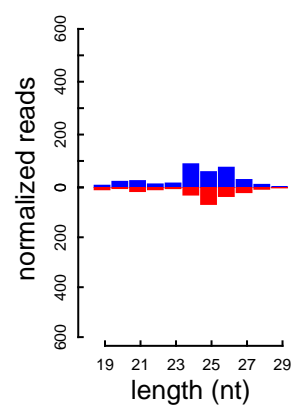
ZAM

A**B**

piRNAs with 10 bp overlap

C**E****G****D****F****H**

mst40

A**B****C****E****G****D****F****H**