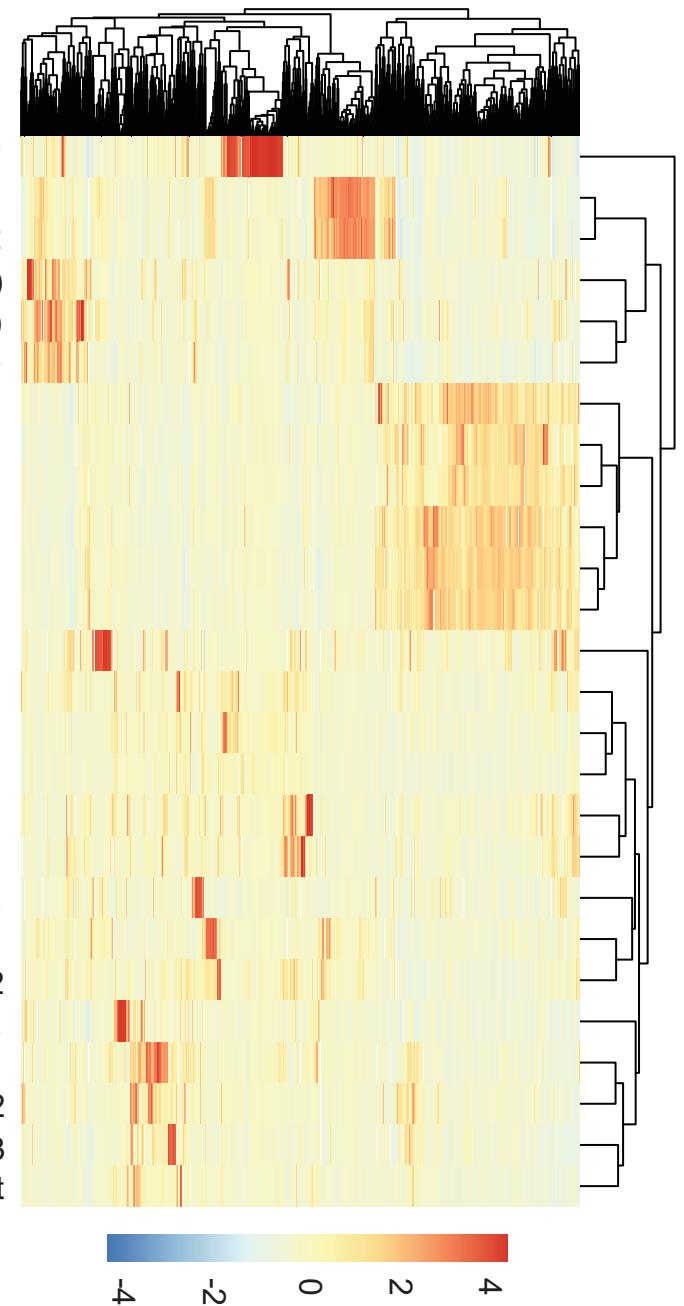


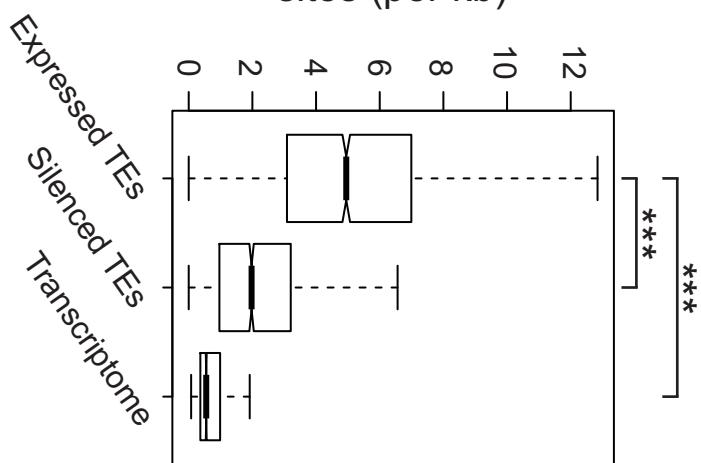
Figure 1

A



B

### Number of miRNA-binding sites (per kb)



C

### Correlation coefficient

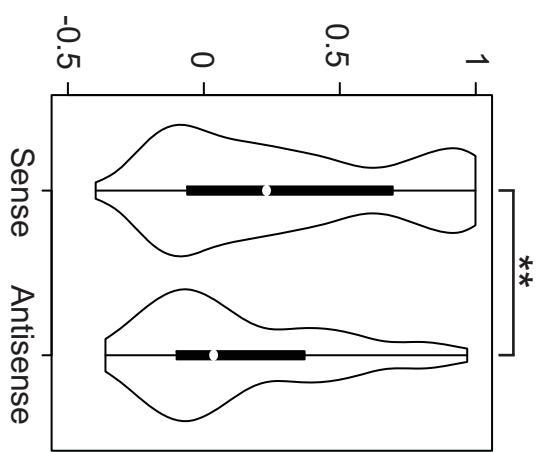
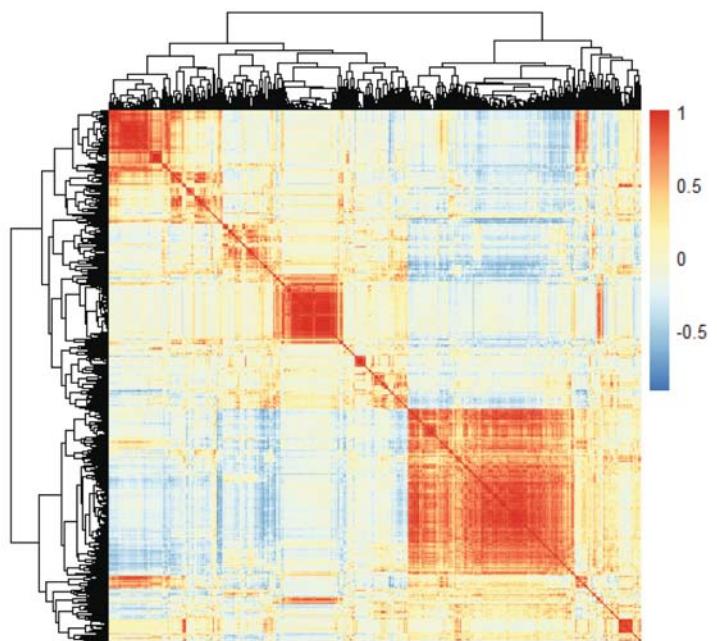
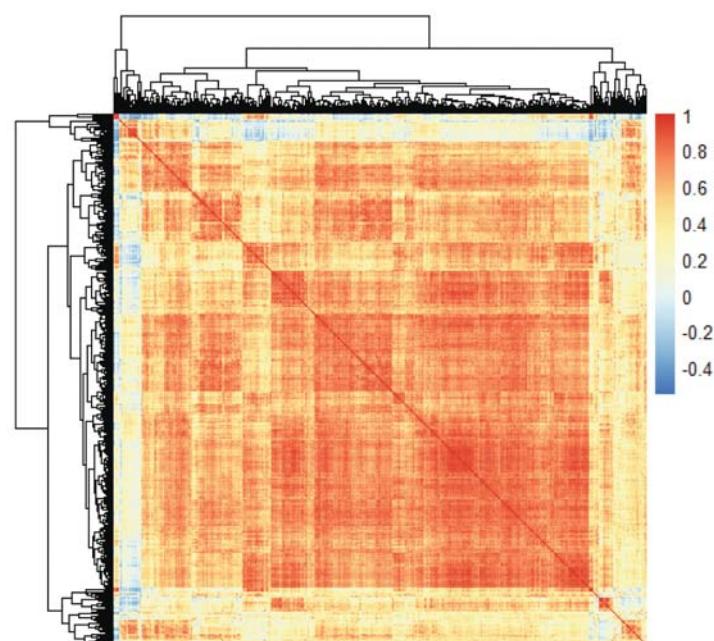


Figure 1-figure supplement 1

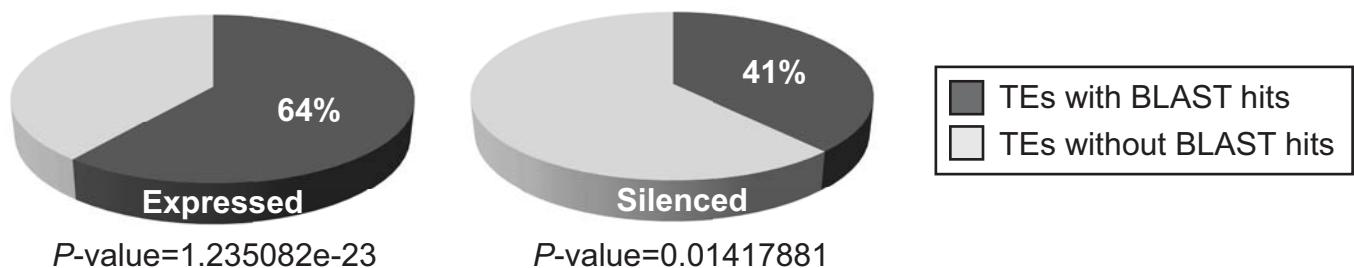
A



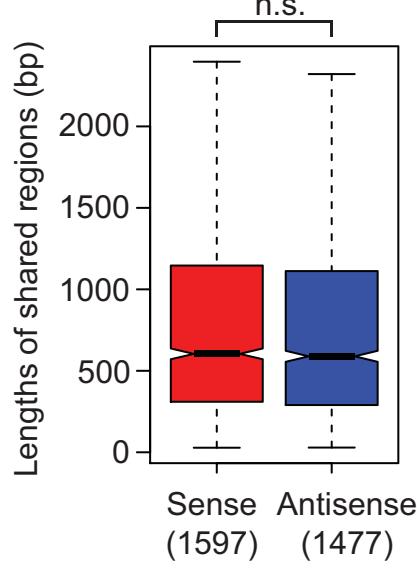
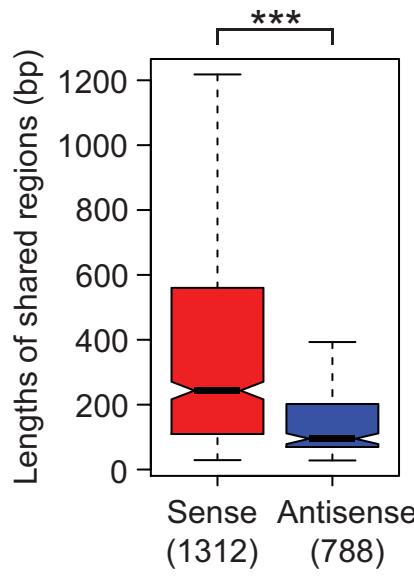
B



C



D



E

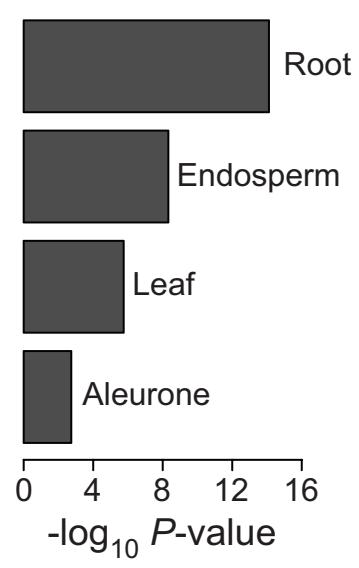
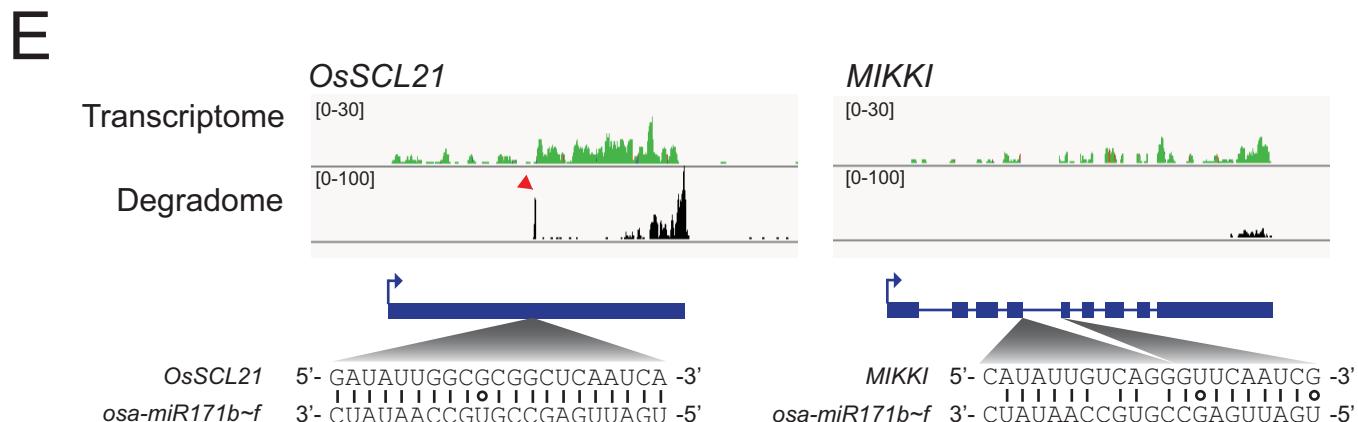
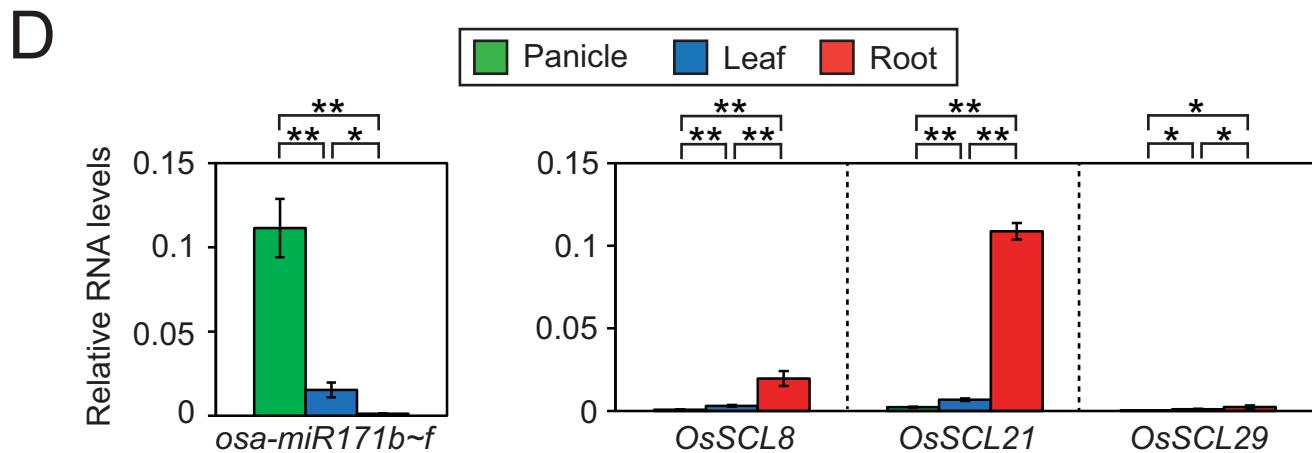
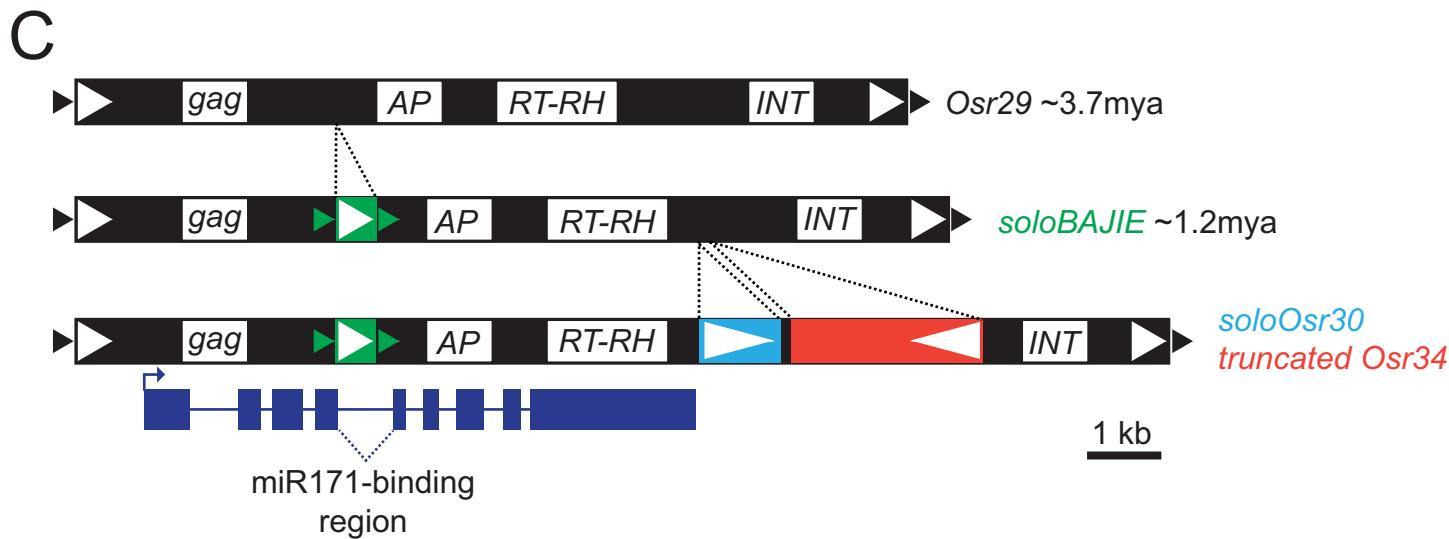
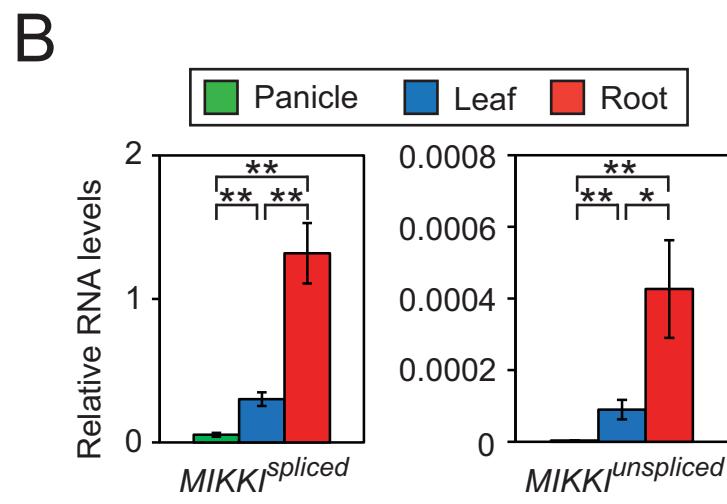
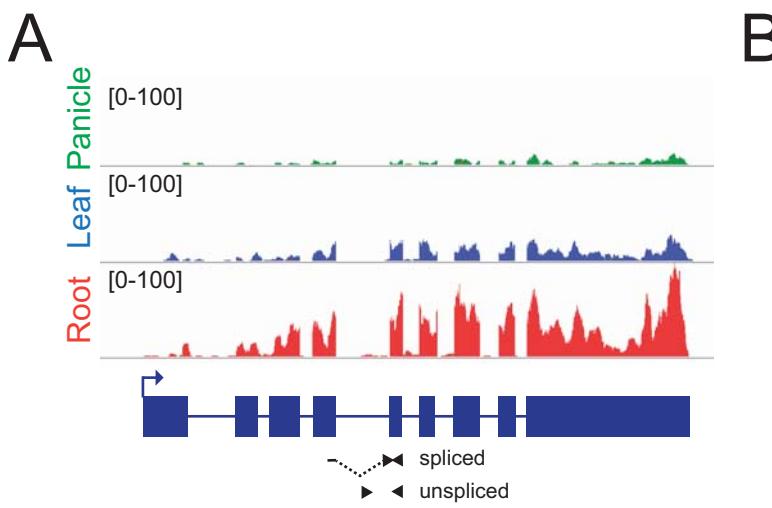


Figure 2



# Figure 2-figure supplement 1

**A**

Osr29 5' LTR Osr29 3' LTR	1	TGTTTACACCCAAATTGGCACCTAGAGATTARATAAGAACATTGCCAAAGTTGGAAAGTCTGCCGGTTTCCCTCGAGTAGGGCCGTCTGACC CGC GTGC TTGGG GTCAGACGCCGGTTGGG
Osr29 5' LTR Osr29 3' LTR	131	CAGGGCAAGGGCGGCAAGGGCGGCTGACCGGGAGGTGGAGTCCGACTGTGTTTCTGCGGGCTCGAGGTTGCATGTTCCGCTCGAGGTTCTCTGCGGAAGGGCATGTTCCGTTTCATTCGAGGTTGG
Osr29 5' LTR Osr29 3' LTR	261	ACGTGGAGGAGGGCCCTGTAGAGGCCAATCCACCCCTATAAAGGGATATGCCGGTTCATTAATCTACAATCAATCAATCGAATCGTTTCAATGGTTTAAATTTCTCTTGTAGTGG
Osr29 5' LTR Osr29 3' LTR	391	TTCTTCACTTTGCTTATTTGCCAAATTTGCTGGCAAGACCCCCCTTGTTGGTTTCTCTGAAAACCTCCGTTTGCCTACAGAGACGGGAGTTCTAGTAAATCGGCTC
Osr29 5' LTR Osr29 3' LTR	521	CGCTAGCCGTTTAGTTATCAAACCCATCTGGTCTAGCTTGGCTAGATCGAGGTGGTGGCGACTCCAATCACCCGCAAGCGTTTACGTTGCGATCTGCTGGTGTGACTTTTACCAAAAGGT
Osr29 5' LTR Osr29 3' LTR	651	GCCAAACAGCAAC

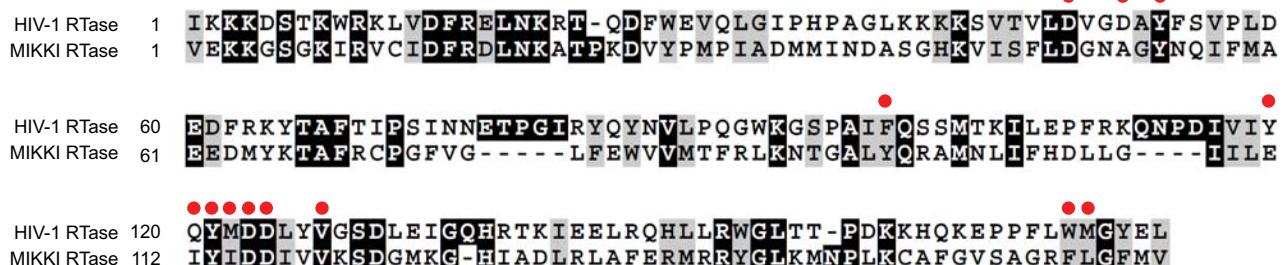
**B**

BAJIE LTR consensus MIKKI BAJIE	1	TCTCAGGGTTATGGAAACGACATACCCAACTACTACTTGACTTAAAGCTGGTCCGGAGGACCCACCACTAACATGCTTAACAGGAAACTGACTTTGACTTGGAGGAAAGTTCTGGATAAAGGAAAGACAATCTGAG
BAJIE LTR consensus MIKKI BAJIE	131	GTCTCTATATGGAAACGCAAGGACTACTCGGATTGTATCCATATTGGCTCCCTAGTTCTACTTGGACAGGGGACACCTATGGTATAAATACAAGACCCCCCTAGGAGGAGGGGACACGCAACAACTA
BAJIE LTR consensus MIKKI BAJIE	261	GAAGGCAACACAAAGCCAAACATACGCCAGGACAAGCCGGGGATAATTAAACATCAGAGATACTGGCTAGGGACCTATGGTACCTATGGAGGGGGCTGTAGGGATCTAGCCTTATCTGTAGCTCG
BAJIE LTR consensus MIKKI BAJIE	391	CCGGGACAGATTGAGGGAGGAAGACTAACCTGTTGTCGACTACGAGTTAGCATTCACTGGCAAGTCAGACTGCCAGTCGACAAACAGTAGATAGGCTACCCAAATATTGTACTGGTGTATTATGGTAATAGAGC
BAJIE LTR consensus MIKKI BAJIE	521	ACGATCGGCTTCGGCAACAGGATGTAGGGTATTACCTGACAATTCAAGGGGGCGAACCTGTATAAAACCTGTCTATCTTACCTCAATCTCGGTATACTCTAGTACCAACGATCCCCATA
BAJIE LTR consensus MIKKI BAJIE	651	CTATGCAAATACCGGAATCGCGACATCAAACGTTGACAGCAAACTGAGGTTGACAGCAAACTGAGGCTACCC

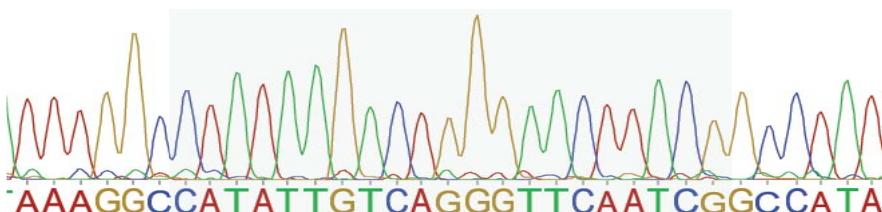
**C**



**D**



**E**

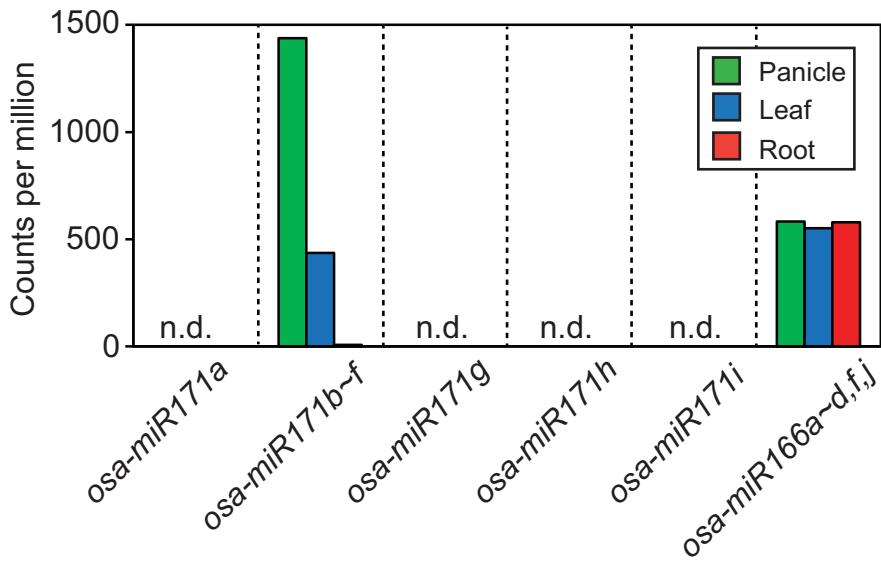


**Figure 2-figure supplement 2**

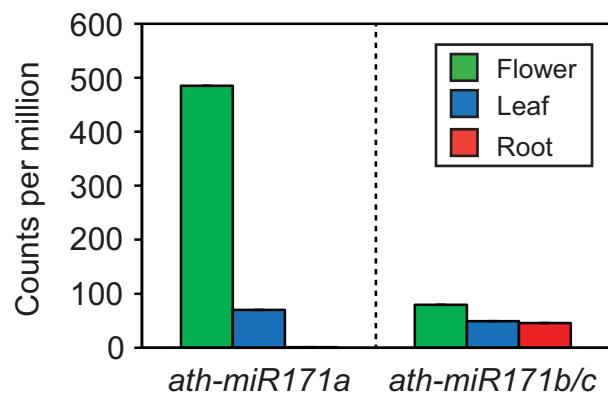
**A**

miR171 species	Sequence (5' → 3')
osa-miR171a	UGAUUGAGCCGCGCCAUAUAC
osa-miR171b	UGAUUGAGCCGUGCCAUAUAC
osa-miR171c	UGAUUGAGCCGUGCCAUAUAC
osa-miR171d	UGAUUGAGCCGUGCCAUAUAC
osa-miR171e	UGAUUGAGCCGUGCCAUAUAC
osa-miR171f	UGAUUGAGCCGUGCCAUAUAC
osa-miR171g	GAGGUGAGCCGAGCCAUAUAC
osa-miR171h	GUGAGCCGAACCAAUAUCACU
osa-miR171i	GGAUUGAGCCGCGUCAAUAUC
ath-miR171a	UGAUUGAGCCGCGCCAUAUAC
ath-miR171b	UUGAGCCGUGCCAUAUACAG
ath-miR171c	UUGAGCCGUGCCAUAUACAG

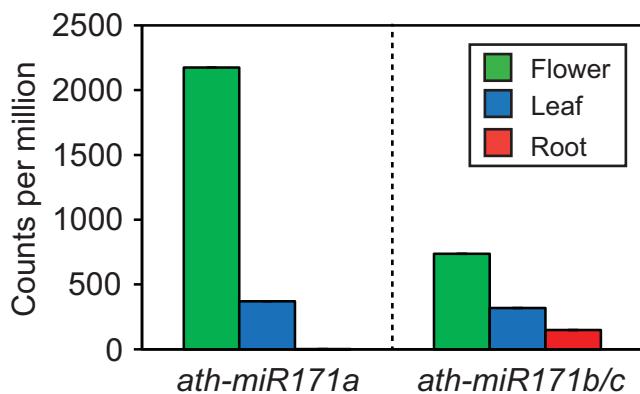
**B**



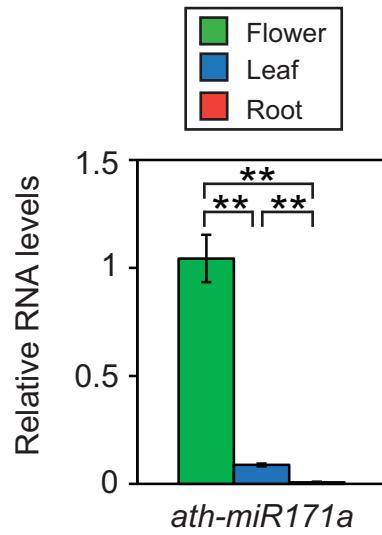
**C**



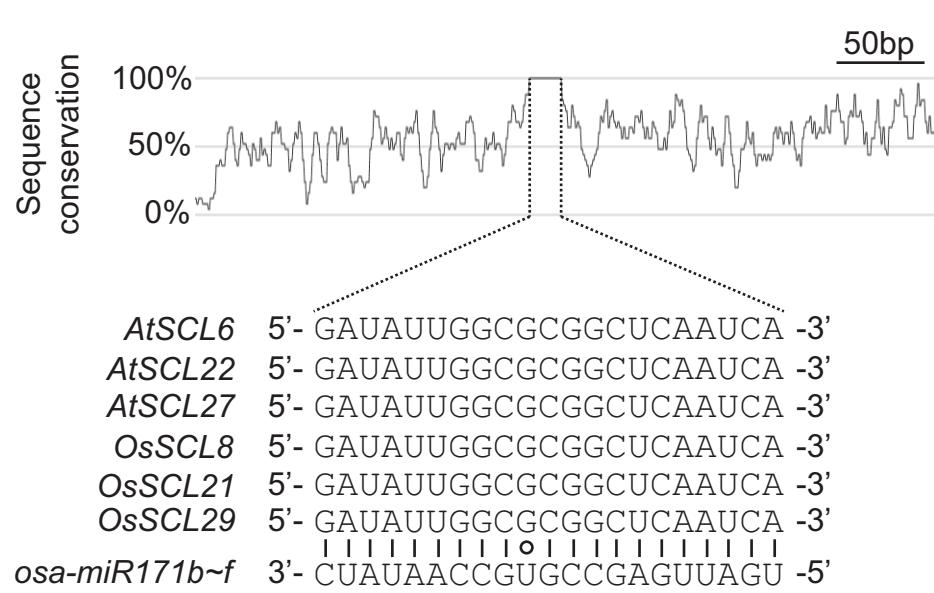
**D**

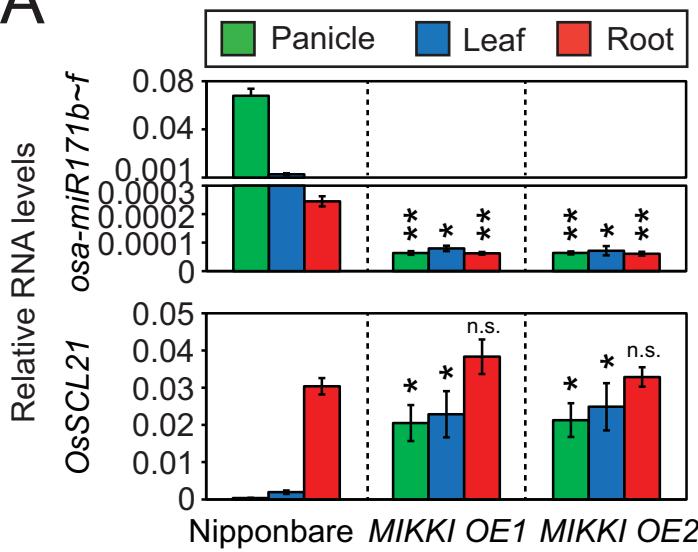
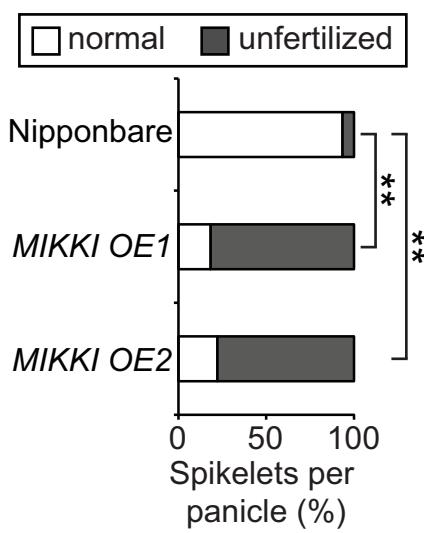
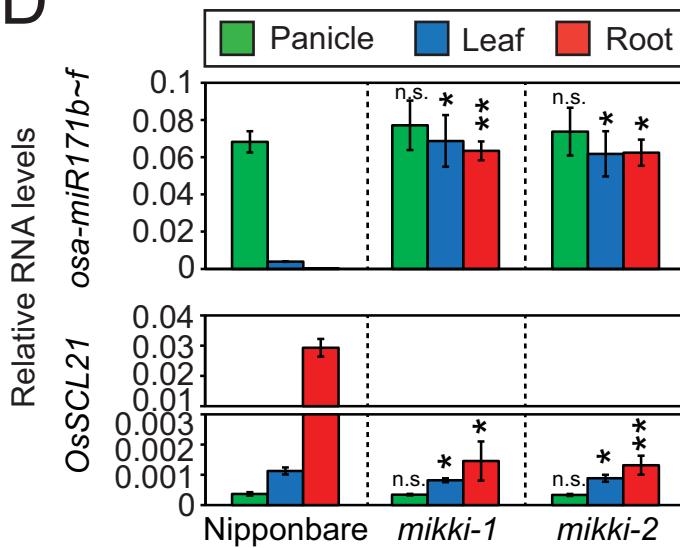
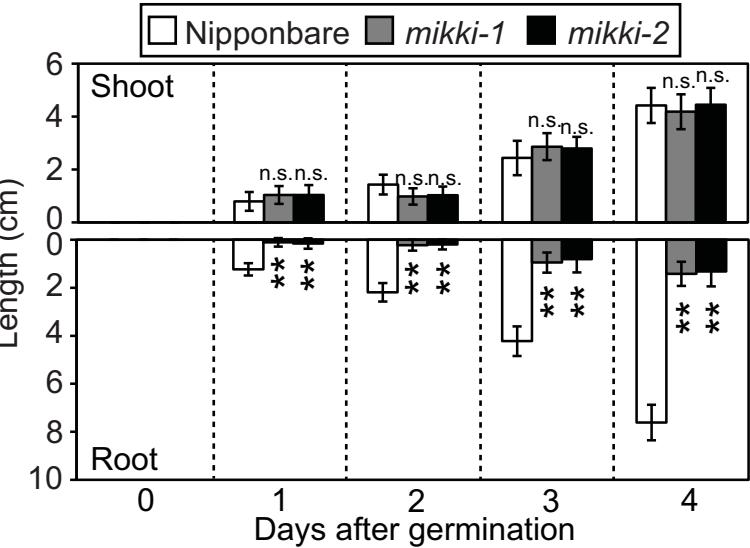
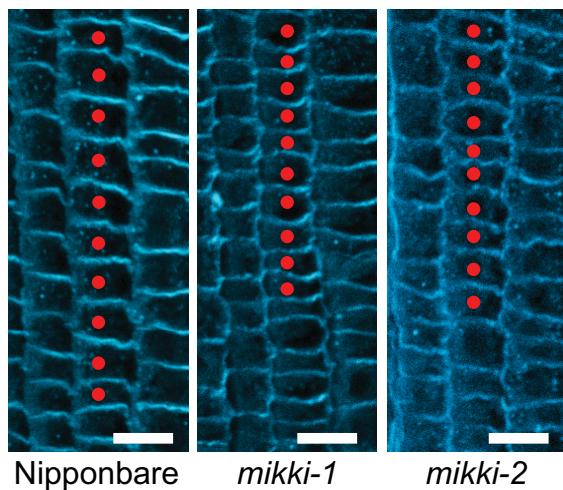
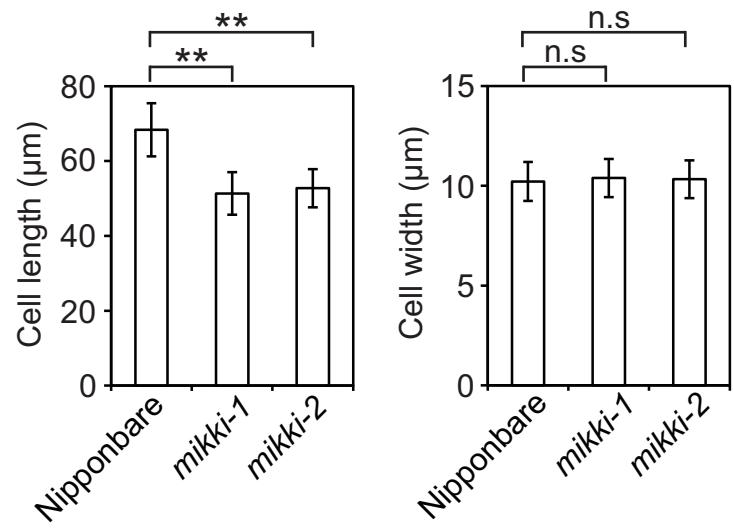


**E**



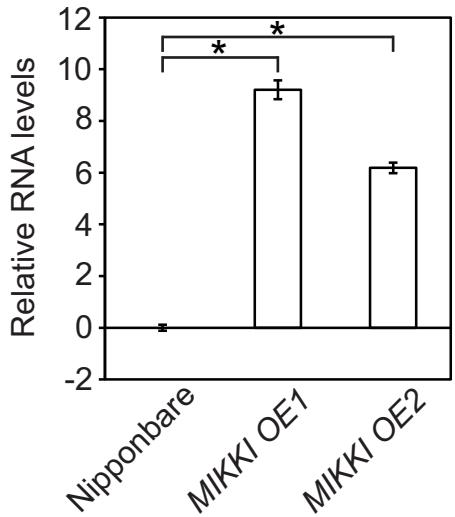
**F**



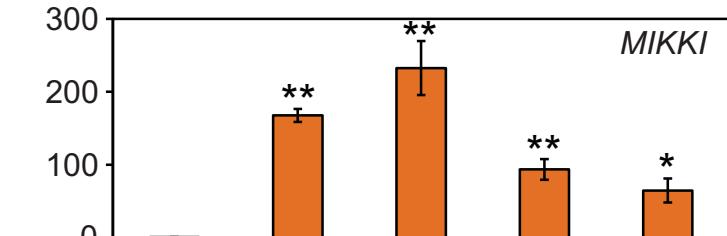
**Figure 3****A****B****C****D****E****F****G**

**Figure 3-figure supplement 1**

**A**

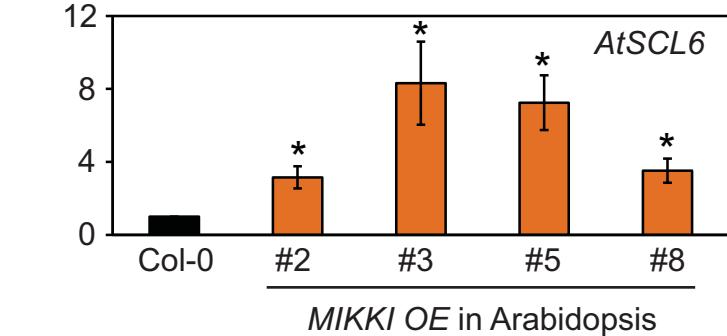


**B**



Relative RNA levels

*ath-miR171a*



**C**

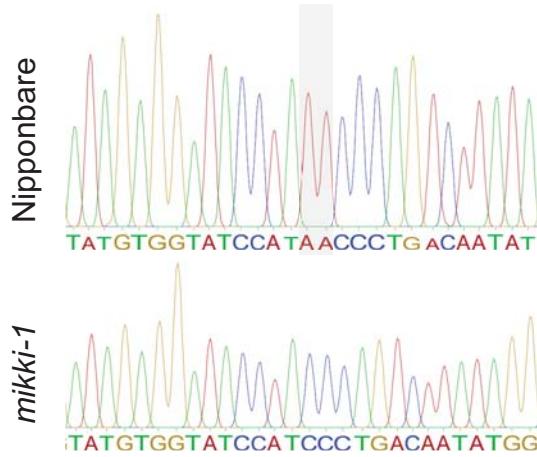


**Figure 3-figure supplement 2**

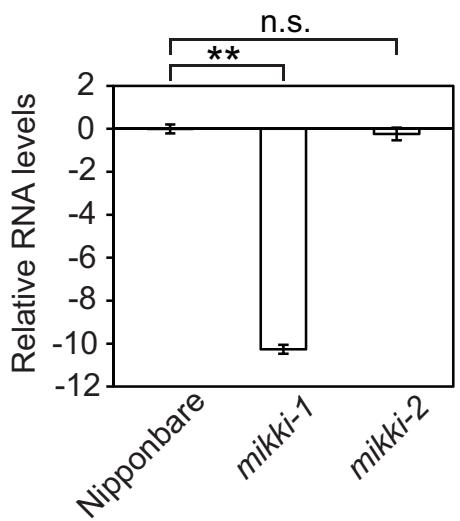
**A**



**B**



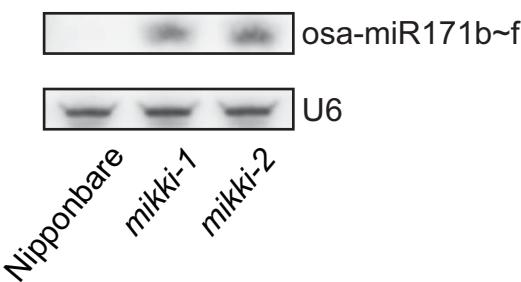
**C**



**D**

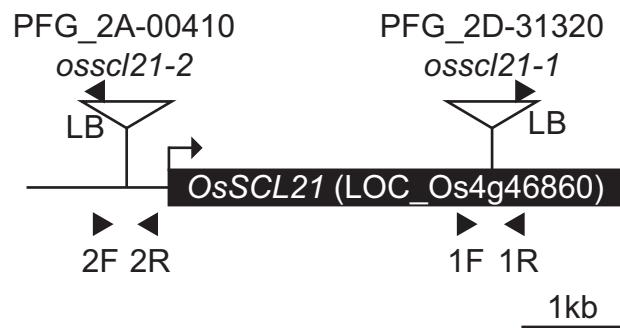


**E**

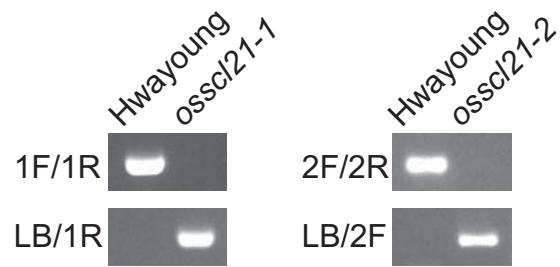


**Figure 3-figure supplement 3**

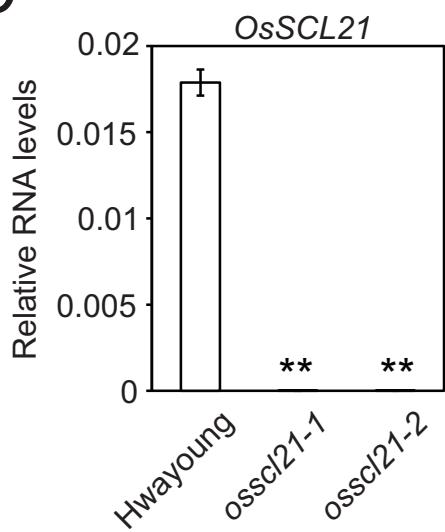
**A**



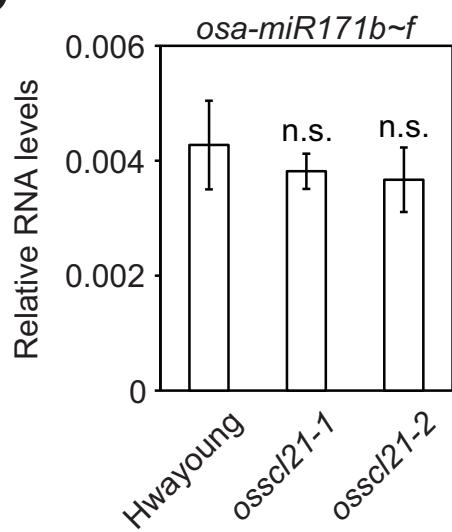
**B**



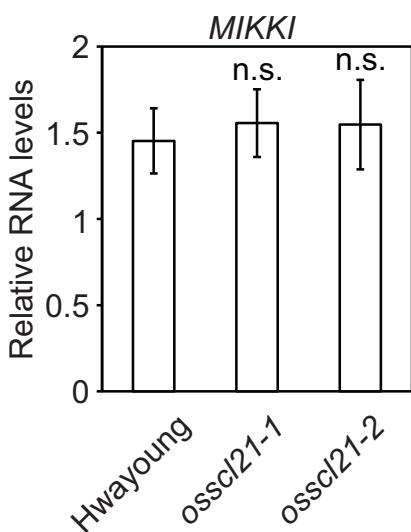
**C**

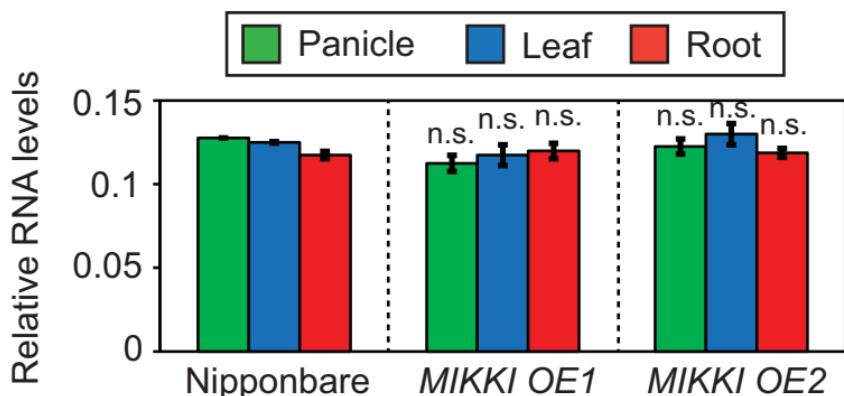
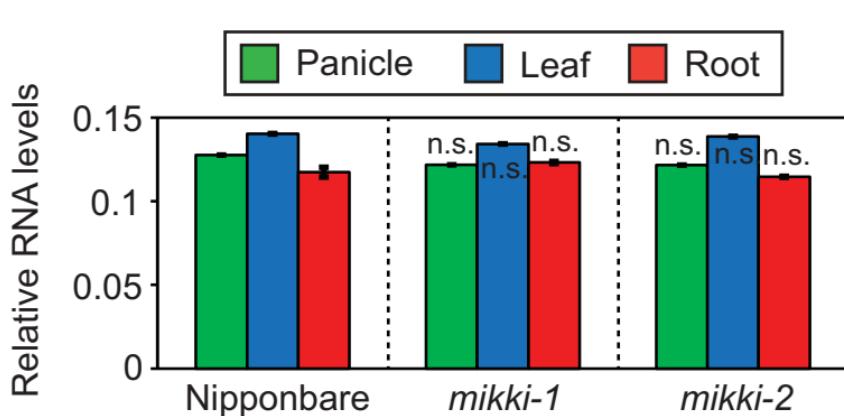
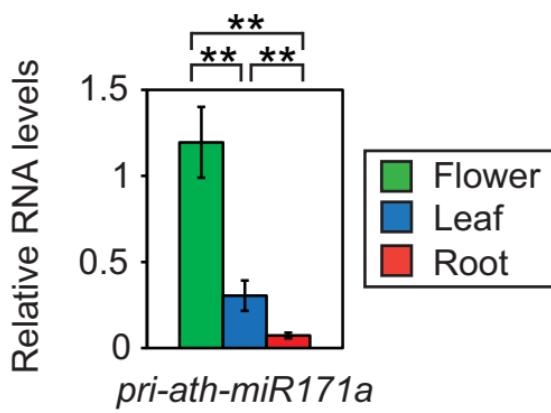


**D**



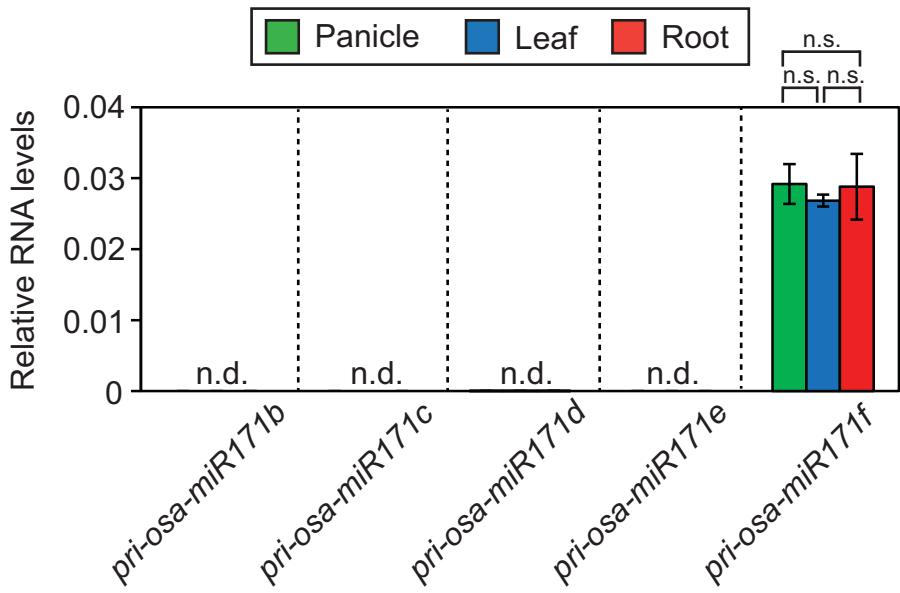
**E**



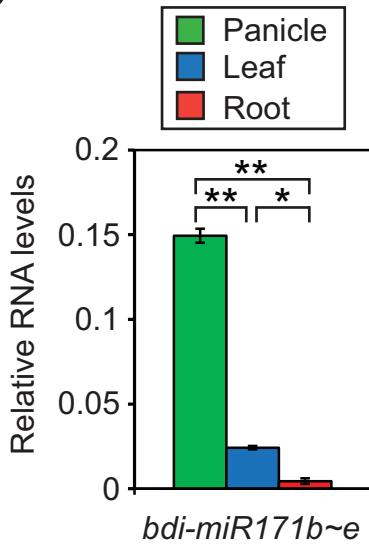
**Figure 4****A****B****C**

**Figure 4-figure supplement 1**

**A**



**B**



**C**

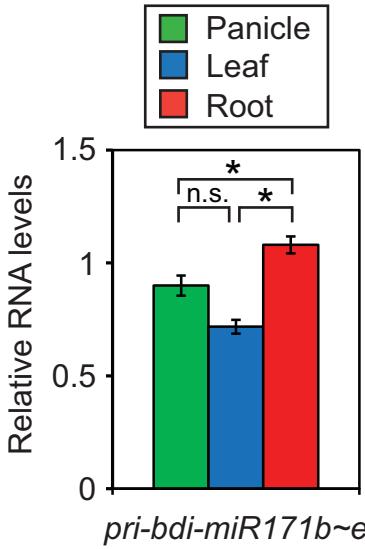
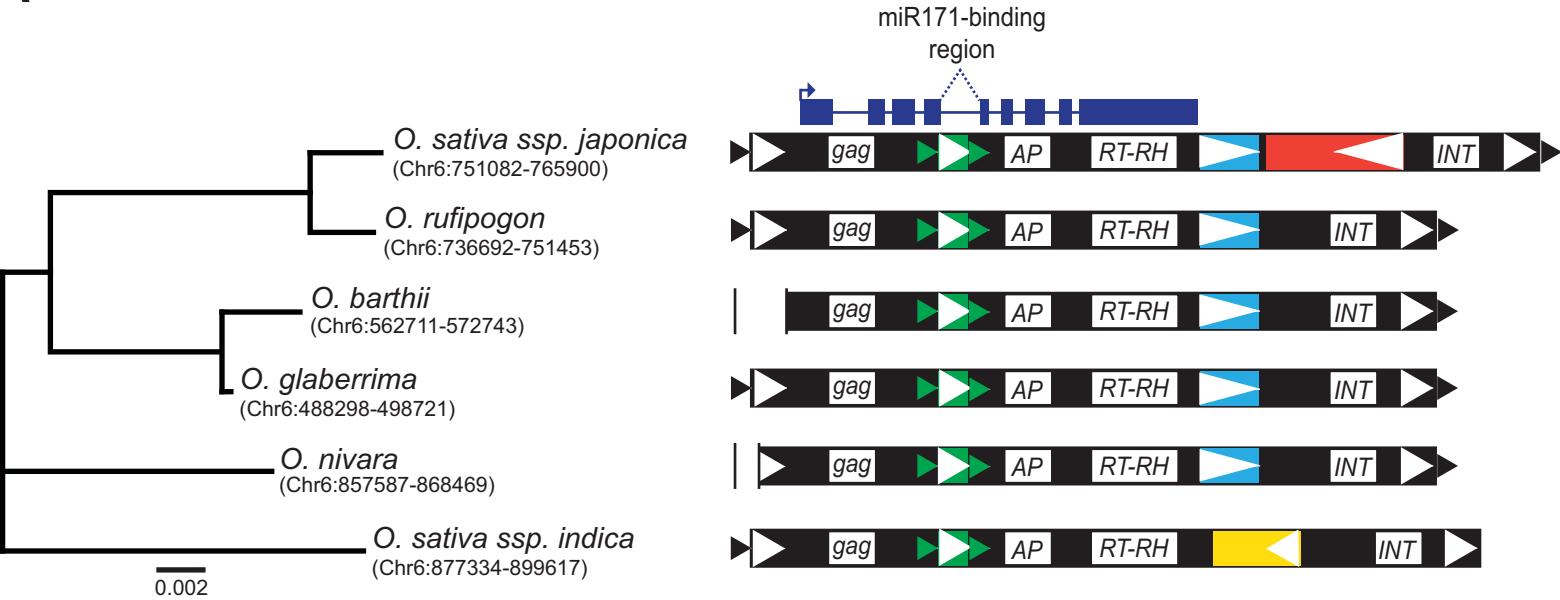


Figure 4-figure supplement 2

A



B

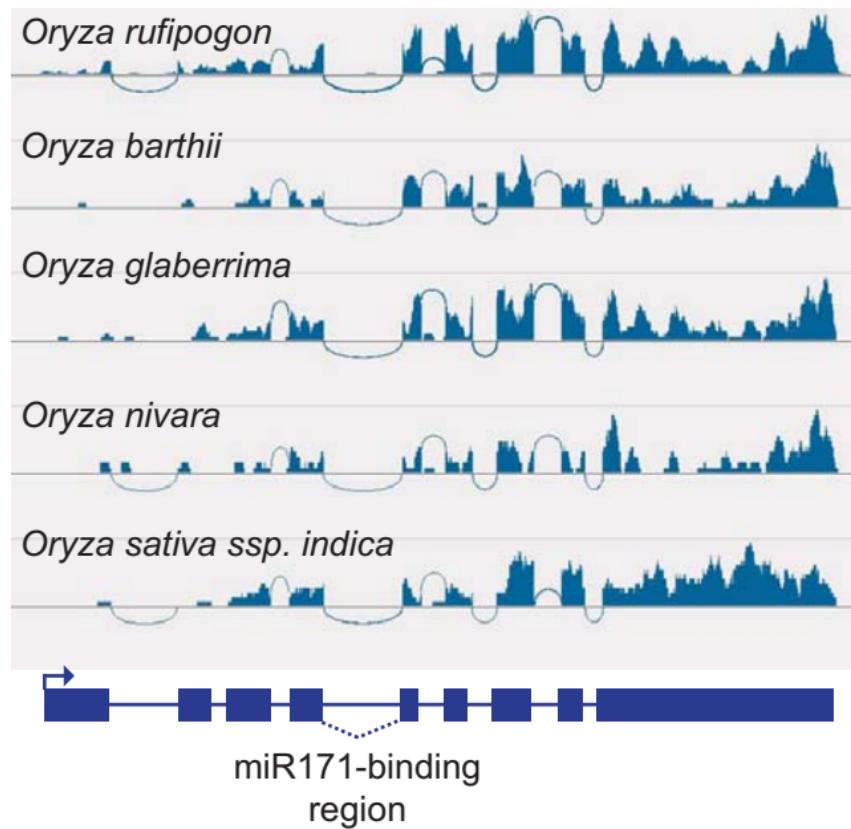
Sequence alignment of the miR171-binding region across *Oryza* species. The alignment shows high conservation of the miR171-binding site (red box) and surrounding regions. Species listed vertically include:

- Oryza sativa ssp. japonica*
- Oryza rufipogon*
- Oryza barthii*
- Oryza glaberrima*
- Oryza nivara*
- Oryza sativa ssp. indica*

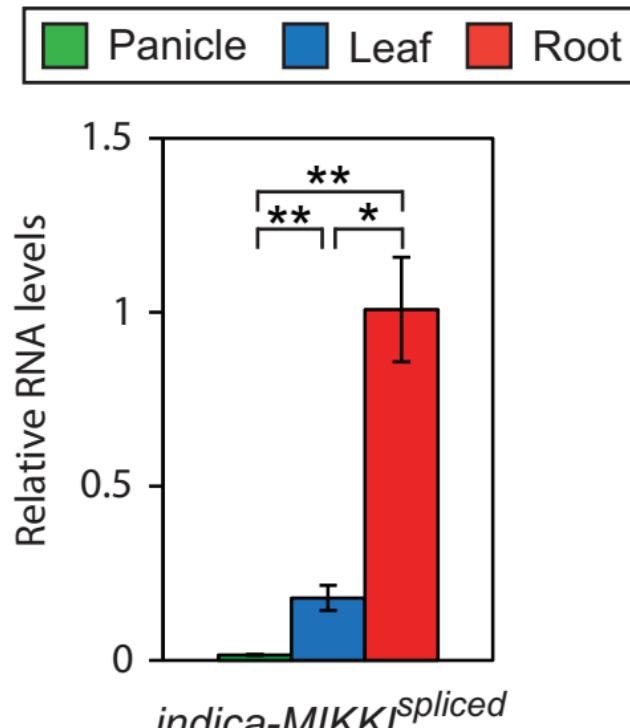
Conservation is indicated by green shading. A red box highlights the miR171-binding region.

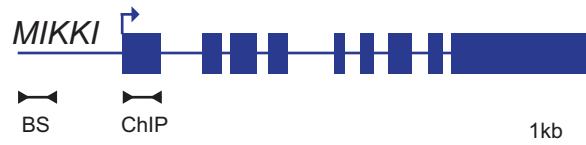
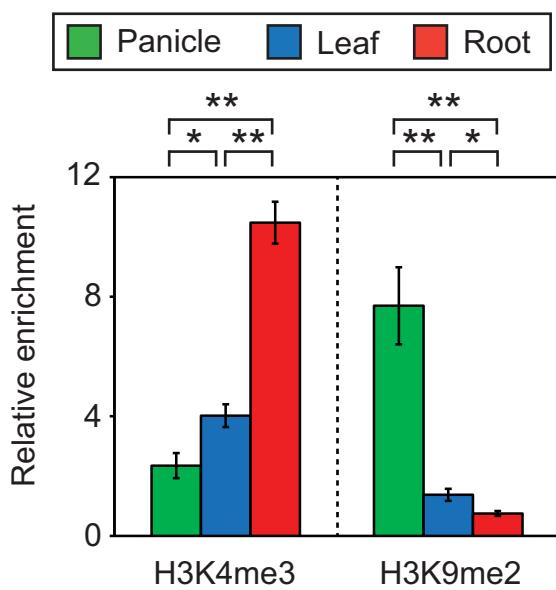
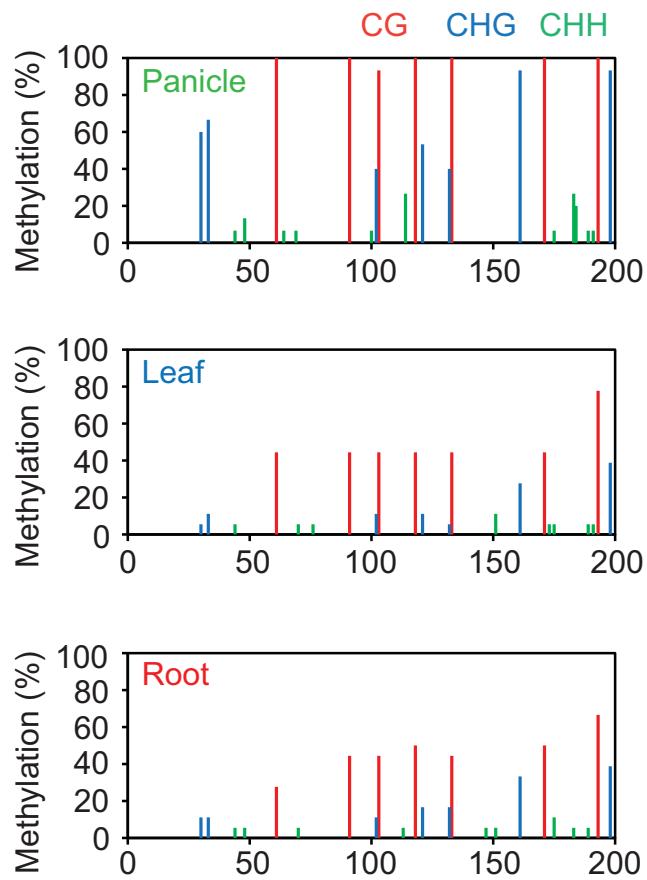
Figure 4-figure supplement 3

A

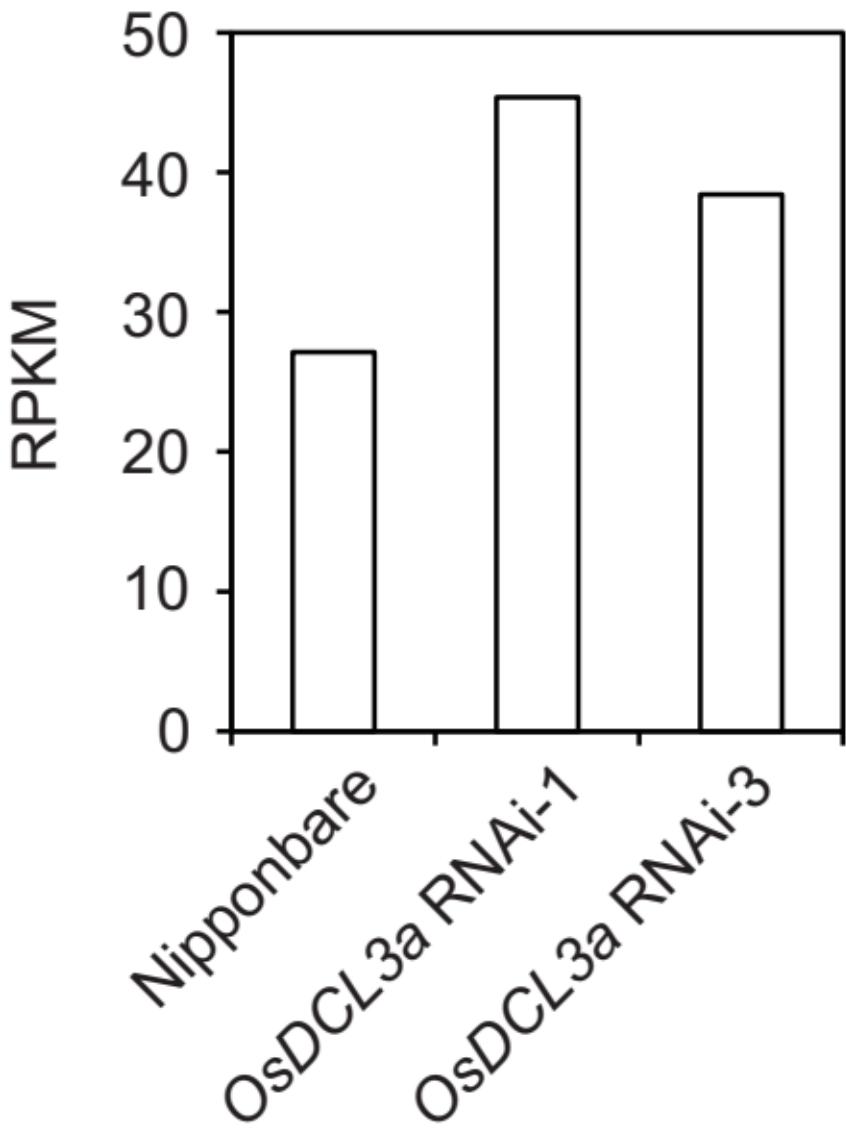


B



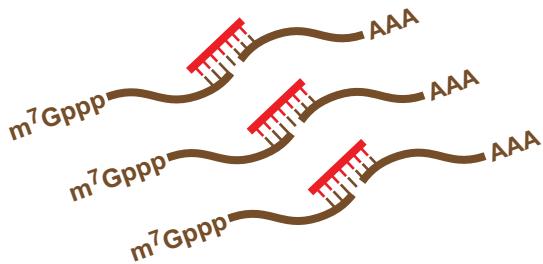
**Figure 5****A****B****C**

# Figure 5-figure supplement 1



**Figure 6**

PANICLE



ROOT

