

Table S1. Primers used for analysis.

Primer name	Sequence (5'-3')
Primer-F1	GGATCCCTGTAGCAGCAGCAGTTTCTGAACTACATTAGTCGTCAGGAGATACAGTTTG
Primer-R1	GAGCTCGCCTAGCAGCAGGAATTTCTGAACTACATTAGTCGTCAGAGAGGCAAAAGTG
amiR MP	TGCTGATTACATCAAGTCTTT
35S	TCATTTCATTTGGAGAGAACACGGG
NOS	AGACCGGCAACAGGATTCAATC
PCV-F1	TAACTCGACGACAACAGTCGCAGTG
PCV-F2	TAGAGCAGCTTGAGCTTGGATCAG
PCV-F3	ATGAATCACTGGTTGATCGGTGGC
PCV-F4	CAAGAACCAAGGATAACTCGACGAC
PCV-F5	GGCATGGGAGTAGGGACTAAAGGT
LAD2	ACGATGGACTCCAGAGVNVNHHGGTA
LAD3	ACGATGGACTCCAGAGHNVNHNCCAC
LAC1	ACGATGGACTCCAGAG
RT-MP-F	AGCTCAGGGAAGCTCTTGCTGGT
RT-MP-R	CACTAGAGGATAAGGCTATAAACC
RT-UBC-F	TTTCGGTCCTGATGATACTCCC
RT-UBC-R	CACAGAGCAAAGACTGGATTGA
RT-CP-F	CACCGAGGACACTATCCCATAC
RT-CP-R	CAAAGATGCGTTGTCTTACCTG
NB-MP-F1	CAGAACTGTGTCATCTCCAGAACTC
NB-MP-R1	AGCTGGACAAATGGTTTATAGCCTT
NB-MP-F2	AAGCTGTTGGAGGTGCTTTCACT
NB-MP-R2	CTACATGATGACAGAACTTCAGAT

Table S2. Plant height of homozygous transgenic plants amiR MP-24.

Transgenic line	Plant height (cm) (18 plants)						Average	P value
amiR MP-24	84	84	86	79	84	83	85.4±2.7	0.189
	80	80	82	84	82	84		
	89	88	83	87	87	89		
WT	82	83	88	87	89	84	84.2±3.0	
	87	87	85	84	80	84		
	89	89	88	86	83	83		

Table S3. Tiller number of homozygous transgenic plants amiR MP-24.

Transgenic line	Tiller number (18 plants)						Average	P value
amiR MP-24	7	6	5	6	5	7	7.1±1.6	0.649
	9	6	6	9	6	9		
	5	7	10	8	8	9		
WT	7	9	6	8	8	8	7.3±1.2	
	8	8	9	5	7	9		
	7	8	6	6	5	8		

Table S4. seed-setting rate of homozygous transgenic plants amiR MP-24.

Transgenic line	seed-setting rate (%)							Average	P value
amiR MP-24	93.87	94.97	93.12	93.23	93.16			93.67±0.79	0.819
WT	89.81	90.16	95.60	96.26	96.93	94.39	94.71	93.9±2.86	

Table S5 Grains per spike of homozygous transgenic plants amiR MP-24

Transgenic line	Grains per spike (grains)								Average	P value
amiR MP-24	199	189	203	179	177				189.4±11.6	0.378
WT	141	165	174	206	158	215	185		177.7±26.3	