

Supplementary Table S1. Summary of the basic parameters in short-read RNA sequencing dataset.

Sample	Clean reads	Unmapped reads	Mapped reads	Map rate
WT-CT-1	65944016	1589104	64354912	97.59%
WT-CT-2	48924508	1167567	47756941	97.61%
WT-CT-3	55942394	1317916	54624478	97.64%
WT-Dark-1	51500318	1275206	50225112	97.52%
WT-Dark-2	57206881	1512115	55694766	97.36%
WT-Dark-3	58275562	1508723	56766839	97.41%
WT-Heat-1	63452482	1613203	61839279	97.46%
WT-Heat-2	64318066	1744158	62573908	97.29%
WT-Heat-3	73779958	3929931	69850027	94.67%
Average	59927132	1739769	58187362	97.17%

Supplementary Table S2. Primer used for PCR analysis in this study.

Gene name	Gene ID	Primer name	Primer sequences
<i>DIN1</i>	AT4G35770	AS1 F AS1 R AS2 (IR) F AS2 (IR) R	GAAAGCAACGACAACAAGCA TCTTAACCATTCCTGATCCGAC GAAAGCAACGACAACAAGCA GCAACGGTTTTGGCTTGG
<i>DIN6</i>	AT3G47340	AS1 F AS1 R AS2 (IR) F AS2 (IR) R	CGACCCTGAATCCAAGATGATCAAG GCGTGATCTTTCAGGCCATC CACAAACTCAATACCTTCCTTCACA GCGTGATCTTTCAGGCCATC
<i>DIN10</i>	AT5G20250	AS1 F AS1 R AS2 (IR) F AS2 (IR) R	TCAATTTTGGTCATACAAGAGAAGC ACCGCCGGTTTAATCGTCAT AACCCAGAATCAGACTTCATCTCA ACCGCCGGTTTAATCGTCAT
<i>GT-1</i>	AT1G13450	AS1 F AS1 R AS2 (IR) F AS2 (IR) R	GAGACTCCTGGAAACGGTGATG AAGGGCATGTCTCGGTCAAG TGCTTGATTTATTCGTTTCGGTCTC AAGGGCATGTCTCGGTCAAG
<i>SPA3</i>	AT3G15354	AS1 F AS1 R AS2 (IR) F AS2 (IR) R	ATTCATCAGCAGACCCGAC TGCTAACTCCCTGATTGATACT ATTCATCAGCAGACCCGAC GTTTCAGTTTTCAATAGCCGACA
<i>HYH</i>	AT3G17609	AS1 F AS1 R AS2 (AE) F AS2 (AE) R	CACAAGAAGCACAAAACCTGAGGA GCGGCGTTTAGCTGTAGAGA ACAAGAAGCACAAAACCTGCTGG GCGGCGTTTAGCTGTAGAGA
<i>JMJD5</i>	AT3G20810	Total F Total R AS2 (AE) F AS2 (AE) R	GGTGGTGGGGAACCTCCAATC GTGTAACGGAGTAACTGTCCCA GGTGGTGGGGAACCTCCAATC CCAGCGAGAAGATCAGGCTGAGC
<i>HSFA2</i>	AT2G26150	Total F Total R AS2 (CE) F AS2 (CE) R	GGAGGAACATGGGTTTGCAG CGAAACCGTATTGCCCAACC ATTCGTCAGCTCAATACTTATATGGG CGAAACCGTATTGCCCAACC
<i>Luc7-lr</i>	AT5G51410	AS1 F AS1 R AS2 (IR) F AS2 (IR) R	TGCAAATTAATGAGCTATTCTAAG CTCAACGCTTTTGACCTCTT ATGTGATACCCCTTTGGTT CTCAACGCTTTTGACCTCTT
<i>RBM25</i>	AT1G60200	AS1 F AS1 R AS2 (AE5) F AS2 (AE5) R	CCATGCCTCCTCATGGGCTT GGGTCGTGGTGCTAGTTGAA TGCTCTAGTTTGTGGGCTTC GGGTCGTGGTGCTAGTTGAA

<i>PRP4</i>	AT2G41500	AS1 F AS1 R AS2 (AE3) F AS2 (AE3) R	CTGGTCAGACTCAGAGGTTAT AATTGACGAAACCCGCGAAT CTGGTCAGACTCAGAGGAAAC AATTGACGAAACCCGCGAAT
<i>SYF2</i>	AT2G16860	AS1 F AS1 R AS2 (AE3) F AS2 (AE3) R	TCCGCGAGATATCTGGTGTTT CGTAAGATTTTTCCCAAACCTGT TCCGCGAGATATCTGGTGTTT ACTTCCAAGCGTTAAGAACTGTG
<i>U2AF65a</i>	AT4G36690	AS1 F AS1 R AS2 (AE3) F AS2 (AE3) R	GGTTATGTTACAGCCTGGT AAAGCACCAAACCTTCCGC GGTTATGTTACAGCCTGGT TCTTTATAGCAAAAGGCAAAC
<i>RSZ32</i>	AT3G53500	AS1 F AS1 R AS2 (IR) F AS2 (IR) R	CTATGGAAACACTCGCCTCT CACATCTCGTACTCTTCCGTA CTATGGAAACACTCGCCTCT TATCCCCTGCACAACATCAA
<i>RS40</i>	AT4G25500	AS1 F AS1 R AS2 (AE5&IR) F AS2 (AE5&IR) R	TGAAAGCTGGGTTTGCTTTT AATTCAAAGCGGTCAAGTGC TCAGGAAATACGGCAAGGTT GATAGTCCACCAGAGCCTTC
<i>hnRNP-P</i>	AT1G50300	AS1 F AS1 R AS2 (AE5) F AS2 (AE5) R	ACCATTGGGTTGCTTAAGAGAGA CTCCCTTGGGCTCATCAGTT GGTATGGTATTGGCCAGAGAGAC CTCCCTTGGGCTCATCAGTT
<i>SR30</i>	AT1G09140	Total F Total R AS1 F AS1 R AS2 F AS2 R AS3 F AS3 R AS4 F AS4 R AS5 F AS5 R CDS F CDS R	GATCGAATTCTCCAGTTTCACCT CGAGACAGAGTTTCCGGCTT TCTGTCTCAAGGTCCCAATCA CGAGACAGAGTTTCCGGCTT CTTAGTCGTTCTCGCTCGCT CCAGCTTTGTAAATCCAGTCC CTTAGTCGTTCTCGCTCGCT TCAACTGTGTACGGAAGCAA CGGGTATGTTGTATTGCTTTCTT ATCATCTGGGCTTCGACTCA GGTTAGTAAACGCATGATGAAAG AAATCTACGACCACCATGTGC CACCATGAGTAGCCGATGGAATCGT TCAACCAGATATCACAGGTGAA
<i>ACT2</i>	AT3G18780	F R	TGTGCCAATCTACGAGGGT GCTGGTCTTTGAGGTTTCC
