

1 **Supplementary Table S1. Primers used in this study.**

Primers for semi-qRT-PCR	Sequence (5'-3')
Exp30150F	AGGAGCAATGGCAGGGTCTGA
Exp30150R	TACACCCACACCGCGATCAGC
Exp30154F	GCGAGTACGAGATGAAGCGG
Exp30154R	CAGATGGGCTTGCAGATGGTC
Exp30160F	GGTTGTCCTCACCTACTGCT
Exp30160R	CATGAGTCAATCGGAGGCGA
Exp30170F	CGGCTGCTATTGGGACTGAA
Exp30170R	ACTCCGATTTTCCCATATGCTGT
Primers used for sequencing	Sequence (5'-3')
CDSSeq30130F	ACACCGTAGATCTATATCCACAAGC
CDSSeq30130R	GATAAAGCAACTCACCTGAAAGCAT
CDSSeq30150F	AAGAAGAGAGGGGAGGAGCAATG
CDSSeq30150R	ACATGGACAGAATAGTGGAATGCAC
ProSeq30150-1F	GGGCACA ACTCTAATGGTGGAT
ProSeq30150-1R	ATTGTTGCTTTTACGCATCGCA
ProSeq30150-2F	TGTGTGCAAGGAACAAAATCCTC
ProSeq30150-2R	TCGTCACCAAGTTTGGGTCTTAT
ProSeq30150-3F	CAAGTCTAGGGTAAGGCCACATT
ProSeq30150-3R	GGACCCCACTGACTAATCAACAA
WholeSeq30154F	AAGTGCAAGA ACAGCGCTGA
WholeSeq30154R	TTCGATCGACCCAAGAACTCAA
WholeSeq30160-1F	ATCTGTGGTTGCAAGATACTGAA
WholeSeq30160-1R	GCACAATGATTACGTCGAAACCT
WholeSeq30160-2F	TTTCGACGTAATCATTGTGCTGA
WholeSeq30160-2R	TTTTCGTCCATGAGTCAATCGG
WholeSeq30160-3F	AATTGGCTCCTGAAGATGACTGT
WholeSeq30160-3R	TCTGTTGCCCTTCTGCTTATTCT
WholeSeq30170-1F	AACCGCATCGCATCACACTAA
WholeSeq30170-1R	CGGTTCCCAAATAATCGAACC
WholeSeq30170-2F	CGATTATTTGGGGAACCGTACT
WholeSeq30170-2R	CTAACAAGTTGCATGGGAACTCTA
WholeSeq30170-3F	TCTAGAGTTCCCATGCAACTTGT
WholeSeq30170-3R	TTCAGAACGCAACAACTGGAAG
WholeSeq30170-4F	CACTTACTTCCAGTTGTTGCGT
WholeSeq30170-4R	GGCATATTGTTTGGTGTGCATTA

2 **Supplementary Table S2. List of candidate genes in the *qSPP7* region.**

Gene locus	Length	Description
<i>LOC_Os07g30110</i>	3840 bp	Protein of unknown function DUF1395 family protein.
<i>LOC_Os07g30120</i>	3484 bp	Conserved hypothetical protein
<i>LOC_Os07g30130</i>	2763 bp	Myb transcription factor domain containing protein
<i>LOC_Os07g30150</i>	13327 bp	Similar to Adenine Phosphoribosyl Transferase
<i>LOC_Os07g30154</i>	560 bp	Protein of unknown function DUF1210 family protein
<i>LOC_Os07g30160</i>	4411 bp	Similar to Trehalose-6-phosphate phosphatase
<i>LOC_Os07g30170</i>	3069 bp	Similar to Beta-ureidopropionase