

University of Dundee

The Arabidopsis SR45 splicing factor, a negative regulator of sugar signaling, modulates SNF1-related protein kinase 1 (SnRK1) stability

Carvalho, Raquel F.; Szakonyi, Dóra; Simpson, Craig G.; Barbosa, Inês C. R.; Brown, John W. S.; Baena-González, Elena

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Supplemental Table 4. Sequences of the Primers Used in This Study

Real-Time RT-qPCR Analyses

Gene ID	Primer Name	Primer Sequence (5' to 3')	Description
At4g29130	HXK1 F1	AAAGTTGTGATCAGTCTCTGC	<i>HXK1</i> -specific (Figure 1A)
	HXK1 R1	ATAACCGATTCTGCACCTCC	
At3g01090	SnRK1.1 F1	ATGAAGTGCAGATGGGTTCC	<i>SnRK1.1</i> -specific (Figure 2A)
	SnRK1.1 R1	ACATTGGGCGACTTAACAGC	
At2g33830	DRM2 F1	CTTCGACAAGCCTTCTCACC	<i>DRM2</i> -specific (Figure 3B)
	DRM2 R1	TCGTCGCTGTATAGCCAATC	
At4g35770	DIN1 F1	CAGAGTCGGATCAGGAATGG	<i>DIN1</i> -specific (Figure 3B)
	DIN1 R1	ATTTGACCGCTCTCACAAACC	
At3g47340	DIN6 F1	AAGAGGTGGCGGAATATTTGG	<i>DIN6</i> -specific (Figure 3B)
	DIN6 R1	TGTGCTCGCTCTGATAGTCG	
At1g05630	5PTase13 F2	TGGCTGCTTTATTCTTCTGG	<i>5PTase13</i> -specific, amplification of <i>5PTase13.1</i> (Figure 7C)
	5PTase13 R2	GTGCTTGGAAATAGTGTACTC	
	5PTase13 F3	GGTGAACATTCGAGGAAGCT	<i>5PTase13</i> -specific, amplification of total gene expression (Figure 7C)
	5PTase13 R3	AGGTTTCGTGGGTCTGTTCTC	
At1g16610	SR45 F1	GCGATCACCTGATTCTCCC	<i>SR45</i> -specific, amplification of total gene expression (Supplemental Figure 4)
	SR45 R1	AGATCTATATCGTCTTGGAGG	
	SR45.1 F1	CGTCAGAAAGTATCTTCACCC	<i>SR45.1</i> -specific, amplification of <i>SR45.1</i> (Supplemental Figure 5A)
	SR45.1 R1	CTGTTTTCCGTTGAGGAGATG	
At1g29930	CAB1 F1	AGCCATCGTCACTGGTAAGG	<i>CAB1</i> -specific (Supplemental Figure 7)
	CAB1 R1	CCTCTCACACTCACGAAGCA	
At5G38410	RBCS3B F1	ACTCCCGGATACTACGATG	<i>RBCS3B</i> -specific (Supplemental Figure 7)
	RBCS3B R1	CTGATGCATTGGACTTGACG	
At3g18780	ACT2 F1	GGATCTGTACGGTAACATTTGTC	<i>Actin2</i> -specific, house-keeping gene (Figures 1A, 2A; Supplemental Figures 4, 5A)
	ACT2 R1	CTGCTGGAATGTGCTGAGG	
At5g60390	EF1A F1	TGAGCACGCTCTTCTTGCTTCA	<i>EF1A</i> -specific, house-keeping gene (Figures 3B, 7C; Supplemental Figure 7)
	EF1A R1	GGTGGTGGCATCCATCTTGTTACA	

Semi-quantitative RT-PCR Analyses

Gene ID	Primer Name	Primer Sequence (5' to 3')	Description	# Cycles
At1g05630	5PTase13 F1	AGAAACGGTTGGACTTGAAGG	<i>5PTase13</i> -specific, amplification of <i>5PTase13.1</i> and <i>5PTase13.2</i> (Figure 7A, 7B)	33
	5PTase13 R1	ATAAGCTGAAGTTGAGACACC		
At3g01090	SnRK1.1 F1	TGCATTTTTGGTTCCGAATTTTC	<i>SnRK1.1</i> -specific, amplification of <i>SnRK1.1.1</i> , <i>SnRK1.1.2</i> and <i>SnRK1.1.3</i> (Supplemental Figure 1)	30
	SnRK1.1 R1	CATCTCCATGTCTTGATTTTG		
	SnRK1.1 F2	CAATGGATTGATCTTGAAATC	<i>SnRK1.1</i> -specific, amplification of <i>SnRK1.1.2</i> and <i>SnRK1.1.3</i> (Supplemental Figure 1)	30
	SnRK1.1 R2	ATAGAGACGGATGATGTGAGG		
	SnRK1.1 F3	GTC AAGTTTGAATTCAGTTGT	<i>SnRK1.1</i> -specific, flanking T-DNA insertion in <i>snrk1.1-3</i> (Supplemental Figure 2B)	35
	SnRK1.1 R3	TTTAGTATTCAGAGGACTCGG		
At4g29130	HXK1 F2	GTTGGAGCGACTGTTGTTTG	<i>HXK1</i> -specific, flanking T-DNA insertions in <i>hvk1-1</i> and <i>hvk1-2</i> (Supplemental Figure 2A)	35
	HXK1 R2	ACTCTCGAAATCCAGCGTGT		
At1g16610	SR45 F1	AACGTTCCACTACCACCTCG	<i>SR45</i> -specific, flanking T-DNA insertion in <i>sr45-1</i> (Supplemental Figure 2)	35
	SR45 R1	GTAAGAAGATGACCTCCCACG		
At3g18780	ACT2 F2	TTTGCAGGAGATGATGCTCCC	<i>Actin2</i> -specific, house-keeping gene (Figure 7B; Supplemental Figures 1B, 2)	25
	ACT2 R2	GTCTTTGAGGTTCCATCTCC		

Cloning

Gene ID	Primer Name	Primer Sequence (5' to 3')	Description
At1g16610	SR45 pBA F	<u>TTCTCGAGATGGCGAAACCAAGTCGTG</u>	cloning of <i>SR45.1</i> to generate overexpressor lines (Supplemental Figure 4)
	SR45 pBA R	<u>TTAATTAAGTTTTACGAGGTGGAGGTGG</u>	

Restriction sites are shown in italics and underlined.