

Supplementary Table I Number of cells/ml and cell size of *Vitis* cells grown for 7 days in control medium and in the absence of cytokinin (-CK). Values of cell number and cell size are means of 10 measurements taken randomly \pm SD. Different letters indicate significant differences at $p < 0.05$.

	Number of cells/ml ($\times 10^5$)	Cell size (μm)
Control	2.59 ^a \pm 0.54	66 ^a \pm 6.38
-CK	2.58 ^a \pm 0.54	51.67 ^b \pm 10

Supplementary Table II Real-time PCR primers designed from *Arabidopsis* sequences and validated with *Vitis* genome.

<i>Arabidopsis</i> protein	Initial Seq. from data base (<i>Vitis</i>)	Name (Accession)	Primer sequence	Sequences tested by Real-Time PCR	Sequences expressed in <i>Vitis</i>
HK's					
AHK2	CU459264	VvCyt1 (FJ822975)	5' GAAGTGCTGAGACAGAGCTTGAATA 3' 5' CTCCATTGAATCTGTGCAGCTTAAC 3'	+	+
CRE1	CU459222	VvCyt2	5' ATTCGAGACGAGTATGCACCTGTGA 3' 5' ATGATGAGAACCAAGCAGCCTGAAG 3'	+	+
AHK3	CU459353	VvCyt3 (FJ822976)	5' TAGCTGCTGGTGCATTGAAGAAGTA 3' 5' TCGACTATTGACGTTCCGTTCCATT 3'	+	+
AHP3					
	CU459291	VvHP1	5' CTGGCGGAGATAATACCAATGT 3' 5' ATGTATCTCGCATTACCTGAAC 3'		
	CU459224	VvHP2 (FJ822977)	5' AATTCGTTTCAGCTGGAGGAAC 3' 5' TTCAGCTGTTGGAAGGTCTTCA 3'	+	+
	AM484268	VvHP3 (FJ822978)	5' CACAGCTTCAGCAACTACAAGA 3' 5' TTGTTGCTCCAACCTGAAGAGA 3'	+	+
	CU459321	VvHP4 (FJ822979)	5' GAATCTCCGAGGACTACTGATG 3' 5' AACAGTACTCGTGTTCGACAAG 3'		+
A-type RR17					
	CU459263	VvRRa1 (FJ822980)	5' TGTATGCCTGGAATGACTGGAT 3' 5' TGGACGGTGGTGTATGATGATAA 3'		+
	CU459229	VvRRa2 (FJ822981)	5' TTGGGTTCCCTCCACCACTGTAT 3' 5' ACCTCCGATCCACATGGCTAT 3'		+
	CU459265	VvRRa3 (FJ822982)	5' AAGGAGGTTCCAGTTGTGATAA 3' 5' GCTTCTGTGCTTCAAGTAACAT 3'	+	+
	CU459270	VvRRa4 (FJ822983)	5' ACTGGCTATGATCTCCTCAGAA 3' 5' GCTTGCTCACATCCGATAATTG 3'	+	+
B-type RR18					
	AM434392	VvRRb1 (FJ822984)	5' CAGACGTGGAATGAAGTCCTAA 3' 5' TCTGAGGTCTCTGGATCTACAA 3'		+
	AM432245	VvRRb2	5' AACCAAGATTCCCTCGGCAACCT 3' 5' TACCTGCACCGTTGGCTTGATA 3'		+
	AM423607	VvRRb3 (FJ822985)	5' GATTACTCATGGTCTTGTGAC 3' 5' CTCATTCTTCTCCGTTCTCT 3'		+
	AM460059	VvRRb4 (FJ822986)	5' AGTAACCTTGATCCGAGTAGAA 3' 5' CTGCTGGAACAACATATCTTGA 3'		+
	CU459292	VvRRb5 (FJ822987)	5' TCGAGTTCTCGTGGTTCGATGA 3' 5' CATGCACCATGCTGAACACCTT 3'	+	+
	CU459281	VvRRb6 (FJ822988)	5' TCCTGGTGGTTGATGATGATCC 3' 5' TGATAACAGGCAGGTCCATCTC 3'	+	+
Apical Meristem genes					
	CU459300	VvWus (FJ822989)	5' CTGGACTCCTACAACCTGACCAGATA 3' 5' TTCTTGCCCTCGATCTTGCCGTA 3'	+	+

Axillary Meristem genes	CU459218	VvClv	5' TTCGGTTGTCGAACCTCCAAGGATT 3' 5' AAGTCAAGAACTCGGAGCGAACTCA 3'	+	+
	AM483920	VvSTM	5' TCTATGGTGATGATGATGCCTCCTA 3' 5' ATGTTGCTGCTGTTGTTGTTGTTTC 3'	+	+
	CU459233	VvBrc1	5' TCTCCTTCTTCTACTTTCCGTCTC 3' 5' TTGCGATCTCCTATTAGTTCATTGC 3'	+	+
	CU459222	VvBrc2	5' TGCCCGTAAGTTCTTTGATCTCCA 3' 5' GGTGAGTTCCTTGATTGCTGCTTTG 3'	+	+
	CU459359	VvLas (FJ822990)	5' GAGCCATGTCTGCTAGTGCTAATAC 3' 5' CCAGAATAGCTTGATTGGCAGTGAG 3'	+	+
	CU460733	VvRax	5' GAGCTAACTACGTCAAGCAAGAGAT 3' 5' ATCTTGGTTCGGATGCACAGATACT 3'	+	+
	CU459220	VvRev	5' AAGGCTACAGGAAGTCTGTCGATT 3' 5' TGCCACTCCACTGCAACTATGTGAA 3'	+	+

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