

Table S5 Sequences of all oligonucleotides used in this study. *, sequences of the primers published in [Ref. 1,2].

Name	Sequence (5'-3')	Used for
BNYVV2(1)for*	ACATTTCTATCCTCCTCCAC	BNYVV detection by RT-PCR
BNYVV2(1)rev*	ACCCCAACAAACTCTCTAAC	BNYVV detection by RT-PCR
PB4for*	CAAACGCCTGAAATCATCTAAC	<i>P. betae</i> detection by RT-PCR
PB4rev*	GATGGCCCAATTCCTTACAC	<i>P. betae</i> detection by RT-PCR
BNYVV P25 Fw	GGGACAAGTTTGTACAAAAAAGCAGGCTT GACCATGGGTGATATATTAGGCGCA	Gateway cloning of P25 ORF
BNYVV P25 Rv	GGGACCACTTTGTACAAGAAAGCTGGGTA CTAATCATCATCAACACCGTC	Gateway cloning of P25 ORF
BvICDH-SELA3724F*	CACACCAGATGAAGGCCGT	RT-qPCR
BvICDH-SELA3725R*	CCCTGAAGACCGTGCCAT	RT-qPCR
Bv EXPA2-like-(10)-F	AGAACCTTGTTTCTTAAAAATTGCC	RT-qPCR
Bv EXPA2-like-(10)-R	TGTGAATCTTATGCCTCCTGTTTT	RT-qPCR
BvExpA4a(09)qPCR(6)F	ATTCGGTGACTACGGTGGTG	RT-qPCR

BvExpA4a(09)qPCR(6)R	GTTTCCGTACCCACATGCTC	RT-qPCR
BvExpA4b(47)qPCR(3)F	CTTTCCGCAGGGTGCCAT	RT-qPCR
BvExpA4b(47)qPCR(3)R	GCACCCGCAACATTAATAACC	RT-qPCR
BvExpA4c(65)qPCR(3)F	CGCTTCTGGAAGTATGGGAGG	RT-qPCR
BvExpA4c(65)qPCR(3)R	CTGTGCTAAGTGCAGCCGTA	RT-qPCR
BvExpA4-likeqPCR(7)F	CTACCGCCGGGTTCCAT	RT-qPCR
BvExpA4-likeqPCR(7)R	AGCCCCAGCAACATTAGTTAT	RT-qPCR
BvExp7qPCR(4)-F	ACCTCTCCATGCCTGCATTT	RT-qPCR
BvExp7qPCR(4)-R	CTTCGCACATGGAACCTCC	RT-qPCR
BvExpA7-like-qPCR(6)-F	ACTATGGGAGGAGCTTGTGG	RT-qPCR
BvExpA7-like-qPCR(6)-R	AGCTAAGAGCTGCCGTTTCT	RT-qPCR
Bv EXPA10 (2)-F	CCCTCCTCTTCAACACTTCGATT	RT-qPCR
Bv EXPA10 (2)-R	AAGGTACCCTTCTAAAGGAAACAG	RT-qPCR
BvExpA10L-1(150)qPCR(9)-F	GTTGCGTACCGAAGAGTACC	RT-qPCR
BvExpA10L-1(150)qPCR(9)-R	CGGCGACATTAGTGATTAACCC	RT-qPCR
BvExpA10L-2-qPCR(7)F	TCCTTTAGAAGGGTACCATGCAG	RT-qPCR
BvExpA10L-2-qPCR(7)R	CACCTCCGACGTTGGTGATTA	RT-qPCR
BvExpA11L-1(17)qPCR(7)-F	GCGCGCTTACAGTACAGTTT	RT-qPCR
BvExpA11L-1(17)qPCR(7)-R	ATTTCCGGCGGCTTAAACCCA	RT-qPCR
BvExpA11L-2(44)qPCR(2)-F	GTTCAAGCCTTTGTGGCTTCT	RT-qPCR
BvExpA11L-2(44)qPCR(2)-R	TACCCACAAGCTCCTCCATA	RT-qPCR
BvExpA12-qPCR(4)-F	TATCATGCCATAGGCGAGGC	RT-qPCR
BvExpA12-qPCR(4)-R	TCACATCTCCACTACCCCA	RT-qPCR
BvExpA13-qPCR(1)-F	GCTGTCCAATACCGAAGGATCA	RT-qPCR
BvExpA13-qPCR(1)-R	ACTGACAAGCACGGACACAA	RT-qPCR
BvExpA16qPCR(3)F	TTCCCTCGCCAGCATTTCG	RT-qPCR
BvExpA16qPCR(3)R	CACACTCTACCCTCCTGTATTGA	RT-qPCR
Bv EXPA32-like (5) F	GAGGTGCAGGAGATGTCGAA	RT-qPCR
Bv EXPA32-like (5) R	GCTCTCCCAGTATTGACCCC	RT-qPCR
BvExpB3qPCR(3)F	AAGAGAGGCGACATCCAATGA	RT-qPCR
BvExpB3qPCR(3)R	GGTCCCCCAATTATGCACCA	RT-qPCR
Bv EXPB15L(6)-F	TCCGGGATCGAACCAATACT	RT-qPCR
Bv EXPB15L(6)-R	CCACCCACCAGATCTTTGCT	RT-qPCR
BvExp-like A1a-qPCR-F	TGGCCTTACCTGCCAAAGAT	RT-qPCR
BvExp-like A1a-qPCR-R	AAACACAGGGCACCCCTCTTA	RT-qPCR

Bv EXPLA1b-72 (4)-For	AGGAGGTGATGTGGCTTCG	RT-qPCR
Bv EXPLA1b-72 (4)-Rev	GGTTGGGGCATTGTTTGTGTC	RT-qPCR
BvExp-likeA2a qPCR(1)F	TAGCCGTGCTTTTAAGGCGA	RT-qPCR
BvExp-likeA2a qPCR(1)R	AATCGCAAGCGACCCTCTTA	RT-qPCR
Bv EXPLA2b (3)-F	TGGATGTTGCTCAGGTTGGT	RT-qPCR
Bv EXPLA2b (3)-R	TGCAATGGCCCACTTGGTA	RT-qPCR
BvExp-likeA3a qPCR(10)F	GGTTGAAGTAGCCTCGGTTGATA	RT-qPCR
BvExp-likeA3a qPCR(10)R	CTTTGTTCGTGTCCCACACAG	RT-qPCR
Bv EXLA3b new (1)-F	GAGCTATAGCCAAAGGCCCA	RT-qPCR
Bv EXLA3b new (1)-R	CACCCACCGTGGCTATATCA	RT-qPCR
Bv EXPLA3c (2)-F	GAAGAGGCCAGCAACAAACC	RT-qPCR
Bv EXPLA3c (2)-R	TTGAGCCCACCATAGCTACA	RT-qPCR
BvExp-likeB1a(35)qPCR(2)F	TGCATGTTACAAGTTAGGTGC	RT-qPCR
BvExp-likeB1a(35)qPCR(2)R	GGACACGCCATAGTCCGTAA	RT-qPCR
BvExp-likeB1b qPCR(1)F	TTGGCAGGAAGACTGCAAAG	RT-qPCR
BvExp-likeB1b qPCR(1)R	GGTCAGCCCTTGGTGGATTT	RT-qPCR
BvExp-LB1c(87)qPCR(2)-F	AGGACATCACTGCTGTGCAA	RT-qPCR
BvExp-LB1c(87)qPCR(2)-R	ACTTGTCCACACAGCACCAT	RT-qPCR
BvLBD16-qPCR(5)-F	TTGCAGCAACAGGTGGCATA	RT-qPCR
BvLBD16-qPCR(5)-R	TGTTGTTGTTGTTGTCCATTGAT	RT-qPCR
BvLBD18qPCR(10)F	GCTCTGGAGGGGGTGATCTA	RT-qPCR
BvLBD18qPCR(10)R	GGATCATGCATGTGCCAAT	RT-qPCR
BvLBD29-qPCR-F	GAGGCTCAAGCTAGGCTCCA	RT-qPCR
BvLBD29-qPCR-R	TTGTGCTTGTAAGTTAACAACCTGT	RT-qPCR
Bv ARF7-like qPCR(6)-F	TGACCCTGCTGTTTTGGGTG	RT-qPCR
Bv ARF7-like qPCR(6)-R	ATCTACCAACTGAGCCACGC	RT-qPCR
Bv ARF19-like qPCR(7)F	GGATGACCCTTGGGAGGACT	RT-qPCR
Bv ARF19-like qPCR(7)R	TCCCGAAATCACCATCAAGGC	RT-qPCR
Bv IAA14-like qPCR(2)-F	GAAAGGAGGCTGCTGGTCTT	RT-qPCR
Bv IAA14-like qPCR(2)-R	TCAAAGGAGCAGGATTGTTCCA	RT-qPCR
Bv AUX28 qPCR5-F	GATGCTCGTTGGCGATGTTT	RT-qPCR
Bv AUX28 qPCR5-R	TTGGTGCTAGTCCAATGGCTT	RT-qPCR
1-up-EcoRI	ATGAATTCAGCAGCAGGATTAATTTCTGA	Cloning BvAUX28 Domain I, Domain I+II, Domain I-IV and Domain I+III+IV for Y2H; forward primer

99-low-XhoI	TACTCGAGTCACA <u>ACTGATCCGGTTGTT</u>	Cloning BvAUX28 Domain I; reverse primer
100-up-EcoRI	AGAATTCGTGAAGAAACAACAACGGC	Cloning BvAUX28 Domain II and Domain II-IV; forward primer
501-low-XhoI	TACTCGAGTCATGCACTTGCGATAGTGTT	Cloning BvAUX28 Domain II, Domain I+II; reverse primer
502-up-EcoRI	AGAATTCGCATTTGTTAAGGTTAGCAT	Cloning BvAUX28 Domain III+IV; forward primer
858-low-XhoI	TATCTCGAGTCAGCTTCTACTCTTGCATT	Cloning BvAUX28 Domain I-IV, Domain I+III+IV, Domain II-IV; reverse primer
1-99+502-858-up	ATCAGCTAGCGCATTGTTAAGGTTAGC	Cloning BvAUX28 Domain I+III+IV; forward primer
1-99+502-858-low	ATCAGCTAGCCAACTGATCCGGTTGTTCC	Cloning BvAUX28 Domain I+III+IV; reverse primer
Bv-Aux/IAA-BamHI	TAGGATCCAGCAGCACGATTAATTTCGA	Cloning BvAUX28 to obtain a construct for GST-pulldown
Bv-Aux/IAA-EcoRI	ATGAATTCTCAGCTTCTACTCTTGCATTTCT	Cloning BvAUX28 to obtain a construct for GST-pulldown
P25- BglII	TATAGATCTGTGCATGGGTGATATATTAGGCG	Engineering P25 constructs for sub-cellular localization
P25-XhoI	AATCTCGAGATCATCATCATCAACACCGT	Engineering P25 constructs for sub-cellular localization
P25-BglII	GTATAGATCTGGTGATATATTAGGCGCAGT	Engineering P25 constructs for BiFC
P25-Sall	TATGTCGACATCATCATCATCAACACCGT	Engineering P25 constructs for BiFC
1-up-BamHI	TGGGATCCAGCAGCACGATTAATTTCGA	Engineering BvAUX28 constructs for BiFC
501-low-Sall	ATAGTCGACTGCACTTGCGATAGTGTT	Engineering BvAUX28 constructs for BiFC
1-up-BamHI	TGGGATCCAGCAGCACGATTAATTTCGA	Engineering BvAUX28 constructs for BiFC
858-low-Sall	TATGTCGACGCTTCTACTCTTGCATTTCT	Engineering BvAUX28 constructs for BiFC

SUPPORTING INFORMATION REFERENCE

1. Meunier, A., Schmit, J. J.-F. F., Stas, A., Kutluk, N. & Bragard, C. Multiplex Reverse Transcription-PCR for Simultaneous Detection of Beet Necrotic Yellow Vein Virus , Beet Soilborne Virus , and Beet Virus Q and Their Vector *Polymyxa betae* KESKIN on Sugar Beet Multiplex Reverse Transcription-PCR for Simultaneous Detection. *Appl. Environ. Microbiol.* **69**, 2356–2360 (2003).
2. Pin, P. A. *et al.* An antagonistic pair of FT homologs mediates the control of flowering time in sugar beet. *Science* . **330**, 1397–400 (2010).