

Data S1.

A. 'Shelly' *MiFT/TFLI* cDNA sequences

The four cloned 'Shelly' *MiFT/TFLI* cDNAs and their putative protein sequences are presented. For each cDNA sequence, the ATG codon and stop codon are in red font. Forward and reverse primers used for full-length cDNA cloning are highlighted in blue. Forward and reverse primers for real-time qPCR are highlighted in gray.

MiFT1- 'Shelly' CDS sequence

TTTACTATGCTCTGGGAAGGCTGTTGTTCCGATAGAGATCCTCTTGTGTTGGGAGAGTAATTGGAGATGTTATTGACAATTTTAATACGTCAATTTCTCGTAATGT
TAGCTATGGCAACAGGGATGTCGGCAATGGTGTGAGCTCAAGCCCTCTGTTGTTGCCAATCATCCGAGGGTTGACATTGGTGGAAGTCTTAGGACCTTCTATA
CTTTGGTCATGGTGGATCCTGATGCACCTAGCCCTAGTAATCCAGGTCTCAGAGAATACTTGCATTGGTTGGTGACTGATATTCCC GGATCTACAGGGGCATCCTTC
GGACAAGAGATTGTGAATTATGAGAGCCCCGAGACCAACATTGGGGATTACAGGTTTGTATTATGTTGTTTCGTCAACTGGGAAGACAAACTGTGTATGCACCAGC
GTGGCGCCAGAATTCATCACCAGAGACTTTGCTGAGCTTTACAATCTGGGATCTCCTGCGGCTGCTGTTTACTTCAATTGCCAGAAGGAGACTGGCTCTGGAGGAA
GAAGAAGGCAGTAATATGCTTATGT

MiFT1- 'Shelly' protein sequence

MSWEGCCSDRDLPLVGRVIGDIVDNFNTSISRNVSYGNRDVGNGVELKPSVVANHPRVDIGGTDLRIFYTLVMVDPDAPSPSPNGLREYLHWLVTDIPGSTGASFGQ
EIVNYESPRPTLGIHRFVFLMRQLGRQTVYAPAWRQNFITRDFAELYNLGSPAAAVYFNCQKETGSGGRRRQ

MiFT2- 'Shelly' CDS sequence

CATCATGATGGAGAGGACTATGGTGAAAGTGCTTCCAGGGAGACTAGGGAAAGTGCTTCCAGAGATCCTCTTGTGTTGGGCGAGTTGTGGGAGACGTTCTTGACA
ACTTTACTAAGTCTATTGCTTTCACGTCTAGCTATGGCCACAAGCTGGAAGTTCACAATGGTGTCTTACTCAAGCCCTCTCAAGTTGCCAAACAACCTAGGGTTTCT
ATTGGTGGAAGTGATTTTCAGGAACCTTCTACACTTTGGTCATGGTGGATCCTGATGCACCCAGTCCAAGTGACCCCCACCTTAAAGAGTACTTGCATTGGTTGGTGAT
TGATATTCCAGAAAGTACAGGAGCAACTTATGGCAAAGAGTTGTTTCTTATGAGAGCCCAAAGCCAACAGTGGGGATTACAGGTTTGTGTTTGTGCTGTTTCGGC
AACC GGGAACAGCCTGTGTATGCACCAGGGTGGCGCCAGAACTTCGTAACCAGAGACTTGTCTGAGCTTTACAATCTTGCTCCCCGTGGCTGCCCTTTTTTTC
AATTGCCAAAAGGAGACTAAGACCTCTACTAGCTCATCATCAAGCTCAAGGAGACGCTAGCTAATTAATATATACATATAACTCCACATATATGGCTCGATGCATGC
ACTTTAATTCTATGATCTCTCCGTGATTGCCTAACAATAATTATAGGCTGTCATGTAGAGACTTC

MiFT2- 'Shelly' protein sequence

MDGEDYGESASRETRESASRDLPLVGRVVGVDLDFNTKSIATFASYGHKLEVHNGVLLKPSQVAKQPRVSIIGSDFRNFYTLVMVDPDAPSPSDPHLKEYLHWLV
IPESTGATYKEVVSYESP KPTVGIHRFVFLFRQPGKQPVYAPGWRQNFVTRDFAELYNLGSPVAALFFNCQKETKTSTSSSSSSRRR*

MiTFL1-1 - 'Shelly' CDS sequence

CTCCTACTGATTCAATGGCAAGAATAGTAGACCTCTTGTGTTGGGAGAGTGATAGGAGATGTTCTTGATTCTTTCTCTCCAACAATCACAATGTTTGTAAGTTAC
AATAACAGGCAAGTCTGTAATGGCCATGAGCTTTTACCTTCCACAGTTTCCTTCAGACCTAGGGTTGAGATTCAAGGAGGTGATATGAGAACTTTCTTTACTGTT
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AGATCCCCACATCCCCCATTTTCGTCCAGTCTATTGGAAACC

MiTFL1-1 'Shelly' protein sequence

MARIVDPLVGRVIGDVLDLFSPTITMFVSYNNRQVCNGHELLPSTVSFRPRVEIQGGDMRTFFTLVMTDPPDVPGPSDPYLRHLHLVLANIPGTTDVTFGRELVS
EIPRPNIGIHRFVFALFRQKGRQIFNPSSRDNFSTRIFAAENDLGPPVAAVYFNAQRETAARRR*

MiTFL1-2 'Shelly' CDS sequence

TTCCATGGATCTAACTACCTTCTCTACACTATAAATAGGGAGCTTCAACTCAAGGGAAGATAAGTAAAAGAAAGAAAAACACATAATTAGATCATTTCTCTCTCTCC
AATGCAAGAATGCCATCAGATCCTCTTGTAGTTGGCAGAGTGATTGGAGATGTTGTTGATTGTTGTGATCAAAGTGTCAAATGGCAGTCACCTACAACCTCTTCCA
AGCAGGTGTACAATGGCCATGAGCTGTTTCCATCTTCAGTGACTGTGAAACCTAAGGTTGAGGTTACCGGAGGTGATATGAGATCATTTCTTACATTGATCATGACA
GACCAGATGTTCTTGGTCCAAGTGACCCATACTTGAGGGAGCATTTACTGGGTGGTGACAGACATCCCAGGCACAACCTGATGCCACGTTTGGAAAGGGAATTGGT
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GCTTCAACACAAGAAAGTTTGTGTAAGACAATGACCTTGGTCAGCCTGTTGCAGCTGTGTTCTTCAATGCACAAAGGAAACAGCCGCAAGAAGGCGCTGATAAATC
AGGAAATAATTATAAAAAATAAGGTACTATTCCAGAAGAAAAAATATTTAAACATTTTAATTGAAAGGCGATGGGTGCAG

MiTFL1-2 'Shelly' protein sequence

MARMPDPLVGRVIGDVVDCCDQTVKMAVTYNSSKQVYNGHELFPSSVTVKPKVEVHGGDMRSFFTLIMTDPDVPGPSDPYLRHLHWVVDIPGTTDATFGREL
NYEMPRPNIGIHRFVFLFRQKRRQTVISIPSSRDGFNTRKFAEDNDLGQPVAAVFFNAQRETAARRR*

B. *MiFT* genomic annotations and their corresponding genes from different mango cultivars.

MiFT annotations from the mango genomic database (https://mangobase.org/easy_gdb/index.php), and their corresponding genes from 'Irwin' (1), 'Alphonso' (2), 'SiJiMi' (3) and 'Shelly' (this study).

The predicted exons are indicated in blue font, based on the updated annotations in the mango genomic database. Manin03g001820.1 and Manin03g001830.1 annotations require further validation.

	<i>MiFT-like genes'</i> genomic annotations	'Irwin' cloned <i>FT</i> genes ⁽¹⁾	'Alphonso' cloned <i>FT</i> genes ⁽²⁾	'SiJiMi' cloned <i>FT</i> genes ⁽³⁾	'Shelly' cloned <i>FT</i> genes (this study)
1	Manin02g003570.1		<i>MiFT1</i> (JX177434.1)		
2	Not found	<i>MiFT</i> (AB671587.1)	<i>MiFT3</i> * #	<i>MiFT1</i> (MT419778)	<i>MiFT1</i> (OP341600)
3	Manin03g001820.1		<i>MiFT2</i> (JX141437.2)	<i>MiFT2</i> (MT419779)	
4	Manin03g001830.1			<i>MiFT3</i> (JQ700254.1)	<i>MiFT2</i> (OP341601)

Accession numbers not assigned.
*The sequences of *MiFT1* and *MiFT3* from 'Alphonso' are identical, but have different 5' UTRs.

(1). Nakagawa, M.; Honsho, C.; Kanzaki, S.; Shimizu, K.; Utsunomiya, N. Isolation and Expression analysis of FLOWERING LOCUS T-like and gibberellin metabolism genes in biennial-bearing mango trees. *Sci. Hortic.* 2012, 139, 108–117. doi:10.1016/j.scienta.2012.03.005.

(2). Vyavahare, S.N.; Krishna, B.; Joshi, S.S.; Chaudhari, R.S.; Subramaniam, V.R.; Sane, P.V. Characterization of mango Flowering Locus T (FT) and Terminal Flower 1 (TFL1) genes. *Acta Hortic.* 2017, 1, 113–124. doi:10.17660/ActaHortic.2017.1183.16.

(3). Fan, Z.-Y.; He, X.-H.; Fan, Y.; Yu, H.-X.; Wang, Y.-H.; Xie, X.-J.; Liu, Y.; Mo, X.; Wang, J.-Y.; Luo, C. Isolation and functional characterization of three MiFTs genes from mango. *Plant Physiol. Biochem.* 2020, 155, 169–176. doi:10.1016/j.plaphy.2020.07.009.

> Manin02g003570.1

CTCTCTGGGAAGGCAGTTGTTCCAATAGAGATCCTCTTGTGTGGGAGAGTAATTGGAGATGTTATTAACAATTTTAATAGGTCAGTTTCTCTTAATGTTAGCTA
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TAA

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CAAAGCCAACAGTGAGGATTACAGGTTTGTTTTTGTGCTGTTTCGGCAACCGGGGAACAGCCTGTGTATGCACCAGGGTGGCGCCAGAACCTTCGTAACAGAGAGC
TTTGCTGAGCTTTACAATCTTGCTCTCCCCGTGGCTGCCTTTTTTTCAATTGCCAAAAGGAGACTAAGACCTCTACTAGCTCATCATCAAGCTCAAGGAGACGCTA

C. *MiTFL1* genomic annotations and their corresponding genes from different mango cultivars. *MiTFL1* annotations from the mango genomic database (https://mangobase.org/easy_gdb/index.php), and their corresponding gene names from 'Alphonso' (2), 'SiJiMi' (4) and 'Shelly' (this study), cultivars.

	<i>MiTFL1-like genes'</i> genomic annotations	'Alphonso' cloned <i>TFL1</i> genes ⁽²⁾	'SiJiMi' cloned <i>TFL1</i> genes ⁽⁴⁾	'Shelly' cloned <i>TFL1</i> genes (this study)
1	Manin19g005780.1	<i>MiTFL</i> α (KU206290)	<i>MiTFL1-1</i> [#]	<i>MiTFL1-1</i> (OP341602)
2	Chr 3 unannotated	<i>MiTFL1</i> (KF258590.1)	<i>MiTFL1-2</i> [#]	<i>MiTFL1-2</i> (OP341603)
3	Not found		<i>MiTFL1-3</i> [#]	
4	Manin01g011190.1		<i>MiTFL1-4</i> [#]	

[#] Accession numbers not assigned.

(4). Wang, Y.-H.; He, X.-H.; Yu, H.-X.; Mo, X.; Fan, Y.; Fan, Z.-Y.; Xie, X.-J.; Liu, Y.; Luo, C. Overexpression of four MiTFL1 genes from mango delays the flowering time in transgenic Arabidopsis. BMC Plant Biol. 2021, 21, 1–16. doi:10.1186/s12870-021-03199-9.

> Manin19g005780.1

ATGGCAAGAATAGTAGACCCTCTTGTTGTGGGGAGAGTGATAGGAGATGTTCTTGATTCTTTCTCTCCAACAATCACAATGTTTGTAAGTTACAATAACAGGCAAGTCTGTAATGGCCATGAGCTTTTACCTTCCACAGTTTCCTTCAGACCTAGGGTTGAGATTCAAGGAGGTGATATGAGAACTTTCTTTACACTGGTATCCTCCATTCCTTTACTCTTTTTAGATTTCCCTTCTACAATCACTCATTTTGCATCTTGCTAACAAAAATAACTAATTTTTGCCTCGTTAATTGCAGGTGATGACAGACCCAGATGTTCC TGGACCTAGTGATCCTTACTTAAGGAGCACCCTGCCTGGTATACTCTAAACCATCAAAAAAAAAAAAAAAAAATCTGGTGAATATTAGGATACTCTTATCATGAGCC TTCTATTATTGAACCTATCAGTGTTAGTACAAACATGTGTCAAAGTGAACCCCTAGTTCATGGTTGATCACCACCTTTCTTCAAAACAAGAAAACTAGTTTCACC AAAAGCCAAAGGGAACATCTATAGAAATGGCATTATTTTATGTACATAGAATCCCATCTGCAGACATCAACCATACTTTTAATCAATACATTATTGTCACATAATT TTTTAGACTCAATACCTATTATCCATTTAAGTAGAGAGAAAATACTTACATGTTCTGTAAATTACAGTATTCAAGTTACTACTTTTTCAAACCTGTAGCCAAGTTG AAGCAAATGCATGCTCAAAGCTCAATCATACCAAGATAATTTAATCTACAGCTGCTAAGTTAAACTAACAATAATTCTGGGTTAATCTGTTTACAGGCTAGTGGCA AACATACCAGGAACAACAGATGTCACATTTGGTAGGTCATATGATTTACTTTTGTAGATCTTAAAGATTTTAACAGTTTTCATTGAGGGATTTCATGTATGTCAGG GAGGGAAGCTGGTGAGTTATGAGATACCAAGGCCAAATATAGGCATCCACAGATTTGTTTTTGCTCTATTCAAGGCAGAAAGGTAGACAGATATTTAACCCACCTTCTT CAAGGGATAACTTCAGCACTCGAATTTTCGCTGCTGAAAACGATCTCGGTCTCTGTTGCTGCGCTCTACTTCAACGCACAAAGAGAACTGCAGCTAGAAGACGC TAA

> Chromosome 3 Transcript from 17065640- 17066894 on minus strand.

GAAATCATATTAGCTTGATTGATGGCTCAAATGTAATACATAAAATTCGGTGATAATCTTCTTGTTTCTCATGCAAATGGCATATCTTTTAATTTAATTTTCGTGGAA CAACTAAAAATCTGCAAATAAGTTCTCCAAATTTTATGTTTTTCAGCTGATTACTTTTGTAAAAAATTTATAAATTTTATCATATAATTACAATATATATAGACCC ACAATATACTCAGTCCAATAACTTTGACACCTATTTAATCTAATCAATCATTTTAAATCAGATGGAGTGCTTCCCCATTCAATTACTACTGAATCATTGATATATTAT ATTTGTAACCTTATCTAATAGTGAGATCAACAACTTTTGTTTACAGGAATCAAATAAATAAATACCCAACTGTTAATTTGACCTGACTTTTGCTATGACATTCAAAG TATATTGTGTTTCAAGATGATGAATTCGTTGGCTTCAAACCTTTGAACAAATTTAGTTTATGACTTTCTAAGTATATTTTGTCTCAGCATGATGAATTCATTGGCT TCAAACCTTTGAACAATTTAGTTTTTGTGTTGTAGTAATGGTAAAAAGACAACATTCGTGTCGCAATTTGGGAGTTCAGAATTAATTTAAGTAATGCATTGATTGATT AAAAGATTACGTGCGACGTGTTAGGAAGAATAAGAATCTAATTTCTTAACCTATGATTTCTCTCAGGCTACTATATGCCCTGTAATTCATATTTAAACATGACACC ATTTATTTTATCAATGTCCAGGTTAATTTGGACATTTTGGCAATCCAACCAAGCATTGGCCTAGGTTCCATGGATCTAACTACCTTCTCTACACTATAAATAG GGAGCTTCAACTTCAAGGGAAGATAAGTAAAAAGAAAAACACATAATTAGATCATTCCTCTCTCCAATGGCAAGAATGCCATCAGATCCTCTTGTAAGTTGGCA GAGTGATTGGAGATGTTGTTGATTGTTGTGATCAAACCTGTCAAATGGCAGTCACCTACAACCTCTTCCAAGCAGGTGTACAATGGCCATGAGCTGTTTCCATCTTCA GTGACTGTGAAACCTAAGGTTGAGGTTACGGAGGTGATATGAGATCATTTCTTCACATTGgtaaactttactacttattcttcttaattttctcttctttttttata tcgtctgcttcatgaggttaattaaagagtcttcttcttcttactataatagATCATGACAGACCCAGATGTTCTGGTCCAAGTGACCATACTTGAGGGAGCATTTA CACTGgtataatctcaaactctccccaatattatatgctgattaattacaagaaattaaccaaagaatgaacaggtttcagttatgccccatgtcatagcacat gtaaaacaactatccatagcacatgcatgtataaactttgctcaaattaatcaaccaatcgtgacctaatttttgaaatgcttcaagagttattgctgtgtatgcat cgtcaatatgatataattcaagaaggattcattttgcattttaatttcttcaatatatggaagaaaagtttggtgatatcacatgtgattgtatcaatgcaaaatc tctcaactttaattgagtatccttacagGGTGGTGACAGACATCCAGGCACAAcTGATGCCACGTTTGgtaagtagtttcataatttagagaaaaagacagagtaa

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