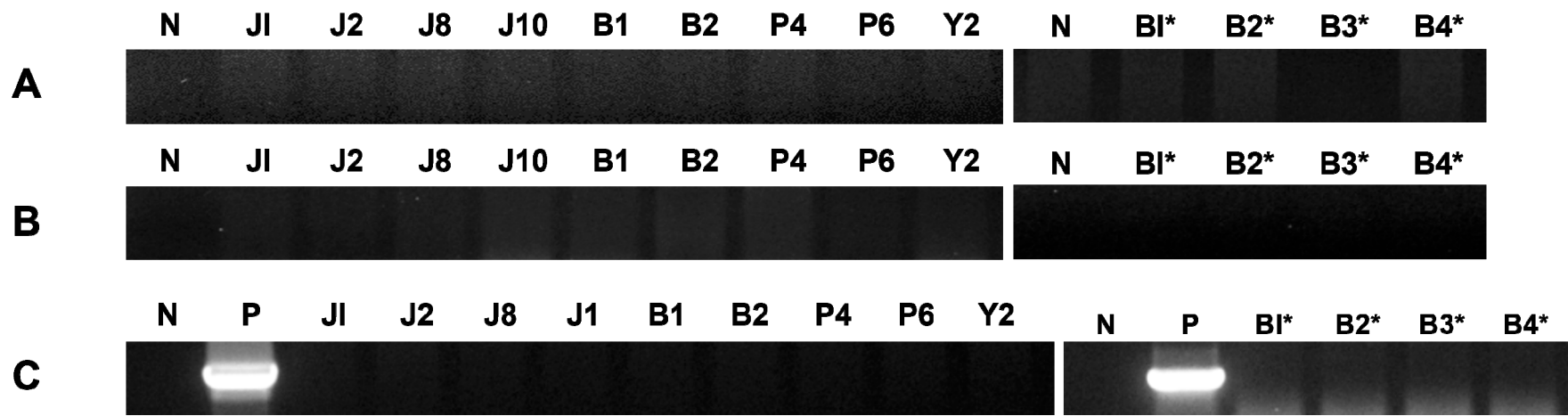


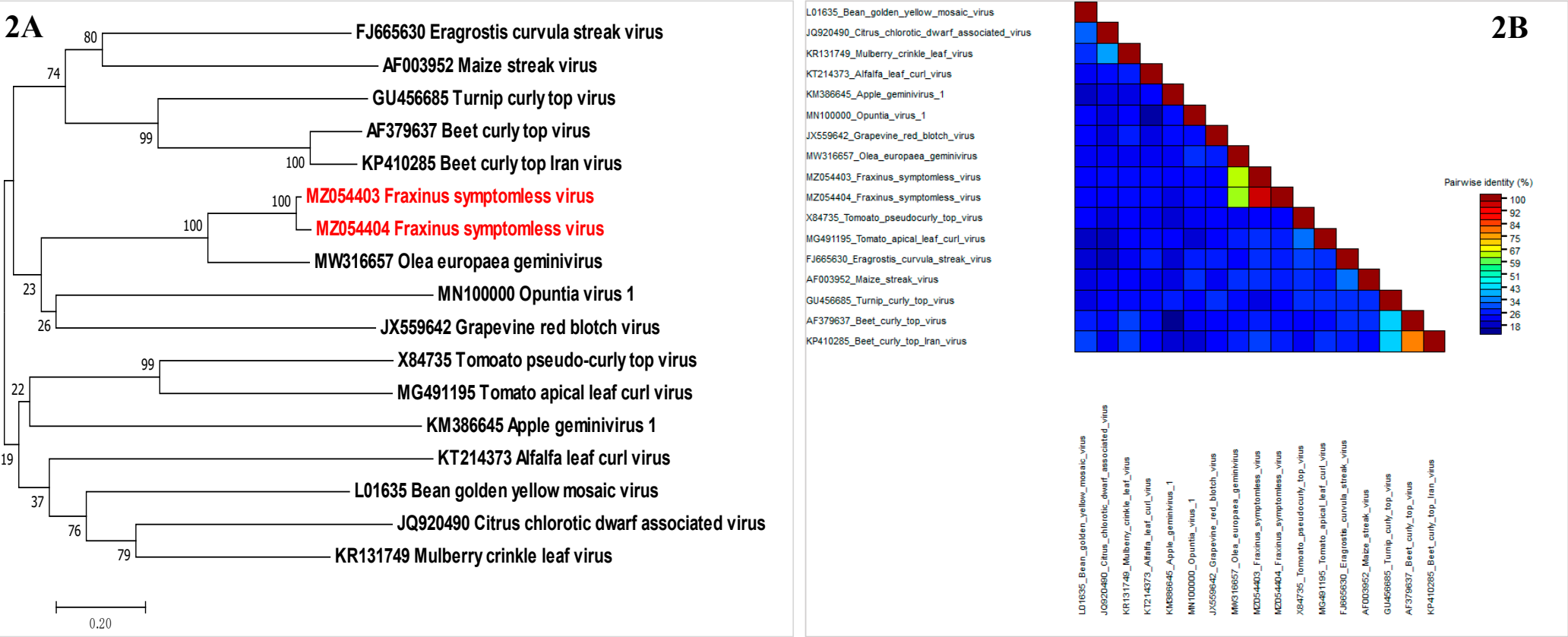
Supplementary Data

Supplementary Figure S1



Supplementary Figure S2

Coat Protein

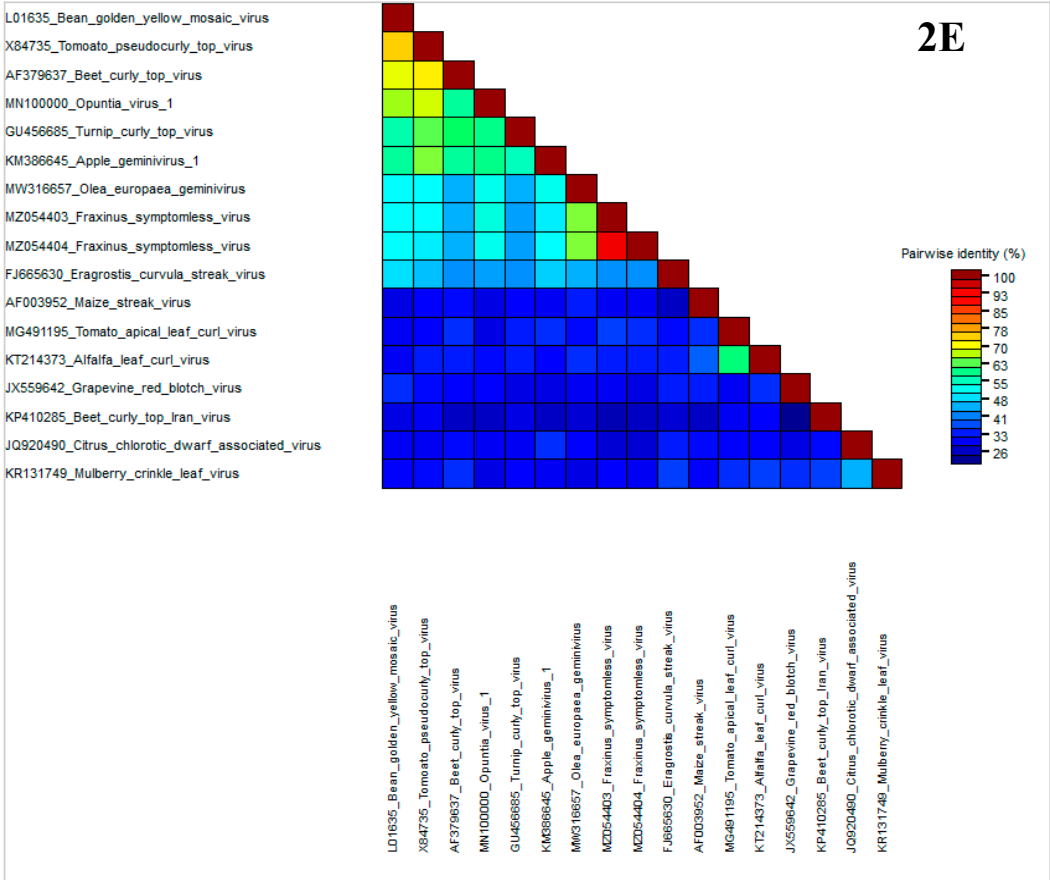
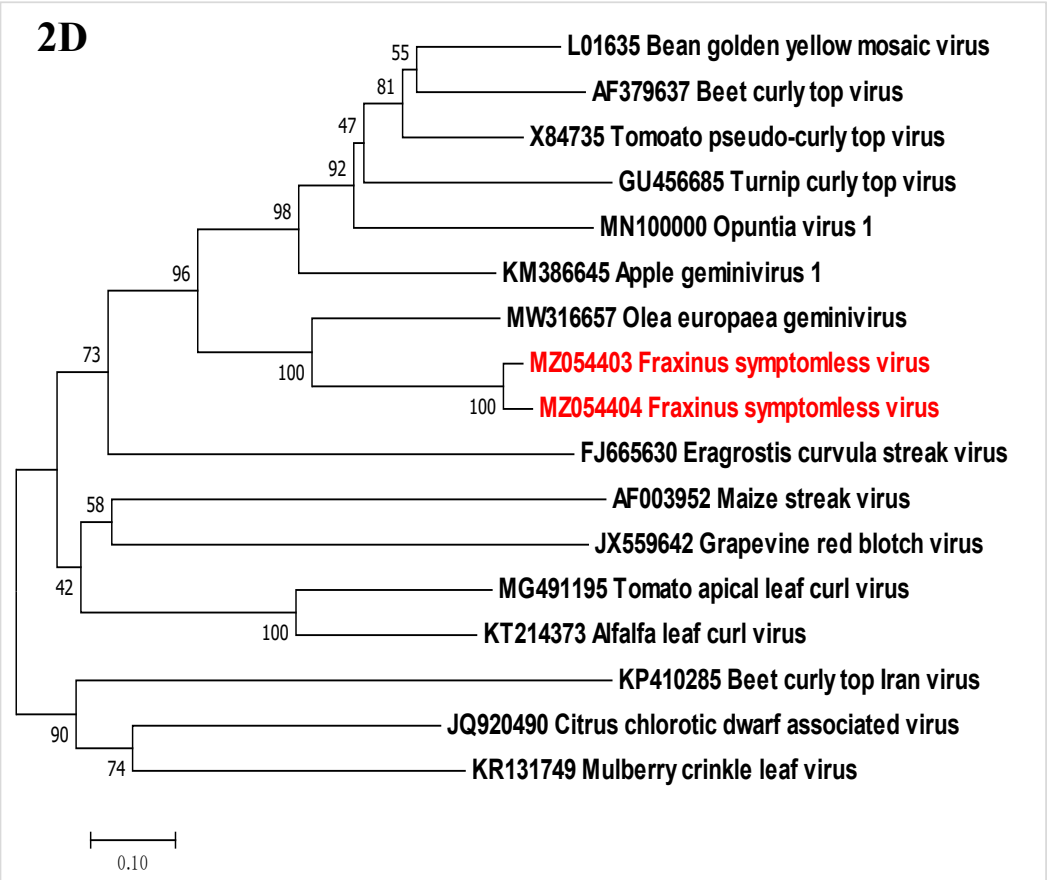


2C

CP_Identity scores

>L01635_Bean_golden_yellow_mosaic_virus	100.001
>JQ920490_Citrus_chlorotic_dwarf_associated_virus	31.601,100.001
>KR131749_Mulberry_crinkle_leaf_virus	28.001,37.601,100.001
>KT214373_Alfalfa_leaf_curl_virus	21.801,24.801,26.001,100.001
>KM386645_Apple_geminivirus_1	18.001,20.801,20.801,23.301,100.001
>MN100000_Opuntia_virus_1	22.901,21.201,23.301,14.601,24.901,100.001
>JX559642_Grapevine_red_blotch_virus	22.901,20.601,26.101,21.101,24.501,25.001,100.001
>MW316657_Olea_europaea_geminivirus	21.801,22.501,22.101,22.301,21.801,27.801,25.601,100.001
>MZ054403_Fraxinus_symptomless_virus	23.001,24.301,24.401,25.001,23.701,25.101,23.501,63.601,100.001
>MZ054404_Fraxinus_symptomless_virus	23.601,23.901,24.901,25.001,21.201,24.701,23.501,62.401,95.601,100.001
>X84735_Tomato_pseudocurly_top_virus	24.001,21.301,22.801,22.501,19.301,21.601,23.301,22.401,23.201,23.301,100.001
>MG491195_Tomato_apical_leaf_curl_virus	18.301,18.601,23.501,24.701,22.801,19.801,23.201,26.301,27.201,25.901,32.801,100.001
>FJ665630_Eragrostis_curvula_streak_virus	19.701,17.401,21.401,25.701,19.301,25.801,25.901,23.901,26.901,26.101,28.401,27.601,100.001
>AF003952_Maize_streak_virus	20.201,21.601,22.901,21.801,20.501,27.001,22.101,27.601,27.001,26.601,27.001,26.501,33.601,100.001
>GU456685_Turnip_curly_top_virus	20.301,23.801,24.201,24.701,25.501,24.101,27.001,24.401,20.901,23.001,28.101,28.201,26.901,27.501,100.001
>AF379637_Beet_curly_top_virus	26.701,24.301,29.601,24.901,13.901,22.301,23.301,25.301,26.301,25.301,23.001,25.101,27.301,28.201,41.401,100.001
>KP410285_Beet_curly_top_Iran_virus	28.601,22.301,28.701,23.601,18.801,19.301,23.701,26.301,28.301,25.501,22.601,27.401,25.801,25.301,41.101,78.501,100.001

Rep Protein



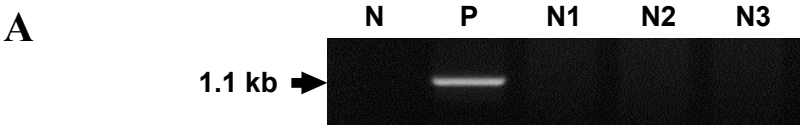
2F

	Rep_Identity scores
>L01635_Bean_golden_yellow_mosaic_virus	100.001
>X84735_Tomoato_pseudocurly_top_virus_Rep	73.601,100.001
>AF379637_Beet_curly_top_virus	68.801,71.001,100.001
>MN100000_Opuntia_virus_1	65.601,67.401,58.201,100.001
>GU456685_Turnip_curly_top_virus	56.801,62.401,61.901,59.301,100.001
>KM386645_Apple_geminivirus_1	58.201,63.401,57.301,58.601,54.701,100.001
>MW316657_Olea_europaea_geminivirus	50.101,49.901,44.401,51.901,44.101,51.101,100.001
>MZ054403_Fraxinus_symptomless_virus	50.601,50.601,44.201,52.401,42.901,49.401,63.901,100.001
>MZ054404_Fraxinus_symptomless_virus	50.601,49.401,43.901,52.101,43.101,50.001,64.401,94.201,100.001
>FJ665630_Eragrostis_curvula_streak_virus	47.301,45.201,41.901,42.401,42.101,46.001,43.901,42.101,41.501,100.001
>AF003952_Maize_streak_virus	28.201,30.701,31.501,28.301,30.401,29.801,33.201,29.001,29.001,25.501,100.001
>MG491195_Tomato_apical_leaf_curl_virus	29.701,30.301,33.601,27.601,33.101,34.001,31.601,36.001,34.801,31.301,33.901,100.001
>KT214373_Alfalfa_leaf_curl_virus	28.801,32.601,32.801,31.701,33.301,31.001,34.201,32.601,32.901,32.701,37.801,59.801,100.001
>JX559642_Grapevine_red_blotch_virus	34.501,31.701,30.801,30.501,27.401,27.901,29.301,29.201,28.501,33.201,33.501,29.801,34.001,100.001
>KP410285_Beet_curly_top_Iran_virus	27.501,29.201,25.001,26.101,28.101,25.401,26.301,24.601,26.001,26.301,26.101,28.901,30.601,21.801,100.001
>JQ920490_Citrus_chlorotic_dwarf_associated_virus	29.901,29.401,31.501,29.501,28.801,33.801,30.301,26.901,26.901,32.401,31.601,30.601,31.101,28.401,31.301,100.001
>KR131749_Mulberry_crinkle_leaf_virus	30.901,31.701,33.801,28.001,30.501,29.601,27.401,30.501,28.901,35.101,31.001,33.901,35.301,33.701,36.001,44.701,100.001

Supplementary Figure S3

1	130
MZ054403	CCACGTGTCA TCATCTTAGG CGTCCACGGA GTGACGCAA TAGTAGTCGA TTTTCGATCGA CGATCCGGTG TGAAGGACTT TACGTCCTTT AAATACATCT ATTTTCGTTGT TCATTTCAAA TGGACTCTTC
N1	CCACGTGTCA TCATCTTAGG CGTCCACGGA GTGACGCAA TAGTAGTCGA TTTTCGATCGA CGATCCGGTG TGAAGGACTT TACGTCCTTT AAATACATCT ATTTTCGTTGT TCATTTCAAA TGGACTCTTC
N3	CCACGTGTCA TCATCTTAGG CGTCCACGGA GTGACGCAA TAGTAGTCGA TTTTCGATCGA CGATCCGGTG TGAAGGACTT TACGTCCTTT AAATACATCT ATTTTCGTTGT TCATTTCAAA TGGACTCTTC
N2	CCACGTGTCA TCATCTTAGG CGTCCACGGA GTGACGCAA TAGTAGTCGA TTTTCGATCGA CGATCCGGTG TGAAGGACTT TACGTCCTTT AAATACATCT ATTTTCGTTGT TCATTTCAAA TGGACTCTTC
Consensus	CCACGTGTCA TCATCTTAGG CGTCCACGGA GTGACGCAA TAGTAGTCGA TTTTCGATCGA CGATCCGGTG TGAAGGACTT TACGTCCTTT AAATACATCT ATTTTCGTTGT TCATTTCAAA TGGACTCTTC
131	260
MZ054403	TAGGAAGAGG AAGTGGTTCG GCGGTCCGGC TAGGACCGCC GGTCGGAAGA CTCGAAGAGT GTTGCGAGTTT AACAGCACCC AGAGGAATCA GTTGCCAGCT CAATGGCAAC GCGTTCCTCG ATATAATCGA
N1	TAGGAAGAGG AAGTGGTTCG GCGGTCCGGC TAGGACCGCC GGTCGGAAGA CTCGAAGAGT GTTGCGAGTTT AACAGCACCC AGAGGAATCA GTTGCCAGCT CAATGGCAAC GCGTTCCTCG ATATAATCGA
N3	TAGGAAGAGG AAGTGGTTCG GCGGTCCGGC TAGGACCGCC GGTCGGAAGA CTCGAAGAGT GTTGCGAGTTT AACAGCACCC AGAGGAATCA GTTGCCAGCT CAATGGCAAC GCGTTCCTCG ATATAATCGA
N2	TAGGAAGAGG AAGTGGTTCG GCGGTCCGGC TAGGACCGCC GGTCGGAAGA CTCGAAGAGT GTTGCGAGTTT AACAGCACCC AGAGGAATCA GTTGCCAGCT CAATGGCAAC GCGTTCCTCG ATATAATCGA
Consensus	TAGGAAGAGG AAGTGGTTCG GCGGTCCGGC TAGGACCGCC GGTCGGAAGA CTCGAAGAGT GTTGCGAGTTT AACAGCACCC AGAGGAATCA GTTGCCAGCT CAATGGCAAC GCGTTCCTCG ATATAATCGA
261	390
MZ054403	AGATCCGGCG GATACACGCC GCCGATGCAG CACATGTCCG ATGTGCACGC TATCGAAGAC ATTGGAGATG GAGGTGTTGT TGTCTGCATC AACAACTGTC CCGCCGGCAA CAGCGTCGGA ACGCGGCATA
N1	AGATCCGGCG GATACACGCC GCCGATGCAG CACATGTCCG ATGTGCACGC TATCGAAGAC ATTGGAGATG GAGGTGTTGT TGTCTGCATC AACAACTGTC CCGCCGGCAA CAGCGTCGGA ACGCGGCATA
N3	AGATCCGGCG GATACACGCC GCCGATGCAG CACATGTCCG ATGTGCACGC TATCGAAGAC ATTGGAGATG GAGGTGTTGT TGTCTGCATC AACAACTGTC CCGCCGGCAA CAGCGTCGGA ACGCGGCATA
N2	AGATCCGGCG GATACACGCC GCCGATGCAG CACATGTCCG ATGTGCACGC TATCGAAGAC ATTGGAGATG GAGGTGTTGT TGTCTGCATC AACAACTGTC CCGCCGGCAA CAGCGTCGGA ACGCGGCATA
Consensus	AGATCCGGCG GATACACGCC GCCGATGCAG CACATGTCCG ATGTGCACGC TATCGAAGAC ATTGGAGATG GAGGTGTTGT TGTCTGCATC AACAACTGTC CCGCCGGCAA CAGCGTCGGA ACGCGGCATA
391	520
MZ054403	CACAGAAAGT TCGATGGAGC CGTTTGTTGC TGAAAGGCAA CGTCACCCTT GGTTCGGAAG GAAATGCCCA TAACATATAT CAGTGGATAT ATATGTGGTT GGTCTACGAC AGACGTCCC G GTAACGTCAA
N1	CACAGAAAGT TCGATGGAGC CGTTTGTTGC TGAAAGGCAA CGTCACCCTT GGTTCGGAAG GAAATGCCCA TAACATATAT CAGTGGATAT ATATGTGGTT GGTCTACGAC AGACGTCCC G GTAACGTCAA
N3	CACAGAAAGT TCGATGGAGC CGTTTGTTGC TGAAAGGCAA CGTCACCCTT GGTTCGGAAG GAAATGCCCA TAACATATAT CAGTGGATAT ATATGTGGTT GGTCTACGAC AGACGTCCC G GTAACGTCAA
N2	CACAGAAAGT TCGATGGAGC CGTTTGTTGC TGAAAGGCAA CGTCACCCTT GGTTCGGAAG GAAATGCCCA TAACATATAT CAGTGGATAT ATATGTGGTT GGTCTACGAC AGACGTCCC G GTAACGTCAA
Consensus	CACAGAAAGT TCGATGGAGC CGTTTGTTGC TGAAAGGCAA CGTCACCCTT GGTTCGGAAG GAAATGCCCA TAACATATAT CAGTGGATAT ATATGTGGTT GGTCTACGAC AGACGTCCC G GTAACGTCAA
521	650
MZ054403	TCCCAGGATT GTGGACATAT TTTCTGGGCA ACAGAATAAC CCCGAAACTT GGATGAAGAA TCAGGATAAT GCAGACCGAT TTGTGGTCTG CATGGAGAAA CGGTGTAGTT TGATTGGGCA CGGATATAGC
N1	TCCCAGGATT GTGGACATAT TTTCTGGGCA ACAGAATAAC CCCGAAACTT GGATGAAGAA TCAGGATAAT GCAGACCGAT TTGTGGTCTG CATGGAGAAA CGGTGTAGTT TGATTGGGCA CGGATATAGC
N3	TCCCAGGATT GTGGACATAT TTTCTGGGCA ACAGAATAAC CCCGAAACTT GGATGAAGAA TCAGGATAAT GCAGACCGAT TTGTGGTCTG CATGGAGAAA CGGTGTAGTT TGATTGGGCA CGGATATAGC
N2	TCCCAGGATT GTGGACATAT TTTCTGGGCA ACAGAATAAC CCCGAAACTT GGATGAAGAA TCAGGATAAT GCAGACCGAT TTGTGGTCTG CATGGAGAAA CGGTGTAGTT TGATTGGGCA CGGATATAGC
Consensus	TCCCAGGATT GTGGACATAT TTTCTGGGCA ACAGAATAAC CCCGAAACTT GGATGAAGAA TCAGGATAAT GCAGACCGAT TTGTGGTCTG CATGGAGAAA CGGTGTAGTT TGATTGGGCA CGGATATAGC
651	738
MZ054403	GATACGGCTA TGGTGACCGA TAGATCTCCC AATTTTGCGT ACATGCGATC GCGTCCGATA TCGGTGAACA AGAAATTGAC CGGGACTA
N1	GATACGGCTA TGGTGACCGA TAGATCTCCC AATTTTGCGT ACATGCGATC GCGTCCGATA TCGGTGAACA AGAAATTGAC CGGGACTA
N3	GATACGGCTA TGGTGACCGA TAGATCTCCC AATTTTGCGT ACATGCGATC GCGTCCGATA TCGGTGAACA AGAAATTGAC CGGGACTA
N2	GATACGGCTA TGGTGACCGA TAGATCTCCC AATTTTGCGT -CATGCGATC GCGTCCGATA TCGGTGAACA AGAAATTGAC CGGGACTA
Consensus	GATACGGCTA TGGTGACCGA TAGATCTCCC AATTTTGCGT aCATGCGATC GCGTCCGATA TCGGTGAACA AGAAATTGAC CGGGACTA

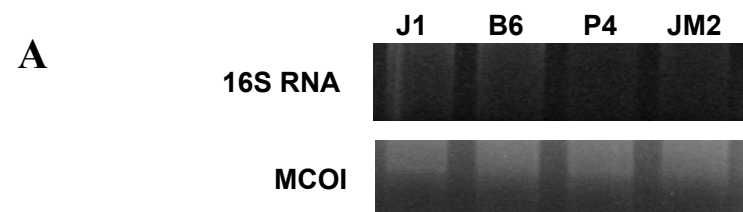
Supplementary Figure S4



B

Primer	Sequence 5' – 3'	Product Size
pCam-F	GCACTGGAACCCCAAGC	1.1 kb
pCam-R	TTAGGAACCGGCGGATGCTT	

Supplementary Figure S5



B

Primer	Sequence 5' – 3'	Product Size	Reference
16SRNA-F	CCGGTTTGAACCTCAGATCATGT	552 bps	Simon et al. 1994
16SRNA-R	CGCCTGTTTAACAAAAACAT		
MCOI-F	TATATCTTTCCCACGATTAAATAA	1.2 kb	Wang, J. et al. 2011
MCOI-R	GCATATTAATTCTGCCATATTAG		

Supplementary Figure S6A

>MZ054403 *Fraxinus* symptomless virus

ACTGGCTCGCCCGCGCCGGGACTTCCGTACGCCCACGTGTCATCATCTTAGGCGTCCACGGAGTGACGCAAATAGT
AGTCGATTTTCGATCGACGATCCGTTGTGAAGGACTTTACGTCCTTTAAATACATCTATTTTCGTTGTTTCATTTCAAAT
GGACTCTTCTAGGAAGAGGAAGTGGTTCGGCGGTCCGGCTAGGACCGCCGGTCGGAAGACTCGAAGAGTGTTGCAGT
TTAACAGCACCCAGAGGAATCAGTTGCCAGTCAATGGCAACGCGTTCTTCGATATAATCGAAGATCCGGCGGATAC
ACGCCGCCGATGCAGCACATGTCCGATGTGCACGCTATCGAAGACATTGGAGATGGAGGTGTTGTTGTCTGCATCAA
CAACTGTCCCGCCGGCAACAGCGTCGGAACGCGGCATACACAGAAAAGTTCGATGGAGCCGTTTGTGTGCTGAAAGGCA
ACGTCAACCTTGGTTCCGAAGGAAATGCCATAACATATATCAGTGGATATATATGTGGTTGGTCTACGACAGACGT
CCCGGTAACGTCAATCCCAGGATTGTGGACATATTTTCTGGGCAACAGAATAACCCCGAACTTGGATGAAGAATCA
GGATAATGCAGACCGATTTGTGGTCTGCATGGAGAAACGGTGTAGTTTGATTGGGCACGGATATAGCGATACGGCTA
TGGTGACCGATAGATCTCCCAATTTTGCCTACATGCGATCGCGTCCGATATCGGTGAACAAGAAATTGACCGGGACT
ACCTTGTTCAAGGATACCACCGACGGAGGAGTCGGTGATATGGATCGCGGAGCTTATTACTTAGTTTTTAGTACGTT
CCAGTCGTATCATGTAATGTAACGCTGAATAAGCGAATGTGGTTCAAAAGCATTTAATAAAATGAAATGTATTATCAT
TTTCCACTCTCCAGTCTACAATGAGTTTGTTCATGAACACATTACATCTTGAACACAATACAAGAAGTTGTACAAA
GAAATAACCCCTAAGTTGTCTAATTTTTTATGGATATAAAAAATAAGACGTTGGGATAAATTCCCAGAAATCATCTT
CAACAACGTCTCCTCGTTTATCGTCGTCGACGTCCGTCTTAATGTCGTCCAGATGCGGATAGTCCACCACGCTCTCT
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CCATGTGAGTGGCTCCCTGTGTTGGAATCCATGATTCCGGCACTCTATGGTCTGATGTATTATGCAGCCACACGGC
AGCTCGAGACGTCTAGGCTTGATTACTAGACGCTTCTTCCGTTTGCATCGGTGATGCTTCGCTCCTATAGAAGGGGG
TGTCGGCGATGAAGAATTCTGCATTTGCTAGAGTCCAGAGGTTTCAGGCCGTAGTTGCAGTCCAACTGCAGAAAATCT
CTATAAGAAGATTCTCCTGGATTGCCCAGCACGATACCCGGGATACCACCTTTAATTTGAATTGGTTTGGCGTACTT
GGCATTGTGATTGCCAATCCCTTTGGGCCCAATGAGCTCCTTCCAATGTTTCTTTTGGAGATAAGACGGAGTCACGT
CGTCGATGACGTTGTACCAGGCTTTATTGGAGAAAGTTCTAGAATTGAAGTCCATGAAGCCCATTAACATAATTATGT
GGGCCTAAAGATCTGGCCCATGCAGTCTTCCCAATCCTGGATTTCGCTTCGAGAATCAGGCTCTTGGGCCTGTGAGG
CCTATCGTTAGTATCTCTGATATTTTCTCTGGCCCAATTTGATAAACTGTTCCGGTACCTGGAACGATTCCGGATTGA
ATTCCGGTACATACTCTTTAACTGGTACTGCAAATTCCTTCTCCATGTTAGCTATGATATTATGACGTTGCAGAGCG
TACGTCCTGGGATCGCATCGCTTTATAATTGCGATCGATTCTTCTTTCGTCTCGGATTAAGAGCTCTTGTGTATTC
CTCGTCGATATCTAGTTTATCGCGACGACGTTTGCACCGTCCGTCTGGAATTTCGCCTTCTTCGACGTAAATTCCTC
CCTTCGCTATGTAGTCGGCGACGTCTGTCGCCGACCTAGCGCTCTGCACGTTTCGATGGTGTACCTCTCCCGTATTT
CGGTTCGACGATGTCGAAGAACCTACTGTTCCGACACTTGTAATTCCTGAGAATTGAATTAGACAGTGGAGGTGCTG
TGCACCGTCGGTGTGCGACTCCTCGCATACCCCTTATGAAAACCCAAATTGATCGGAAAGCCGAGAGATTTTAACTCGA
TTAAGACGATGTCTTCGATATCGGACATCGGGCATACGTCAAGAAGTAGTTCTTGGCGTTTATCAAGAATCGCGGT
GAAGATTGGGAAGACATTGGGAATTTGTAAAATTTGGGGATTTTACACAGTGTGATTGCAACAGTAACCAGGTCC
TCCTAACTTAAGCCATTTGTATTGGTGACTGGGGACAGAATAATATAGGGTCCTTATTCAGTGTCTCCTACCTTAC
GTCATCATTGACGTATCAAATTCAAATTCAAATTTTGAATTTTCCCTCCCTACAGTACCCGGGGGTACTATATCTA
TCTTTTCATCAGGCCCCCGCAGGGGCTTTATCTCGGGTCCATACCACGGTAGGCCCAATGGGCGAGCCATATAATAT

Supplementary Figure S6B

>MZ054404 *Fraxinus* symptomless virus

ACTGGCTCGCCCGACCGGGGACTTCCGTACGCCCACGTGTCATCATCTTATCCGTCCACGAAGTGGACGCGAATAGT
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GGACTCTTCTAGGAAGAGGAAGTGGTTCAGCGGTCCGGCTAGGTCCGCCGGTCGGAAGACTCGAAGAGTGTTCAGT
TTAACAGCACCCAGAGGAATCAGTTGCCAGCTCAATGGCAACGTGTTCTTCGATATAATCGAAGACCCGGCGGATGC
ACGCCGCCGATTAGCACATGTCCGATGTGCACGCGATCGAAGACATCGGAGATGGCGGTGTTGTTGTCTGCATCAA
CAACTGTCCCCTGTTAACATCGTCGGAACGCGACATACACAGAAAGTTTCGATGGAGCCGTTTGTGCTGAAAGGCA
ACGTCACCCTCGGTTCCGAAGGAAATGCCACAATATATATCAGTGGATATATATGTGGTTAGTCTACGATAGACGT
CCTGGTAACGTCAATCCCAGGATTATTCGATTATTTTCTGGGCAACAGAATAACCCCGAACTTGGATGAAGAATCA
GGATAATGCAGACCGATTTGTGGTCTGCATGGAGAAACGGTATAGTTTGATTGGGCACGGATATAGCGATACGGCTA
TGGTGACCGATAGATCTCCCAATTTTGCTTACATGCGATCGCGTCCGATATCGGTGAACAAGAAACTGACTGGGACT
ACCTTGTTCAAGGATACCACCGACGGAGGAGTCCGTGATATGGATCGCGGAGCTTATTACTTAGTTTTTAGTACGTT
CCAGTCGTATCATGTAAATGTAACGCTGAATAAGCGAATGTGGTTCAAAAGCGTTTAATAAAATGAAATGTATTCAT
TTTCCACTCTCCAGTCTACAATGAGTTTGTTCATGAACACATTACATCGTGAACACAATACAAGGAGTTGTACAAA
GAAATAACCCCTAAGTTGTCTAATTTTTTATGGATATAAAAAATAAAGACGTTGGGATAAAATCCCAGAAATCATCTT
CAACAACGTCTCCTCGTTTATCGTCATCGACGTCCGTCTTAATGTCTGTCAGATGCGGATAGTCCACCACGCTCTCT
TTATTTCCCAATTTTCATTCTGAGGTTGTAGTTGAACCTCAGTTCCACGTTGAACATTTGGTGGAACGGTGGATTTCGTC
GTCTGTCCAGAGTGTGGACTCGAATCCAGAACGGGTTGTTCAATACCCAAGTGTATTCTCCGACTTGTAGTTGCTG
CCATGTGAGTGGCTCCCCTGTGTTGGAATCCATGATTCGGGCACTCTATTGTCTGATGTATTATGCAGCCACACGGC
AGTTCGAGACGTCTAGGCTTGATGACTAGACGTTCTTCCGTTTGCATCGGTGATGCTTCGCTCCTATAGAAGGGG
TGTCGGCGATGAAGAATTCTGCATTTGCTATAGTCCAGAGATTCAAGCCGTAGTTGCAGTCTAACTGCAAAAAATCT
CTATAAGAAGATTCTCCTGGATTGCACAGCACGATACACGGGATACCACCTTTAATTTGAATTTGGTTTGCCGTACTT
GGCATTTGATTGCCAATCCCTTTGGGCCCAATGAGCTCCTTCCAATGTTTCTTTGGAGATAAGACGGAGTGACGT
CGTCGATGACGTTGTACCAGTTTTATTGGAGAACGTTTTACAATTGAAGTCCATGAAGCCATTACATAATTATGT
GGGCCTAAAGATCTGGCCCAAGCAGTTTTTCCCAAGCCTGGATTTCGCCTTCGAGGATCAGACTTTTGGGCCTGTGAGG
CCTATCGTTAATATCTCTGATATTTTCTCTGACCCATATTGATAACTGTTTCGGGTACCTGGAATGACTCCGGATTGA
ACTCCGGTGCATATTCTTGAACAGGTGGTGCAAATTCCTTCTCCATATTAGCAATGATATTGTGACGTTGCAGAGCG
TACGTCCTGGGATCGCATCGCTTTATAATTGCGATCGATTCTTCTTTCGTTCTGGCATTAGAGCTCTTGTGTATTC
CTCGTCGAGATCTGTTTTATCGCGACGACGTTTGCAGCCGTCCGCCGAAACTCGCCTTCTTCGACGTAAATTCCTC
CCTTCGTATGTAGTCGGCGACGTCGTCCGCCGACCCCGCGCTCTGCACGTTTCGGATGGTACACCTCTCCTGTATTT
CGGTCGACTATGTGAAGAACCCTACTGTTCCGACACTTGTACTTCCCTGAGAATTGAATTAGACAGTGGAGGTGCTG
TGCACCGTTCGGTGTGCGACTCCTCGCATACCCTTATGAAAACCAATTGATCGGAAAGCCGAGCGATTTAACTCGA
TTAAGACGATGTCTTCGATATGGGACATCGGGCATAACGTCGAAGAAGTAGTTCTTGGCGTTAATTAAGAAACGCGGT
GACGATTGGGAAGACATTGGGGATTGTAAAAATTTGGGGATTTTACACAGTGCCAATTGAAAAAGTAACAGGGGCC
TTCAATATAACCTATTTGTATTGGTGACTGGGGACAGTGTTATATAGGGTCCTTATTCAGTGTCTCTTACCTTACG
TCATCATTTGACGTCATCACATTCAAATTTGAATTTTCCCTCCCTACAGTACCGGGGGTACTATATCTATCATTTTAC
CAGGCCCGCAGGGGCTTTATCTCGGGTCCATACCACGGTAGACCCAATAGGCGAGCCATATAATATT

Supplementary TableS1. Primers used to detect FSMV DNA-A. DNA-B and to confirm the existence of virion-sense (VS) and complementary-sense (CS) DNA molecules in strand-specific amplification PCR procedure.

Primer	Sequence (5'-3')	Loci	Size	Primer	Sequences 5'-3'
Ash gemini 2F	CCACGTGTCATCATCTTAGG	27 - 46	737bp	Taq	AGTTTAAGAACCCTTCCCGC
Ash gemini 2R	TAGTCCCGGTCAATTCTTG	745 - 764		OVS	GGAGGTGTTGTTGTCTGCATC
Primer	Sequences 5'-3'		Product	OCS	GTCTGTCGTAGACCAACCACA
Tree-F2	AGT GTT GGA CTC GAA TCC AGA A		2.7 kb	Taq-OVS	AGTTTAAGAACCCTTCCCGCG GAGGTGTTGTTGTCTGCATC
Tree-R2	CTG GAC AGA CGA CGA ATC CA			Taq-OCS	AGTTTAAGAACCCTTCCCGCGT CTGTCGTAGACCAACCACA
Primer	Sequences 5'-3'		Product		
PBL1v20140	GCCTCTGCAGCARTGRTCKATCTTCATACA		600 bps		
PCRc1	CTAGCTGCAGCATATTTACRWATGCCA				