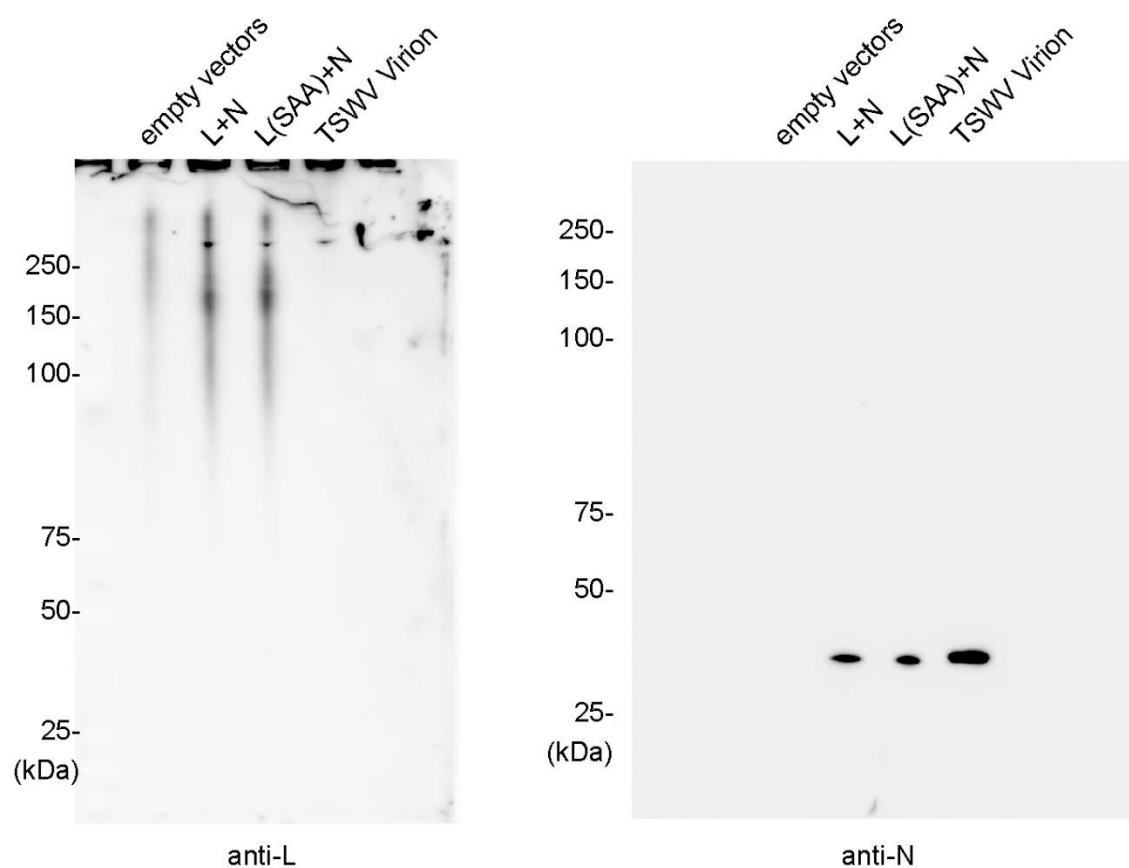


Supplementary Information

A Tomato Spotted Wilt Virus S RNA-based Replicon System in Yeast

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Supplementary Figure S1. The original image of Figure 1a. Positions of size markers (Precision Plus Protein Dual Color Standards, Bio-Rad) are indicated.

TACGTACGATTGCTCTCTGATGAGTCCGTGAGGACGAAACTATAGGAAAGGAATTCCTATAGTC
AGAGCAATCGTGTCAATTTTATTCAAACCTTAAAACTCAGCCTTACAAATCATCACATTTAAAC
CCTAAGAAACGACTGCGGAATACAGAGTTGTGCTTTTGCACCTCGAGTTAAATACGGTCAAAGC
ATATAACAACTTCTACGATCATCATGTCTAAGGTTAAGCTCACTAAGGAAAACATTGTTGCTTT
GTTGACACAAGGCAAAGACCTTGAATTTGAGGAAAATCAGAATCTGGTAGCATTCAACTTCAAG
ACTTTTTGTCTGGAAAACCTTGACCAGATCAAGAAGATGAGCATTATTTTCATGTCTGACATTTG
TGAAGAATCGTCAGAGTATAATGAAGGTTATTAAGCAAAGTGATTTTACTTTTGGTAAAATTAC
CATAAAGAAAACCTTCAGACAGGATTGGAGCCACTGACATGACCTTCAGAAGGCTTGATAGCTTA
ATCAGGGTCAGGCTTGTTGAGGAACTGGAAATTCTGAGAATCTCAATACTATCAAATCTAAGA
TTGCTTCTCACCTTTGATTCAAGCTTATGGATTACCTCTTGATGATGCGAAGTCTGTGAGGCT
TGCCATAATGCTGGGAGGTAGCTTACCTCTTATTGCTTCAGTTGACAGCTTTGAAATGATCAGT
GTTGTCTTGGCTATATATCAGGATGCAAAATACAAAGACCTCGGGATCGATCCAAAGAAGTATG
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AACAAACATAACATAATTAGAAAAAGCTGGACACGGCAAGATTAATTTTGATCCTGAAGCATATG
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CTTCTCTGGAGTTAGCTCATAGTTGTTCAAAGTGTAGATGATCACATCTTCTTGCAAGTTGTTG
CAAAGAACCTTGTCAAAAGATGTGTGAGTTTCAAGCAGAGCATGAACAATCCTCTGAGGATATG
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AGTTCTACATTTACGGATTGGGAGCTGATGCTTGCAAATAACAGAAATGTTTAAAGCTGTCTCA
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CAACTTTGAACAATTTCTGAATGGAAATCTGCTTCAAACCTTTGGAACCTTAGCCAGAGGCT
CAGCTTGAAATGAGAATCAGTGGAAGCTTTGACAAAAGCCTGAGAGTTAGGCATGATGTTGTTT

TCTGCTGACATAAGCAGAGATTTCACTGCAAGAGAATTCACAGTTCTGTTGTTGCTTTCAACTT
GATTGAAATTTGGCTTGAACTGTACAGCCATTCATGGACATTTCTGTTAGGGGATAGAACATT
CACTTTGCCTAAAGCTTGATTGTAGCACATCTCGACCTTATAGGTATGCTCTTTAACACAAGAC
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GCTGCTTTTGCTTCTTGAATCAGAATACAGCTGGGTTTGAAGTAGTGGAGAACCAGTACCAAGT
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TTGTCTGAATGATCGACTCATAAACACTTGAAGACAT

TATGGTTATTGGTACTGTGTTCTTATT
ACAGTTTTGTGATTTGCTAAGTGAGGTTTGATTATGAATAAAATTCTGACACAATTGCTCTGGG
TCGGCATGGCATCTCCACCTCCTCGCGGTCCGACCTGGGCATCCGAAGGAGGACGCACGTCCAC
TCGGATGGCTAAGGGAGAGCCAGAGCTC

Supplementary Figure S2. The nucleotide sequence of the cloned fragment in TSWV S cRNA-expressing plasmid used in this study. Open reading frames for *N* and *NSs* genes are marked by light green and light blue, respectively. Restriction enzyme recognition sites (SnaBI and SacI) used for cloning are underlined. Hammerhead ribozyme and hepatitis delta virus ribozyme sequences are shaded.

TACGTACGATTGCTCTCTGATGAGTCCGTGAGGACGAAACTATAGGAAAGGAATTCCTATAGTC
AGAGCAATCGTGTCAATTTTATTCAAACCTTAAACTCAGCCTTACAAATCATCACATTAAAC
CCTAAGAAACGACTGCGGAATACAGAGTTGTGCTTTTGCACCTCGAGTTAAATACGGTCAAAGC
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CAGCAGCTGTTACAACTCAAGAAGGACCATGTGGTCTCTCTTTTCGTTGGGATCTTTCGAAAG
CTTAGATTGATAGGACAGGTAATGGTTGTCTGGTAAAAGGACAGGGCCATCGCCAATTGGAGTA
TTTTGTTGATAATGGTCTGCTAGTTGAACGCCTCCATCTTCAATGTTGTGGCGGATCTTGAAGT
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TTCCAATTTGTGTCCCAGAATGTTGCCATCTTCCTTGAAGTCAATACCTTTTAACTCGATTCTA
TTAACAAGGGTATCACCTTCAAACCTTGACTTCAGCACGTGTCTTGTAGTTGCCGTCATCTTTGA
AGAAGATGGTCCTTTCCTGTACATAACCTTCGGGCATGGCACTCTTGAAAAAGTCATGCCGTTT
CATATGATCCGGGTATCTTGCAAAGCATTGAACACCATAGCCCAGAGTAGTGACTAGCGTTGGC
CATGGAACAGGCAGTTTGCCAGTAGTGCAGATGAGCTTCAGGGTAAGTTTTCCGTATGTTGCAT
CACCTTCACCTCTCCACTGACAGAGAACTTGTGGCCGTTAACATCACCATCTAATTCAACAAG
AATTGGGACAACCTCCAGTGAAGAGTTCTTCTCCTTTGCTGGTACCCAATTCGACCTTCTCTTC
TTTTTTGGAGGCTCGGGAATTAATTCGCTTTATCCATGTCGACTATGGTTATTGGTACTGTGT
TCTTATTACAGTTTTGTGATTTGCTAAGTGAGGTTTGATTATGAATAAAATTCTGACACAATTG
CTCTGGGTGCGCATGGCATCTCCACCTCCTCGCGGTCCGACCTGGGCATCCGAAGGAGGACGCA
CGTCCACTCGGATGGCTAAGGGAGAGCCAGAGCTC

Supplementary Figure S3. The nucleotide sequence of the YFP replicon. Open reading frames for YFP gene is marked by yellow. Restriction enzyme recognition sites (SnaBI, AgeI, SalI, and SacI) are underlined. Hammerhead ribozyme and hepatitis delta virus ribozyme sequences are shaded.