

SUPPLEMENTARY INFORMATION: ADDITIONAL FILE 4

CRISPR/Cas9-mediated viral interference in plants

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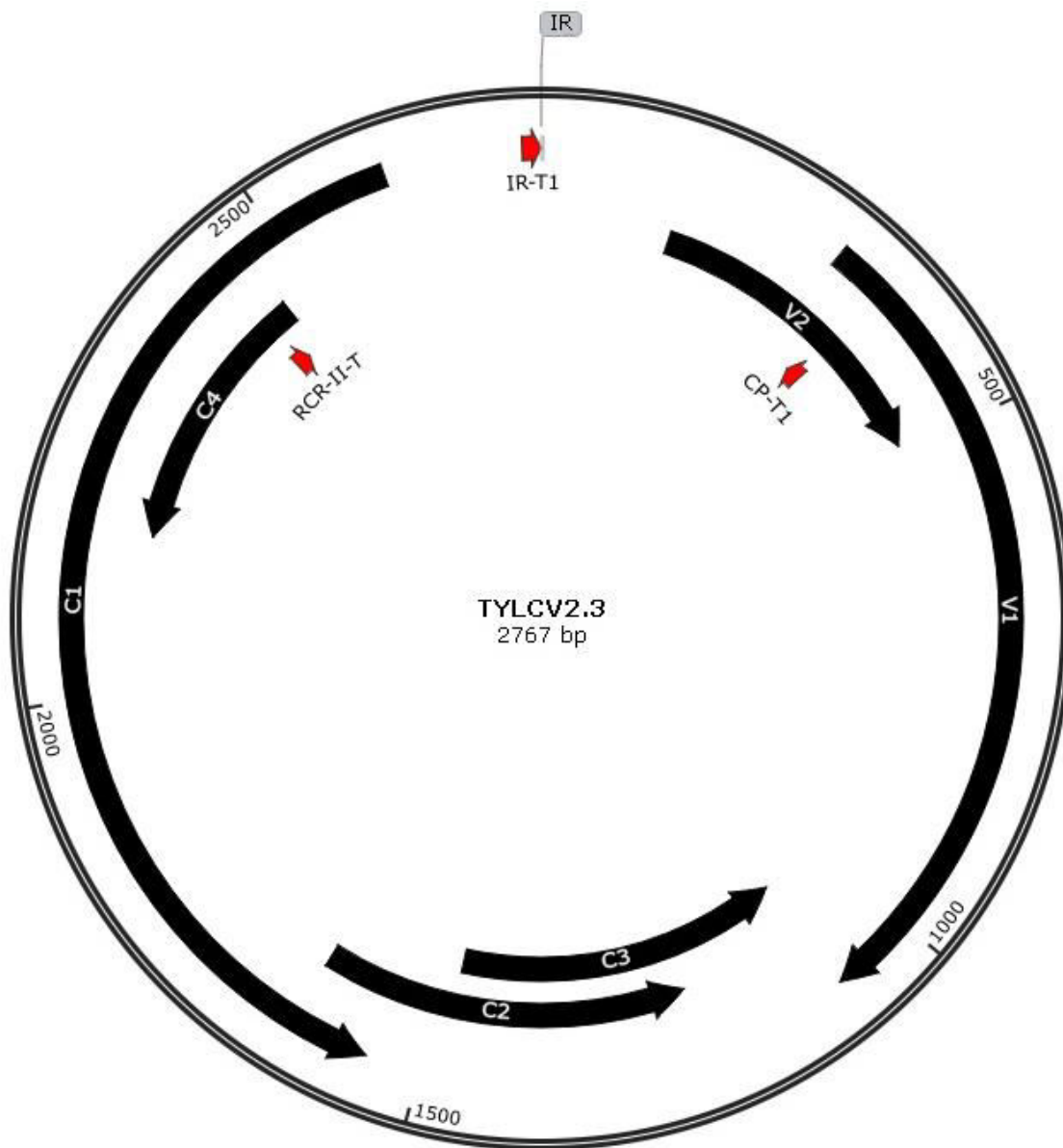
Supplementary sequences and Maps

Supplementary Sequence 1. TYLCV 2.3 genome

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CGGATGGAAATGTGCTGACCTGGTTGGGGATGTGAGGTCGAAGAATCTGTTGTTTTTGC ACT
GGAAC TTTCC TCGAAC**TGGATGAGCACATGCAAGTG**AGGAGTCCCATCTTCATGAAGCTCT
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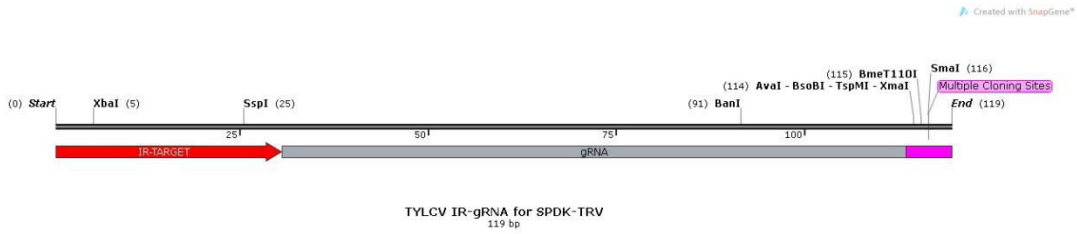
IR, CP and RCR-II target sequences are shown in red with yellow highlight.



IR, CP and RCR-II Targets are shown as red arrow heads.

Supplementary Sequence 2. IR-gRNA (TYLCV) sequence and map

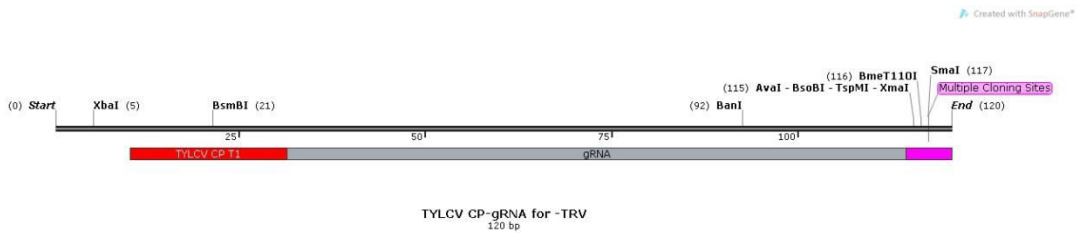
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Target sequence is shown in red.

Supplementary Sequence 3. CP-gRNA (TYLCV) sequence and map

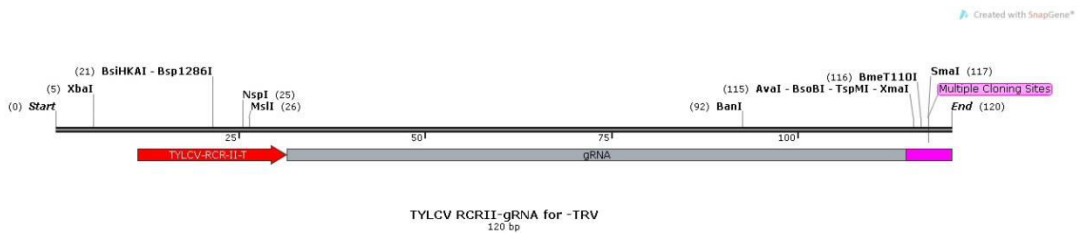
Cgagtctaga**GCTTCGGCGAACCTTCGAGAC**gttttagagctagaatagcaagttaaaataaggctagtcggtatcaac
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Target sequence is shown in red.

Supplementary Sequence 4. RCRII-gRNA (TYLCV) sequence and map

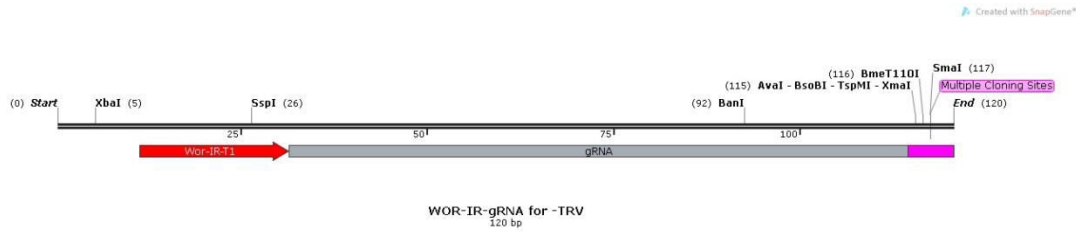
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Target sequence is shown in red.

Supplementary Sequence 5. IR-gRNA (BCTV Worland) sequence and map

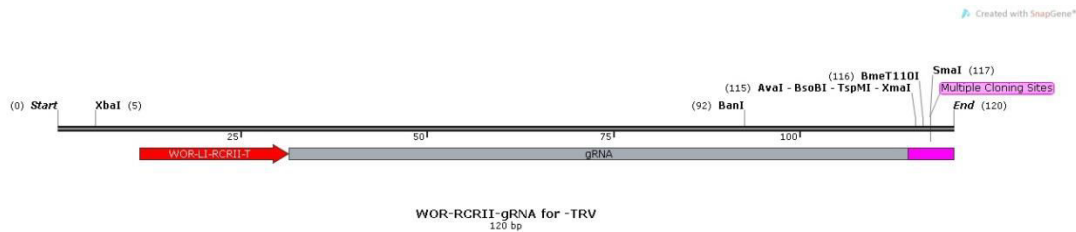
cgagtctaga**GGCCATCCGCAATAATATTAC**GTTTTAGAGCTAGAAATAGCAAGTTAAAATAAGG
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Target sequence is shown in red.

Supplementary Sequence 6. RCRII-gRNA (BCTV Worland) sequence and map

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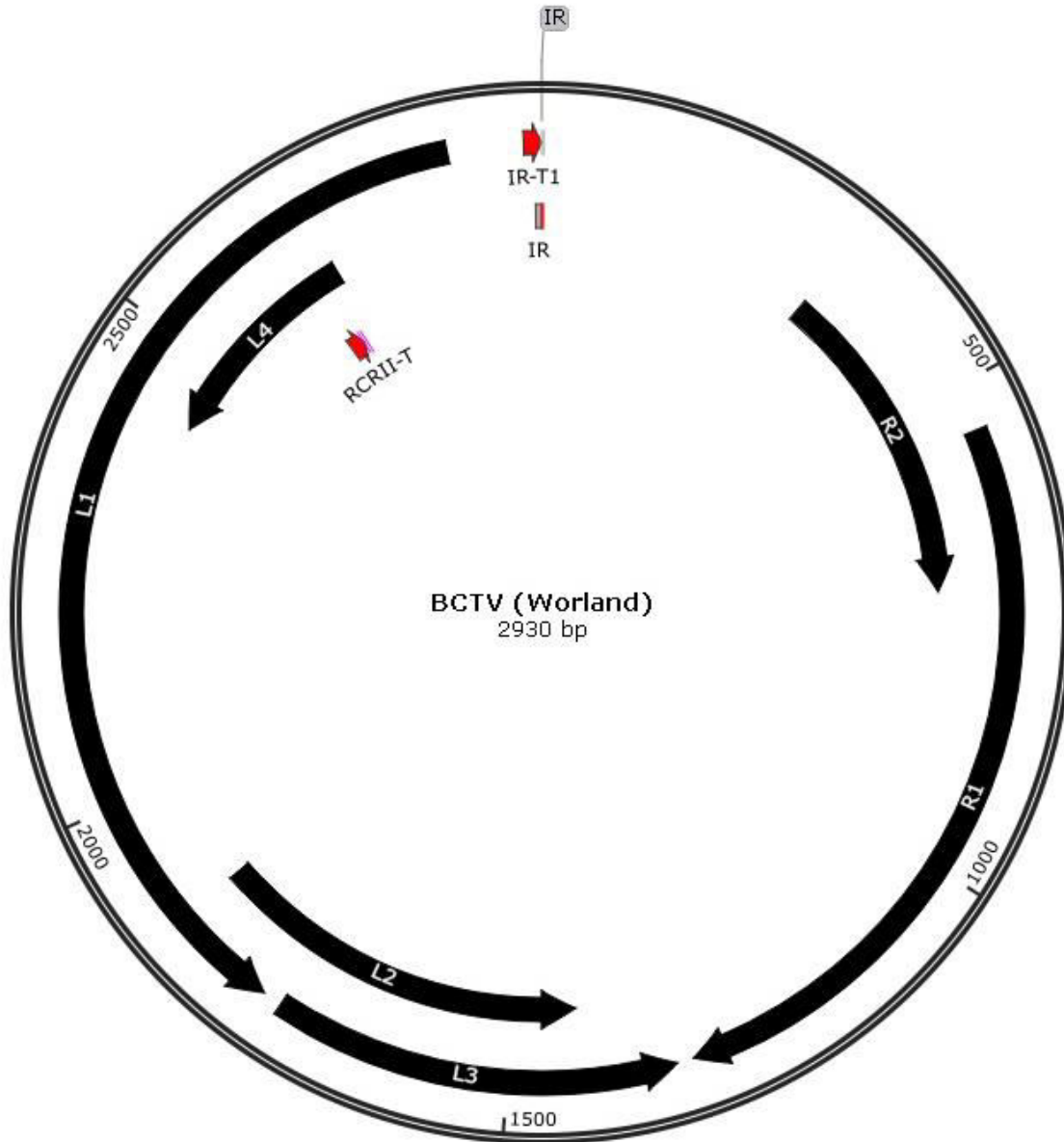
Target sequence is shown in red.

Supplementary Sequence 7. BCTV (Worland) genomic sequence and map.

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CAGGG

IR and RCR-II target sequences are shown in red with yellow highlight.

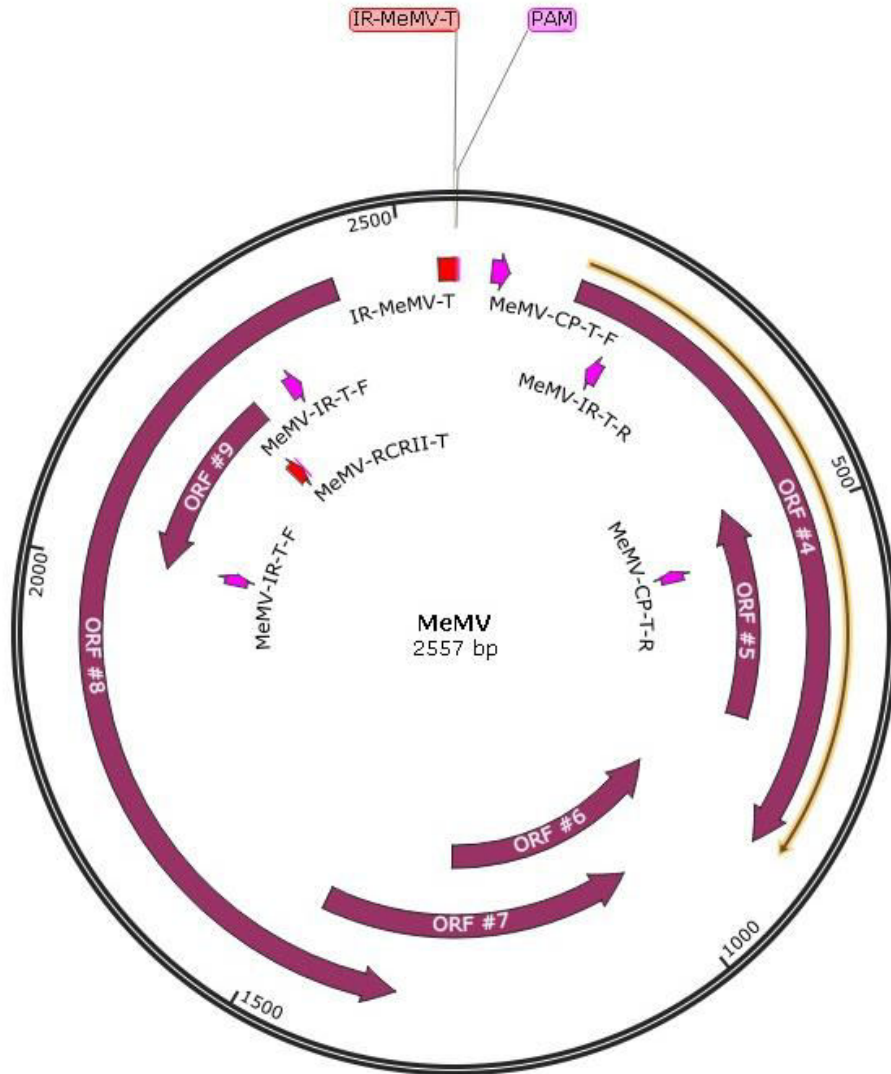


IR and RCR-II Targets are shown as red arrow heads.

Supplementary Sequence 8. MeMV sequence and map

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CGTGGCATTTTTGTAAATAAGGGATGTTCCCCCAATTGCTCCGCTCTCAAACTCTATATGAAT
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IR Targets is shown in red.

Supplementary Sequence 9. Non-specific sgRNA sequence.

cgagtctaga**GTGGATTCTCTCTGCAAGCCA**GTTTTAGAGCTAGAAATAGCAAGTTAAAATAAG
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