Supplemental Data

Supplemental Data 1. Related sequences of CTV-N4VSR expression vector

Sequence of pH7LIC3.0 (35S-EV)

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Sequence of pH7LIC3.1.1-N4CP (35S-N4CP)

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Sequence of pMS4 (35S-GFP)

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Supplemental Data 2. Related sequences of CTV-N4p23 mutants with point mutation

Sequence of pH7LIC3.1.1(35S-CCDB)

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Sequence of pH7LIC3.1.1-p23M2 (35S- p23M2)

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Sequence of pH7LIC3.1.1-p23M3 (35S- p23M3)

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Sequence of pH7LIC3.1.1-p23M5 (35S- p23M5)

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Sequence of pH7LIC3.1.1-p23M6 (35S- p23M6)

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Sequence of pH7LIC3.1.1-p23M10 (35S- p23M10)

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Sequence of pH7LIC3.1.1-p23M14 (35S- p23M14)

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Sequence of pH7LIC3.1.1-p23M18 (35S- p23M18)

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Supplemental Data 3. Related sequences of N4p23 subcellular localization expression vector

Sequence of pH7LIC5.1.1 (35S-GFP-CCDB)

GGGTACCCTCGAATTATCATACATGAGAATTAAGGGAGTCACGTTATGACCCCGCCGATGACGCGGGACA
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Sequence of pH7LIC5.1.1-C2b (35S-GFP-C2b)

GGGTACCCTCGAATTATCATACATGAGAATTAAGGGAGTCACGTTATGACCCCGCCGATGACGCGGGACA
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Sequence of pH7LIC5.1.1-N4T36 (35S-GFP-N4T36)

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Sequence of pH7LIC6.0 (35S-GFP-EV)

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Supplemental Data 4. Amino acid sequence alignment, classification, and phylogenetic tree analysis

Supplemental Data 4-1 : p23 amino acid sequences

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Supplemental Data 4-2 : classification of p23 amino acid sequences

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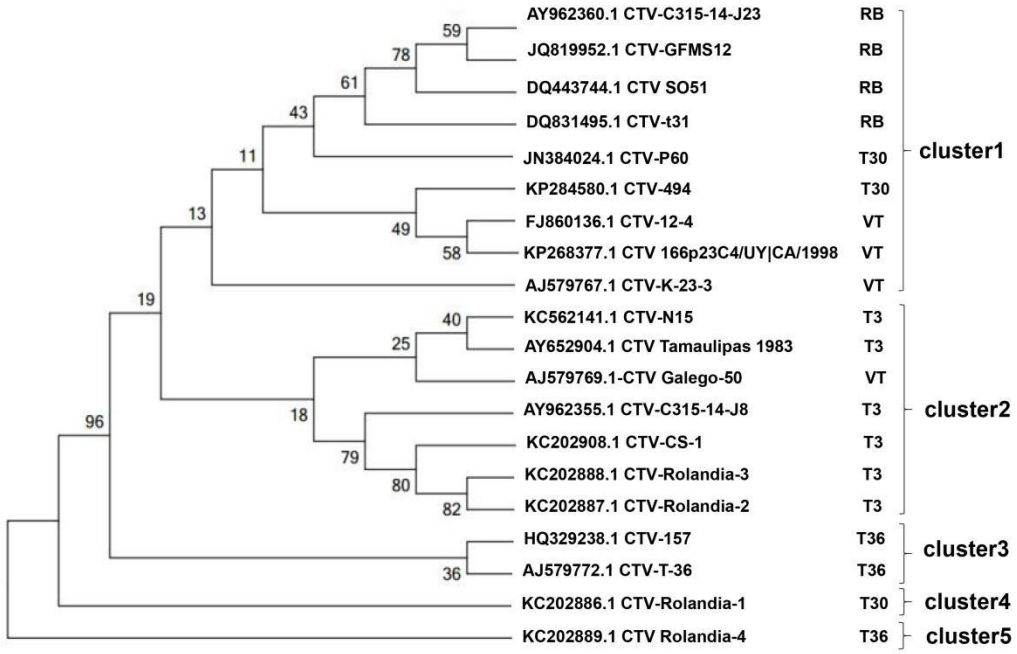
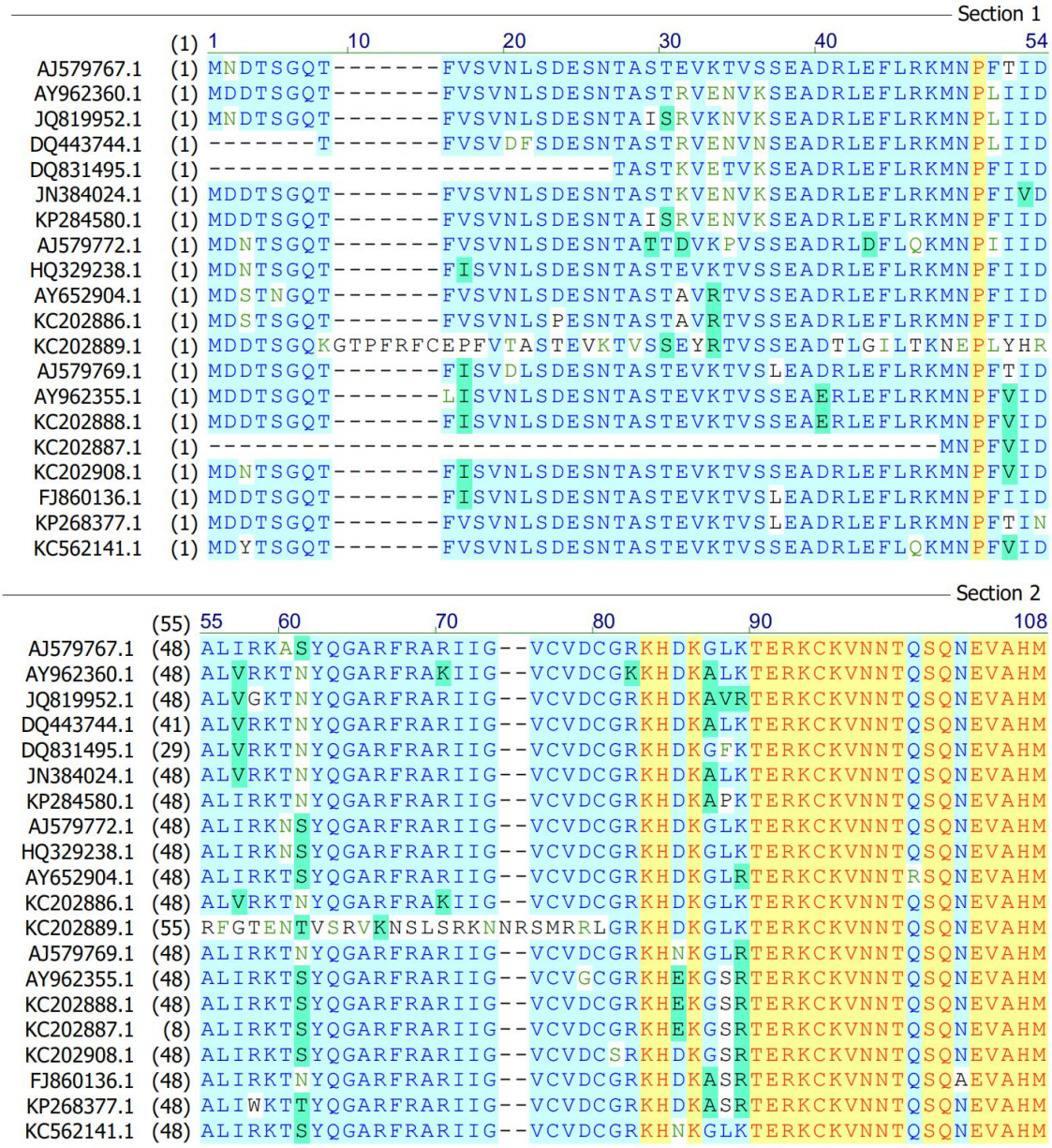
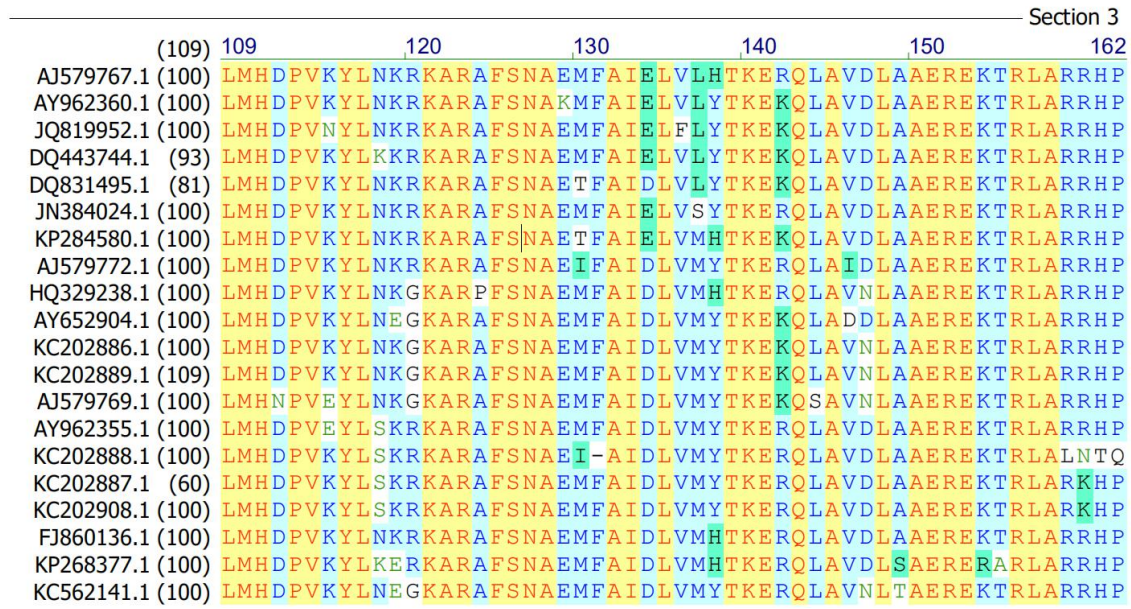
Supplemental Data 4-3 : The phylogenetic tree of p23 sequences



Supplemental Data 4-4 : p23 amino acid sequence alignment

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