Supplementary Table 1. Primers used for various purposes in this study

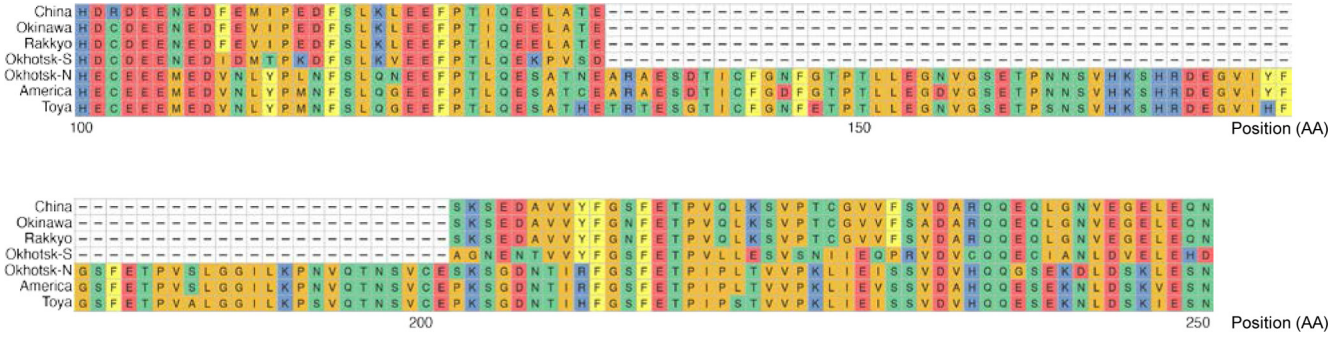
Primer name	Primer sequence (5' → 3')	PCR purpose
LY5P	F: AATCTCAACACAACTTATRC	Amplification of P1 partial sequence
LY2M	R: AGTACGTTGCCTGCTCTGTAG	
LYSV-5-275	F: TTCTCTCTTAAAMTTGAGGAATTCCC	P1 nested-PCR
LYSV-3-275	R: TGACCAAAGACGGATCTGGT	
LY-HC3-1200	R: TTTTCCAAATRATTTKMCCWGCAGTA	With LY5P, amplification of entire P1 gene
LY-TokN-P1-5-Sm	F: CTCCCGGGATGGCTAGAGTATTCAAATCTG	Cloning in pBE2113
LY-TokN-P1-3-Flag-Sc	R: CGCGAGCTCTCACYYGTCATCGTCGTCCTTG-TAGTCATAATGTTCGAGTTCCGATAAC	
LY-TokoS-P1-5-Sm	F: CTCCCGGGATGACAACAACATCGATGAC	Cloning in pBE2113
LY-TokoS-P1-3-Sc	R: CGCGAGCTCTCACTTGTCATCGTGGTCCTTG-TAGTCATAGTGTTCGAGTTTTGATTCATC	
LYSV-5-130	F: ACTCCATCATACGTTTTTGGAG	Amplification of P1 partial sequence
LYSV-3-130	R: CACCATTGCAAGTAGTGCATTC	
LYSV-3-nest-200	R: GAATTCCTCAAKTTTAAGAGAG	P1 nested-PCR

PCR, polymerase chain reaction.

Supplementary Table 2. Total read counts mapped on the genomes of garlic viruses in asatusi and onion

Garlic viruses	Read counts[a]	
	Onion (SK)	Asatsuki
Allexiviruses	5	7
OYDV	2	0
LYSV	0	0
GLV	0	0
GCLV	0	0
SYSV	1	0

OYDV, onion yellow dwarf virus; LYSV, leek yellow stripe virus; GLV, garlic latent virus; GCLV, garlic common latent virus; SYSV, shallot yellow strip virus.
[a]Total read counts, Onion: 19,492,475; Asatsuki: 23,636,713.



Supplementary Fig. 1. Amino acid sequence alignment of the P1 region of the newly sequenced leek yellow stripe virus (LYSV) isolates. The amino acid sequences from position 100 to 250 were shown.