

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Baculoviral homologs founded in different organism by querying predicted baculoviral protein structures in AFDB50 *via* Foldseek

File Name: Supplementary Data 2

Description: Baculoviral homologs founded in *A. ventricosus* by querying predicted protein structures of selected scaffolds in predicted baculoviral protein structures *via* Foldseek

File Name: Supplementary Data 3

Description: Information of Arachnida WGS data used in this study

File Name: Supplementary Data 4

Description: Baculoviral homologs found in genomes of Arachnida by querying baculoviral homologs in *A. ventricosus* in Arachnida WGS database *via* mmseqs2

File Name: Supplementary Data 5

Description: Information of Araneae scaffolds containing baculoviral homologs

File Name: Supplementary Data 6

Description: Baculoviral homologs found in *T. clavata* by querying baculoviral homologs in *A. ventricosus* in SpiderDB *via* mmseqs2

File Name: Supplementary Data 7

Description: Information of the Araneae TSA data used in this study

File Name: Supplementary Data 8

Description: Baculoviral homologs found in transcripts of Araneae by querying baculoviral homologs in *A. ventricosus* in Araneae TSA database *via* mmseqs2

File Name: Supplementary Data 9

Description: Accession number and classification of typical NALDV and spider nrEVEs

File Name: Supplementary Data 10

Description: All against all comparison of predicted protein structures of typical NALDV and spider nrEVEs *via* Foldseek

File Name: Supplementary Data 11

Description: Conserved proteins shared in spider nrEVEs and NALDV

File Name: Supplementary Data 12

Description: Primers used in this study