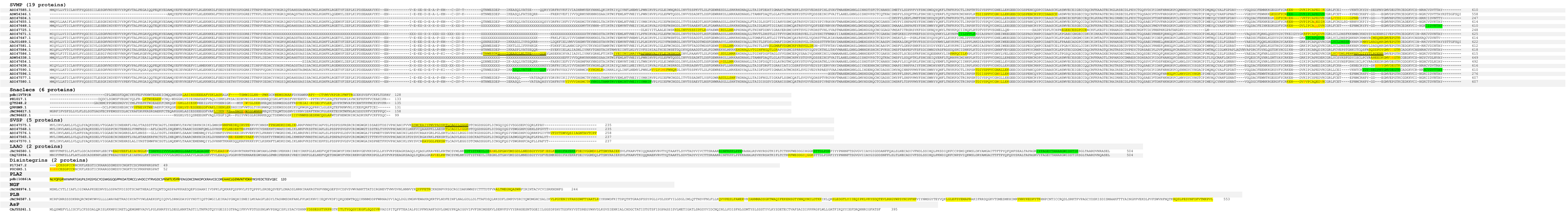
Supplementary Figure 1: Toxins sequences are aligned in their respective toxin family using Clustal omega (https://www.ebi.ac.uk/Tools/msa/clustalo/) for ECVTN. Tryptic peptides detected by MS/MS spectra are highlighted on the protein sequence. Yellow highlighted peptides are unique to the isoform. Green highlighted peptides share sequences with other isoforms. Differences in the sequences of detected peptides are highlighted by red. Single and double lines under the sequences are used to differentiate between adjacent peptides.

Supplementary Figure 2: Toxins sequences are aligned in their respective toxin family using Clustal omega (https://www.ebi.ac.uk/Tools/msa/clustalo/) for ECVGO. Tryptic peptides detected by MS/MS spectra are highlighted on the protein sequence. Yellow highlighted peptides are unique to the isoform. Green highlighted peptides share sequences with other isoforms. Differences in the sequences of detected peptides are highlighted by red. Single and double lines under the sequences are used to differentiate between adjacent peptides.



Supplementary Figure 3: Toxins sequences are aligned in their respective toxin family using Clustal omega (https://www.ebi.ac.uk/Tools/msa/clustalo/) for ECVRAJ. Tryptic peptides detected by MS/MS spectra are highlighted on the protein sequence. Yellow highlighted peptides are unique to the isoform. Green highlighted peptides share sequences with other isoforms. Differences in the sequences of detected peptides are highlighted by red. Single and double lines under the sequences are used to differentiate between adjacent peptides.