

Supplemental Table 2. Pro-region in cyclotide precursors from Violaceae.

<i>Cyclotide</i>	<i>Pro-region including N-Terminal repeat (NTR)</i>
<i>precursor</i>	
Voc1	NFE-KDFITHETVQAILK-KVGPSNGMLDEQTISAL--TGKTIISNPVLEEALLTHSNSINALG
Voc2	SFE-KDFITHETVQAILK-KVGPSNGMLDEQAISAL--TGKTIISNPVLEEALLTHSNSINALG
Voc3	-FE-KDFITPETIQAILK-KSAPLSNIMLEEDVINALL-KSKTVISNPIIEEAFLK--NS-NGLN
Vok1-1	-TE-QDVITL---QAYEELLKNGAANGMT-----KTVISSLVLEEALV--SYSKNKLG
Vok1-2	-----NPLLEEAL-TAFAKK-GLG
Vok1-3	-----HLLEEAL-VAFAKKGNLG
Tricyclon A	SLETKDVITRA---AYEKLVES-----GAIQGITM--TKTIISNPILEEALVAHFNRK--LG
Tricyclon B	SLE KDVITRAA--AYENLVNS-----GAIQGITM--TKTIISNPILEEALVSHFNRK--LG
Hyfl D	TLEKDVITPKAIELILKKNTPLSNIMLEEDALVNAFV-KSKTMISNTVFD-EALL-KHSNH-GLG
Hyfl E	SFEKDVTITPRG-----LEEDTMSAL-V-KTKTLISDTVFD-ILL-KN-YH-TNG
Hyfl I	TLEKDVITPETIQAVLKKTGSPLSNIMLEEDVINA-MV-KSKTVISKTVLDEALL-KH---DGLG
Hyfl J	SFEKDIITPKAIQHLK-----ADGDALNAILKTKTLISDTVY-EALVLKNS---VN
Hyfl K	TLEKDVITPKAIELILKKNTPLSNITLQDDALVNALV-KSKTMISNTVFEALL-KHSNH-GLG
Hyfl L	TLEKDVITPKAIELILKKNTNSPLSNIMLQEDALLNSLV-KTKTMISNTVFEALL-KHSHH-GLG
Hyfl M	SFEKDVTITPRGIELMLKKTNFPLSNIMLEEDTMSA-LV-KTKTLISDTVFD-ALL-KNS-H-TNG

Footnote to Supplemental Table 2.

The *Voc1-3* precursors are processed to produce the cyclotides cycloviolacin O8, O11, and O2, respectively. The *Vok1* precursor gene contains three NTR-regions, each followed by a cyclotide, namely kalata B1, kalata S, and kalata B1, respectively. In the Tricyclon precursor gene, which encodes Tricyclon A and B, the N-terminal repeat comprises the entire pro-region.