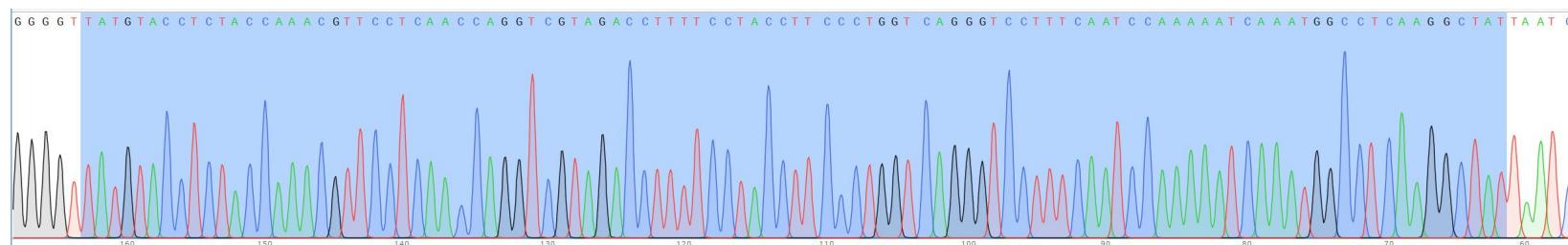Supplementary Fig. 1

A Sequence for <u>6xHis(N)</u> SUMO(N)-*Abaecin (C)*

<u>CACCACCACCACCACCAC</u>TCTGACCAGGAGGCAAAACCTTCAACTGAGGACTTGGGGGGATAAGAAGGAAGGTGAATATATTAAACTCAAAGTCATT
GGACAGGATAGCAGTGAGATTCACTTCAAAGTGAAAATGACAACACATCTCAAGAAACTCAAAGAATCATACTGTCAAAGACAGGGTGTTCCAATG
AATTCACTCAGGTTTCTCTTTGAGGGTCAGAGAATTGCTGATAATCATACTCCAAAAGAACTGGGAATGGAGGAAGAAGATGTGATTGAAGTTTATCA
GGAACAAACGGGGGGGT*TATGTACCtcTACCAAAcGTtCCtCAACCAGGtCGTaGaCCtTTTCCtACcTTcCCTGGTCAGGGtCCtTTCAATCCaAAAAT
cAAATGGCCTCAAGGCTAT*

B Sequence for <u>6xHis(C)</u> SUMO(C)-*Abaecin (N)*

<u>CACCatCatCACCatCAC</u>TCTGatCAaGAaGCtAAACCTTCtACTGAaGatcttGGtGATAAaAAaGAAGGTGAATAcATTAAACTaAAAGTaATTGGtCAa
GATAGCAGTGAaATTCACTTCAAAGTaAAAATGAccACACATttgAAGAAAttaAAAGAAagtTACTGTCAAcgtCAaGGTGTTCCtATGAAcTCtttacgc
TTcttgTTTGAGGGTCAacgtATcGCTGATAATCAcACTCCAAAgGAACTtGGAATGGAGGAAGAAGAcGTaATTGAAGTTTATCAGGagCAAActGGc
GGT*TATGTACCATTACCAAATGTACCACAACCAGGACGTCGTCCGTTTCCAACGTTTCCTGGTCAGGGACCATTCAATCCGAAAATTAAAT
GGCCTCAAGGCTAT*

C Sequence for <u>6xHis(C)</u> SUMO(C)-*Abaecin (C)*

<u>CACCatCatCACCatCAC</u>TCTGatCAaGAaGCtAAACCTTCtACTGAaGatcttGGtGATAAaAAaGAAGGTGAATAcATTAAACTaAAAGTaATTGGtCAa
GATAGCAGTGAaATTCACTTCAAAGTaAAAATGAccACACATttgAAGAAAttaAAAGAAagtTACTGTCAAcgtCAaGGTGTTCCtATGAAcTCtttacgc
TTcttgTTTGAGGGTCAacgtATcGCTGATAATCAcACTCCAAAgGAACTtGGAATGGAGGAAGAAGAcGTaATTGAAGTTTATCAGGagCAAActGGc
GGT*TATGTACCtcTACCAAAcGTtCCtCAACCAGGtCGTaGaCCtTTTCCtACcTTcCCTGGTCAGGGtCCtTTCAATCCaAAAATcAAATGGCCTC
AAGGCTAT*

Fig. S1 Sequences of three different codon-optimized 6xHisSUMO-abaecin. 6xHis sequences were underlined, SUMO sequences are represented with standard font and the sequences of abaecin are italicized. N, native sequence; C, codon-optimized sequence. Sequence result for abaecin of 6xHis(N)SUMO(N)-Abaecin (C) construct, which was used for this study, is represented.