

Supplementary material

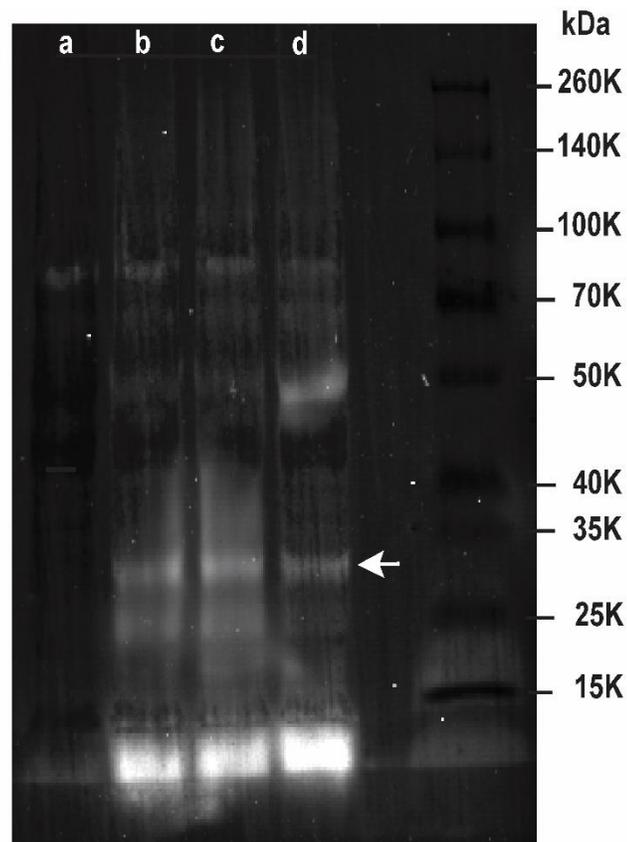
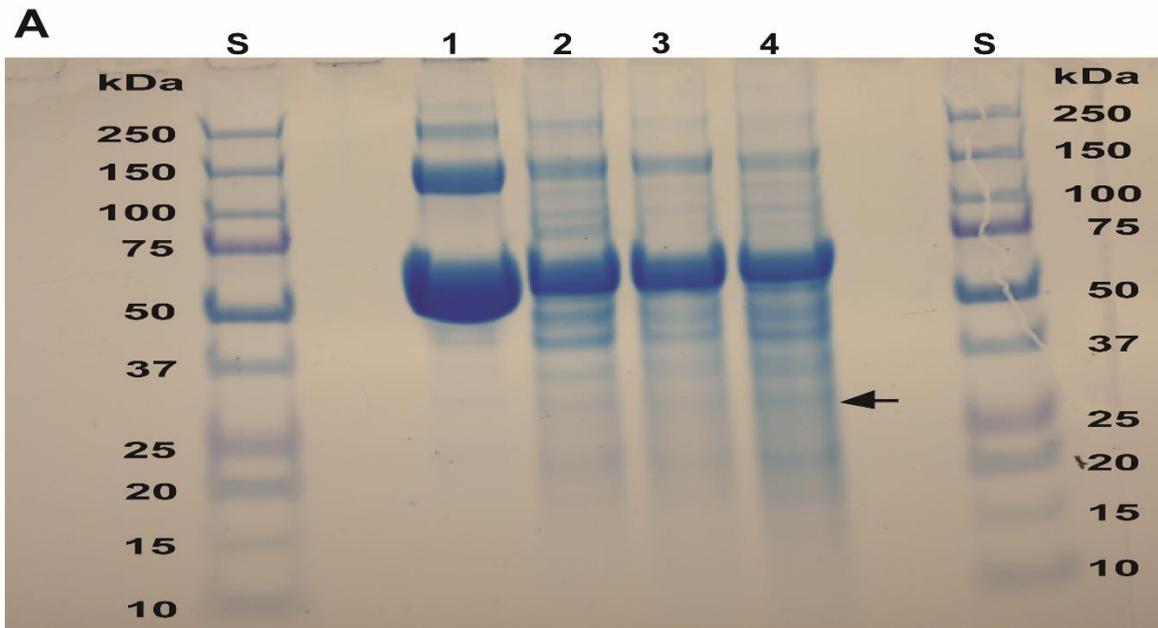


Figure S1. Western blot analysis of *Ae. aegypti* late larval trypsin synthesized in TnT T7 insect cell lysate in the presence of Fluorotech Green tRNA_{lys} and plasmid pFA25A ICE T7 flexi cloned with late larval trypsin lanes (b, c and d). Lane (a) is a control incubation without Fluorotech Green tRNA_{lys}. A wide molecular standards (15kDA to 260 kDa) was run on the right. The PVDF membrane was scanned for fluorescence using Biomolecular Imager at 468 nm. White arrow indicates late larval trypsin location at 28.5 kDa. Heavy Fluorescence bands below 15kDa represent Fluorotech Green tRNA_{lys}.



B

10	20	30	40	50	60
MFTSTVVFAS	LMALASAFPS	LDNGRVVNGQ	TATLGQFPFQ	VLLKVELSQG	RALCGGSLLS
70	80	90	100	110	120
DQWVLTAGHC	ADGAKSFEVT	LGAVDFEDTT	NDGRVVLTTAT	EYHRHEKYNP	LFATNDVAVV
130	140	150	160	170	180
KLPTPVEFND	RVQPVKLPTG	SDTFTDREVV	VSGWGLQKNG	GDVADKLQYA	PLTVISNNEC
190	200	210	220	230	240
SKAYSPLVIK	KTTLCAKGEN	KESPCQGDSG	GPLVLEGENV	QVGVSFGHA	VGCEQGYPGA

Figure S2. A. SDS-PAGE of TnT 7T insect cell lysates that were incubated with BSA (lane 1), with cell lysate (lane 2), with empty plasmid pFA25A ICE T7 flexi (lane 3), and plasmid pFA25A ICE-T7 flexi-larval late trypsin (lane 4). Arrow indicates the protein band of *Ae. aegypti* larval late trypsin at 28.5 kDa. **B.** Mass spectrometry analysis of the excised protein band marked with a black arrow (lane 4 above). Seven unique peptide chains (1-25; 26-44; 52-75; 76-94; 122-131; 137-147; 159-166) highlighted in yellow were sequenced by MS/MS and the protein identified as late larval trypsin (accession number AAO43403.1).