

13. Supplementary data

Table S1. Peptide Fragments of AiP1 and their top NCBI BLAST hitsⁱ scanned against NCBI nr database

Analysed Fragments	Accession no. of matched protein and source organism
RIMLFMGGPPTQGPGMVVGEELKT (referred to as peptide1)	XP_780042.1 from <i>Strongylocentrotus purpuratus</i>
KAVTISIDRN	XP_003724743.2 from <i>Strongylocentrotus purpuratus</i>
RDPIQVPEVTGNFASSTSDDLRG	XP_780590.1 from <i>Strongylocentrotus purpuratus</i>
KRDVRVGKR	XP_001189839.1 from <i>Strongylocentrotus purpuratus</i>
KKSNSATPARW	XP_011669910.1 from <i>Strongylocentrotus purpuratus</i>
	XP_011669897.1 from <i>Strongylocentrotus purpuratus</i>
KVVVTSGIAQKF	XP_011682725.1 from <i>Strongylocentrotus purpuratus</i>
	XP_001178826.1 from <i>Strongylocentrotus purpuratus</i>
RLQQAYLRMEQGEAPTPEAARE	XP_011683542.1 from <i>Strongylocentrotus purpuratus</i>
KNRFQILAELETDNQPNMDADTDNV NTNWEQVKT	No significant match obtained
RALAWKRQRI	XP_788209.4 from <i>Strongylocentrotus purpuratus</i>
	WP_073916543.1 from <i>Strongylocentrotus purpuratus</i>
RQIKNVRN	XP_003728172.2 from <i>Strongylocentrotus purpuratus</i>
	XP_018832541.1 from <i>Juglans regia</i>
RTQLEIAQEPNSKT	XP_011663628.1 from <i>Strongylocentrotus purpuratus</i>
RAAQTFSMDDKY	XP_003723710.1 from <i>Strongylocentrotus purpuratus</i>
	XP_798150.3 from <i>Strongylocentrotus purpuratus</i>

ⁱ Hits means peptides with query coverage = 100% and identity = 100% to the available databases