Putative protein from which the peptide GYI is derived. The sequence of isotig 09011 is shown (lowercase, 1738 bases) with the partial sequence of the protein that it encodes shown underneath in bold uppercase (579 amino acid residues). The GYI sequence is shown in red. Submission of this protein sequence as a query in a BLAST search of the GenBank protein database indicates that it is a A. stichopus homolog of human UFM1-specific ligase 1 (see text in results section).