

Table S2**A**

Protein profile	HMMer E-value	HMMer Match	SECIS element (SECISearch)	STOP codon
Sec-tRNA synthase	7.2E-192	g14143	No	UAG
L-seryl tRNA-sec kinase	1.2E-38	g461	No	UGA
SECIS Binding Protein 2	4.7E-51	g1268	No	UAA
Sec-specific translation elongation factor	2.2E-167	g4522	No	UAG
tRNA-Sec associated protein	2.4E-115	g979	No	UGA

B

Protein profile	HMMer E-value	HMMer Match	SECIS element (SECISearch)	STOP codon
L-seryl tRNA-sec kinase	5.7E-06	R277	No	UAA
Sec-specific translation elongation factor	1.7E-23	R624	No	UAA