

Additional File 10. *Monosiga brevicollis* TE codon usage data

Table 1. Preferred codons for each amino acid in the *M. brevicollis* TE families.

Amino Acid	<i>Mbcv1</i>	<i>Mbpv1</i>	<i>Mbpv2</i>
Phe	UUU	UUU	UUU
Leu	CUC	CUG	CUC
Ile	AUC	AUC	AUC
Val	GUG	GUG	GUC
Ser	UCG	ACG	UCU
Pro	CCU	CCG	CCC
Thr	ACC	ACC	ACC
Ala	GCC	GCC	GCC
Tyr	UAC	UAC	UAC/UAU
His	CAC	CAU	CAC
Gln	CAG	CAG	CAG
Asn	AAC	AAC	AAC
Lys	AAG	AAG	AAG
Asp	GAC	GAU/GAC	GAC
Glu	GAG	GAG	GAG
Cys	UGC	UGC	UGC
Arg	CGC	CGC	CGC
Gly	GGC	GGC	GGC
tRNA	12/18	9/18	13/18
tRNA & Optimal Codons	15/18	13/18	15/18

Note: The colour code is the same as Additional File 8.

Table 2. Frequency of optimal codons (F_{op}) in non-domain and domain regions of *M. brevicollis* TE ORFs.

Family	Non-domain F_{op}	Domain F_{op}	Significance (Fisher's Exact Test)
<i>Mbcv</i>	0.572	0.608	NS
<i>Mbpv1</i>	0.531	0.603	<i>P</i><0.01
<i>Mbpv2</i>	0.565	0.618	NS



