

Table S7 Number of occurrences and matching of tRNA-like structures in Tenebrionidae mitochondrial genomes.

| tRNA-like | Times | Matching Range (%) | Presence In Species |
|--------------------|-------|--------------------|--|
| <i>trnC</i> -like | 1 | 58.06 | <i>Tribolium audax</i> |
| <i>trnD</i> -like | 1 | 65.63 | <i>Adelium</i> sp |
| <i>trnE</i> -like | 4 | 61.90~69.12 | <i>Amarygmini</i> sp, <i>Blaps rhynchoptera</i> , <i>Myladina unguiculina</i> , <i>Tribolium audax</i> |
| <i>trnF</i> -like | 1 | 62.12 | <i>Alphitobius diaperinus</i> |
| <i>trnI</i> -like | 2 | 57.81 | <i>Melanesthes exilidentata</i> , <i>Philolithus aegrotus</i> |
| <i>trnK</i> -like | 2 | 50.70~64.79 | <i>Anatolica potanini</i> , <i>Machla setosa</i> |
| <i>trnL1</i> -like | 1 | 55.88 | <i>Tribolium confusum</i> |
| <i>trnL2</i> -like | 9 | 49.25~57.58 | <i>Anatolica potanini</i> , <i>Alphitobius diaperinus</i> , <i>Amarygmini</i> sp, <i>Morphostenophanes sinicus</i> , <i>Pelecyphorus foveolatus</i> , <i>Pelecyphorus contortus</i> <i>Promethis valgipes</i> , <i>Tenebrio obscurus</i> , <i>Ulomoides dermestoides</i> |
| <i>trnM</i> -like | 1 | 47.14 | <i>Promethis valgipes</i> |
| <i>trnN</i> -like | 2 | 53.85~59.10 | <i>Adelium</i> sp, <i>Stenomorpha obovata</i> |
| <i>trnP</i> -like | 1 | 60.61 | <i>Alphitobius diaperinus</i> |
| <i>trnR</i> -like | 2 | 56.10~60.61 | <i>Pelecyphorus contortus</i> , <i>Stenomorpha obovata</i> |
| <i>trnS1</i> -like | 2 | 65.00~68.33 | <i>Tribolium castaneum</i> , <i>Ulomoides dermestoides</i> |
| <i>trnS2</i> -like | 2 | 58.82~67.75 | <i>Machla setosa</i> , <i>Nalassus laevioctriatus</i> |
| <i>trnT</i> -like | 1 | 63.08 | <i>Tribolium confusum</i> |
| <i>trnV</i> -like | 5 | 55.71~62.86 | <i>Gonocephalum</i> sp, <i>Machla setosa</i> , <i>Myladina unguiculina</i> , <i>Stenomorpha consobrina</i> , <i>Tenebrio obscurus</i> |
| <i>trnW</i> -like | 7 | 54.55~59.10 | <i>Anatolica potanini</i> , <i>Gonocephalum</i> sp, <i>Nalassus laevioctriatus</i> , <i>Pelecyphorus contortus</i> , <i>Pelecyphorus foveolatus</i> , <i>Stenomorpha obovate</i> , <i>Tribolium confusum</i> , <i>Uloma</i> sp |
| <i>trnY</i> -like | 1 | 54.69 | <i>Ulomoides dermestoides</i> |