**Table S5. Gene and transposable element (TE) similarities between *Trichoplusia ni* and other insect species.** TE similarities between *T. ni* and the other insect species are given in percent nucleotide identity. Numbers in brackets next to percent nucleotide identities are the number of copies or fragments of copies longer than 100 bp found by blastn in each insect genome and the length of the longest copy or fragment of copy in base pairs. TE numbers correspond to those in Fig. 3B. Divergence times were taken from Wiegmann et al. (2011); Wahlberg et al. (2013); Misof et al. (2014).

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | ***Danaus plexippus* (Nymphalidae)** | ***Chilo suppressalis* (Crambidae)** | ***Plodia interpunctella* (Pyralidae)** | ***Bactrocera dorsalis* (Diptera)** | ***Bombyx mori* (Bombycidae)** | ***Manduca sexta* (Sphingidae)** | ***Limnephilus lunatus* (Trichoptera)** |
| **Gene similarity between *T. ni*and other species (1 - gene synonymous distance) x 100** | | **Actin** | 62 | 56 | 69 | 39 | 61 | 81 | 63 |
| **AMP** | 46 | 55 | 47 | 22 | 55 | 52 | 20 |
| **ecdy** | 20 | 34 | 32 | 13 | 31 | 29 | 13 |
| **elong** | 68 | 57 | 63 | 41 | 53 | 65 | 45 |
| **enol** | 32 | 33 | 31 | 31 | 29 | 40 | 22 |
| **Gprot** | 37 | 49 | 58 | 26 | 29 | 46 | NA |
| **HSP** | 41 | 42 | 46 | 24 | 31 | 26 | 40 |
| **nucl** | 20 | 30 | 59 | 14 | 12 | 28 | 34 |
| **trans** | 31 | 44 | 37 | 10 | 41 | 31 | 26 |
| **USP** | 28 | 27 | 38 | NA | 35 | 40 | 26 |
| **WING** | 20 | 37 | 44 | 8 | 35 | 32 | 15 |
| **Average gene similarity (%)** | | | 37.7 | 41.3 | 48.1 | 24.8 | 35.8 | 42.9 | 33.6 |
| **Div. Time (Myrs)** | | | 117 | 110 | 110 | 290 | 88 | 94 | 230 |
| **contig name** | **TE type** | **TE length (bp)** |  | | | | | | |
| **GBKU01001550** | Gypsy | 3324 | 87 (4; 1587) | - | - | - | - | - | - |
| **Tni\_Contig\_18** | Harbinger | 648 | - | 98 (2; 170) | 98 (6; 648) | - | - | - | - |
| **Tni\_Contig\_13** | Harbinger | 819 | - | 99 (1; 152) | 96 (3; 820) | - | - | - | - |
| **Tni\_Contig\_28** | Piggybac | 2472 | - | - | - | 98 (2; 1583) | - | - | - |
| **Tni\_Contig\_1** | undetermined | 250 | - | - | 96 (2; 243) | - | - | - | - |
| **Tni\_Contig\_8** | Mar1BM | 1449 | - | - | - | - | 97 (>100; 1400) | 99 (>100; 1400) | - |
| **Tni\_Contig\_17** | Mariner | 5234 | - | - | - | - | - | - | 95 (8; 383) |

# References

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