Supplementary table 7. Number of gene copies of DNMT1, DNMT2 and DNMT3 identified in species with annotated genomes.

|  |  |  |  |
| --- | --- | --- | --- |
|  | DNMT1 | DNMT2 | DNMT3 |
| *S. dumicola* | 1 | 1 | 1 |
| *S. mimosarum* | 3 | 1 | 1 |
| *P. tepidariorum* | 3 | 1 | 1 |
| *L. hesperus* | 4 | 1 | 2 |
| *N. clavipes\** | 5 | 1 | 1 |
| *L. reclusa* | 0 | 0 | 0 |
| *C. sculpturatus* | 3 | 1 | 2 |
| *M. martensii* | 1(525bp)a  Catalytic | 1(992bp)a  Catalytic | 0/2(150/152bp)a  no/no |
| *I. ricinus* | 1(4039bp)a  RFD,CXXC,BAH,BAH,Catalytic | 1(1028bp)a  Catalytic | 0/1(155/342bp)a  no/Catalytic |
| *I. scapularis* | 3 | 1 | 0/1(195/156bp)a  no/no |
| *R. microplus* | 1(1073)a  CXXC | 2 | 4 |
| *V. jacobsoni* | 0 | 1 | 0 |
| *V. destructor* | 0 | 2 | 0 |
| *T. mercedesae* | 0 | 2 | 0 |
| *G. occidentalis* | 0 | 0 | 0 |
| *E. maynei* | 1 | 2 | 0 |
| *S. scabiei* | 2 | 1 | 0 |
| *T. urticae* | 1 | 0 | 1 |
| *D. tinctorium* | 1 | 1 | 1 (3^) |
| *L. deliense* | 2 | 1 | 1 |
| *L. polyphemus* | 1 | 3 | 6 |
| *D. farina* | 1(2385bp)a  RFD,BAH,Catalytic | 1(1090bp)a  Catalytic | 0a |
| *D. pteronyssinus* | 1(3050)a  RFD,BAH,Catalytic | 1(1090bp)a  Catalytic | 0a |

\* three genes could not be categorized

^ three identical copies

a based on blast to the genome sequence