

A

Adephagia

29690 **TGTTGACCTGCATACAG**GTGGCC--CGTATT**TGTTGGCATGGCAACA**ACGGCACAAC**GGGATAGGAGCCC**GAAATG 36 (1340)
 30473 **TGTTGACATGCATACAG**TTTCGCG-GGTTACT**GTATGCATACCAACA**ACGCACAC**GGGATAGGAGCCC**ACGATG 38 (2504)
 31275 **TGTTGACATACATACAC**TCGACG-GGTTACT**GTATGTACATCAACA**ACGCACAC**GGGATAGGAGCCC**ACAATG 39 (2887)
 49677 **TGTTGACGCGCATACAGAA**-----TG**TGTTGACGTGCAGACA**GCCGAGGCGTTACCGTCTGCGCCGAAGCAAGTCAC**GGGATAGGAGCCC**CTGCAGATG 73 (3110)
 50276 **TGTTGACATGCATACAG**CGTGAG-GGGTACT**GTATGCATGTCAACA**CACACC**GGGATAGGAGCCC**ACAGTG 75 (1364)
 50852 **TGTTGACATGCATACAG**CCACAG-GGTTACT**GTATGCATACCAACA**ACGCACTGACCACCTA**CCGATAGGAGCCC**ACAATG 76 (3111)
 56769 **TGTTGACGCACATACAA**CC-----AATGT**GTTCATATCAACA**CACCAC**GGGATAGGAGCCC**CCTGAATG 89 (1520)
 57745 **TGTTGACATGCATACAG**CGCGGGT-GTTACT**GTATGCATGTCAACA**ACTCAACA**GGGATAGGAGCCC**ACAATG 91 (2510)
 58080 **TGTTGACATGCATACAG**CCACGG--GCTATT**GTATGTATATCAACA**GCGCGAGCGGTTGAGATTGACAAC**TCAAGAGTGACAGTGGATAGGAGCCC**ACGATG 92 (3121)

TGTTGACaTGcATACAg-----cTGTA**tGcATnnCAACA** Consensus

Angelica

29640 **TGTTGACCTGCATACAG**GCGGCCCC-GTATT**TGTTGGCATGGCAACA**ACGGCACAAC**GGGATAGGAGCCC**GAAATG 36 (1340)
 30423 **TGTTGACATGCATACAG**TTTCGCGGGTTACT**GTATGCATACCAACA**ACGCACAC**GGGATAGGAGCCC**ACGATG 38 (2504)
 31228 **TGTTGACATACATACAG**CCGACGGGTTACT**GTATGCATAGCAACA**ATGCGAG**GGGATAGGAGCCC**GAAATG 39 (1296)
 49797 **TGTTGACGCGCATACAGAA**-----GG**TGTTGACGTGCAGACA**GTCGAGGCGTTACCGTCTGCGCCGAAGCAAGTCAC**GGGATAGGAGCCC**TTGCAGATG 73 (3110)
 50436 **TGTTGACATGCATACAG**CACGCGGGTTACT**GTATGCATACCAACA**ACGCGCTGACCACCTA**CCGATAGGAGCCC**ACAATG 75 (3111)
 56186 **TGTTGACGCACATACAA**CCGA-----TG**TGTTTGcATATCAACA**CACACCAC**GGGATAGGAGCCC**CAAATG 87 (1520)
 57351 **TGTTGACATGCATACAG**CGCTGGTGT**TACTGTATGCATGTCAACA**ACTCAACA**GGGATAGGAGCCC**CAAAATG 89 (2510)
 57687 **TGTTGACATGCATACAG**TCACGAGGCTATT**TGTATGTACATCAACA**GCGCGAGCGGTTGAGATTGACAAC**TCAAGAGTGACAGTGGATAGGAGCCC**ACGATG 90 (3121)
 58097 **TGTATGTACGCATACAG**TCGTGC---TACT**GTATGTATAGCAACA**ACGCGAAC**GGGATAGGAGCCC**AAAATG 92 (3123)

TGTTGACaTGcATACAg-----cTGTA**tGcATanCAACA** Consensus

CrimD

26957 **TGTTGACCTGCATACAG**GC-GGCCCGTATT**TGTTGGCATGGCAACA**ACGGCACGACGG**GATAGGAGCCCCG**AAATG 36 (1340)
 30442 **TGTTGACATGCATACAG**TTTCGCGGGTTACT**GTATGCATATCAACA**ACGCACACGG**GATAGGAGCCCCAC**GATG 38 (2504)
 31244 **TGTTGACATGCATACAG**CAGTGTGGTTATT**TGTATGTACATCAACA**ACGCCACGG**GATAGGAGCCCCAC**AATG 39 (1296)
 50793 **TGTTGACACGCATACAGAA**-----GG**TGTTGACGTGCAGACA**GCCGGGGCGTTACCGTCTGCGCCGAAGCAAGTCACGG**GATAGGAGCCCCTT**GCAATG 76 (3110)
 51429 **TGTTGACATGCATACAG**CACACGGGTTACT**GTATGCATGTCAACA**ACGCACACGG**GATAGGAGCCCCAC**AATG 78 (3111)
 56934 **TGTTGACGCACATACAA**CC--GATGTGT**TGCATATCAACACACA**CCACGG**GATAGGAGCCCCCT**GAATG 90 (1520)
 57908 **TGTTGACATGCATACAG**CGCCGGTGT**TACTGTATGCATGTCAACA**ACTCAACAGG**GATAGGAGCCCCAC**GATG 92 (2510)
 58243 **TGTTGACATGCATACAG**CG-ACAGGCTATT**TGTATGTATATCAACA**GCGCGAGCGGTTGAGATTGACAAC**TCAAGAGTGACAGTGATAGGAGCCCCAC**AATG 93 (3121)

TGTTGACATGCATACAg-----n**TGTATGcAtrtCAACA** Consensus

B

Adephagia TGTTGACATgCATACAg
 Angelica TGTTGayATGCATACAg
 CrimD TGTTGAYaTGcATACAg
 1 3 5 7 9 11 13 15 17

Figure S4