

# COI Species Report

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**Cell line: MB-03**

**ACC-No.: 097**

**Date of analysis: 13.10.2014**

**DNA processing number:**

**Method:** DNA Barcoding by PCR amplification of 5' coding region of cytochrome c oxidase I (658 bp fragment size). Cycle sequencing of respective PCR products revealed following assignment upon submission to BOLD (Ratnasingham, S., Hebert, P. D. N. (2007) BOLD: The Barcode of Life Data System ([www.Barcodinglife.org](http://www.Barcodinglife.org)). Molecular Ecology Notes, 2007; 7(3): 355-364

**Primer:**

1x LepF1\_t1: ATT TAG GTG ACA CTA TAG ATT CAA CCA ATC ATA AAG ATA TTG G

1x VF1\_t1: ATT TAG GTG ACA CTA TAG TCT CAA CCA ACC ACA AAG ACA TTG G

1x VF1d\_t1: ATT TAG GTG ACA CTA TAG TCT CAA CCA ACC ACA ARG AYA TYG G

3x VF1i\_t1: ATT TAG GTG ACA CTA TAG TCT CAA CCA ACC ANA ANG ANA TNG G

1x LepR1\_t1: TAA TAC GAC TCA CTA TAG GGT AAA CTT CTG GAT GTC CAA AAA ATC A

1x VR1d\_t1: TAA TAC GAC TCA CTA TAG GGT AGA CTT CTG GGT GGC CRA ARA AYC A

1x VR1\_t1: TAA TAC GAC TCA CTA TAG GGT AGA CTT CTG GGT GGC CAA AGA ATC A

3x VR1i\_t1: TAA TAC GAC TCA CTA TAG GGT AGA CTT CTG GGT GNC CNA ANA ANC A

**Sequence:**

5'-TTWTTWWRGMGACACTATAGWYTCAACCAAYCAYAAAGAYATTGGTACATTATATTTTAT  
TTTTGGGATTTGAGCAGGAATAGTAGGAACTTCACTAAGTTTATTAATTCGAGCTGAATT  
AGGAAACCCTGGATCTTTAATTGGAGATGATCAAATTTATAATACTATTGTTACAGCTCA  
TGCTTTTATTATAATTTTTTTTATAGTTATACCTATTATAATTGGAGGATTTGGTAATTG  
ACTCGTTCCATTAATGTTAGGGGCCCTGATATAGCATTCCCTCGAATAAATAATATAAG  
TTTTTGA CTCTCTCCCTTCTTTAACTCTTTAATTTCAAGTAGAATCGTAGAAAATGG

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AGCAGGAACAGGATGAACAGTGTACCCCCCACTTTCATCTAATATTGCCCATGGAGGAAG  
TTCAGTAGATTTAGCTATTTTTTCACTTCATTTAGCTGGTATTTCTTCAATTCTCGGAGC  
TATTAATTTTATTACTACAATTATTAATATACGATTAATAGTTTATCTTTTGATCAAAT  
ACCTTTATTTATTTGAGCTGTAGGAATTACTGCATTTTTATTATTATTATCTTTACCTGT  
ATTAGCTGGAGCTATTACTATACTTTTAACAGATCGAAATTTAAATACATCTTTTTTTGA  
CCCTGCAGGRGGRGGTGWTCMAWTTTWWTAYCAAMMWTTWATTKATTTYTKSCMTWCT-3`  
Taxonomic Level Taxon Assignment Probability of Placement (%)  
Phylum Arthropoda 100  
Class Insecta 100  
Order Lepidoptera 100  
Family Noctuidae 100  
Genus Mamestra 100  
Species Mamestra brassicae 100

## Identification Summary:

**Search Result:** The submitted sequence has been matched to **Mamestra brassicae**. This identification is solid unless there is a very closely allied congeneric species that has not yet been analyzed. Such cases are rare.