

<http://www.ncbi.nlm.nih.gov/>

LOCUS DQ361088 617 bp DNA linear INV 08-FEB-2006
DEFINITION *Apis mellifera macedonica* 98 colony NADH dehydrogenase subunit 2
(ND2) gene, partial cds; mitochondrial.
ACCESSION DQ361088
VERSION DQ361088.1 GI:86440158
KEYWORDS .
SOURCE mitochondrion *Apis mellifera macedonica*
ORGANISM [Apis mellifera macedonica](#)
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Apoidea;
Apidae; *Apis*.
REFERENCE 1 (bases 1 to 617)
AUTHORS Ilyasov,R.A., Komissar,A.D., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.
TITLE Phylogenetics researches in *Apis mellifera macedonica* concluded from mitochondrial DNA sequence
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 617)
AUTHORS Ilyasov,R.A., Komissar,A.D., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.
TITLE Direct Submission
JOURNAL Submitted (13-JAN-2006) Russian Academy of Sciences, Ufa Scientific Center, Institute of Biochemistry and Genetics, Prospect Octyabrya, 71, Ufa 450054, Russia
FEATURES
source Location/Qualifiers
1..617
/organism="Apis mellifera macedonica"
/organelle="mitochondrion"
/mol_type="genomic DNA"
/isolation_source="98 colony; apiary of A.D. Komissar"
/sub_species="macedonica"
/db_xref="taxon:200410"
/sex="worker"
/tissue_type="thorax"
/dev_stage="adult"
/country="Ukraine: Kiev"
[gene](#) 1..>617
/gene="ND2"
[CDS](#) 1..>617
/gene="ND2"
/codon_start=1
/transl_table=5
/product="NADH dehydrogenase subunit 2"
/protein_id="ABC95998.1"
/db_xref="GI:86440159"

/translation="MFFMNFKYHWFYILLITIFVLMNNSNNIFIQWMLMEFGTIISIS
LINIKSTNKTPSLIYYSVSVISSIFLFFMIIVYLSSISFTKTDTFNFMVQMMFFLKIG
TFPFHFWMIIYSYEMMNWKQIFLMSTLIKFIPIYMMVSMTKINSWTLYFLITNSLYISF
YANKFYTLKLLACSTIFNSFYFIFILELNKNMFIAMIILYSFNY"
ORIGIN
1 atcttcttca taaattttaa ataccactga tttatttatac ttttaattac tattttttgta
61 ttaataataa attccaataa tattttttatt caatgaatat taatagaatt tggtagaatc
121 attagaatta gattaattaa tattaaatcc acaataaaaa cccaagatt aatttattat
181 tcagtatcag taatttcaag aattttttta ttctttataa ttattgtata cttatcatcc
241 attagattta ctaaacaga tacttttaat tttatagttc aaataatatt ttttttaaaa

301 attggaactt tcccctttca tttttgaata atttattcctt atgaaataat aaattgaaag
361 caaatTTTTT taatatcaac attaattaaa tttattccaa tttatataat agtttcaata
421 actaaaatta attcatgaac atttatTTTT ttaattacaa atagattata tatttcattt
481 tatgctaata aattttacac tctaaaaaaa ttactagcat gttcaacaat ttttaattca
541 ttctatttta tttttatttt agaattaaat aaaaatatat ttattgctat aattatttta
601 tattcattta attattt

LOCUS DQ361089 619 bp DNA linear INV 08-FEB-2006
DEFINITION *Apis mellifera macedonica* 95-1 colony NADH dehydrogenase subunit 2 (ND2) gene, partial cds; mitochondrial.
ACCESSION DQ361089
VERSION DQ361089.1 GI:86440160
KEYWORDS .
SOURCE mitochondrion *Apis mellifera macedonica*
ORGANISM [Apis mellifera macedonica](#)
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Apoidea;
Apidae; *Apis*.
REFERENCE 1 (bases 1 to 619)
AUTHORS Ilyasov,R.A., Komissar,A.D., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.
TITLE Phylogenetics researches in *Apis mellifera macedonica* concluded from mitochondrial DNA sequence
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 619)
AUTHORS Ilyasov,R.A., Komissar,A.D., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.
TITLE Direct Submission
JOURNAL Submitted (13-JAN-2006) Russian Academy of Sciences, Ufa Scientific Center, Institute of Biochemistry and Genetics, Prospect Octyabrya, 71, Ufa 450054, Russia
FEATURES Location/Qualifiers
source 1..619
/organism="Apis mellifera macedonica"
/organelle="mitochondrion"
/mol_type="genomic DNA"
/isolation_source="95-1 colony; apiary of A.D. Komissar"
/sub_species="macedonica"
/db_xref="taxon:[200410](#)"
/sex="worker"
/tissue_type="thorax"
/dev_stage="adult"
/country="Ukraine: Kiev"
[gene](#) 1..>619
/gene="ND2"
[CDS](#) 1..>619
/gene="ND2"
/codon_start=1
/transl_table=[5](#)
/product="NADH dehydrogenase subunit 2"
/protein_id="[ABC95999.1](#)"
/db_xref="GI:86440161"
/translation="MFFMNFKYHWFYIYLLITIFVLMNNSNNIFIQWMLMEFGTIISIS
LINIKSTNKTPSLIYYSVSVISSIFLFFMIIVYLSSISFTKTDTFNFMVQMMFFLKIG
TFPFHFWMIYSYEMMNWKQIFLMSTLIKFIPIYMMVSMTKINSWTLYFLITNSLYISF

YANKFYTLKLLACSTIFNSFYFIFILELNKNMFIAMIILYSFNYF"

ORIGIN

```

1 atctttcttca taaatthtaa ataccactga tttatthtate tthtaattac taththttgta
61 ttaataataa attccaataa taththttatt caatgaatat taatagaatt tggtaacaatc
121 attagaatta gattaattaa taththaatcc acaataaaaa ccccaagatt aaththattat
181 tcagtatcag taaththcaag aaththththa thctthtataa thattgtata cttatcatcc
241 attagaththa ctaaaacaga tactththaat ththtagthtc aaataathatt thththtaaaa
301 attggaactt tcccctthtca thththgaata thththattctt atgaaataat aaattgaaag
361 caaathththt taatathcaac athththaaa ththththcaa thththataat agththcaata
421 actaaaatha attcatgaac aththththth ththththcaa athgathata thththcattt
481 tatgthaata aathththcac thththththth ththththgcat gththcaaat thththattca
541 thctathththa thththththth agaaththaat aaaaathatat thththgctat aathththtca
601 thththththa aththththth

```

LOCUS DQ361090 613 bp DNA linear INV 08-FEB-2006

DEFINITION Apis mellifera macedonica 95-2 colony NADH dehydrogenase subunit 2
(ND2) gene, partial cds; mitochondrial.

ACCESSION DQ361090

VERSION DQ361090.1 GI:86440162

KEYWORDS .

SOURCE mitochondrion Apis mellifera macedonica

ORGANISM [Apis mellifera macedonica](#)
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Apoidea; Apidae; Apis.

REFERENCE 1 (bases 1 to 613)
AUTHORS Ilyasov,R.A., Komissar,A.D., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.
TITLE Phylogenetics researches in Apis mellifera macedonica concluded from mitochondrial DNA sequence
JOURNAL Unpublished

REFERENCE 2 (bases 1 to 613)
AUTHORS Ilyasov,R.A., Komissar,A.D., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.
TITLE Direct Submission
JOURNAL Submitted (13-JAN-2006) Russian Academy of Sciences, Ufa Scientific Center, Institute of Biochemistry and Genetics, Prospect Octyabrya, 71, Ufa 450054, Russia

FEATURES Location/Qualifiers
source 1..613
/organism="Apis mellifera macedonica"
/organelle="mitochondrion"
/mol_type="genomic DNA"
/isolation_source="95-2 colony; apiary of A.D. Komissar"
/sub_species="macedonica"
/db_xref="taxon:[200410](#)"
/sex="worker"
/tissue_type="thorax"
/dev_stage="adult"
/country="Ukraine: Kiev"
[gene](#) 1..>613
/gene="ND2"
[CDS](#) 1..>613
/gene="ND2"
/codon_start=1
/transl_table=[5](#)
/product="NADH dehydrogenase subunit 2"
/protein_id="[ABC96000.1](#)"

/db_xref="GI:86440163"

/translation="MFFMNFKYHWFYLLITIFVLMMSNNIFIQWMLMEFGTIISIS

LINIKSTNKTPSLIYYSVSVISSIFLFFMIIVYLSSISFTKTDTFNFMVQMMFFLKIG

TFPFHFWMIYSYEMMNWKQIFLMSTLIKFIPIYMMVSMTKINSWTLYFLITNSLYISF

YANKFYTLKKLLACSTIFNSFYFIFILELNKNMFIAMIILYSFN"

ORIGIN

```
1 atcttcttca taaatthtaa ataccactga tttatthtate tthtaattac taththtgta
61 ttaataataa attccaataa taththtatt caatgaatat taatagaatt tggtaacaatc
121 attagaatta gattaattaa tathaaatcc acaataaaaa cccaagatt aaththattat
181 tcagtatcag taaththcaag aathththta thctthataa thattgtata cttatcatcc
241 attagattta ctaaaacaga tactththaat ththtagttc aaataatatt thththtaaaa
301 attggaactt tcccctthca thththgaata aththattctt atgaaataat aaattgaaag
361 caaathththt taatatcaac athaaththaa ththattcca ththataat agththcaata
421 actaaaatta attcatgaac aththaththt thaaaththaa athagattata taththcattt
481 tatgctaata aathththacac ththaaaaaa ththactagcat gththacaat thththattca
541 thctaththta thththththt agaaththaat aaaaaththt thththgctat aathththctt
601 taththcttht att
```
