

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

LOCUS DQ181611 615 bp DNA linear INV 26-SEP-2005  
DEFINITION Apis mellifera pop-variant Burzyanskii, Borti NADH dehydrogenase  
subunit 2 (ND2) gene, partial cds; mitochondrial.  
ACCESSION DQ181611  
VERSION DQ181611.1 GI:75863966  
KEYWORDS .  
SOURCE mitochondrion Apis mellifera (honey bee)  
ORGANISM [Apis mellifera](#)  
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Apoidea;  
Apidae; Apis.  
REFERENCE 1 (bases 1 to 615)  
AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
TITLE Phylogenetics researches in Apis mellifera mellifera L. concluded  
from mitochondrial DNA sequence in Urals  
JOURNAL Unpublished  
REFERENCE 2 (bases 1 to 615)  
AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
TITLE Direct Submission  
JOURNAL Submitted (29-AUG-2005) Russian Academy of Sciences, Ufa Scientific Center, Institute of Biochemistry and Genetics, Prospect Octyabrya, 71, Ufa 450054, Russia  
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/country="Russia: Bashkortostan"  
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TFPFHFWMIYSYEMMNWKQIFLMSTLIKFIPIYMMVSMTKINSWTLYFLITNSLYISF  
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1 attttcttca taaatthta ataccactga tttatthtacc ttttaattac tatttttcta  
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361 caaatttttt taatatcaac attaattaa tttattcca tttatataat agtttcaata

Ilyasov R.A., Baymiev A.K., Poskryakov A.V., Nikolenko A.G. Phylogenetics researches in Apis mellifera mellifera L. concluded from mitochondrial DNA sequence in Urals. GenBank. 2005. accession numbers DQ181611-DQ181622 (<http://www.ncbi.nlm.nih.gov>).

421 actaaaatta attcatgaac atttatatttt ttaattacaa atagattata tatttcattt  
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LOCUS DQ181612 618 bp DNA linear INV 26-SEP-2005

DEFINITION *Apis mellifera* pop-variant Burzyanskii, Kapova NADH dehydrogenase

subunit 2 (ND2) gene, partial cds; mitochondrial.

ACCESSION DQ181612

VERSION DQ181612.1 GI:75863968

KEYWORDS .

SOURCE mitochondrion *Apis mellifera* (honey bee)

ORGANISM [Apis mellifera](#)

Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata;

Apoidea;

Apidae; *Apis*.

REFERENCE 1 (bases 1 to 618)

AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.

TITLE Phylogenetics researches in *Apis mellifera mellifera* L.

concluded

from mitochondrial DNA sequence in Urals

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 618)

AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.

TITLE Direct Submission

JOURNAL Submitted (29-AUG-2005) Russian Academy of Sciences, Ufa

Scientific

Center, Institute of Biochemistry and Genetics, Prospect

Octyabrya,

71, Ufa 450054, Russia

FEATURES

source

Location/Qualifiers

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ORIGIN

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121 attagaatta gattaattaa tattaatcc acaataaaa cccaagatt aatttattat  
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301 attggaactt tcccttttca tttttgaata atttattcct atgaaataat aaattgaaa  
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481 tatgcaaata aattttatac tctaaaaaaa ttattagcat gctcaacaat ttttaattca  
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601 tattcattta attatttt

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LOCUS DQ181613 614 bp DNA linear INV 26-SEP-2005

DEFINITION *Apis mellifera* pop-variant Burzyanskii, Koran-Elga NADH dehydrogenase subunit 2 (ND2) gene, partial cds; mitochondrial.

ACCESSION DQ181613

VERSION DQ181613.2 GI:76262983

KEYWORDS .

SOURCE mitochondrion *Apis mellifera* (honey bee)

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

REFERENCE 1 (bases 1 to 614)  
AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
TITLE Phylogenetics researches in *Apis mellifera mellifera* L.  
concluded from mitochondrial DNA sequence in Urals  
JOURNAL Unpublished

REFERENCE 2 (bases 1 to 614)  
AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
TITLE Direct Submission  
JOURNAL Submitted (29-AUG-2005) Russian Academy of Sciences, Ufa Scientific Center, Institute of Biochemistry and Genetics, Prospect Octyabrya, 71, Ufa 450054, Russia

REFERENCE 3 (bases 1 to 614)  
AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
TITLE Direct Submission  
JOURNAL Submitted (26-SEP-2005) Russian Academy of Sciences, Ufa Scientific Center, Institute of Biochemistry and Genetics, Prospect Octyabrya, 71, Ufa 450054, Russia

REMARK Sequence update by submitter

COMMENT On Sep 26, 2005 this sequence version replaced gi:[75863970](#).

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ORIGIN

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LOCUS DQ181614 612 bp DNA linear INV 26-SEP-2005

DEFINITION *Apis mellifera* pop-variant Tatyshlinskaya - Salavat NADH dehydrogenase subunit 2 (ND2) gene, partial cds; mitochondrial.

ACCESSION DQ181614

VERSION DQ181614.1 GI:75863972

KEYWORDS .

SOURCE mitochondrion *Apis mellifera* (honey bee)

ORGANISM [Apis mellifera](#)

Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata;

Apoidea;

Apidae; *Apis*.

REFERENCE 1 (bases 1 to 612)

AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.

TITLE Phylogenetics researches in *Apis mellifera mellifera* L.

concluded

from mitochondrial DNA sequence in Urals

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 612)

AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.

TITLE Direct Submission

JOURNAL Submitted (29-AUG-2005) Russian Academy of Sciences, Ufa

Scientific

Center, Institute of Biochemistry and Genetics, Prospect

Octyabrya,

71, Ufa 450054, Russia

FEATURES

source

Location/Qualifiers

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/organelle="mitochondrion"

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/gene="ND2"

[CDS](#)

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YANKFYTLKLLACSTIFNSFYFIFILELNKNMFIAMIILYSFN"

ORIGIN

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121 attagaatta gattaattaa tattaatcc acaataaaa cccaagatt aatttattat  
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LOCUS DQ181615 633 bp DNA linear INV 26-SEP-2005

DEFINITION Apis mellifera pop-variant Tatyshlinskaya - Salavat 2 NADH dehydrogenase subunit 2 (ND2) gene, partial cds; mitochondrial.

ACCESSION DQ181615

VERSION DQ181615.1 GI:75863974

KEYWORDS .

SOURCE mitochondrion Apis mellifera (honey bee)

ORGANISM [Apis mellifera](#)

Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata;

Apoidea;

Apidae; Apis.

REFERENCE 1 (bases 1 to 633)

AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.

TITLE Phylogenetics researches in Apis mellifera mellifera L.

concluded

from mitochondrial DNA sequence in Urals

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 633)

AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.

TITLE Direct Submission

JOURNAL Submitted (29-AUG-2005) Russian Academy of Sciences, Ufa

Scientific

Center, Institute of Biochemistry and Genetics, Prospect

Octyabrya,

71, Ufa 450054, Russia

FEATURES

Location/Qualifiers

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ORIGIN

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421 actaaaatta attcatgaac attatatttt ttaattacaa atagattata tatttcattt
481 tatgcaata aattttatac tctaaaaaaa ttattagcat gctcaacaat ttttaattca
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LOCUS DQ181616 613 bp DNA linear INV 26-SEP-2005

DEFINITION *Apis mellifera* pop-variant Tatyshlinskaya - Shulganovo NADH dehydrogenase subunit 2 (ND2) gene, partial cds; mitochondrial.

ACCESSION DQ181616

VERSION DQ181616.1 GI:75863976

KEYWORDS .

SOURCE mitochondrion *Apis mellifera* (honey bee)

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

REFERENCE 1 (bases 1 to 613)  
 AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
 TITLE Phylogenetics researches in *Apis mellifera mellifera* L.  
 concluded from mitochondrial DNA sequence in Urals

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 613)  
 AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
 TITLE Direct Submission  
 JOURNAL Submitted (29-AUG-2005) Russian Academy of Sciences, Ufa Scientific Center, Institute of Biochemistry and Genetics, Prospect Octyabrya, 71, Ufa 450054, Russia

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ORIGIN

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421 actaaaatta ththththaac thththththt ththththcaa atagattata thththcttht
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LOCUS DQ181617 633 bp DNA linear INV 26-SEP-2005

DEFINITION *Apis mellifera* pop-variant Visherskaya - Antipin II NADH dehydrogenase subunit 2 (ND2) gene, partial cds; mitochondrial.

ACCESSION DQ181617

VERSION DQ181617.1 GI:75863978

KEYWORDS .

SOURCE mitochondrion *Apis mellifera* (honey bee)

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

REFERENCE 1 (bases 1 to 633)  
AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
TITLE Phylogenetics researches in *Apis mellifera mellifera* L.  
concluded from mitochondrial DNA sequence in Urals

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 633)  
AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
TITLE Direct Submission  
JOURNAL Submitted (29-AUG-2005) Russian Academy of Sciences, Ufa Scientific Center, Institute of Biochemistry and Genetics, Prospect Octyabrya, 71, Ufa 450054, Russia

FEATURES  
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ORIGIN

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421 actaaaatta attcatgaac attatatattt ttaattacaa atagattata tattttcattt
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LOCUS DQ181618 613 bp DNA linear INV 26-SEP-2005  
 DEFINITION *Apis mellifera* pop-variant Visherskaya - Antipin II 2 NADH dehydrogenase subunit 2 (ND2) gene, partial cds; mitochondrial.  
 ACCESSION DQ181618  
 VERSION DQ181618.1 GI:75863980  
 KEYWORDS .  
 SOURCE mitochondrion *Apis mellifera* (honey bee)  
 ORGANISM [Apis mellifera](#)  
 Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Apoidea;  
 Apidae; *Apis*.  
 REFERENCE 1 (bases 1 to 613)  
 AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
 TITLE Phylogenetics researches in *Apis mellifera mellifera* L. concluded  
 from mitochondrial DNA sequence in Urals  
 JOURNAL Unpublished  
 REFERENCE 2 (bases 1 to 613)  
 AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
 TITLE Direct Submission  
 JOURNAL Submitted (29-AUG-2005) Russian Academy of Sciences, Ufa Scientific  
 Center, Institute of Biochemistry and Genetics, Prospect Octyabrya, 71, Ufa 450054, Russia  
 FEATURES Location/Qualifiers  
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/country="Russia: Bashkortostan"
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481 tatgcaata aatntntatac tctaaaaaaa ttattagcat gctcaacaat tntntaattca
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LOCUS DQ181619 620 bp DNA linear INV 26-SEP-2005

DEFINITION Apis mellifera pop-variant Visherskaya - Antipin NT NADH dehydrogenase subunit 2 (ND2) gene, partial cds; mitochondrial.

ACCESSION DQ181619

VERSION DQ181619.1 GI:75863982

KEYWORDS .

SOURCE mitochondrion Apis mellifera (honey bee)

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

REFERENCE 1 (bases 1 to 620)

AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.

TITLE Phylogenetics researches in Apis mellifera mellifera L. concluded

JOURNAL from mitochondrial DNA sequence in Urals Unpublished

REFERENCE 2 (bases 1 to 620)

AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.

TITLE Direct Submission

JOURNAL Submitted (29-AUG-2005) Russian Academy of Sciences, Ufa Scientific Center, Institute of Biochemistry and Genetics, Prospect Octyabrya,

71, Ufa 450054, Russia

FEATURES

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 /country="Russia: Bashkortostan"

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CDS 1..>620  
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TFPFHFWMIYSYEMMNWKQIFLMSTLIKFIPIYMMVSMTKINSWTLYFLITNSLYISF  
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121 attagaatta gattaattaa tattaaatcc acaataaaaa cccaagatt aattnttattat
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421 actaaaatta attcatgaac atttatntntt ttaattntcaa atagattnta tattntntcatt
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LOCUS DQ181620 617 bp DNA linear INV 26-SEP-2005

DEFINITION Apis mellifera pop-variant Yuzhno-Prikamskaya - Chastye NADH dehydrogenase subunit 2 (ND2) gene, partial cds; mitochondrial.

ACCESSION DQ181620

VERSION DQ181620.1 GI:75863984

KEYWORDS .

SOURCE mitochondrion Apis mellifera (honey bee)

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

REFERENCE 1 (bases 1 to 617)  
 AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
 TITLE Phylogenetics researches in Apis mellifera mellifera L.  
 concluded from mitochondrial DNA sequence in Urals

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 617)  
 AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
 TITLE Direct Submission

JOURNAL Submitted (29-AUG-2005) Russian Academy of Sciences, Ufa  
Scientific Center, Institute of Biochemistry and Genetics, Prospect  
Octyabrya, 71, Ufa 450054, Russia

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ORIGIN

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121 attagaatta gattaattaa tattaatcc acaataaaaa cccaagatt aatttattat
181 tcagtatcag taatttcaag aattttttta ttctttataa ttattgtata cttatcatcc
241 attagattta ctaaaacaga tacttttaat tttatagttc aaataatatt ttttttaaaa
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421 actaaaatta attcatgaac attatatttt ttaattaca atagattata tatttcattt
481 tatgcaata aattttatac tctaaaaaaa ttattagcat gctcaacaat tthtaattca
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LOCUS DQ181621 620 bp DNA linear INV 26-SEP-2005  
DEFINITION Apis mellifera pop-variant Yuzhno-Prikamskaya - Nytvenskaya  
NADH dehydrogenase subunit 2 (ND2) gene, partial cds; mitochondrial.  
ACCESSION DQ181621  
VERSION DQ181621.1 GI:75863986  
KEYWORDS .  
SOURCE mitochondrion Apis mellifera (honey bee)  
ORGANISM [Apis mellifera](#)  
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;  
Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata;  
Apoidea;  
Apidae; Apis.  
REFERENCE 1 (bases 1 to 620)  
AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
TITLE Phylogenetics researches in Apis mellifera mellifera L.  
concluded from mitochondrial DNA sequence in Urals

JOURNAL Unpublished  
REFERENCE 2 (bases 1 to 620)  
AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.  
TITLE Direct Submission  
JOURNAL Submitted (29-AUG-2005) Russian Academy of Sciences, Ufa  
Scientific Center, Institute of Biochemistry and Genetics, Prospect  
Octyabrya, 71, Ufa 450054, Russia

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[CDS](#) 1..>620  
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ORIGIN

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121 attagaatta gattaattaa taththaatcc acaataaaaa cccaagatt aaththattat
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LOCUS DQ181622 633 bp DNA linear INV 26-SEP-2005  
DEFINITION Apis mellifera pop-variant Yuzhno-Prikamskaya - Osinskaya NADH dehydrogenase subunit 2 (ND2) gene, partial cds; mitochondrial.  
ACCESSION DQ181622  
VERSION DQ181622.1 GI:75863988  
KEYWORDS .  
SOURCE mitochondrion Apis mellifera (honey bee)  
ORGANISM [Apis mellifera](#)  
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Apoidea;  
Apidae; Apis.  
REFERENCE 1 (bases 1 to 633)  
AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.

TITLE Phylogenetics researches in Apis mellifera mellifera L.  
concluded from mitochondrial DNA sequence in Urals

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 633)

AUTHORS Ilyasov,R.A., Baymiev,A.K., Poskryakov,A.V. and Nikolenko,A.G.

TITLE Direct Submission

JOURNAL Submitted (29-AUG-2005) Russian Academy of Sciences, Ufa  
Scientific Center, Institute of Biochemistry and Genetics, Prospect  
Octyabrya, 71, Ufa 450054, Russia

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ORIGIN

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421 actaaaatta attcatgaac atttatatttt ttaattacaa atagattata tattttcattt
481 tatgcaaata aattttatac tctaaaaaaa ttattagcat gctcaacaat ttttaattca
541 ttctatttta tttttatttt agaattaaac aaaaatatat ttattgctat aattatttta
601 tattcattta attatttttt attaattaga ttc

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