Linking Sequences with Specimens

Distichochlamys sp. AS18 chloroplast matK gene for maturase K, complete cds

GenBank: AB553309.1

FASTA Graphics

Go to:

```
LOCUS       AB553309                1542 bp    DNA     linear   PLN 02-OCT-2010
DEFINITION  Distichochlamys sp. AS18 chloroplast matK gene for maturase K,
            complete cds.
ACCESSION   AB553309
VERSION     AB553309.1  GI:308072161
KEYWORDS    .
SOURCE      chloroplast Distichochlamys sp. AS18
  ORGANISM  Distichochlamys sp. AS18
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; Liliopsida; Zingiberales;
            Zingiberaceae; Distichochlamys.
REFERENCE   1
  AUTHORS   Takano,A. and Nagamasu,H.
  TITLE     Monophyly of Myxochlamys (Zingiberaceae) is confirmed: Molecular
            phylogenetic analysis
  JOURNAL   Unpublished
REFERENCE   2  (bases 1 to 1542)
  AUTHORS   Takano,A. and Nagamasu,H.
  TITLE     Direct Submission
  JOURNAL   Submitted (01-APR-2010) Contact:Atsuko Takano Museum of Nature and
            Human Activities, Hyogo; 6 chome, Yayoigaoka, Sanda, Hyogo
            669-1546, Japan
FEATURES             Location/Qualifiers
     source          1..1542
                     /organism="Distichochlamys sp. AS18"
                     /organelle="plastid:chloroplast"
                     /mol_type="genomic DNA"
                     /specimen_voucher="E:Adele Smith 18"
                     /db_xref="taxon:749680"
                     /collected_by="Adele Smith"
                     /note="This individual is cultivated as acc. No. 20021433
                     at Royal Botanic Garden Edinburgh"
```


Change region shown

Customize view

Analyze this sequence

Run BLAST

Pick Primers

Highlight Sequence Features

Find in this Sequence

LinkOut to external resources

RBGE Herbarium Catalogue E00198079 [Royal Botanic Garden Edinburgh]

RBGE Living Collection 20021433 [Royal Botanic Garden Edinburgh]

Related information

Related Sequences

Protein

Taxonomy

Recent activity

Turn Off Clear

Distichochlamys sp. AS18 chloroplast matK gene for m: Nucleotide

The absence of sharks from abyssal regions of the world's oceans PMC

txid473364[Organism:noexp] (1) PMC

Accession: 20021433 - *Distichochlamys* by: Helen A. Yeats on 23/2/2011
Image 1 of 2

CLOSE ✕

```
dbase:  nucleotide
stype:  herbarium/museum collections
!base1: http://data.rbge.org.uk/herb/
!base2: http://data.rbge.org.uk/living/
---------------------------------------
linkid: 1
query:  JQ768578.1 [accn]
base:   &base1;
rule:   E00217291
name:   RBGE Herbarium Catalogue E00217291
---------------------------------------
linkid: 2
query:  AB553309.1 [accn]
base:   &base2;
rule:   20021433
name:   RBGE Living Collection #20021433
---------------------------------------
linkid: 3
query:  AB553309.1 [accn]
base:   &base1;
rule:   E00198079
name:   RBGE Herbarium Catalogue E00198079
---------------------------------------
```

PLoS One. 2012;7(9):e44271. doi: 10.1371/journal.pone.0044271. Epub 2012 Sep 12.

Lesula: a new species of Cercopithecus monkey endemic to the Democratic Republic of Congo and implications for conservation of Congo's central basin.

Hart JA, Detwiler KM, Gilbert CC, Burrell AS, Fuller JL, Emetshu M, Hart TB, Vosper A, Sargis EJ, Tosi AJ.

Lukuru Wildlife Research Foundation, Kinshasa, Gombe, Democratic Republic of Congo ; Division of Vertebrate Zoology, Yale Peabody Museum of Natural History, New Haven, Connecticut, United States of America.

Abstract

In June 2007, a previously undescribed monkey known locally as "lesula" was found in the forests of the middle Lomami Basin in central Democratic Republic of Congo (DRC). We describe this new species as Cercopithecus lomamiensis sp. nov., and provide data on its distribution, morphology, genetics, ecology and behavior. C. lomamiensis is restricted to the lowland rain forests of central DRC between the middle Lomami and the upper Tshuapa Rivers. Morphological and molecular data confirm that C. lomamiensis is distinct from its nearest congener, C. hamlyni, from which it is separated geographically by both the Congo (Lualaba) and the Lomami Rivers. C. lomamiensis, like C. hamlyni, is semi-terrestrial with a diet containing terrestrial herbaceous vegetation. The discovery of C. lomamiensis highlights the biogeographic significance and importance for conservation of central Congo's interfluvial TL2 region, defined from the upper Tshuapa River through the Lomami Basin to the Congo (Lualaba) River. The TL2 region has been found to contain a high diversity of anthropoid primates including three forms, in addition to C. lomamiensis, that are endemic to the area. We recommend the common name, lesula, for this new species, as it is the vernacular name used over most of its known range.

PMID: 22984482 [PubMed - indexed for MEDLINE] PMCID: PMC3440422 **Free PMC Article**

Images from this publication. See all images (10) Free text




Publication Types, MeSH Terms

LinkOut - more resources

Cercopithecus lomamiensis

Entrez records	
Database name	Direct links
Nucleotide	8
Protein	4
Taxonomy	1

Taxonomy ID: 1191211
Genbank common name: **lesula**
Inherited blast name: **primates**
Rank: species
Genetic code: Translation table 1 (Standard)
Mitochondrial genetic code: Translation table 2 (Vertebrate Mitochondrial)
Other names:

synonym: **Cercopithecus sp. ASB-2012**

authority: **Cercopithecus lomamiensis Hart et al. 2012**

type material: **YPM MAM 14189**

type material: **YPM MAM 14191**

type material: **YPM MAM 14192**

type material: **YPM MAM 14080**

type material: **YPM 14191**

type material: **YPM 14080**

type material: **YPM 14192**

type material: **YPM 14189**

Lineage(full)

cellular organisms; Eukaryota; Opisthokonta; Metazoa; Eumetazoa; Bilateria; Deuterostomia; Chordata; Craniata; Vertebrata; Gnathostomata; Teleostomi; Euteleostomi; Sarcopterygii; Tetrapoda; Amniota; Mammalia; Theria; Eutheria; Euarchontoglires; Primates; Haplorrhini; Simiiformes; Catarrhini; Cercopithecoidea; Cercopithecidae; Cercopithecinae; Cercopithecus

Comments and References:


Hart et al. (2012)

External Information Resources (NCBI LinkOut)

LinkOut	Subject	LinkOut Provider
search Catalog of Life	taxonomy/phylogenetic	Catalog of Life
search GBIF	taxonomy/phylogenetic	Global Biodiversity Information Facility
Cercopithecus (guenon)	taxonomy/phylogenetic	Primate Fact Sheets

Nucleotide | Nucleotide | collection ypm mam[prop]

Save search | Limits | Advanced

Display Settings: Summary, Sorted by Default order

Results: 4

1. Cercopithecus lomamiensis isolate ME408 X chromosome intergenic region genomic sequence
   4,688 bp linear DNA
   Accession: JN106060.1 GI: 387865320
   GenBank | FASTA | Graphics | Related Sequences | Full text in PMC | PubMed | Taxonomy

2. Cercopithecus lomamiensis isolate GP609 X chromosome intergenic region genomic sequence
   4,819 bp linear DNA
   Accession: JN106063.1 GI: 387865323
   GenBank | FASTA | Graphics | Related Sequences | Full text in PMC | PubMed | Taxonomy

3. Cercopithecus lomamiensis isolate ME408 testis-specific protein (TSPY) gene, partial cds
   2,237 bp linear DNA
   Accession: JN106057.1 GI: 387865316
   GenBank | FASTA | Graphics | Related Sequences | Full text in PMC | Protein | PubMed | Taxonomy

4. Cercopithecus lomamiensis isolate GP609 testis-specific protein (TSPY) gene, partial cds
   2,237 bp linear DNA
   Accession: JN106055.1 GI: 387865312
   GenBank | FASTA | Graphics | Related Sequences | Full text in PMC | Protein | PubMed | Taxonomy

Display Settings: Summary, Sorted by Default order

Cercopithecus lomamiensis isolate ME408 X chromosome intergenic region genomic sequence

GenBank: JN106060.1

FASTA Graphics

Go to:

```
LOCUS       JN106060                4688 bp    DNA     linear   PRI 05-MAR-2013
DEFINITION  Cercopithecus lomamiensis isolate ME408 X chromosome intergenic
            region genomic sequence.
ACCESSION   JN106060
VERSION     JN106060.1  GI:387865320
KEYWORDS    .
SOURCE      Cercopithecus lomamiensis (lesula)
  ORGANISM  Cercopithecus lomamiensis
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Haplorrhini;
            Catarrhini; Cercopithecidae; Cercopithecinae; Cercopithecus.
REFERENCE   1  (bases 1 to 4688)
  AUTHORS   Hart,J.A., Detwiler,K.M., Gilbert,C.C., Burrell,A.S., Fuller,J.L.,
            Emetshu,M., Hart,T.B., Vosper,A., Sargis,E.J. and Tosi,A.J.
  TITLE     Lesula: A New Species of Cercopithecus Monkey Endemic to the
            Democratic Republic of Congo and Implications for Conservation of
            Congo's Central Basin
  JOURNAL   PLoS ONE 7 (9), E44271 (2012)
   PUBMED   22984482
  REMARK    Publication Status: Online-Only
REFERENCE   2  (bases 1 to 4688)
  AUTHORS   Hart,J.A., Detwiler,K.M., Gilbert,C.C., Burrell,A.S., Fuller,J.L.,
            Emetshu,M., Hart,T.B., Vosper,A., Sargis,E.J. and Tosi,A.J.
  TITLE     Direct Submission
  JOURNAL   Submitted (10-JUN-2011) Department of Anthropology, New York
            University, 25 Waverly Place, New York, NY 10003, USA
FEATURES             Location/Qualifiers
     source          1..4688
                     /organism="Cercopithecus lomamiensis"
                     /mol_type="genomic DNA"
                     /isolate="ME408"
                     /specimen_voucher="YPM:MAM:14080"
                     /db_xref="taxon:1191211"
                     /chromosome="X"
                     /country="Democratic Republic of the Congo"
                     /note="holotype specimen of Cercopithecus lomamiensis"
```

YPM Mammalogy - Online Catalog

2 Apr 2013 15:39:29

Items 1-1 of 1 matching items.

New Search

YPM MAM 014080

Taxon Name.....	***Cercopithecus lomamiensis*** J. Hart, Detwiler, Gilbert, Burrell, Fuller, Emetshu, T. Hart, Vosper, Sargis, and Tosi, 2012 - **HOLOTYPE**
Locality.....	Africa. Democratic Republic of Congo. Orientale Province. Tshopo District. Lohumonoko. shot. Elev. 470 m.
LatLon.....	-1.02237 24.42368
Collected.....	M. Emetshu. 12 Aug 2008.
Higher Ranks.....	Primates; Cercopithecidae
Common Name.....	Lesula
Other Attributes....	TISSUE; SKIN; male male; adult adult; skin, flat (tissue sample at at New York University); skeleton (skull only); TYPE; SKELETON

n=1

PEABODY MUSEUM OF NATURAL HISTORY, Yale University
170 Whitney Avenue, New Haven, CT 06520, 203-432-5050

Institution ID	281
Full institution name	Museum of Comparative Zoology, Harvard University
Institution code	MCZ
Also known as	
Country	USA
Address	26 Oxford Street Cambridge, Massachusetts 02138
Institution phone	617-495-3045
Institution fax	
Record source	
Institution web page	http://www.mcz.harvard.edu/
Url rule	
Comments	= MCZC
Collection type	museum
Qualifier type	specimen_voucher
Collection code	HERP A R I
Contact person name	Linda S. Ford
Contact person e-mail	lford@oeb.harvard.edu
Contact person phone	(617) 495-3748
Contact person fax	(617) 495-5667
Contact comments	

Institution ID	281
Full institution name	Museum of Comparative Zoology, Harvard University
Institution code	MCZ
Also known as	
Country	USA
Address	26 Oxford Street Cambridge, Massachusetts 02138
Institution phone	617-495-3045
Institution fax	
Institution web page	http://www.mcz.harvard.edu/
Url rule	
Comments about institution	= MCZC
Collection code	I
Full collection name	Ichthyology Collection
Collection size	0
Collection type	museum
Qualifier type	specimen_voucher
Collection status	0
Comments about collection	= Fish
Collection web page	http://www.mcz.harvard.edu/Departments/Ichthyology/research
Collection url rule	http://mczbase.mcz.harvard.edu/guid/MCZ:Fish:
Contact person name	George V. Lauder
Contact person e-mail	glauder@oeb.harvard.edu
Contact person phone	617-496-9205
Contact person fax	
Contact comments	

Etmopterus princeps voucher KU:IT:T3681 cytochrome oxidase subunit I (COI) gene, partial cds; mitochondrial

GenBank: FJ519565.1

FASTA Graphics

Go to:

```
LOCUS       FJ519565                652 bp    DNA     linear   VRT 03-APR-2013
DEFINITION  Etmopterus princeps voucher KU:IT:3681 cytochrome oxidase subunit I
            (COI) gene, partial cds; mitochondrial.
ACCESSION   FJ519565
VERSION     FJ519565.1  GI:261875099
KEYWORDS    BARCODE.
SOURCE      mitochondrion Etmopterus princeps (great lanternshark)
  ORGANISM  Etmopterus princeps
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Chondrichthyes;
            Elasmobranchii; Squalimorphii; Squaliformes; Etmopteridae;
            Etmopterus.
REFERENCE   1  (bases 1 to 652)
  AUTHORS   Wong,E.H., Shivji,M.S. and Hanner,R.H.
  TITLE     Identifying sharks with DNA barcodes: assessing the utility of a
            nucleotide diagnostic approach
  JOURNAL   Mol Ecol Resour 9 (SUPPL S1), 243-256 (2009)
   PUBMED   21564984
REFERENCE   2  (bases 1 to 652)
  AUTHORS   Wong,E.H.-K.
  TITLE     Direct Submission
  JOURNAL   Submitted (04-DEC-2008) Integrative Biology, University of Guelph,
            50 Stone Rd E, Guelph, Ontario N1G2W1, Canada
FEATURES             Location/Qualifiers
     source          1..652
                     /organism="Etmopterus princeps"
                     /organelle="mitochondrion"
                     /mol_type="genomic DNA"
                     /specimen_voucher="KU:IT:3681"
                     /specimen_voucher="MCZ:I:158885"
                     /db_xref="BOLD:EWKU051-07"
                     /db_xref="taxon:473364"
```

Hypoplectrus floridae voucher hecosur1 cytochrome oxidase subunit 1 (COI) gene, partial cds; mitochondrial

GenBank: JX444756.1

FASTA Graphics

Go to:

```
LOCUS       JX444756                652 bp    DNA     linear   VRT 03-APR-2013
DEFINITION  Hypoplectrus floridae voucher SIO:12-58 cytochrome oxidase subunit
            1 (COI) gene, partial cds; mitochondrial.
ACCESSION   JX444756
VERSION     JX444756.1  GI:403488715
KEYWORDS    BARCODE.
SOURCE      mitochondrion Hypoplectrus floridae
  ORGANISM  Hypoplectrus floridae
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
            Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes;
            Percoidei; Serranidae; Serraninae; Hypoplectrus.
REFERENCE   1  (bases 1 to 652)
  AUTHORS   Victor,B.C.
  TITLE     Hypoplectrus floridae n. sp. and Hypoplectrus ecosur n. sp., two
            new Barred Hamlets from the Gulf of Mexico (Pisces: Serranidae):
            more than 3% different in COI mtDNA sequence from the Caribbean
            Hypoplectrus species flock
  JOURNAL   J Ocean Sci Found 5, 1-19 (2012)
REFERENCE   2  (bases 1 to 652)
  AUTHORS   Victor,B.
  TITLE     Direct Submission
  JOURNAL   Submitted (01-AUG-2012) Biology, Ocean Science Foundation, 4051
            Glenwood St., Irvine, CA 92604, USA
FEATURES             Location/Qualifiers
     source          1..652
                     /organism="Hypoplectrus floridae"
                     /organelle="mitochondrion"
                     /mol_type="genomic DNA"
                     /isolate="hecosur1"
                     /specimen_voucher="SIO:12-58"
                     /db_xref="BOLD:LIDMA1613-12.COI-5P"
                     /db_xref="taxon:1230408"
                     /country="USA"
```

***Hypoplectrus floridae*, n. sp.**

Figs. 1–5

Holotype. SIO 12-58 (1) 40.3 mm SL, SW Florida, off Everglades, Ten Thousand Islands (25.6°, -81.25°), July 14, 2011, SEAMAP surveys.

Paratypes. SIO 12-58 (3) 33.4–39.4 mm SL, same as holotype; SIO 12-59 (1) 33.7 mm SL, SW Florida, off Everglades, Ten Thousand Islands (25.7°, -81.34°), July 13, 2011, SEAMAP surveys.

Diagnosis. A hamlet with the usual color and patterns of the brown Barred Hamlet but with several distinguishing markings: a pair of dark rounded spots at the base of the caudal fin placed above and below the midline, usually symmetrical, present on all stages, including large adults; a break in the narrow mid-body bar (the fourth bar, after the wide mid-body bar) just above the lateral line, usually associated with well-delineated and unbroken bars to each side; frequently a short rearward spur at the top of the last body bar (the fifth bar, forward of the caudal-peduncle bar), usually outlining a light wedge just below the base of the last dorsal-fin rays. Characters not frequent on Caribbean Barred Hamlets, but typically associated with *H. floridae* (and *H. ecosur*) include the bar under the eye being orange, even when the body bars are brown, and a dusky pelvic fin.

Description. Body wide and broadly oval, maximum body depth just behind operculum 38–42 (42)% SL (range of paratypes (holotype)), and compressed, side-to-side width 12–15 (13)% SL (measured just forward of pectoral-fin base); predorsal length 38–42 (42)% SL; preanal length 65–71 (67)% SL; prepelvic length 36–41 (40)% SL; caudal peduncle depth 14–15 (15)% SL, caudal peduncle length (dorsal) 7–10 (8)% SL; lateral line complete, curving in a high arch over pectoral fin becoming straight on caudal peduncle.

Head large 41–43 (41)% SL; dorsal head profile smooth and mostly straight, rising sharply from terminal tip of jaw to dorsal-fin origin; maximum head depth (measured at the rear end of the operculum) 37–41 (42)% SL; eyes large and round, orbit diameter 26–29 (28)% HL, pupil pear-shaped, pointing forward; interorbital space flat and relatively narrow, minimum width 13–15 (14)% HL; snout sharply pointed and short 23–30 (29)% HL; upper preopercular margin tilted slightly forward of vertical with a rounded angle to lower limb, small regular straight serrations on both limbs, longest at angle, about 22–33 in total; opercle with three flat spines, the middle largest and at the level of the lower third of eye. Anterior nostril a short tube, posterior nostril a flat opening with a diameter about half internarial distance.

Figure 1. *Hypoplectrus floridae*, holotype, SIO 12-58, 40.3 mm SL, Florida, Ten Thousand Islands.

Hypoplectrus floridae

Entrez records	
Database name	Direct links
Nucleotide	5
Protein	5
Taxonomy	1

Taxonomy ID: 1230408
Inherited blast name: **bony fishes**
Rank: species
Genetic code: Translation table 1 (Standard)
Mitochondrial genetic code: Translation table 2 (Vertebrate Mitochondrial)
Other names:

authority: **Hypoplectrus floridae Victor, 2012**
type material: **SIO 12-58 (lot)**
type material: **hecosur1**
equivalent name: **Hypoplectrus sp. BV-2012**

Lineage(abbreviated)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei; Acanthomorpha; Acanthopterygii; Percomorpha; Perciformes; Percoidei; Serranidae; Serraninae; Hypoplectrus

Comments and References:

Victor (unpublished, 2012)

Victor,B. "A new hamlet from the Gulf of Mexico (Perciformes:Serranidae:Hypoplectrus)" Unpublished (as of 6 Sep 2012)

Victor (2012)

Victor,B.C. (2012) "Hypoplectrus floridae n. sp. and Hypoplectrus ecosur n. sp., two new Barred Hamlets from the Gulf of Mexico (Pisces: Serranidae): more than 3% different in COI mtDNA sequence from the Caribbean Hypoplectrus species flock" Journal of the Ocean Science Foundation 5: 1-19

External Information Resources (NCBI LinkOut)

LinkOut	Subject	LinkOut Provider
search Catalog of Life	taxonomy/phylogenetic	Catalog of Life
search GBIF	taxonomy/phylogenetic	Global Biodiversity Information Facility