LOCUS BSeq#1 19952 bp DNA circular 21-SEP-2018

DEFINITION Polypedates megacephalus voucher 20130003 mitochondrion, complete

genome.

ACCESSION BSeq#1

VERSION

KEYWORDS .

SOURCE mitochondrion Polypedates megacephalus voucher 20130003

ORGANISM Polypedates megacephalus voucher 20130003

Unclassified.

REFERENCE 1 (bases 1 to 19952)

AUTHORS Huang,A. and Zhang,M.

TITLE Unpublished

JOURNAL unpublished

REFERENCE 2 (bases 1 to 19952)

AUTHORS Huang,A. and Zhang,M.

TITLE Direct Submission

JOURNAL Submitted (21-SEP-2018) College of Science and Technology, Sichuan

Agricultural University, #211 Huimin Road Wenjiang, Chengdu,

Sichuan 611130, P.R. China

COMMENT Bankit Comment: TAX: No, not new species/combinations; SEE

ATTACHMENT

Bankit Comment: ALT EMAIL:99709978@qq.com

Bankit Comment: TOTAL # OF SEQS:1

##Assembly-Data-START##

Assembly Method :: A5-miseq v. v20150522; SPAdes v. v3.9.0

Sequencing Technology :: Illumina

##Assembly-Data-END##

FEATURES Location/Qualifiers

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/organelle="mitochondrion"

/mol\_type="genomic DNA"

/country="China"

/collection\_date="2017"

/collected\_by="MingWang Zhang"

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tRNA 72..143

/product="tRNA-Leu"

/note="codons recognized: CUN"

tRNA complement(149..217)

/product="tRNA-Pro"

tRNA 219..288

/product="tRNA-Phe"

rRNA 287..1216

/product="12S ribosomal RNA"

tRNA 1217..1285

/product="tRNA-Val"

rRNA 1286..2856

/product="16S ribosomal RNA"

tRNA 2859..2932

/product="tRNA-Leu"

/note="codons recognized: UUR"

gene 2936..3896

/gene="ND1"

CDS 2936..3896

/gene="ND1"

/note="TAA stop codon is completed by the addition of 3' A

residues to the mRNA'"

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/transl\_table=2

/product="NADH dehydrogenase subunit 1"

/translation="MTQMLYLTHPIMFIAPILLAVAFFTLIERKVLGYMQHRKGPNKV

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TMSILFILAVSSLTVYTILGSGWASNSKYALIGSLRAVAQTISYEVTMALIILCSIFL

AGGFTLSIFNVTQQHLWLLLPLWPLALMWYITTLAETNRAPFDLTEGESELVSGFNVE

YASGPFALFFLAEYANILMMNTLSTILFLGAAMLMKTLSTIFLMLKASSMSIYFLWIR

ASYPRFRYDQLMHLAWKNFLPITIAATMIFISMPTSTLISPPIM"

tRNA 3897..3967

/product="tRNA-Ile"

tRNA complement(3967..4037)

/product="tRNA-Gln"

tRNA 4037..4105

/product="tRNA-Met"

gene 4106..5143

/gene="ND2"

CDS 4106..5143

/gene="ND2"

/codon\_start=1

/transl\_table=2

/product="NADH dehydrogenase subunit 2"

/translation="MNPLAYSMFLLSLAIGTTTTLLSHHWLLAWIGLEINTLAIIPVI

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MKLGLAPLHFWLPEVLQGTPLFTGLIISTWQKIAPMTLLLQLTHHINIYAATSIGLLS

IFIGGWGGINQTQMRKILAFSSIGHLGWMMLVLKFDPSLTEFNFILYIIMTTAMFLLL

TSTHAMKLLDISILWAKTPMLVAISMLTLLSLAGLPPLTGFMPKLMISLELIKQNMVI

FVTLAMLASLLALFFYLRLTYVMVMITAPNMSTTNSLWRMTIKINSLTALFNNLAIFT

IMMTPTIILFL"

tRNA 5142..5212

/product="tRNA-Trp"

tRNA complement(5213..5282)

/product="tRNA-Ala"

tRNA complement(5284..5356)

/product="tRNA-Asn"

rep\_origin complement(5359..5384)

/note="L-strand origin of replication"

tRNA complement(5384..5448)

/product="tRNA-Cys"

tRNA complement(5449..5515)

/product="tRNA-Tyr"

gene 5520..7073

/gene="COI"

CDS 5520..7073

/gene="COI"

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/transl\_table=2

/product="cytochrome c oxidase subunit I"

/translation="MLTRWFFSTNHKDIGTLYLVFGAWAGMIGTALSLLIRAELSQPG

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INFITTILNMKPAALTQYQTPLFIWSVLITAVLLLLSLPVLAAGITMLLTDRNLNTTF

FDPAGGGDPVLYQHLFWFFGHPEVYILILPGFGIISHVVAFYSYKKEPFGYMGMVWAM

LSIGFLGFIVWAHHMFTTDLNVDTRAYFTSATMIIAIPTGVKVFSWLATMHGGIIKWD

AAMLWALGFIFLFTVGGLTGVVLANSSIDIVLHDTYYVVAHFHYVLSMGAVFAIMAGF

VHWFPLFTGYKLHAAWTKIQFVIMFAGVNLTFFPQHFLGLAGMPRRYSDYPDAYTLWN

TTSSIGSVISLIAVMVMIFIVWEAFSSKRVFLHSDLTSSNVEWTLGFPPAHHTFEEAT

FSITLREKG"

tRNA complement(7061..7131)

/product="tRNA-Ser"

/note="codons recognized: UCN"

tRNA 7133..7201

/product="tRNA-Asp"

gene 7202..7891

/gene="COII"

CDS 7202..7891

/gene="COII"

/codon\_start=1

/transl\_table=2

/product="cytochrome c oxidase subunit II"

/translation="MAQPTQFGLQDAASPIMEELIHFHDHTLMAVLLISTLVLYIIIT

LMASKLFSTNLTDAQEIEMVWTIMPAVILIVIALPSLRILYLMDEISSPDLTVKTVGH

QWYWTYEYSDFDNIGFDSYMLPTKDLDPGSFRLLEVDNRMVVPTGTLTRILVTADDVL

HSWALPSLGIKTDAIPGRLTQASILVAHPGVYYGQCSEICGANHSFMPIVVEALPIRD

FLPWILEMQDS"

tRNA 7897..7966

/product="tRNA-Lys"

gene 8829..9507

/gene="ATP6"

CDS 8829..9507

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residues to the mRNA"

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/transl\_table=2

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/translation="MGSLFSQFTSPTLFGIHLFLIAMIFPWLFFYSPSNRWIPNRLIT

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GLAIPLWLATVLVGLRNQLSASLAHFLPEGTPTPLIPILIIIETISLLIRPIALGVRL

MANLTAGHLLIQLIATATMFMIPLSTVVSLMSFTVLLLLTILEIAVAMIQAYVFVLLF

SLYLHENT"

gene 9508..10291

/gene="COIII"

CDS 9508..10291

/gene="COIII"

/note="TAA stop codon is completed by the addition of 3' A

residues to the mRNA"

/codon\_start=1

/transl\_table=2

/product="cytochrome c oxidase subunit III"

/translation="MNHQAHAFHMVNPSPWPLTGASAAFLLTCGLAMWFHFNSTVTMT

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NASLAPTPDVGETWPPTGITPLNPFEVPLLNTAVLLASGVSVTWAHHSVMLGNKKNMI

QALTLTILLGIYFTALQAMEYYEAPFTLADGIYGTTFFVATGFHGLHVIIGTMFLFTC

LLRQMFNHFTTQHHFGFEGAAWYWHFVDVVWLFLFVSIYWWGF"

tRNA 10292..10359

/product="tRNA-Gly"

gene 10360..10699

/gene="ND3"

CDS 10360..10699

/gene="ND3"

/note="TAA stop codon is completed by the addition of 3' A

residues to the mRNA"

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/transl\_table=2

/product="NADH dehydrogenase subunit 3"

/translation="MLAFLLVTILLSVILAGASFWLATLLPDTEKLSPYECGFDPLGS

ARLPYSMRFFLVAILFLLFDLEIALLLPLPWALQLPHPLPVIMWATVILLLLTAGFLY

EWLQDGLEWAE"

tRNA 10700..10768

/product="tRNA-Arg"

gene 10769..11053

/gene="ND4L"

CDS 10769..11053

/gene="ND4L"

/codon\_start=1

/transl\_table=2

/product="NADH dehydrogenase subunit 4L"

/translation="MVYLLPTMYLITLIGLAAHRMHLLSALLCLEGLMLVTYIALSLC

PNYLTLAAYVFPVFLLSMSACGAALGLALMVATYRSHGNDNLITLNLLQC"

gene 11047..12409

/gene="ND4"

CDS 11047..12409

/gene="ND4"

/note="TAA stop codon is completed by the addition of 3' A

residues to the mRNA"

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/transl\_table=2

/product="NADH dehydrogenase subunit 4"

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WFIKLYVLSGSVLPVYLKTMSIMQPETTFPGLFWTMYNAAFLVKLPMYCLHLWLPKAH

VEAPIAGSMVLAGTLLKLGGYGILRTSLVLPNVFLSKTLPIMMIAIMGVLMTALLCLR

QTDLKSLIAMSSVSHMNLVIAAALISTPWSYSGATIMMIAHGLSSSALFCLANTAYER

TNSRTMIIIRGMILLFPLGWAWWLIMALFNIALPPSISFAGEFLIITSLFNWSPVTFI

FVVMNLIFTTAYTLYVLWATQRGPLPNHIKTLFPLSTREHILLYLHILPALLLITKPN

LIMF"

tRNA 12410..12478

/product="tRNA-His"

tRNA 12479..12546

/product="tRNA-Ser"

/note="codons recognized: AGY"

gene complement(12549..13040)

/gene="ND6"

CDS complement(12549..13040)

/gene="ND6"

/codon\_start=1

/transl\_table=2

/product="NADH dehydrogenase subunit 6"

/translation="MIAEMNLLIGLVAVASNPSPFFAALGLVWGAGAGCFVLVKSGLG

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MGGDIKYNMGQDLILVEWWGVAELLGAGGWMLVCCGWGLLLTLFVVLEVVRGYSVGAL

RAV"

tRNA complement(13041..13109)

/product="tRNA-Glu"

gene 13114..14269

/gene="Cytb"

CDS 13114..14269

/gene="Cytb"

/note="TAA stop codon is completed by the addition of 3' A

residues to the mRNA"

/codon\_start=1

/transl\_table=2

/product="cytochrome b"

/translation="MTPAMRKAHPAIKIINNSFIDLPTPANLSAWWNFGSLLGVCLIA

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LYYGSFNFKETWNIGVILLFLLMATAFVGYVLPWGQMSFWGATVITNLMSAAPYIGNT

LVQWIWGGFSVDNATLTRFFTFHFILPFAIMGASMMHLLFLHQTGSSNPTGLNSNLDK

IPFHPYFSYKDILGFIIMLTSLALLSTFNPNLLGDPDNFTPANPLVTPPHIKPEWYFL

FAYAILRSIPNKLGGVLALLFSIIVLLFVPLTNTSKQRTMAFRPLTKILFWVLIANTV

ILTWIGGQPVEDPFIIIGQLASGLYFIVFILLLPLTGVAENKLMNLPHHTM"

D-loop 14270..15843

gene 15844..17622

/gene="ND5"

CDS 15844..17622

/gene="ND5"

/codon\_start=1

/transl\_table=2

/product="NADH dehydrogenase subunit 5"

/translation="MAPALTIFIIMLTPLLRLGKTTFPAMAKTAIKTAFFVSLTLLSL

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PNLETFMKYLLIFLMAMIVLVSAGNLFTLFIGWEGVGIMSYLLIGWFHGRANAATAAV

QAVLYNRIGDIGFLVIFCWALKELTLTNMQAMYSFHPPTPILMAFILAAASKSAQFGL

HPWLAAAMEGPTPVSALLHSSTMVVAGIFLMIRIHPIIAQNPHALTTCLCLGALSTFY

AAASALPQNDIKKVIAHSTSSQLGLMMVAIGINQPHLAFFHICTHAFFKAMLFLCAGL

FIHSLNDEQDIRKMGGLFNILPMTTTSFLVGSLALMGTPFLSAFYSKDAIIETMNNSF

TNSVALTLTLIATAFTAVYSVRLIYFVSLGNTRLNNPTTLINESSTMSAVTPIIRLAY

GSIFAGVMIFQLLIPNTPIIHTMSMSNKLTATVLTILAFLLAFDIIKMPTLAKWPTKK

LLDPSLYNFVIHRLSAKTALAIAGYTISFMVESFMLKTKATSIMHAQKPAMQILQQAQ

TGKIKTYLLSTTMTLMMAYAALMIGL"

D-loop 17623..19952

BASE COUNT 6020 a 4915 c 2948 g 6069 t

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