

Fact sheet of reference DNA sequences of *Coptis chinensis* (黃連)

Summary	Information
Scientific name	<i>Coptis chinensis</i> Franch.
Type of reference material used for data generation	● Plant voucher specimen ● Rhizoma Coptidis (黃連)
Plant voucher specimen (number of specimens / locality)	● 3 / Jiangjin District, Chongqing City, China ● 1 / Shizhu Tujia Autonomous County, Chongqing City, China ● 2 / Dayi County, Sichuan Province, China
Chinese Materia Medica (number of specimens / locality)	● 5 / Jiangjin District, Chongqing City, China ● 6 / Shizhu Tujia Autonomous County, Chongqing City, China ● 3 / Dayi County, Sichuan Province, China
Total number of specimen	● 20
Specimen source	● Hong Kong Chinese Materia Medica Standards (HKCMMS) Project
Method for data generation	● GCMTI RD-5:2020 (minor modification for generation of ITS2 required, see Appendix 1)
Length of DNA barcode	● Nuclear internal transcribed spacer 2 (ITS2) is

Summary	Information
	203–206 bp ● Chloroplast <i>psbA-trnH</i> intergenic spacer (<i>psbA-trnH</i>) is 214–292 bp ● Chloroplast ribulose biphosphate carboxylase large chain (<i>rbcL</i>) is 553 bp

Appendix 1**Modification – PCR cycling condition for amplification of ITS2****PCR cycling condition**

Temperature	Time	No. of cycles
94°C	5 min	1
94°C	30 sec	40
60°C	30 sec	
72°C	45 sec	
72°C	10 min	1
4°C	∞	--

Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230328

>23RD27-1B ITS2

CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACRGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 66, 166

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230328

>23RD27-1B_psbA-trnH

TCCACAAATGGCTAGGTCTTAGTGTACGCGAGTTT
GTGTATATGAGTTGTTGAAGTTCAGGAGTAATACCA
AAATCTTGTGTTTGTAAAGATTTTGGTATTACTCCWG
CATTTTTTTTTTTTTTAGTAAAAATAAGAAAATAGAA
TAGATCTTTGGAAAATTCTTGATTATAATATGTTCTGT
ATTATTTTCTTATAAAAATAATATTATATAATAACAAT
CTAAATATGTTCTTAACACTTTTTATTTTATAAAGAT
AATATATAATATAAAGTAGAAGGGCGGA

Remarks: observation at nucleotide position 111

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230328

>23RD27-1B_rbcL

AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCTCAACC
TGGAGTTCACCCGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTCTGTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAGGGGCGGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD27
Sample mark	23RD27-1B
Locality	Jiangjin District, Chongqing City, China
Corresponding CMM specimen	23RD131
Authenticated	Yes
Remarks	ITS2: 66Y, 166R; psbA-trnH: 111W

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230328

>23RD28-1B ITS2
CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGCTGCACGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACRGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 166

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230328

>23RD28-1B_psbA-trnH
TCCACAAATGGCTAGGTCTTAGTGTACGCGAGTTT
GTGTATATGAGTTGTTGAAGTTGCAGGAGTAATACCA
AAATCTTAACAAACAAGAATTTTGGTATTACTCCW
GCATTTTTTTTTTTTTTAGTAAAAATAAGAAATAGA
ATAGATCTTTGGAAAATTCTTGATTATAATATGTTCTG
TATTATTTTCTTATAAAAAAATATTATATATAATACAA
TCTAAATATGTTYTAACACTTTTTATTTTATAAAGA
TAATATAAGTAGAAGGG

Remarks: observation at nucleotide position 111, 238

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230328

>23RD28-1B_rbcL
AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCTCAACC
TGGAGTTCACCCGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGT
AAACTTTTCCAGGGGGCCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD28
Sample mark	23RD28-1B
Locality	Shizhu Tujia Autonomous County, Chongqing City, China
Corresponding CMM specimen	23RD33
Authenticated	Yes
Remarks	ITS2: 166R; psbA-trnH: 111W, 238Y

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230328

>23RD29-1B ITS2
CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACGGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 66

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230328

>23RD29-1B_psbA-trnH
TCCACAAATGGCTAGGTCTTAGTGTACGCGAGTTT
GTGTATATGAGTTGTTGAAGTTGCAGGAGTAATACCA
AAATCTTGTTTGTAAAGATTTTGGTATTACTCCWG
CATTTTTTTTTTTTGTAGTAAAAATAAGAAAATAGAA
TAGATCTTTGGAAAATTCTTGATTATAATATGTTCTGT
ATTATTTTCTTATAAAAATAATATTATATAATAACAAT
CTAAATATGTTCTTAACACTTTTTATTTTATAAAGAT
AATATAAAGTAGAAG

Remarks: observation at nucleotide position 111

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230328

>23RD29-1B_rbcL
AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCTCAACC
TGGAGTTCACCCGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTCTGTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAGGGGCGGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGTTTATGAATGTCTC

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD29
Sample mark	23RD29-1B
Locality	Dayi County, Sichuan Province, China
Corresponding CMM specimen	23RD132
Authenticated	Yes
Remarks	ITS2: 66Y; psbA-trnH: 111W

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230328

>23RD30-1A ITS2

```
CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGCTGCACGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACAGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG
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Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230328

>23RD30-1A_psbA-trnH

```
TCCACAAATGGCTAGGTCTTAGTGTACGCGAGTTTAA
GTGTATATGAGTTGTTGAAGTTGCAGGAGTAATACCA
AAATCTTGTTTTGTTAAGAAATTTGGTATTACTCCWG
CATTTTTTTTTTTTTTTAGTAAAAATAAGAAAATAGAA
TAGATCTTTGGAAAATTCTTGATTATAATATGTTCTGT
ATTATTTTCTTATAAAATAATATTATATATAATACAAT
CTAAATATGTTYTTAACACTTTTTATTTTATAAAGAT
AATATATAATATAAAG
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Remarks: observation at nucleotide position 111, 238

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230328

>23RD30-1A_rbcL

```
AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCGGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAGGGGCCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAAGTATGGTCGTCCCTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC
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Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD30
Sample mark	23RD30-1A
Locality	Dayi County, Sichuan Province, China
Corresponding CMM specimen	23RD132
Authenticated	Yes
Remarks	psbA-trnH: 111W, 238Y

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230328

>23RD31-1B ITS2

CGCACAGCGTCGCACCCCGCCACTCTGTCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGCTGCACGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACAGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 26

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230328

>23RD31-1B_psbA-trnH

TCCACAAATGGCTAGGTCTTAGTGACGCGAGTTT
GTGTATATGAGTTGTTGAAGTTCAGGAGTAATACCA
AAATCTTGTTTGTAAAGATTTTGGTATTACTCCTG
CATTTTTTTTTTTTGTAGTAAAAATAAGAAAATAGAA
TAGATCTTTGGAAAATTCTTGATTATAATATGTTCTGT
ATTATTTTCTTATAAAATAATATTATATAATAACAAT
CTAAATATGTTCTTAACACTTTTTATTTTATAAAGAT
AATATATAATATAAAG

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230328

>23RD31-1B_rbcL

AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCCTCAACC
TGGAGTTCCACCGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTTAGACCTTT
TGAAGAGGGTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATCCTGTTGCTTATGTTA
AACTTTCCAGGGCCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCCTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD31
Sample mark	23RD31-1B
Locality	Jiangjin District, Chongqing City, China
Corresponding CMM specimen	23RD133
Authenticated	Yes
Remarks	ITS2: 26Y

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230328

>23RD32-1B ITS2

CGCACAGCGTCGCACCCCGCCACTCTGTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGCTGCACGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACAGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 26

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230328

>23RD32-1B_psbA-trnH

CAAATGGCTAGGTCTTAGTGACGCGAGTTTTAGTGT
ATATGAGTTGTTGAAGTTGCAGGAGTAATACCAAAAT
TCTTGTTTGTTAAGAATTTGGTATTACTCCWGCATT
TTTTTTTTTTTTAGTAAAAATAAGAAAATAGAATAG
ATCTTTGGAAAAATCTTGATTATAATATGTTCTGTATT
ATTTCTTATAAAAATAATATTATATATAATACAATCTA
AATATGTTCTTAACACTTTTTATTTTATAAAGATAAT
ATAAAGTAGAAGGGCGGA

Remarks: observation at nucleotide position 107

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230328

>23RD32-1B_rbcL

AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCTCAACT
TGGAGTTCACCCGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTCTGTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAGGGGCGGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD32
Sample mark	23RD32-1B
Locality	Jiangjin District, Chongqing City, China
Corresponding CMM specimen	23RD133
Authenticated	Yes
Remarks	ITS2: 26Y; psbA-trnH: 107W

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230328-2

>23RD33-1B ITS2

CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACCGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACAGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 66

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230328-2

>23RD33-1B_psbA-trnH

TCCACAAATGGCTAGGTCTTAGTGTACGCGAGTTT
GTGTATATGAGTTGTTGAAGTTGCAGGAGTAATACCA
AAATTCTTAACAAACAAGAATTTTGGTATTACTCCW
GCATTTTTTTTTTTTTTAGTAAAAATAAGAAATAGA
ATAGATCTTTGGAAAATTCTTGATTATAATATGTTCTG
TATTATTTTCTTATAAAAAATAATATTATATAATACAA
TCTAAATATGTTYTTAACACTTTTTATTTTATAAAGA
TAATATAAAGTAGAAGGGCGGA

Remarks: observation at nucleotide position 111, 238

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230328-2

>23RD33-1B_rbcL

AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCTCAACC
TGGAGTTCCACCGGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTTCTGTACTAACATGTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTTCCAGGGGCCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD33
Sample mark	23RD33-1B
Locality	Shizhu Tujia Autonomous County, Chongqing City, China
Corresponding plant voucher specimen	23RD28
Authenticated	Yes
Remarks	ITS2: 66Y; psbA-trnH: 111W, 238Y

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230328-2

>23RD33-2B ITS2

CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACRGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 66, 166

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230328-2

>23RD33-2B_psbA-trnH

TCCACAAATGGCTAGGTCTTAGTGTACGCGAGTTT
GTGTATATGAGTTGTTGAAGTTGCAGGAGTAATACCA
AAATTCTTAACAAAACAAGAATTTTGGTATTACTCCW
GCATTTTTTTTTTTTAGTAAAAATAAGAAAATAGAA
TAGATCTTTGGAAAATTCTTGATTATAATATGTTCTGT
ATTATTTTCTTATAAAAATAATATTATATAAATACAAT
CTAAATATGTTTAAACACTTTTATTTTATAAAGAT
AATATAAAGTAGAA

Remarks: observation at nucleotide position 111, 237

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230328-2

>23RD33-2B_rbcL

AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCCTCAACC
TGGAGTTCCACCGGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTTCTGTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAGGGGCCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD33
Sample mark	23RD33-2B
Locality	Shizhu Tujia Autonomous County, Chongqing City, China
Corresponding plant voucher specimen	23RD28
Authenticated	Yes
Remarks	ITS2: 66Y, 166R; psbA-trnH: 111W, 237Y

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230328-2

>23RD33-3B ITS2

CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGTTGCACGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACRGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 166

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230328-2

>23RD33-3B_psbA-trnH

TCCACAAATGGCTAGGTCTTAGTGTACGCGAGTTT
GTGTATATGAGTTGTTGAAGTTGCAGGAGTAATACCA
AAATCTTGTTTGTAAAGAAATTTGGTATTACTCCWG
CATTTTTTTTTTTTTTAGTAAAAATAAGAAAATAGAA
TAGATCTTTGGAAAATCTTGATTATAATATGTTCTGT
ATTATTTTCTTATAAAAATAATATTATATAATAACAAT
CTAAATATGTTCTTAACACTTTTTATTTTATAAAGAT
AATATAAAGTAGAAGGGCGG

Remarks: observation at nucleotide position 111

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230328-2

>23RD33-3B_rbcL

AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCCTCAACT
TGGAGTTCACCGGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTTCTGTACTAACATGTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAGGGCCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD33
Sample mark	23RD33-3B
Locality	Shizhu Tujia Autonomous County, Chongqing City, China
Corresponding plant voucher specimen	23RD28
Authenticated	Yes
Remarks	ITS2: 166R; psbA-trnH: 111W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230328-2

>23RD33-4B ITS2

CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACCGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTRGGGACAGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 66, 160

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230328-2

>23RD33-4B_psbA-trnH

TCCACAAATGGCTAGGTCTTAGTGTACGCGAGTTT
GTGTATATGAGTTGTTGAAGTTGCAGGAGTAATACCA
AAATTCTTGTGTTGTTAAGAAATTTTGGTATTACTCCWG
CATTTTTTTTTTTTTTAGTAAAAATAAGAAAATAGAA
TAGATCTTTGGAAAATCTTGATTATAATATGTTCTGT
ATTATTTTCTTATAAAAATAATATTATATATAAACAAT
CTAAATATGTTCTTAACACTTTTTATTTTATAAAGAT
AATATAAAGTAGAAGGGCGGA

Remarks: observation at nucleotide position 111

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230328-2

>23RD33-4B_rbcL

AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCTCAACC
TGGAGTTCCACCGGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTTCTGTACTAACATGTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTTCCAGGGGCCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD33
Sample mark	23RD33-4B
Locality	Shizhu Tujia Autonomous County, Chongqing City, China
Corresponding plant voucher specimen	23RD28
Authenticated	Yes
Remarks	ITS2: 66Y, 160R; psbA-trnH: 111W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230328-2

>23RD33-5A ITS2

CGCACAGCGTCGCACCCCGCCACTCYTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACCGG
YCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACRGATCGACCCCGGACGC
CGTCACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 26, 66, 74, 166

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230328-2

>23RD33-5A_psbA-trnH

TCCACAAATGGCTAGGTCTTAGTGTACGCGAGTTT
GTGTATATGAGTTGTTGAAGTTGCAGGAGTAATACCA
AAATCTTGTTTGTAAAGATTTTGGTATTACTCCWG
CATTTTTTTTTTTTTTAGTAAAAATAAGAAAATAGAA
TAGATCTTTGGAAAATTCTTGATTATAATATGTTCTGT
ATTATTTTCTTATAAAAATAATATTATATAAATAACAAT
CTAAATATGTTCTTAACACTTTTTATTTTATAAAGAT
AATATAAAGTAGAAGGGCGGA

Remarks: observation at nucleotide position 111

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230328-2

>23RD33-5A_rbcL

AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCCTCAACC
TGGAGTTCCACCGGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTTCTGTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAGGGGCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD33
Sample mark	23RD33-5A
Locality	Shizhu Tujia Autonomous County, Chongqing City, China
Corresponding plant voucher specimen	23RD28
Authenticated	Yes
Remarks	ITS2: 26Y, 66Y, 74Y, 166R; psbA-trnH: 111W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230328-2

>23RD33-6A ITS2

CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACCG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACRGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 66, 166

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230328-2

>23RD33-6A_psbA-trnH

CAAATGGCTAGGTCTTAGTGACGCGAGTTTTAGTGT
ATATGAGTTGTTGAAGTTGCAGGAGTAATACCAAAAT
TCTTGTGTTGTTAAGAATTTGGTATTACTCCWGCATT
TTTTTTTTTTTTAGTAAAAATAAGAAAATAGAATAG
ATCTTTGGAAAATTCTTGATTATAATATGTTCTGTATT
ATTTCTTATAAAAATAATATTATATATAAACAATCTA
AATATGTTCTTAACACTTTTTATTTTATAAAGATAAT
ATATAATATAAAGTAGAAGGGCGGA

Remarks: observation at nucleotide position 107

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230328-2

>23RD33-6A_rbcL

AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCTCAACC
TGGAGTTCACCCGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTTCTGTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTTCCAGGGGCCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD33
Sample mark	23RD33-6A
Locality	Shizhu Tujia Autonomous County, Chongqing City, China
Corresponding plant voucher specimen	23RD28
Authenticated	Yes
Remarks	ITS2: 66Y, 166R; psbA-trnH: 107W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230815-1

>23RD131-4A ITS2

CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACRGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 66, 166

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230815-1

>23RD131-4A_psbA-trnH

CAAATGGCTAGGTCTTAGTGTACGCGAGTTTTAGTGT
ATATGAGTTGTTGAAGTTGCAGGAGTAATACCAAAAT
TCTTAACAAAACAAGAATTTTGGTATTACTCCWGCAT
TTTTTTTTTTTTAGTAAAAATAAGAAAATAGAATAG
ATCTTTGGAAAATTCTTGATTATAATATGTTCTGTATT
ATTTTCTTATAAAAATAATATTATATATAATAACAATCTA
AATATGTTCTTAACACTTTTTATTTTATAAAGATAAT
ATAAAGTAGAAGGGCGGA

Remarks: observation at nucleotide position 107

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230815-1

>23RD131-4A_rbcL

AAGTGTTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCCTCAACC
TGGAGTTCACCCGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTTCTGTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAGGGGCGGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD131
Sample mark	23RD131-4A
Locality	Dayi County, Sichuan Province, China
Corresponding plant voucher specimen	23RD27
Authenticated	Yes
Remarks	ITS2: 66Y, 166R; psbA-trnH: 107W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230815-1

>23RD132-2B ITS2
CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGTTGCACGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACRGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 166

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230815-1

>23RD132-2B_psbA-trnH
CAAATGGCTAGGTCTTAGTGACGCGAGTTTTAGTGT
ATATGAGTTGTTGAAGTTGCAGGAGTAATACCAAAT
TCTTGTGTTGTTAAGAATTTGGTATTACTCCWGCATT
TTTTTTTTTTTTAGTAAAAATAAGAAAATAGAATAG
ATCTTTGGAAAATTCTTGATTATAATATGTTCTGTATT
ATTTTCTATAAAAATAATATTATATATAATACAATCTA
AATATGTTCTTAACACTTTTTATTTTATAAAGATAAT
ATAAAGTAGAAGGGCGG

Remarks: observation at nucleotide position 107

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230815-1

>23RD132-2B_rbcL
AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCCTCAACT
TGGAGTTCACCCGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTCTGTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAGGGGCCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD132
Sample mark	23RD132-2B
Locality	Dayi County, Sichuan Province, China
Corresponding plant voucher specimen	23RD29,23RD30
Authenticated	Yes
Remarks	ITS2: 166R; psbA-trnH: 107W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230815-1

>23RD132-3A ITS2

CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCTCGC
CGCCACAGTAGGGACRGATCGACCCCGGACGCCGT
CACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 66, 163

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230815-1

>23RD132-3A_psbA-trnH

CAAATGGCTAGGTCTTAGTGACGCGAGTTTTAGTGT
ATATGAGTTGTTGAAGTTGCAGGAGTAATACCAAAAT
TCTTGTTTGTAAAGAATTTGGTATTACTCCWGCATT
TTTTTTTTTTTAGTAAAAATAAGAAAATAGAATAG
ATCTTTGGAAAATTCTTGATTATAATATGTTCTGTATT
ATTTCTTATAAAAATAATATTATATATAATACAATCTA
AATATGTTCTTAACACTTTTATTTTATAAAGATAAT
ATATAATATAAAG

Remarks: observation at nucleotide position 107

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230815-1

>23RD132-3A_rbcL

AAGTGTTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCTCAACC
TGGAGTTCCACCGGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTATGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAGGGGCGCCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD132
Sample mark	23RD132-3A
Locality	Dayi County, Sichuan Province, China
Corresponding plant voucher specimen	23RD29,23RD30
Authenticated	Yes
Remarks	ITS2: 66Y, 163R; psbA-trnH: 107W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230815-2

>23RD133-1B ITS2

CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACCGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACRGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 66, 166

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230815-2

>23RD133-1B_psbA-trnH

CAAATGGCTAGGTCTTAGTGACGCGAGTTTTAGTGT
ATATGAGTTGTTGAAGTTGCAGGAGTAATACCAAAAT
TCTTAACAAAACAAGAAATTTGGTATTACTCCWGCAT
TTTTTTTTTTTTTAGTAAAAATAAGAAAATAGAATAG
ATCTTTGGAAAATTCTTGATTATAATATGTTCTGTATT
ATTTTCTATAAAAATAATATTATATATAAT

Remarks: observation at nucleotide position 107

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230815-2

>23RD133-1B_rbcL

AAGTGTTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTT
TGAAGAGGGTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAGGGGCCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD133
Sample mark	23RD133-1B
Locality	Jiangjin District, Chongqing City, China
Corresponding plant voucher specimen	23RD31,23RD32
Authenticated	Yes
Remarks	ITS2: 66Y, 166R; <i>psbA-trnH</i> : 107W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230815-2

>23RD133-2B ITS2

CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACGG
YCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACRGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 66, 74, 166

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230815-2

>23RD133-2B_psbA-trnH

TCCACAAATGGCTAGGTCTTAGTGTACGCGAGTTT
GTGTATATGAGTTGTTGAAGTTCAGGAGTAATACCA
AAATCTTGTTTGTAAAGATTTTGGTATTACTCCTG
CMTTTTTTTTTTTTTAGTAAAAATAAGAAAATAGA
ATAGATCTTTGGAAAATTCTTGATTATAATATGTTCTG
TATTATTTTCTTATAAAAATAATATTATATATAACAA
TCTAAATATGTTCTTAACACTTTTTATTTTATAAAGA
TAATATAAGTAGAAG

Remarks: observation at nucleotide position 114

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230815-2

>23RD133-2B_rbcL

AAGTGTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACCTCCTCAACT
TGGAGTTCACCGGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTTCTGTACTAACATGTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAGGGGCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD133
Sample mark	23RD133-2B
Locality	Jiangjin District, Chongqing City, China
Corresponding plant voucher specimen	23RD31, 23RD32
Authenticated	Yes
Remarks	ITS2: 66Y, 74Y, 166R; <i>psbA-trnH</i> : 114M

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230815-2

>23RD133-3A ITS2

CGCACAGCGTCGCACCCCGCCACTCTGTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACCGG
CCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACRGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Remarks: observation at nucleotide position 26, 66, 166

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230815-2

>23RD133-3A *psbA-trnH*

TGGCTAGGTCTTAGTGACGCGAGTTTGTGTATAT
GAGTTGTTGAAGTTGCAGGAGTAATACCAAATTCTT
GTTTGTGAAGAATTTGGTATTACTCCWGCATTTTTT
TTTTTTTTTAGTAAAAATAAGAAAATAGAATAGATCT
TTGGAAAATTCTTGATTATAATATGTTCTGTATTATT
TCTTATAAAATAATATTATATATAATA

Remarks: observation at nucleotide position 103

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230815-2

>23RD133-3A *rbcL*

AAGTGTTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCGGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTT
TGAAGAGGGTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATCCTGTTGCTTATGTTA
AACTTTCCAGGGGCCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAATATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD133
Sample mark	23RD133-3A
Locality	Jiangjin District, Chongqing City, China
Corresponding plant voucher specimen	23RD31,23RD32
Authenticated	Yes
Remarks	ITS2: 26Y, 66Y, 166R; <i>psbA-trnH</i> : 103W

Image

Front view



Back view



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230815-2

>23RD133-4A ITS2

CGCACAGCGTCGCACCCCGCCACTCTTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGCTGCACGG
TCGGCTCAAATGACTGTCCCCGGCGACGAGCGTCGCT
ATTATCGTGGTGGATCAAAGCTGAGATAAGGCGTTCT
CGCCGCCACAGTAGGGACAGATCGACCCCGGACGC
CGTACCGACGGCGCTCACCTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230815-2

>23RD133-4A_psbA-trnH

CAAATGGCTAGGTCTTAGTGTACGCGAGTTTGTAGTGT
ATATGAGTTGTTGAAGTTGCAGGAGTAATACCAAAAT
TCTTAACAAAACAAGAATTTTGGTATTACTCCWGCAT
TTTTTTTTTTTTAGTAAAAATAAGAAAATAGAATAG
ATCTTTGGAAAAATCTTGATTATAATATGTCTGTATT
ATTTTCTTATAAAAATAATATTATATATAATACAATCTA
AATATGTTCTTAACACTTTTTATTTTATAAAGATAAT
ATAAAG

Remarks: observation at nucleotide position 107

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230815-2

>23RD133-4A_rbcL

AAGTGTTGGCTTCAAAGCGGGCGTTAAAGATTACAAA
TTGACTTATTATACTCCTCAATATACACCCAAAGATA
CTGATACCCTGGCAGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCGAAGAAGCGGGGGCTGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACGTGTGGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACGACATCGAGCCCGTTGCTGGAGAAGAAAAAT
CAATATATTTGTTATGTAGCCTATCCTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCCATTG
TGGGTAATGTTTTGGGTTCAAAGCGCTACGCGCTCT
ACGTTTGGAGGATCTGCGAATTCTGTGCTTATGTTA
AACTTTCCAGGGGCCGCCCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCTATTG
GGATGTACTATTAAACCAAAATTGGGATTATCTGCTA
AGAACTACGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD133
Sample mark	23RD133-4A
Locality	Jiangjin District, Chongqing City, China
Corresponding plant voucher specimen	23RD31,23RD32
Authenticated	Yes
Remarks	psbA-trnH: 107W

Image

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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI230815-2

>23RD133-6A ITS2
CGCACAGCGTCGCACCCCGCCACTCCTGCTGGACGGG
GAGCGGAGATTGGCCCCCGGGCACCCGYTGACGG
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Remarks: observation at nucleotide position 66, 166

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*)

Batch ID. BI230815-2

>23RD133-6A_psbA-trnH
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Remarks: observation at nucleotide position 107

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI230815-2

>23RD133-6A_rbcL
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Remarks: observation at nucleotide position 260, 397

Reference Detail

Description of reference material	Specimen of Rhizoma Coptidis
Scientific name	<i>Coptis chinensis</i> Franch.
Laboratory number	23RD133
Sample mark	23RD133-6A
Locality	Jiangjin District, Chongqing City, China
Corresponding plant voucher specimen	23RD31,23RD32
Authenticated	Yes
Remarks	ITS2: 66Y, 166R; psbA-trnH: 107W; rbcL: 260M, 397K

Image

Front view



Back view



Reference DNA sequences in FASTA format

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2) sequence of plant voucher specimen of *Coptis chinensis* and Chinese Materia Medica (CMM) Rhizoma Coptidis

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Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*) sequence of plant voucher specimen of *Coptis chinensis* and Chinese Materia Medica (CMM) Rhizoma Coptidis

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Partial chloroplast ribulose biphosphate carboxylase large chain (*rbcL*) sequence of plant voucher specimen of *Coptis chinensis* and Chinese Materia Medica (CMM) Rhizoma Coptidis

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