Fact sheet of reference DNA sequences of *Euodia rutaecarpa* var. *officinalis* (石虎)

Summary	**Information**
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Type of reference material used for data generation	● Plant voucher specimen ● Fructus Evodiae (吳茱萸)
Plant voucher specimen (number / locality)	● 2 / Dingcheng District, Hunan Province, China ● 2 / Shiqian County, Guizhou Province, China ● 1 / Songtao Miao Autonomous County, Guizhou Province, China
Chinese Materia Medica (number / locality)	● 6 / Dingcheng District, Hunan Province, China ● 6 / Shiqian County, Guizhou Province, China ● 3 / Songtao Miao Autonomous County, Guizhou Province, China
Total number of specimen	● 20
Specimen source	● GCMTI collection ● Hong Kong Chinese Materia Medica Standards (HKCMMS) Project

Summary	**Information**
Method for data generation	● GCMTI RD-5:2020 (modified polymerase chain reaction conditions, see Appendix 1)
Length of DNA barcode	● Nuclear internal transcribed spacer 2 (ITS2) is 223 bp ● Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H) is 501 bp ● Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L) is 553 bp

Appendix 1

Modified polymerase chain reaction (PCR) conditions for *psb*A-*trn*H

I) PCR reagent condition

PCR components	**psbAF / trnHR**
DNA template	About 30 ng
10X High Fidelity PCR Buffer (Minus Mg)	1 X
$MgSO_4$	3.0 mM
Trehalose	-
dNTPs	0.2 mM @ dNTP
Forward primer	0.1 μM
Reverse primer	0.1 μM
High Fidelity *Taq* DNA Polymerase	1.0 U per reaction
Nuclease-free water	An appropriate amount to make up to 25 μL

Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250328

>24RD137-A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGARCCCGYGTCTCTGTTTCRGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Remarks: observation at nucleotide position 162, 167, 179

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BI250328

>24RD137-A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BI250328

>24RD137-A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCCGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
ACCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAACATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCT
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD137
Sample mark	24RD137-A
Locality	Dingcheng District, Hunan Province, China
Corresponding CMM specimen	24RD323
Authenticated	Yes
Remarks	ITS2: 162R, 167Y, 179R

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250328

>24RD138-A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGARCCCGYGTCTCTGTTTCRGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Remarks: observation at nucleotide position 162, 167, 179

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BI250328

>24RD138-A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BI250328

>24RD138-A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCCGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
ACCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAACATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCT
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD138
Sample mark	24RD138-A
Locality	Shiqian County, Guizhou Province, China
Corresponding CMM specimen	24RD324
Authenticated	Yes
Remarks	ITS2: 162R, 167Y, 179R

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250328

>24RD139-A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGTGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BI250328

>24RD139-A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BI250328

>24RD139-A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCMGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
AYCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAAYATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCG
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Remarks: observation at nucleotide position 124, 186, 232

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD139
Sample mark	24RD139-A
Locality	Songtao Miao Autonomous County, Guizhou Province, China
Corresponding CMM specimen	24RD325
Authenticated	Yes
Remarks	rbcL: 124M, 186Y, 232Y

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250328

>24RD140-A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGTGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BI250328

>24RD140-A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BI250328

>24RD140-A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCMGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
AYCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAAYATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCG
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Remarks: observation at nucleotide position 124, 186, 232

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD140
Sample mark	24RD140-A
Locality	Dingcheng District, Hunan Province, China
Corresponding CMM specimen	24RD323
Authenticated	Yes
Remarks	rbcL: 124M, 186Y, 232Y

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250328

>24RD141-A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGARCCCGYGTCTCTGTTTCRGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Remarks: observation at nucleotide position 162, 167, 179

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BI250328

>24RD141-A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BI250328

>24RD141-A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCCGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
ACCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAACATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCT
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD141
Sample mark	24RD141-A
Locality	Shiqian County, Guizhou Province, China
Corresponding CMM specimen	24RD324
Authenticated	Yes
Remarks	ITS2: 162R, 167Y, 179R

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250423

>24RD323-1A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGYGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Remarks: observation at nucleotide position 167

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BI250423

>24RD323-1A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BI250423

>24RD323-1A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCCGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
ACCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAACATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCT
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD323
Sample mark	24RD323-1A
Locality	Dingcheng District, Hunan Province, China
Corresponding plant voucher specimen	24RD137, 24RD140
Authenticated	Yes
Remarks	ITS2: 167Y

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250423

>24RD323-2A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGYGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Remarks: observation at nucleotide position 167

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BI250423

>24RD323-2A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BI250423

>24RD323-2A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCCGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
ACCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAACATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCT
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD323
Sample mark	24RD323-2A
Locality	Dingcheng District, Hunan Province, China
Corresponding plant voucher specimen	24RD137, 24RD140
Authenticated	Yes
Remarks	ITS2: 167Y

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BIC260713

>24RD323-5A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGYGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Remarks: observation at nucleotide position 167

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BIC260713

>24RD323-5A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BIC260713

>24RD323-5A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCCGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
ACCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAACATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCT
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD323
Sample mark	24RD323-5A
Locality	Dingcheng District, Hunan Province, China
Corresponding plant voucher specimen	24RD137, 24RD140
Authenticated	Yes
Remarks	ITS2: 167Y

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BIC260713

>24RD323-7A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGYGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Remarks: observation at nucleotide position 167

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BIC260713

>24RD323-7A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BIC260713

>24RD323-7A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCCGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
ACCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAACATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCT
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD323
Sample mark	24RD323-7A
Locality	Dingcheng District, Hunan Province, China
Corresponding plant voucher specimen	24RD137, 24RD140
Authenticated	Yes
Remarks	ITS2: 167Y

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BIC260713

>24RD323-8A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGYGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Remarks: observation at nucleotide position 167

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BIC260713

>24RD323-8A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BIC260713

>24RD323-8A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCCGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
ACCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAACATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCT
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD323
Sample mark	24RD323-8A
Locality	Dingcheng District, Hunan Province, China
Corresponding plant voucher specimen	24RD137, 24RD140
Authenticated	Yes
Remarks	ITS2: 167Y

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BIC260713

>24RD323-9B_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGYGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Remarks: observation at nucleotide position 167

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BIC260713

>24RD323-9B_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BIC260713

>24RD323-9B_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCCGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
ACCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAACATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCT
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD323
Sample mark	24RD323-9B
Locality	Dingcheng District, Hunan Province, China
Corresponding plant voucher specimen	24RD137, 24RD140
Authenticated	Yes
Remarks	ITS2: 167Y

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250423

>24RD324-1A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGTGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BI250423

>24RD324-1A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BI250423

>24RD324-1A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCAGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
AYCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAAYATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCG
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Remarks: observation at nucleotide position 186, 232

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD324
Sample mark	24RD324-1A
Locality	Shiqian County, Guizhou Province, China
Corresponding plant voucher specimen	24RD138, 24RD141
Authenticated	Yes
Remarks	rbcL: 186Y, 232Y

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250423

>24RD324-2A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGYGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG
Remarks: observation at nucleotide position 167

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BI250423

>24RD324-2A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BI250423

>24RD324-2A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCMGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
AYCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAAYATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCG
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Remarks: observation at nucleotide position 124, 186, 232

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD324
Sample mark	24RD324-2A
Locality	Shiqian County, Guizhou Province, China
Corresponding plant voucher specimen	24RD138, 24RD141
Authenticated	Yes
Remarks	ITS2: 167Y; rbcL: 124M, 186Y, 232Y

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BIC260713

>24RD324-4B_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGYGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Remarks: observation at nucleotide position 167

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BIC260713

>24RD324-4B_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BIC260713

>24RD324-4B_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCCGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
ACCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAACATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCT
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD324
Sample mark	24RD324-4B
Locality	Shiqian County, Guizhou Province, China
Corresponding plant voucher specimen	24RD138, 24RD141
Authenticated	Yes
Remarks	ITS2: 167Y

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BIC260713

>24RD324-5A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGYGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Remarks: observation at nucleotide position 167

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BIC260713

>24RD324-5A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BIC260713

>24RD324-5A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCCGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
ACCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAACATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCT
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD324
Sample mark	24RD324-5A
Locality	Shiqian County, Guizhou Province, China
Corresponding plant voucher specimen	24RD138, 24RD141
Authenticated	Yes
Remarks	ITS2: 167Y

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BIC260713

>24RD324-6A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGTGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BIC260713

>24RD324-6A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BIC260713

>24RD324-6A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
TTGACTTATTATACTCCTGACTATGTAACCAAAGATA
CTGATATCTTGGCAGCATTCCGAGTAACTCCTCAACC
CGGAGTTCCACCCGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
ACCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAACATTGAGCCCGTTGCTGGAGAAGAAA
ATCAATATATATGTTATGTAGCTTACCCGTTAGACCTT
TTTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCAT
TGTGGGTAATGTATTTGGTTTCAAAGCCCTGCGCGCT
CTACGTCTAGAGGATCTACGAGTCCCTCCCGCGTATT
CTAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGT
TGAGAGAGATAAATTGAATAAGTATGGACGTCCCCTG
TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD324
Sample mark	24RD324-6A
Locality	Shiqian County, Guizhou Province, China
Corresponding plant voucher specimen	24RD138, 24RD141
Authenticated	Yes
Remarks	-

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BIC260713

>24RD324-7A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGYGTCTCTGTTTCAGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG
Remarks: observation at nucleotide position 167

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BIC260713

>24RD324-7A_psbA-trnH
ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCC
ATCTACAAATGGATAAGATTTTGATCTTTGTGTAGAC
GAGTTTTTAAAAATAACGGATCAATACCGACCCCTTA
AGGGGGTCGGTATTGATCCGTTATTGAGTCGGTTTCTT
TAGTAGTTTTTTATTTACATCTTTTTTTATTTTAATTTA
AAGTATTTTTATGCTTTTCGTTCTTTTCTTTGATTTAGT
ATCATATATTTTGTATGCGCTAATACTACTAAGAAAA
TTCTAATTTTATTAATTTATAAATTAGTAAATTAGAAT
CTAATTTTTTAATTTTTACTATTAATTTAATAGAAAAG
AAAAGAGAAAGGTTGTAGTTTTCTGCCCTTGGATCTT
CATGAATCTTCATAAATAAGATAAAAAAATAATGATC
AATGATTGAAATGGAGATTTTTGTAGTTCAAAATTTT
GTAAATAACAGAATTAAAGGGGCGGATGTAGCCAAG
TGGATCAAGGCAGT

Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BIC260713

>24RD324-7A_rbcL
GAGTGTTGGATTCAAAGCCGGTGTTAAAGATTATAAA
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CGGAGTTCCACCAGAGGAAGCGGGGGCTGCGGTAGC
TGCAGAATCTTCTACTGGTACATGGACAACTGTGTGG
AYCGATGGGCTTACCAGCCTTGATCGTTACAAAGGGC
GATGCTACAATATTGAGCCCGTTGCTGGAGAAGAAAA
TCAATATATATGTTATGTAGCTTACCCGTTAGACCTTT
TTGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATT
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TAAAACTTTCCAAGGCCCGCCTCACGGCATCCAAGTT
GAGAGAGATAAATTGAATAAGTATGGACGTCCCCTGT
TGGGATGTACTATTAAACCTAAATTGGGGTTATCCGC
TAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Remarks: observation at nucleotide position 186

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD324
Sample mark	24RD324-7A
Locality	Shiqian County, Guizhou Province, China
Corresponding plant voucher specimen	24RD138, 24RD141
Authenticated	Yes
Remarks	ITS2: 167Y; rbcL: 186Y

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250423

>24RD325-1A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
CCCGCTCGCGGTTGGCCCAAATTCGAGTCCTTGGCGA
CCGGAGCCGCGACAATCGGTGGTGAAAAGCCTCTCG
AGCTCTAGTCGCGAGCCCGYGTCTCTGTTTCRGGACT
CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG
Remarks: observation at nucleotide position 167, 179

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BI250423

>24RD325-1A_psbA-trnH
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Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BI250423

>24RD325-1A_rbcL
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TGGGATGTACTATTAAACCTAAATTGGGGTTATCCGC
TAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Remarks: observation at nucleotide position 186, 266

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD325
Sample mark	24RD325-1A
Locality	Songtao Miao Autonomous County, Guizhou Province, China
Corresponding plant voucher specimen	24RD139
Authenticated	Yes
Remarks	ITS2: 167Y, 179R; rbcL: 186Y, 266R

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BIC260713-2

>24RD325-3B_ITS2
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CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG
Remarks: observation at nucleotide position 167

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BIC260713-2

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Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BIC260713-2

>24RD325-3B_rbcL
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TTGGGATGTACTATTAAACCTAAATTGGGGTTATCCG
CTAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Remarks: observation at nucleotide position 186, 232, 266

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD325
Sample mark	24RD325-3B
Locality	Songtao Miao Autonomous County, Guizhou Province, China
Corresponding plant voucher specimen	24RD139
Authenticated	Yes
Remarks	ITS2: 167Y; rbcL: 186Y, 232Y, 266R

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BIC260713-2

>24RD325-5A_ITS2
CGCATCGTTGCCCCACCCCCACCCCCACCCCGGGGGC
CTGGCGGTGCGGGCGGATAATGGTCTCCCGTGCGCTC
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CAGGGACCCTGATGCTCCGCGCAAGCGGTGCTCGCAT
CG
Remarks: observation at nucleotide position 167

Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BIC260713-2

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Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L)

Batch ID. BIC260713-2

>24RD325-5A_rbcL
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TGGGATGTACTATTAAACCTAAATTGGGGTTATCCGC
TAAGAATTACGGTAGGGCAGTTTATGAATGTCTA

Remarks: observation at nucleotide position 186, 266

Reference Detail

Description of reference material	Specimen of Fructus Evodiae
Scientific name	*Euodia rutaecarpa* (Juss.) Benth. var. *officinalis* (Dode) Huang
Laboratory number	24RD325
Sample mark	24RD325-5A
Locality	Songtao Miao Autonomous County, Guizhou Province, China
Corresponding plant voucher specimen	24RD139
Authenticated	Yes
Remarks	ITS2: 167Y; rbcL: 186Y, 266R

Image



Reference DNA sequences in FASTA format

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2) sequence of plant voucher specimen of *Euodia rutaecarpa* var. *officinalis* and Chinese Materia Medica (CMM) Fructus Evodiae

>24RD137-A_ITS2
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Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H) sequence of plant voucher specimen of *Euodia rutaecarpa* var. *officinalis* and Chinese Materia Medica (CMM) Fructus Evodiae

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