

Fact sheet of reference DNA sequences of *Clematis manshurica* (東北鐵綫蓮)

Summary	Information
Scientific name	<i>Clematis manshurica</i> Rupr.
Type of reference material used for data generation	● Plant voucher specimen ● Radix Clematidis (威靈仙)
Plant voucher specimen (number / locality)	● 1 / Shenyang City, Liaoning Province, China ● 1 / Fushun City, Liaoning Province, China ● 1 / Tieling City, Liaoning Province, China
Chinese Materia Medica (number / locality)	● 5 / Shenyang City, Liaoning Province, China ● 5 / Fushun City, Liaoning Province, China ● 7 / Tieling City, Liaoning Province, China
Total number of specimen	● 20
Specimen source	● GCMTI collection ● Hong Kong Chinese Materia Medica Standards (HKCMMS) Project
Method for data generation	● GCMTI RD-5:2020 (modified DNA extraction and polymerase chain reaction conditions, see Appendix 1–3)
Length of DNA barcode	● Nuclear internal transcribed spacer 2 (ITS2) is

Summary	Information
	220 bp ● Chloroplast <i>psbA-trnH</i> intergenic spacer (<i>psbA-trnH</i>) is 221–319 bp ● Chloroplast ribulose biphosphate carboxylase large chain (<i>rbcL</i>) is 553 bp

Appendix 1

Modified DNA extraction steps

1. The DNA extracts can be further purified by Zymo Research OneStep PCR inhibitor Removal Kit, if necessary.

Appendix 2**Modified polymerase chain reaction (PCR) conditions for *psbA-trnH*****I) PCR cycling condition**

Temperature	Time	No. of cycles
94 °C	5 min	1
94 °C	1 min	40
56 °C	1 min	
72 °C	1.5 min	
72 °C	7 min	1
4 °C	∞	-

Appendix 3**Modified polymerase chain reaction (PCR) conditions for *rbcL*****I) PCR cycling condition**

Temperature	Time	No. of cycles
94 °C	4 min	1
94 °C	30 s	45
55 °C	30 s	
72 °C	1 min	
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. BI250513

>23RD8-1D ITS2

CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 212

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

Batch ID. BI250513

>23RD8-1D_psbA-trnH

CAAGAGGCCGGGCATTGCTCCTGCGTTTTGTTTAAAT
AGTGTGTTTATTTGCATTTTCATAATGATTTTTCTTTT
TTTTTTTKDRRDWWWWDDNNYTTTTWWWWTKRRRD
WAAAAAAAAAAAAATGACTCGAATGGGGGATTGGT
TGTTGAATTCTTGATTATCATACTCTCGTTCTGTACAT
ATATAAACCAATCCAATATAATATGTTCTTAAAAATT
TT

Remarks: observation at nucleotide position 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 102, 103, 104, 105, 107, 108, 109, 110, 111, 112

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250513

>23RD8-1D_rbcL

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCCTTAGACCTTTT
TGAAGAAGTTCTGTACTAACATGTTACTTCTATTG
TGGGTAATGTATTGCGGTTCAAAGCGTTACGCGCTCT
ACGCTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATG
GGATGTACTATTAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD8
Sample mark	23RD8-1D
Locality	Shenyang City, Liaoning Province, China
Corresponding CMM specimen	23RD12
Authenticated	Yes
Remarks	ITS2: 212Y; psbA-trnH: 84K, 85D, 86R, 87R, 88D, 89W, 90W, 91W, 92W, 93D, 94D, 95N, 96N, 97Y, 102W, 103W, 104W, 105W, 107K, 108R, 109R, 110R, 111D, 112W

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250424-2

>23RD10-1H ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACTTCAACCT
G

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

Batch ID. BI250424-2

>23RD10-1H *psbA-trnH*

TTCTGTCAAGAGGCCGGGCATTGCTCCTGCGTTTGT
TTAATAGTGTATTATTTGCATTTTTCATAATGATTTTT
CTTTTTTTTTTKDRRDWWWKDNNTTTTTWWTTK
RRRDWAAAAAAAAAAAAATGACTCGAATGGGGGAT
TGGTTGTTGAATTCTTGATTATCATACTCTCGTTCTGT
ACATATATAACCAATCCAATATAATATGTTCTCTAAA
AATTTTGAA

Remarks: observation at nucleotide position 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 108, 109, 110, 113, 114, 115, 116, 117, 118

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250424-2

>23RD10-1H *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCTCAACC
TGGAGTTCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGCTCGGAAGATCGCAATTCCTGTTGCTTATGTTA
AAACTTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAACCAAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD10
Sample mark	23RD10-1H
Locality	Fushun City, Liaoning Province, China
Corresponding CMM specimen	23RD13
Authenticated	Yes
Remarks	<i>psbA-trnH</i> : 90K, 91D, 92R, 93R, 94D, 95W, 96W, 97W, 98W, 99K, 100D, 101N, 102N, 108W, 109W, 110W, 113K, 114R, 115R, 116R, 117D, 118W

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250424-2

>23RD11-1H ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACTTCAACCT
G

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

Batch ID. BI250424-2

>23RD11-1H *psbA-trnH*

CAAGAGGCCGGGCATTGCTCCTGCGTTTGTTTTAAT
AGTGTTTTATTTGCATTTTTCATAATGATTTTTCTTTT
TTTTTTTKRRRRWWWDDNNTTTTWWWTKRRRR
WAAAAAAAAAAAAATGACTCGAATGGGGGATTGGT
TGTTGAATTCTTGATTATCATACTCTCGTTCTGTACAT
ATATAACCAATCCAATATAATATGTTCTTAAAAATT
T

Remarks: observation at nucleotide position 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 102, 103, 104, 107, 108, 109, 110, 111, 112

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250424-2

>23RD11-1H *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTATACTCCTGAATATGAAACCAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACTCCTCAACC
TGGAGTTCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD11
Sample mark	23RD11-1H
Locality	Tieling City, Liaoning Province, China
Corresponding CMM specimen	23RD14
Authenticated	Yes
Remarks	<i>psbA-trnH</i> : 84K, 85R, 86R, 87R, 88R, 89W, 90W, 91W, 92W, 93D, 94D, 95N, 96N, 102W, 103W, 104W, 107K, 108R, 109R, 110R, 111R, 112W

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250428

>23RD12-1J ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 212

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

Batch ID. BI250428

>23RD12-1J_psbA-trnH

CAAGAGGCCGGCATTGCTCCTGCGTTTTGTTTTAAT
AGTGTTTTATTGCATTTTCATAATGATTTTTCTTTT
TTTTTTTKDRRDWWWKDNHTTTTWWWTKRRRD
WAAAAAAAAAAAAATGACTCGAATGGGGGATTGGT
TGTTGAATTCTTGATTATCATACTCTGTTCTGTACAT
ATATAAACCAATCCAATATAATATGTTCTAAAAATT
T

Remarks: observation at nucleotide position 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 102, 103, 104, 105, 107, 108, 109, 110, 111, 112

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250428

>23RD12-1J_rbcL

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCCTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTGGGTTCAAAGCGTTACGCGCTCT
ACGCTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD12
Sample mark	23RD12-1J
Locality	Shenyang City, Liaoning Province, China
Corresponding plant voucher specimen	23RD8
Authenticated	Yes
Remarks	ITS2: 212Y; psbA-trnH: 84K, 85D, 86R, 87R, 88D, 89W, 90W, 91W, 92W, 93K, 94D, 95N, 96H, 102W, 103W, 104W, 105W, 107K, 108R, 109R, 110R, 111D, 112W

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. BI250513-2

>23RD12-2E ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACTTCAACCT
G

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

Batch ID. BI250513-2

>23RD12-2E *psbA-trnH*

TTGCAGGAGTAATACCCCAATTCTGTCTGTCAAGA
GGCCGGGCATTGCTCCTGCGTTTTGTTTAATAGTGT
TTATTTGCATTTTTCATAATGATTTTCTTTTTTTTTT
KDRRDWWWDDNNYTTTWWWTKRRRDWAAAA
AAAAAAAAAATGACTCGAATGGGGGATTGGTTGTTG
AATTCTTGATTATCATACTCTCGTTCTGTACATATATA
AACCAATCCAATATAATATGTTCTAAAAATTTTGAA
A

Remarks: observation at nucleotide position 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 134, 135, 136, 137, 139, 140, 141, 142, 143, 144

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250513-2

>23RD12-2E *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD12
Sample mark	23RD12-2E
Locality	Shenyang City, Liaoning Province, China
Corresponding plant voucher specimen	23RD8
Authenticated	Yes
Remarks	<i>psbA-trnH</i> : 116K, 117D, 118R, 119R, 120D, 121W, 122W, 123W, 124W, 125D, 126D, 127N, 128N, 129Y, 134W, 135W, 136W, 137W, 139K, 140R, 141R, 142R, 143D, 144W

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. BI250513-2

>23RD12-3F ITS2

CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 212

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

Batch ID. BI250513-2

>23RD12-3F *psbA-trnH*

AGTCGTTGAAGTGCAGGAGTAATACCCCAATTCTTG
TTCTGTCAAGAGCCGGGCATTGCTCCTGCGTTTGTGTT
TTAATAGTGTTTATTTGCATTTTCATAATGATTTTTT
CTTTTTTTTTTKDRRDWWWKDNNTTTTTWWWWT
KRRRDWAAAAAAAAAAAAAAAAATGACTCGAATGGGGG
ATTGGTTGTGAATTCTTGATTATCATACTCTCGTTCT
GTACATATATAAACCAATCCAATATAATATGTTCCCTA
AAAATTTGAAACAATTT

Remarks: observation at nucleotide position 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 145, 146, 147, 148, 150, 151, 152, 153, 154, 155

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250513-2

>23RD12-3F *rbcL*

GAGTGTTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD12
Sample mark	23RD12-3F
Locality	Shenyang City, Liaoning Province, China
Corresponding plant voucher specimen	23RD8
Authenticated	Yes
Remarks	ITS2: 212Y; <i>psbA-trnH</i> : 127K, 128D, 129R, 130R, 131D, 132W, 133W, 134W, 135W, 136K, 137D, 138N, 139N, 140Y, 145W, 146W, 147W, 148W, 150K, 151R, 152R, 153R, 154D, 155W

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. BI250513-2

>23RD12-4B ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
YCGGCACAAATGTTGGTCCTCGGCGGGCAGCGTCGCG
GTCAGCGGTGGTTGTACCCCTACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACTTCAACCT
G

Remarks: observation at nucleotide position 74

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

Batch ID. BI250513-2

>23RD12-4B *psbA-trnH*

TGGCTAAGACTTAGGTCTTAGTGTATGCTAGTCTTAGT
GTATATGAGTCGTTGAAGTTGCAGGAGTAATACCCCA
ATTCTTGTCTGTCAAGAGGCCGGGCATTGCTCCTGC
GTTTTGTTTTAATAGTGTATTTATTTGCATTTTCATAAT
GATTTTTCTTTTTTTTTTTTKDRRDWWWWDDNNYTTT
TWWWTTRRRDWAAAAAAAAAAAAAAAAATGACTCGAA
TGGGGGATTGGTTGTTGAATCTTGATTATCATACTCT
CGTTCTGTACATATATAAACCAATCCAATATAATATG
TTCCTAAAAATTT

Remarks: observation at nucleotide position 172, 173, 174,
175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 190,
191, 192, 195, 196, 197, 198, 199, 200

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250513-2

>23RD12-4B *rbcL*

GAGTGTTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTATACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAAT
CAATATATTGTTATGTAGCCTACCCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAAGTATGGTCGTCCCTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD12
Sample mark	23RD12-4B
Locality	Shenyang City, Liaoning Province, China
Corresponding plant voucher specimen	23RD8
Authenticated	Yes
Remarks	ITS2: 74Y; <i>psbA-trnH</i> : 172K, 173D, 174R, 175R, 176D, 177W, 178W, 179W, 180W, 181D, 182D, 183N, 184N, 185Y, 190W, 191W, 192W, 195K, 196R, 197R, 198R, 199D, 200W

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. BI250513-2

>23RD12-6A ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCCTACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACTTCAACCT
G

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

Batch ID. BI250513-2

>23RD12-6A *psbA-trnH*

ATATGAGTCGTTGAAGTTGCAGGAGTAATACCCCAAT
TCTTGTTCTGTCAAGAGGCCGGGCATTGCTCTGCGTT
TTGTTTTAATAGTGTGTTTATTTGCATTTTTCATAATGAT
TTTTCTTTTTTTTTTKRRRDWWATKDNYYTTTTNW
WWTKRRRDWAAAAAAAAAAAAAAAAATGACTCGAATGG
GGGATTGGTTGTGAATTCTTGATTATCATACTCTCGT
TCTGTACATATATAAACCAATCCAATATAATATGTTCT
CTAAAAATTTTGAAA

Remarks: observation at nucleotide position 132, 133, 134, 135, 136, 137, 138, 141, 142, 143, 144, 150, 151, 152, 153, 155, 156, 157, 158, 159, 160

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250513-2

>23RD12-6A *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTATACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGCGCGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD12
Sample mark	23RD12-6A
Locality	Shenyang City, Liaoning Province, China
Corresponding plant voucher specimen	23RD8
Authenticated	Yes
Remarks	<i>psbA-trnH</i> : 132K, 133R, 134R, 135R, 136D, 137W, 138W, 141K, 142D, 143N, 144Y, 150N, 151W, 152W, 153W, 155K, 156R, 157R, 158R, 159D, 160W

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. BI250513-2

>23RD13-2E ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
YCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 74, 212

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

Batch ID. BI250513-2

>23RD13-2E *psbA-trnH*

ATATGAGTCGTTGAAGTTGCAGGAGTAATACCCCAAT
TCTTGTTCTGTCAAGAGGCCGGGCATTGCTCCTGCGTT
TTGTTTTAATAGTGTATTATTTGCATTTTTCATAATGAT
TTTTTCTTTTTTTTTTKDRRDWWWDDNNYTTTTW
WWWTKRRRDWAAAAAAAAAAAAAAAAATGACTCGAATG
GGGGATTGGTTGTTGAATTCTTGATTATCATACTCTCG
TTCTGTACATATATAAACCAATCCAATATAATATGTTT
CTAAAAATTTTGAAACAATT

Remarks: observation at nucleotide position 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 150, 151, 152, 153, 155, 156, 157, 158, 159, 160

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250513-2

>23RD13-2E *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGCTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD13
Sample mark	23RD13-2E
Locality	Fushun City, Liaoning Province, China
Corresponding plant voucher specimen	23RD9, 23RD10
Authenticated	Yes
Remarks	ITS2: 74Y, 212Y; <i>psbA-trnH</i> : 132K, 133D, 134R, 135R, 136D, 137W, 138W, 139W, 140W, 141D, 142D, 143N, 144N, 145Y, 150W, 151W, 152W, 153W, 155K, 156R, 157R, 158R, 159D, 160W

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. BI250513-2

>23RD13-3E ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 212

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

Batch ID. BI250513-2

>23RD13-3E *psbA-trnH*

ATATGAGTCGTTGAAGTTGCAGGAGTAATACCCAAT
TCTTGTCTGTCAAGAGGCCGGGATTGCTCCTGCGTT
TTGTTTTAATAGTGTATTATTTGCATTTTCATAATGAT
TTTTTCTTTTTTTTTTKDRRDWWWWDDNNYTTTTW
WWTTKRRRRWAAAAAAAAAAAAATGACTCGAATG
GGGGATTGGTTGTGAATTCTTGATTATCATACTCTCG
TTCTGTACATATATAAACCAATCCAATATAATATGTTT
CTAAAAATTTTGAAA

Remarks: observation at nucleotide position 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 150, 151, 152, 155, 156, 157, 158, 159, 160

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250513-2

>23RD13-3E *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGCTTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGCGATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD13
Sample mark	23RD13-3E
Locality	Fushun City, Liaoning Province, China
Corresponding plant voucher specimen	23RD9, 23RD10
Authenticated	Yes
Remarks	ITS2: 212Y; <i>psbA-trnH</i> : 132K, 133D, 134R, 135R, 136D, 137W, 138W, 139W, 140W, 141D, 142D, 143N, 144N, 145Y, 150W, 151W, 152W, 155K, 156R, 157R, 158R, 159R, 160W

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. BI250513-2

>23RD13-4A ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCAGCG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 212

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

Batch ID. BI250513-2

>23RD13-4A_psbA-trnH

ATATGAGTCGTTGAAGTTGCAGGAGTAATACCCCAAT
TCTTGTTCGTCAAGAGGCCGGGCATTGCTCCTGCGTT
TTGTTTTAATAGTGTTCATTTTGCATTTTCATAATGAT
TTTTCTTTTTTTTTTKDRRDWWWDDNNYTTTTW
WWWTKRRRDWAAAAAAAAAAAAATGACTCGAATG
GGGGATTGGTTGTGAATTCTTGATTATCATACTCTCG
TTCTGTACATATATAAACCAATCCAATATAATATGTTT
CTAAAAATTTTGAAA

Remarks: observation at nucleotide position 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 150, 151, 152, 153, 155, 156, 157, 158, 159, 160

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250513-2

>23RD13-4A_rbcL

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGCTGTGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD13
Sample mark	23RD13-4A
Locality	Fushun City, Liaoning Province, China
Corresponding plant voucher specimen	23RD9, 23RD10
Authenticated	Yes
Remarks	ITS2: 212Y; psbA-trnH: 132K, 133D, 134R, 135R, 136D, 137W, 138W, 139W, 140W, 141D, 142D, 143N, 144N, 145Y, 150W, 151W, 152W, 153W, 155K, 156R, 157R, 158R, 159D, 160W

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. BI250513-2

>23RD13-5B ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 212

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

Batch ID. BI250513-2

>23RD13-5B *psbA-trnH*

ACTTAGGTCTTAGTGTATGCTAGTCTTAGTGTATATGA
GTCGTTGAAGTTGCAGGAGTAATACCCAATTCTTGT
TCTGTCAAGAGGCCGGGCATTGCTCCTGCGTTTIGTTT
TAATAGTGTTTATTTGCATTTTTCATAATGATTTTTTC
TTTTTTTTTTKDRRDWWWWDDNNYTTTTWWWWTK
RRRDWAAAAAAAAAAAAAAAAATGACTCGAATGGGGGAT
TGGTTGTTGAATTCTTGATTATCATACTCTCGTTCTGT
ACATATATAAACCAATCCAATATAATATGTTCCATAA
AATTT

Remarks: observation at nucleotide position 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 182, 183, 184, 185, 187, 188, 189, 190, 191, 192

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250513-2

>23RD13-5B *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTATACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAA
CAATATATTTGTTATGTAGCCTACCTTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAAGTATGGTCGTCCCTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD13
Sample mark	23RD13-5B
Locality	Fushun City, Liaoning Province, China
Corresponding plant voucher specimen	23RD9, 23RD10
Authenticated	Yes
Remarks	ITS2: 212Y; <i>psbA-trnH</i> : 164K, 165D, 166R, 167R, 168D, 169W, 170W, 171W, 172W, 173D, 174D, 175N, 176N, 177Y, 182W, 183W, 184W, 185W, 187K, 188R, 189R, 190R, 191D, 192W

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. BI250513-2

>23RD13-6A ITS2

CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 212

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

Batch ID. BI250513-2

>23RD13-6A *psbA-trnH*

ATATGAGTCGTTGAAGTTGCAGGAGTAATACCCCAAT
TCTTGTTCGTCAAGAGGCCGGGCATTGCTCCTGCGTT
TTGTTTTAATAGTGTTCATTTTGCATTTTCATAATGAT
TTTTCTTTTTTTTTTKDRRDWWWDDNNYTTTTW
WWWTKRRRDWAAAAAAAAAAAAATGACTCGAATG
GGGGATTGGTTGTGAATTCTTGATTATCATACTCTCG
TTCTGTACATATATAAACCAATCCAATATAATATGTTT
CTAAAAATTTTGAA

Remarks: observation at nucleotide position 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 150, 151, 152, 153, 155, 156, 157, 158, 159, 160

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250513-2

>23RD13-6A *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGCTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD13
Sample mark	23RD13-6A
Locality	Fushun City, Liaoning Province, China
Corresponding plant voucher specimen	23RD9, 23RD10
Authenticated	Yes
Remarks	ITS2: 212Y; <i>psbA-trnH</i> : 132K, 133D, 134R, 135R, 136D, 137W, 138W, 139W, 140W, 141D, 142D, 143N, 144N, 145Y, 150W, 151W, 152W, 153W, 155K, 156R, 157R, 158R, 159D, 160W

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. BI250515

>23RD14-1E ITS2

CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACTTCAACCT
G

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

Batch ID. BI250515

>23RD14-1E *psbA-trnH*

TTGCAGGAGTAATACCCCAATTCTGTCTGTCAAGA
GGCCGGGCATTGCTCCTGCGTTTTGTTTAATAGTGT
TTATTTGCATTTTTCATAATGATTTTCTTTTTTTTTT
KDRRDWWWTKDNNYTTTWWWTKRDRDAAAAA
AAAAAAAAATGACTCGAATGGGGGATTGGTTGTGA
ATTCTTGATTATCATACTCTCGTTCTGTACATATATA
ACCAATCCAATATAATATGTTCTAAAAATTT

Remarks: observation at nucleotide position 116, 117, 118, 119, 120, 121, 122, 123, 125, 126, 127, 128, 129, 134, 135, 136, 137, 139, 140, 141, 142, 143, 144

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250515

>23RD14-1E *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTATACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAACCAAAATTTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD14
Sample mark	23RD14-1E
Locality	Tieling City, Liaoning Province, China
Corresponding plant voucher specimen	23RD11
Authenticated	Yes
Remarks	<i>psbA-trnH</i> : 116K, 117D, 118R, 119R, 120D, 121W, 122W, 123W, 125K, 126D, 127N, 128N, 129Y, 134W, 135W, 136W, 137W, 139K, 140R, 141R, 142R, 143D, 144W

Image

Front view



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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250424

>23RD14-2I ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAACTGGCCCCCGAGCCCCCGGGCACGG
YCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACTTCAACCT
G

Remarks: observation at nucleotide position 74

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

Batch ID. BI250424

>23RD14-2I *psbA-trnH*

TCTGTCAAGAGGCCGGGCATTGCTCCTGCGTTTTGTTT
TAATAGTGTATTATTGCAATTTTCATAATGATTTTTTC
TTTTTTTTTTKDRRDWAWTKDNNTTTTTWWTTKRR
RDWAAAAAAAAAAAAAAAAATGACTCGAATGGGGGATTG
GTTGTTGAATTCTTGATTATCATACTCTCGTTCTGTAC
ATATATAACCAATCCAATATAATATGTTCTCTAAAA
TTT

Remarks: observation at nucleotide position 89, 90, 91, 92, 93, 94, 96, 98, 99, 100, 101, 107, 108, 109, 112, 113, 114, 115, 116, 117

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250424

>23RD14-2I *rbcL*

GAGTGTTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCCTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTGGGTTCAAAGCGTTACGCGCTCT
ACGCTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAACCAAAATTTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD14
Sample mark	23RD14-2I
Locality	Tieling City, Liaoning Province, China
Corresponding plant voucher specimen	23RD11
Authenticated	Yes
Remarks	ITS2: 74Y; <i>psbA-trnH</i> : 89K, 90D, 91R, 92R, 93D, 94W, 96W, 98K, 99D, 100N, 101N, 107W, 108W, 109W, 112K, 113R, 114R, 115R, 116D, 117W

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. BI250515

>23RD14-3E ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 212

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

Batch ID. BI250515

>23RD14-3E *psbA-trnH*

CAAGAGGCCGGGCATTGCTCCTGCGTTTTGTTTAAAT
AGTGTATTTATTTGCATTTTCATAATGATTTTTCTTTT
TTTTTTTKRRRDWAWTKDVHYTTTTWWWTKRRRD
WAAAAAAAAAAAAATGACTCGAATGGGGGATTGGT
TGTTGAATTCCTTGATTATCATACTCTCGTCTGTACAT
ATATAACCAATCCAATATAATATGTTCTAAAAAT

Remarks: observation at nucleotide position 84, 85, 86, 87, 88, 89, 91, 93, 94, 95, 96, 97, 102, 103, 104, 105, 107, 108, 109, 110, 111, 112

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250515

>23RD14-3E *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTATACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCGTGTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD14
Sample mark	23RD14-3E
Locality	Tieling City, Liaoning Province, China
Corresponding plant voucher specimen	23RD11
Authenticated	Yes
Remarks	ITS2: 212Y; <i>psbA-trnH</i> : 84K, 85R, 86R, 87R, 88D, 89W, 91W, 93K, 94D, 95V, 96H, 97Y, 102W, 103W, 104W, 105W, 107K, 108R, 109R, 110R, 111D, 112W

Image

Front view



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Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI250515

>23RD14-4A ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCMCGGGCACGG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 64, 212

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

Batch ID. BI250515

>23RD14-4A *psbA-trnH*

ATATGAGTCGTTGAAGTTGCAGGAGTAATACCCCAAT
TCTTGTTCGTCAAGAGGCCGGGCATTGCTCCTGCGTT
TTGTTTTAATAGTGTATTATTTGCATTTTTCATAATGAT
TTTTTCTTTTTTTTTTKRRRDWWWDDNNYTTTTW
WWWTKRRRDWAAAAAAAAAAAAAAAAATGACTCGAATG
GGGGATTGGTTGTGAATTCTTGATTATCATACTCTCG
TTCTGTACATATATAAACCAATCCAATATAATATGTTC
CTAAAAATTT

Remarks: observation at nucleotide position 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 150, 151, 152, 153, 155, 156, 157, 158, 159, 160

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250515

>23RD14-4A *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGCTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD14
Sample mark	23RD14-4A
Locality	Tieling City, Liaoning Province, China
Corresponding plant voucher specimen	23RD11
Authenticated	Yes
Remarks	ITS2: 64M, 212Y; <i>psbA-trnH</i> : 132K, 133R, 134R, 135R, 136D, 137W, 138W, 139W, 140W, 141D, 142D, 143N, 144N, 145Y, 150W, 151W, 152W, 153W, 155K, 156R, 157R, 158R, 159D, 160W

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. BI250515

>23RD14-5A ITS2

CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAGTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 212

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

Batch ID. BI250515

>23RD14-5A *psbA-trnH*

TATGAGTCGTTGAAGTTGCAGGAGTAATACCCCAATT
CTGTCTCTGTCAAGAGGCCGGGCATTGCTCCTGCGTTT
TGTTTTAATAGTGTTTTATTGCAATTTTCATAATGATT
TTTTCTTTTTTTTTTKRRRDWWWDDNNYTTTTWW
WWTKRRRDWAAAAAAAAAAAAATGACTCGAATGG
GGGATTGGTTGTGAATTCTTGATTATCATACTCTCGT
TCTGTACATATATAAACCAATCCAATATAATATGTTC
CTAAAAATTTTGAA

Remarks: observation at nucleotide position 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 149, 150, 151, 152, 154, 155, 156, 157, 158, 159

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250515

>23RD14-5A *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGCTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGCGATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD14
Sample mark	23RD14-5A
Locality	Tieling City, Liaoning Province, China
Corresponding plant voucher specimen	23RD11
Authenticated	Yes
Remarks	ITS2: 212Y; <i>psbA-trnH</i> : 131K, 132R, 133R, 134R, 135D, 136W, 137W, 138W, 139W, 140D, 141D, 142N, 143N, 144Y, 149W, 150W, 151W, 152W, 154K, 155R, 156R, 157R, 158D, 159W

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. BI250515

>23RD14-6B ITS2

CACACAGCGTCGCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
YCGGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGCACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 74, 212

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

Batch ID. BI250515

>23RD14-6B *psbA-trnH*

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WWTKRRRDWAAAAAAAAAAAAATGACTCGAATGG
GGGATTGGTTGTGAATTCTTGATTATCATACTCTCGT
TCTGTACATATATAAACCAATCCAATATAATATGTTC
CTAAAAATTT

Remarks: observation at nucleotide position 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 150, 151, 152, 153, 155, 156, 157, 158, 159, 160

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250515

>23RD14-6B *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAT
CAATATATTTGTTATGTAGCCTACCCTTTAGACCTTTT
TGAAGAAGGTTCTGTACTAACAATGTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGCTCGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGGCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD14
Sample mark	23RD14-6B
Locality	Tieling City, Liaoning Province, China
Corresponding plant voucher specimen	23RD11
Authenticated	Yes
Remarks	ITS2: 74Y, 212Y; <i>psbA-trnH</i> : 132K, 133R, 134R, 135R, 136D, 137W, 138W, 139W, 140W, 141K, 142D, 143V, 144H, 150W, 151W, 152W, 153W, 155K, 156R, 157R, 158R, 159D, 160W

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. BI250515

>23RD14-7A ITS2

CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGG
GACGGAAACTGGCCCCCGAGCCCCCGGGCACGG
CCGGCACAATGTTGGTCCTCGGCGGCGAGCGTCGCG
GTCAGCGGTGGTTGTACCTCACCCCCAAAGACAGA
AACGACGCGCACGCCCTCGCCGACGCAGGCGTAACG
AACCCAGAGAAGCCCTCCCCGAGGGACYTCAACCT
G

Remarks: observation at nucleotide position 212

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

Batch ID. BI250515

>23RD14-7A *psbA-trnH*

TCTACAAATGGCTAAGACTTAGGTCTTAGTGTATGCT
AGTCTTAGTGTATATGAGTCGTTGAAGTTGCAGGAGT
AATACCCCAATTCTTGTTCTGTCAAGAGGCCGGGCAT
TGCTCCTGCGTTTGTTTTAATAGTGTATTTATTTGCATT
TTTCATAATGATTTTTTCTTTTTTTTTTKDRRDWWW
WKDNNTTTTTWWWTKRRRRWAAAAAAAAAAAAA
ATGACTCGAATGGGGGATTGGTTGTTGAATCTTGAT
TATCATACTCTCGTTCTGTACATATATAAACCAATCCA
ATATAATATGTTCTCAAAAATTT

Remarks: observation at nucleotide position 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 198, 199, 200, 201, 203, 204, 205, 206, 207, 208

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI250515

>23RD14-7A *rbcL*

GAGTGTGGCTTCAAAGCAGGTGTTAAAGAGTACAAA
TTGAATTATTATACTCCTGAATATGAAACCAAAGATA
CTGATACCTTGGCGGCATTCCGAGTAACTCCTCAACC
TGGAGTTCCACCTGAAGAAGCAGGGGCTGCTGTAGCT
GCCGAATCTTCTACGGGTACATGGACAACTGTGTGGA
CCGATGGACTTACCAGCCTTGATCGTTACAAAGGACG
ATGCTACCATATCGAGCCCGTTGCTGGAGAAGAAAAAT
CAATATATTTGTTATGTAGCCTACCCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGTTACGCGCTCT
ACGTCTGGAAGATCTGCGAATTCCTGTTGCTTATGTTA
AACTTTCCAAGCCCCGCCTCATGGCATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCCTATTG
GGATGTACTATTAAACCAAAATTGGGCTTATCTGCTA
AGAACTATGGTAGAGCAGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Radix Clematidis
Scientific name	<i>Clematis manshurica</i> Rupr.
Laboratory number	23RD14
Sample mark	23RD14-7A
Locality	Tieling City, Liaoning Province, China
Corresponding plant voucher specimen	23RD11
Authenticated	Yes
Remarks	ITS2: 212Y; <i>psbA-trnH</i> : 180K, 181D, 182R, 183R, 184D, 185W, 186W, 187W, 188W, 189K, 190D, 191N, 192N, 198W, 199W, 200W, 201W, 203K, 204R, 205R, 206R, 207R, 208W

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 *Clematis manshurica* and Chinese Materia Medica (CMM) Radix Clematidis

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>23RD8-1D ITS2
CACACAGCGTCGCCCCCACCAACCCGTTGGCTGGGGGACGGAACTGGCCCCCGAGCCCCCGGGCACGGCC
GGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCGGTCAGCGGTGGTTGTACCCTACCCCCAAAGACAGAAAC
GACGCGCACGCCTCGCCGCACGCAGGCGTAACGAACCCAGAGAAGCCCTCCCCGGAGGGACYTCAACCTG
>23RD10-1H ITS2
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GGCACAAATGTTGGTCCTCGGCGGCGAGCGTCGCGGTCAGCGGTGGTTGTACCCTACCCCCAAAGACAGAAAC
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>23RD11-1H ITS2
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GACGCGCACGCCTCGCCGCACGCAGGCGTAACGAACCCAGAGAAGCCCTCCCCGGAGGGACTTCAACCTG
>23RD12-1J ITS2
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GACGCGCACGCCTCGCCGCACGCAGGCGTAACGAACCCAGAGAAGCCCTCCCCGGAGGGACYTCAACCTG
>23RD12-2E ITS2
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>23RD12-3F ITS2
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>23RD14-3E ITS2
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>23RD14-7A ITS2

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GACGCGCACGCCTCGCCGCACGCAGGCGTAACGAACCCAGAGAAGCCCTCCCCGGAGGGACYTCAACCTG

Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*) sequence of plant voucher specimen of *Clematis manshurica* and Chinese Materia Medica (CMM) Radix Clematidis

>23RD8-1D_psbA-trnH
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