Fact sheet of reference DNA sequences of *Epimedium brevicornu* (淫羊藿)

Summary	**Information**
Scientific name	*Epimedium brevicornu* Maxim.
Type of reference material used for data generation	● Herba Epimedii (淫羊藿)
Chinese Materia Medica (number / locality)	● 20 / Henan 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
Length of DNA barcode	● Nuclear internal transcribed spacer 2 (ITS2) is 247 bp ● Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H) is 515 bp ● Chloroplast ribulose bisphosphate carboxylase large chain (*rbc*L) is 553 bp

Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI260717

>26RD12-1B_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCRGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG
Remarks: observation at nucleotide position 43

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

Batch ID. BI260717

>26RD12-1B_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGARAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

Remarks: observation at nucleotide position 475

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

Batch ID. BI260717

>26RD12-1B_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-1B
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	ITS2: 43R; psbA-trnH: 475R

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. BI260717

>26RD12-2B_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCRGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG
Remarks: observation at nucleotide position 43

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

Batch ID. BI260717

>26RD12-2B_psbA-trnH
MCAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGARAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

Remarks: observation at nucleotide position 1, 475

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

Batch ID. BI260717

>26RD12-2B_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-2B
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	ITS2: 43R; psbA-trnH: 1M, 475R

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. BI260717

>26RD12-3A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCRGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

Remarks: observation at nucleotide position 43

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

Batch ID. BI260717

>26RD12-3A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260717

>26RD12-3A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

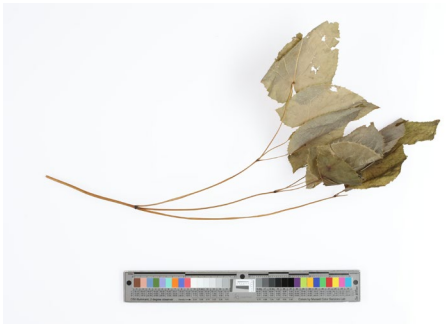
Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-3A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	ITS2: 43R

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. BI260717

>26RD12-4A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCGGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

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

Batch ID. BI260717

>26RD12-4A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260717

>26RD12-4A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-4A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	-

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. BI260805

>26RD12-6A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCRGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

Remarks: observation at nucleotide position 43

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

Batch ID. BI260805

>26RD12-6A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260805

>26RD12-6A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-6A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	ITS2: 43R

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. BI260805

>26RD12-7B_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCRGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

Remarks: observation at nucleotide position 43

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

Batch ID. BI260805

>26RD12-7B_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260805

>26RD12-7B_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-7B
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	ITS2: 43R

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. BI260805

>26RD12-8B_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCRGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

Remarks: observation at nucleotide position 43

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

Batch ID. BI260805

>26RD12-8B_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260805

>26RD12-8B_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-8B
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	ITS2: 43R

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. BI260805

>26RD12-9A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCGGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

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

Batch ID. BI260805

>26RD12-9A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
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CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260805

>26RD12-9A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-9A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	-

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. BI260805

>26RD12-10A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCGGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

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

Batch ID. BI260805

>26RD12-10A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260805

>26RD12-10A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-10A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	-

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. BI260805

>26RD12-11A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCRGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

Remarks: observation at nucleotide position 43

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

Batch ID. BI260805

>26RD12-11A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260805

>26RD12-11A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-11A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	ITS2: 43R

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. BI260805

>26RD12-12A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCRGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

Remarks: observation at nucleotide position 43

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

Batch ID. BI260805

>26RD12-12A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260805

>26RD12-12A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-12A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	ITS2: 43R

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. BI260805

>26RD12-13A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCGGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

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

Batch ID. BI260805

>26RD12-13A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260805

>26RD12-13A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-13A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	-

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. BI260805

>26RD12-14A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCGGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

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

Batch ID. BI260805

>26RD12-14A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260805

>26RD12-14A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-14A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	-

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. BI260806

>26RD12-15A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCGGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

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

Batch ID. BI260806

>26RD12-15A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260806

>26RD12-15A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-15A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	-

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. BI260806

>26RD12-16A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCGGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

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

Batch ID. BI260806

>26RD12-16A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260806

>26RD12-16A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-16A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	-

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. BI260806

>26RD12-18A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCRGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

Remarks: observation at nucleotide position 43

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

Batch ID. BI260806

>26RD12-18A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260806

>26RD12-18A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-18A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	ITS2: 43R

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. BI260806

>26RD12-19A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
TATCRGGCAACTGCAACGTGGCTTGGGAAGCGGATAT
TGGCCCCCCGTACCTTTGTAGGCGCGGCCGGCCTAAA
ATTCGGCCCTCGGCGACGAGCGTCACGATCAGTGGTG
GTTGAATAACCCCTTTGTCATAGACCGGTATCGTGTT
GTTTCGTCGTCTATTTGGGCCATATGGACCCTTGCGTG
TCGTATAAACGACATTCACTCTG

Remarks: observation at nucleotide position 43

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

Batch ID. BI260806

>26RD12-19A_psbA-trnH
ACAACTTCCCGCTAGATCTAGCTGCTGTTGAGGCTCC
ATCTACAAATGGCTAAGACGTAGGTCTTTTTCTATTCA
AGTAATTGAATAATTAAACTTGCATAAGAACGACCCG
CCCTTTTGTAATTGTAAAGAGGTTGGGTCGTTCTTGTG
CATTGAATATTTTTTGCTTCAAACTCACATAGGCATTT
TTTTGCTTTTTCAGGAAAAGTAAAAAAAGCATTACTA
TAACTACCGGATTCATTCTAGATTATCCTAATGTTGTA
TATCTTCGTCAAAATTGTTTCTAATAATTTTTTTATCA
AATTAAAGTGAAAGTTCACTAATTCGTATTAGTGTAT
TGTTTTCGAATGAATAGTCTGTCAATTTTTTTTTTACTT
TTCAAAAAAGTATAAAGAAAAATGAAATGAAAAAAG
TCATGTAATACTAAGTAGAGTGGTAGAGTGGAAATTT
CATTCTTTTGGGTTAAGAAGTTGAGAAATGAAAGGGG
CGGATGTAGCCAAGTGGATTAAGGCAGT

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

Batch ID. BI260806

>26RD12-19A_rbcL
AAGTGTTGGATTCAAAGCGGGTGTTAAAGATTACAAA
TTGACTTATTATACTCCTGACTATGTAACGAAGGATA
CTGATATTTTGGCAGCATTCCGCGTCACTCCTCAACCT
GGAGTTCCACCTGAAGAAGCAGGGGCCGCTGTAGCT
GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
CCGATGGACTTACCAGTCTTGATCGTTACAAAGGACG
GTGCTACCACATTGAGCCTGTTGCTGGAGAAGACAAT
CAATATATTTGTTACGTAGCCTATCCTTTAGACCTTTT
TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
TGGGTAATGTATTTGGGTTCAAAGCGCTGCGCGCTCT
ACGTCTGGAGGATCTGCGAATTCCTGTTGCTTATGTTA
AAACTTTCCAAGGCCCGCCTCATGGTATCCAAGTTGA
GAGAGATAAATTGAACAAGTATGGTCGTCCTCTATTA
GGATGTACTATTAAACCAAAATTGGGATTATCCGCTA
AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-19A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	ITS2: 43R

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. BI260806

>26RD12-20A_ITS2
CGCACAGCGTCGCTCCCACCATGATGCCTTTGTTCTGT
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Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BI260806

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

Batch ID. BI260806

>26RD12-20A_rbcL
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TGAAGAGGGTTCTGTTACTAACATGTTTACTTCTATTG
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AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-20A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	-

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. BI260806

>26RD12-21A_ITS2
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Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H)

Batch ID. BI260806

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

Batch ID. BI260806

>26RD12-21A_rbcL
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GCCGAATCTTCTACAGGTACATGGACAACCGTGTGGA
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AGAACTATGGTAGAGCGGTTTATGAATGTCTC

Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-21A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	-

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. BI260806

>26RD12-22A_ITS2
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Remarks: observation at nucleotide position 70

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

Batch ID. BI260806

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

Batch ID. BI260806

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Reference Detail

Description of reference material	Specimen of Herba Epimedii
Scientific name	*Epimedium brevicornu* Maxim.
Laboratory number	26RD12
Sample mark	26RD12-22A
Locality	Henan Province, China
Corresponding plant voucher specimen	-
Authenticated	Yes
Remarks	ITS2: 70R

Image

Front view



Back view



Reference DNA sequences in FASTA format

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2) sequence of Chinese Materia Medica (CMM) Herba Epimedii

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Chloroplast *psb*A-*trn*H intergenic spacer (*psb*A-*trn*H) sequence of Chinese Materia Medica (CMM) Herba Epimedii

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