

Fact sheet of reference DNA sequences of *Artemisia scoparia* (濱蒿)

Summary	Information
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Type of reference material used for data generation	● Plant voucher specimen ● Herba Artemisiae Scopariae (茵陳)
Plant voucher specimen (number / locality)	● 2 / Chengcheng County, Shaanxi Province, China ● 1 / Neixiang County, Henan Province, China ● 2 / Gangu County, Gansu Province, China
Chinese Materia Medica (number / locality)	● 1 / Chengcheng County, Shaanxi Province, China ● 7 / Neixiang County, Henan Province, China ● 7 / Gangu County, Gansu 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

Summary	Information
	226 bp ● Chloroplast <i>psbA-trnH</i> intergenic spacer (<i>psbA-trnH</i>) is 465 bp ● Chloroplast ribulose biphosphate carboxylase large chain (<i>rbcL</i>) is 553 bp

Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI220224

>22RD22-1A ITS2

CGCATCGCGTCGCCCCACAAATTCTCCGTCAGGGG
AGCTTGTGTTTCGGGGGCGGATACTGGTCTCCCCGTG
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTAGTGGTGGTCGTAACCAACCTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTY
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 186, 207

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

Batch ID. BI220224

>22RD22-1A *psbA-trnH*

ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTTCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI220224

>22RD22-1A *rbcL*

AAGTGTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACCTCTCAACCT
GGAGTTCCGCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACGTGTGGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGCTCGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTTCCAAGGTCCGCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD22
Sample mark	22RD22-1A
Locality	Chengcheng County, Shaanxi Province, China
Corresponding CMM specimen	22RD27
Authenticated	Yes
Remarks	ITS2: 186Y, 207Y

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI220224

>22RD23-1A ITS2

CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTTGTTTCGGGGGCGGATACTGGTCTCCCCGTG
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTAGTGGTGGTCGTAAAAACCTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTY
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 186, 207

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

Batch ID. BI220224

>22RD23-1A_psbA-trnH

ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTTCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI220224

>22RD23-1A_rbcL

AAGTGTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACCTCTCAACCT
GGAGTTCCGCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACGTGTGGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGCTCGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTTCCAAGGTCCGCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD23
Sample mark	22RD23-1A
Locality	Chengcheng County, Shaanxi Province, China
Corresponding CMM specimen	22RD27
Authenticated	Yes
Remarks	ITS2: 186Y, 207Y

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI220224

>22RD25-1A ITS2

CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTGTTTCGGGGGCGGATACTGGTCTCCCCGTGC
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTAGTGGTGGTCGTA AAAACCCCTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BI220224

>22RD25-1A *psbA-trnH*

ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTTAAAAATA
TTTTCTAGTTGGTTCGATTGCGGTGTTTCTCTTTGTA
TTCATATTCATTTATATTATAGGTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI220224

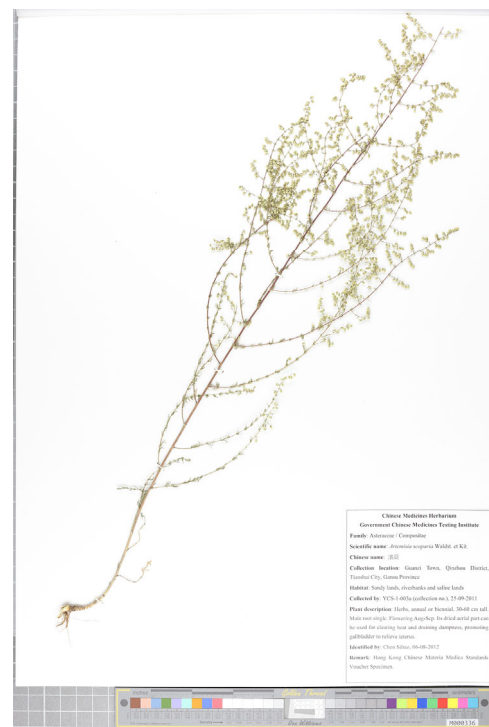
>22RD25-1A *rbcL*

AAGTGTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACCTCAACCT
GGAGTTCCGCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGTCTGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD25
Sample mark	22RD25-1A
Locality	Gangu County, Gansu Province, China
Corresponding CMM specimen	22RD29
Authenticated	Yes
Remarks	ITS2: 207Y

Image



Reference DNA Sequence

Plant Specimen

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI220224

>22RD26-1B ITS2

CGCATCGCGTCGCCCCCACAAATCTCCGTCAGGGG
AGCTTGTTGTTTCGGGGGCGGATACTGGTCTCCCCGTG
TCATGGCGCGGTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTAGTGGTGGTCGTAACCAACCTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BI220224

>22RD26-1B_psbA-trnH

ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTCCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI220224

>22RD26-1B_rbcL

AAGTGTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACCTCAACCT
GGAGTTCCGCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGCTCGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Plant voucher specimen
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD26
Sample mark	22RD26-1B
Locality	Gangu County, Gansu Province, China
Corresponding CMM specimen	22RD29
Authenticated	Yes
Remarks	ITS2: 207Y

Image



Reference DNA Sequence

Chinese Materia Medica (CMM)

DNA Information

Internal transcribed spacer 2 of nuclear ribosomal RNA (ITS2)

Batch ID. BI220224-2

>22RD27-1A ITS2

CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTGTTTCGGGGGCGGATACTGGTCTCCCCGTG
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTCTGGTGGTTCGTAACCACTTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BI220224-2

>22RD27-1A *psbA-trnH*

ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTAAAAATA
TTTTCTAGTTGGTTCGATTTCGCGTGTTTCTCTTGTA
TTCATATTCATTTATATTATAGGTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGCTTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTTATGTTGAGGTAAAAATATAGATAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI220224-2

>22RD27-1A *rbcL*

AAGTGTTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAAGTCTCAACCT
GGAGTTCCGCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAAGTGTGGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCTTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGTCTGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCTGCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD27
Sample mark	22RD27-1A
Locality	Chengcheng County, Shaanxi Province, China
Corresponding plant voucher specimen	22RD22, 22RD23
Authenticated	Yes
Remarks	ITS2: 207Y

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. BI220224-2

>22RD28-1A ITS2
CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTAGTGGTGGTCGTAAAAACCCTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BI220224-2

>22RD28-1A *psbA-trnH*
ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTCCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI220224-2

>22RD28-1A *rbcL*
AAGTGTTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACTCCTCAACCT
GGAGTTCCGCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACGTGTGGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGTCTGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD28
Sample mark	22RD28-1A
Locality	Neixiang County, Henan Province, China
Corresponding plant voucher specimen	22RD24
Authenticated	Yes
Remarks	ITS2: 207Y

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. BI220224-2

>22RD28-2A ITS2
CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTCTGGTGGTTCGTAACCAACCTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BI220224-2

>22RD28-2A_psbA-trnH
ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTTCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI220224-2

>22RD28-2A_rbcL
AAGTGTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACTCCTCAACCT
GGAGTTCCGCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGTCTGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCTGCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD28
Sample mark	22RD28-2A
Locality	Neixiang County, Henan Province, China
Corresponding plant voucher specimen	22RD24
Authenticated	Yes
Remarks	ITS2: 207Y

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. BIC230809

>22RD28-4A ITS2
CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTCTGGTGGTTCGTAACCACTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BIC230809

>22RD28-4A_psbA-trnH
ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTAAAAATA
TTTTCTAGTTGGTTCGATTTCGCGTGTTTCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTTATGTTGAGTTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230809

>22RD28-4A_rbcL
AAGTGTTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACTCCTCAACCT
GGAGTTCCGCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACCTGTGTGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGTCTGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCTGCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD28
Sample mark	22RD28-4A
Locality	Neixiang County, Henan Province, China
Corresponding plant voucher specimen	22RD24
Authenticated	Yes
Remarks	ITS2: 207Y

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. BIC230809

>22RD28-5A ITS2
CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTGTGGTGGTTCGTAACCAACCTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BIC230809

>22RD28-5A *psbA-trnH*
ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTCCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230809

>22RD28-5A *rbcL*
AAGTGTTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACTCCTCAACCT
GGAGTTCCGCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGTCTGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD28
Sample mark	22RD28-5A
Locality	Neixiang County, Henan Province, China
Corresponding plant voucher specimen	22RD24
Authenticated	Yes
Remarks	ITS2: 207Y

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. BIC230809

>22RD28-6A ITS2
CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTGTGGTGGTTCGTAACCAACCTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BIC230809

>22RD28-6A_psbA-trnH
ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTTCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230809

>22RD28-6A_rbcL
AAGTGTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACTCCTCAACCT
GGAGTTCCGCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACGTGTGGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGTCTGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD28
Sample mark	22RD28-6A
Locality	Neixiang County, Henan Province, China
Corresponding plant voucher specimen	22RD24
Authenticated	Yes
Remarks	ITS2: 207Y

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. BIC230809

>22RD28-8A ITS2
CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTCTGGTGGTTCGTAACCAACCTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BIC230809

>22RD28-8A_psbA-trnH
ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTCCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230809

>22RD28-8A_rbcL
AAGTGTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACTCCTCAACCT
GGAGTTCCGCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGTCTGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD28
Sample mark	22RD28-8A
Locality	Neixiang County, Henan Province, China
Corresponding plant voucher specimen	22RD24
Authenticated	Yes
Remarks	ITS2: 207Y

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. BIC230809

>22RD28-9B ITS2

CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTAGTGGTGGTCGTAAAAACCCTSGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTY
AAAAACCCCAACGCGTCGTCCCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 146, 186

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

Batch ID. BIC230809

>22RD28-9B_psbA-trnH

ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTTTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTCCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230809

>22RD28-9B_rbcL

AAGTGTTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACTCCTCAACCT
GGAGTTCCGCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACGTGTGGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGTCTGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD28
Sample mark	22RD28-9B
Locality	Neixiang County, Henan Province, China
Corresponding plant voucher specimen	22RD24
Authenticated	Yes
Remarks	ITS2: 146S, 186Y

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. BI220224-2

>22RD29-1B ITS2

CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTGGTGGTTCGTAACCAACCTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BI220224-2

>22RD29-1B *psbA-trnH*

ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACASAGTTTCTTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTCCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Remarks: observation at nucleotide position 173

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI220224-2

>22RD29-1B *rbcL*

AAGTGTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTTCGAGTAACTCCTCAACCT
GGAGTTCGCGCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGAGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGTCT
ACGTCTGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD29
Sample mark	22RD29-1B
Locality	Gangu County, Gansu Province, China
Corresponding plant voucher specimen	22RD25, 22RD26
Authenticated	Yes
Remarks	ITS2: 207Y; <i>psbA-trnH</i> : 173S

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. BI220224-2

>22RD29-2A ITS2
CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTAGTGGTGGTCGTAAAAACCTCGT
CTTTTGTTCGTGCCGTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BI220224-2

>22RD29-2A_psbA-trnH
ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACAGAGTTCTTTAAAAATA
TTTTCTAGTTGGTTCGATTTCGCGTGTTTCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BI220224-2

>22RD29-2A_rbcL
AAGTGTTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCCTGAGTATGAAACCAAGGATA
CTGATATCTTGCGCAGCATTTCGAGTAACTCCTCAACCT
GGAGTTCCGCCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGTCTGGAAGATTGCGAATTCTACTGCGTATGTT
AAAACCTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD29
Sample mark	22RD29-2A
Locality	Gangu County, Gansu Province, China
Corresponding plant voucher specimen	22RD25, 22RD26
Authenticated	Yes
Remarks	ITS2: 207Y

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. BIC230809-2

>22RD29-5B ITS2
CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTAGTGGTGGTCGTAACCAACCTCGT
CTTTTGTTCGTGCCGTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BIC230809-2

>22RD29-5B *psbA-trnH*
ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACAGAGTTTCTTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTCCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230809-2

>22RD29-5B *rbcL*
AAGTGTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACTCCTCAACCT
GGAGTTCCGCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGTCTGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTTCCAAGGTCCGCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD29
Sample mark	22RD29-5B
Locality	Gangu County, Gansu Province, China
Corresponding plant voucher specimen	22RD25, 22RD26
Authenticated	Yes
Remarks	ITS2: 207Y

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. BIC230809-2

>22RD29-6A ITS2
CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTGTGGTGGTGTGTAACCAACCTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BIC230809-2

>22RD29-6A_psbA-trnH
ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTCCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230809-2

>22RD29-6A_rbcL
AAGTGTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACTCCTCAACCT
GGAGTTCCGCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGCTCGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD29
Sample mark	22RD29-6A
Locality	Gangu County, Gansu Province, China
Corresponding plant voucher specimen	22RD25, 22RD26
Authenticated	Yes
Remarks	ITS2: 207Y

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. BIC230809-2

>22RD29-7A ITS2
CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTCTGGTGGTTCGTAACCAACCTCGT
CTTTTGTTCGTGCCGTTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BIC230809-2

>22RD29-7A *psbA-trnH*
ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATTATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTTAAAAATA
TTTTCTAGTTTGGTTCGATTTCGCGTGTTTCTCTTTGTA
TTCATATTCATTTATATTATAGGTTTGTATATTCTATTC
CAAATTTTTATGAAGTTTGATTCCAATTCAATTTCA
AATCAAAATATATAAAAAATTGCATTTTGTCTATTTAT
TACTTTGATTTCATAAATAAAAAAGAAATAATATGCT
TTTTTTATGTTGAGGTAAAAATATAGATAAATACTAG
ATAGATATATAGTAGAGGGGCGGATGTAGCCAAGTG
GATCAAGGCAGT

Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230809-2

>22RD29-7A *rbcL*
AAGTGTTGGATTCAAAGCTGGGGTTAAAGATTATAAA
TTGACTTATTATACTCCTGAGTATGAAACCAAGGATA
CTGATATCTTGGCAGCATTTCGAGTAACTCCTCAACCT
GGAGTTCCGCCTGAAGAAGCAGGGGCCGAGTAGCT
GCCGAATCTTCTACTGGTACATGGACAACCTGTGTGGA
CCGATGGACTTACGAGCCTTGATCGTTACAAAGGGCG
ATGCTATGGAATTGAGCCTGTTCTGGAGAAGAGAAT
CAATATATTTGCTATGTAGCTTACCCATTAGACCTTTT
TGAAGAAGGTTCTGTTACTAACATGTTTACTTCCATTG
TAGGTAACGTATTTGGTTTCAAAGCCCTGCGTGCTCT
ACGTCTGGAAGATTGCGAATTCCTACTGCGTATGTT
AAAACCTTCCAAGGTCCGCCTCACGGTATCCAAGTTG
AAAGAGATAAATTGAACAAGTATGGTCGTCCTCTGTT
GGGATGTACTATTAAACCTAAATTGGGGTTATCCGCT
AAAAACTACGGTAGAGCTGTTTATGAATGTCTT

Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD29
Sample mark	22RD29-7A
Locality	Gangu County, Gansu Province, China
Corresponding plant voucher specimen	22RD25, 22RD26
Authenticated	Yes
Remarks	ITS2: 207Y

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. BIC230809-2

>22RD29-8B ITS2

CGCATCGCGTCGCCCCCACAAATTCTCCGTCAGGGG
AGCTTGTTTCGGGGGCGGATACTGGTCTCCCGTGC
TCATGGCGCGGTGGCCGAAATAGGAGTCCCTTCGAT
GGACGCACGAAGTAGTGGTGGTCGTAACCAACCTCGT
CTTTTGTTCGTGCCGTAGTCGCGAGGGAAGCTCTTC
AAAAACCCCAACGCGTCGTCYCTTGACGGCGCTTCGA
CCG

Remarks: observation at nucleotide position 207

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

Batch ID. BIC230809-2

>22RD29-8B *psbA-trnH*

ATAATTTCCCTCTAGACTTAGCTGCTATTGAAGCTCCA
TCTACAAATGGATAAGACTTTGGTCTGATTGTATAGG
AGTAGTTTTGAAGTAAAAAGGAGCAATAGCTTTCC
TCTTGTATATCAAGAGGTCGTTATTGCTCCTTTTTTA
TTAGTACTATTGGCCTTACACAGTTTCTTTAAAAATA
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Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230809-2

>22RD29-8B *rbcL*

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Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD29
Sample mark	22RD29-8B
Locality	Gangu County, Gansu Province, China
Corresponding plant voucher specimen	22RD25, 22RD26
Authenticated	Yes
Remarks	ITS2: 207Y

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. BIC230809-2

>22RD29-9A ITS2
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Remarks: observation at nucleotide position 197, 207

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

Batch ID. BIC230809-2

>22RD29-9A_psbA-trnH
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Chloroplast ribulose biphosphate carboxylase large chain (*rbcL*)

Batch ID. BIC230809-2

>22RD29-9A_rbcL
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Reference Detail

Description of reference material	Specimen of Artemisiae Scopariae Herba
Scientific name	<i>Artemisia scoparia</i> Waldst. et Kit.
Laboratory number	22RD29
Sample mark	22RD29-9A
Locality	Gangu County, Gansu Province, China
Corresponding plant voucher specimen	22RD25, 22RD26
Authenticated	Yes
Remarks	ITS2: 197R, 207Y

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 *Artemisia scoparia* and Chinese Materia Medica (CMM) *Herba Artemisiae Scopariae*

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Chloroplast *psbA-trnH* intergenic spacer (*psbA-trnH*) sequence of plant voucher specimen of *Artemisia scoparia* and Chinese Materia Medica (CMM) Herba Artemisiae Scopariae

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Partial chloroplast ribulose biphosphate carboxylase large chain (*rbcL*) sequence of plant voucher specimen of *Artemisia scoparia* and Chinese Materia Medica (CMM) Herba Artemisiae Scopariae

>22RD22-1A_rbcL

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