

## Specimen Details Current

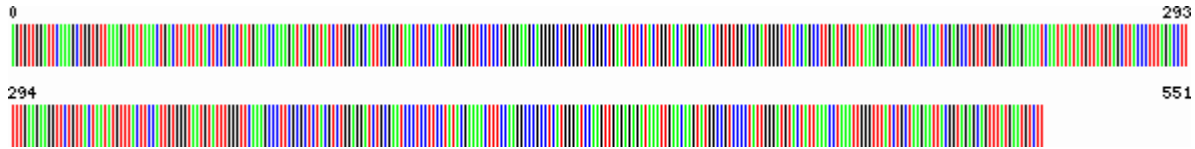
**Sample ID:** NIBGE-GCUBG-108  
**Process ID:** GCUBG108-11  
**Project:** GCUBG  
**Tax Names:** Magnoliophyta, Magnoliopsida, Myrtales, Myrtaceae, Callistemon, Callistemon citrinus  
**Taxon:** Callistemon citrinus  
**Rank Name:** species  
**Sampling Protocol:** N/A  
**BIN URI:** N/A  
**Kingdom:** Plantae

## Marker Summary

Marker Code	Sequence Length	GC	Ambiguous	Trace Count
rbcLa	552	42.8%	0%	2
matK	870	28.9%	0%	2
trnH-psbA	543	27.8%	0%	2

## rbcLa

### Illustrative Barcode



### Nucleotide Sequence

```

AGTGTGGATTCAAAGCTGGTGTAAAGATTATAAACTGACTTATTATACTCCTGACTATGAAACCAA
GATACTGATATCTTGGCAGCATCCGAGTAACCTCAACCTGGAGTTCCCTGAGGAAGCAGGGGCT
CGGTAGCGGCTGAATCTTCTACTGGTACATGGACAACCTGTGGACCGATGGCTTACAGCCTTGAT
CGTTATAAAGGAAGATGCTACCACATCGAGCCTGTTGCTGGAGAAGAAAATCAATATATGTTATGTA
GCTTACCCCTTAGACCTTTTGAAGAAGGTTCTGTTACTAATATGTTACTTCCATTGTTGGTAATGTA
TTTGGGTTCAAAGCCCTTCGCGCTCTACGCTCTGGAGGATCTGCGAATCCCTCCTTCCATACGAAAACT
TTCCAAGGCCCGCCTCATGGGATCCAAGTTGAGAGAGATAAATTGAACAAGTATGGCCGTCCCTATTG
GGATGACTATTAAACCTAAATGGGTTTATCTGTAAGAATTACGGTAGAGCAGTTTATGAATGTTT
    
```

### Sequence Metadata

**Genbank Accession:** N/A  
**Translation Matrix:** Standard Code  
**Last Updated:** 2012-10-09 11:51:36.510645  
**Sequence Runsite:** Biodiversity Institute of Ontario

### Amino Acid Sequence

```

SVGFKAGVKDYKLTYYTPDYETKDTDILAAFRVTPQGPVPEEAGAAVAASSTGTTWTWDGLTSLD
RYKGRYHIIEPVAGEENQYICYVAYPLDLFEESVTNMFSTIVGNVFGFKALRALRLEDLRIPPSYTKT
FQGPPIQVERDKLNKYGRPLLGCITKPKLGLSAKNYGRAVYECL
    
```

### rbcLa Tags & Comments

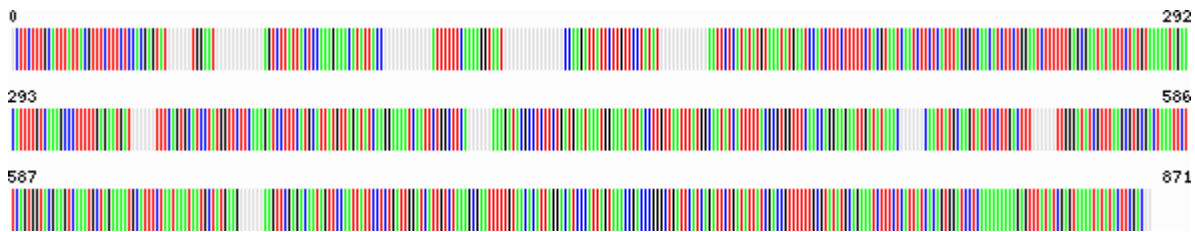
**Sequencing Date** 2011-06-10 08:12:44  
**Trace Direction** F  
**Forward Primer** rbcLa-F  
**Reverse Primer** rbcLa-R  
**Sequence Primer** rbcLa-F  
**Status** high qual  
**Trace Runsite** Biodiversity Institute of Ontario

**Sequencing Date** 2011-06-10 09:53:13  
**Trace Direction** R  
**Forward Primer** rbcLa-F  
**Reverse Primer** rbcLa-R  
**Sequence Primer** rbcLa-R  
**Status** high qual  
**Trace Runsite** Biodiversity Institute of Ontario



**matK**

**Illustrative Barcode**



**Nucleotide Sequence**

```
-CTTCTTTGCATTATTACGTTCTCTCCACGAGTAT-----TGGAAT-----AGTCTT
ATTACTCAAAGAAACATATTACC-----ATTTTTTCAAAGGTAAT-----
CCAAGATTATCTTGTTCCATAT-----AATTCTCATATATGAAATATGAATCCATCTT
CTTTTCTACGTAATCAATCTTCTATTACGGTCAACATCTCTGGAATCTTTTGAGCGAATAT
TTCTATGTAAAATAGAACATTTGTCAAAGCCCTTTTGAGAAATGAT-----TTTCAGTGCATCCTA
TGTTCTTCAAAGATCCTTTTCATGCATTATGTAGATATCAAGGAAAATCAATCTGGCTTCA-----
AAAGATACGCCTCTCTGATGAATAAATGGAAATATTACCTGTTAATTTATGGCAATATCATTTTAC
GGTGGTTTCAACCAGGAAGAATTGATAAACC-----CAATTATGCAAGTATTCTCTTGACTTT---
--TTGGGATACGTTTAAAGCGTGGACTAAATCTTCAGTGGTACGAAGTCAAATGTAGAAAAATGCA
TTTCTAATAAATAATGCATGAAG-----AAGTTCGAGACAATAGTTCCAATTATTCCTCTGATTGGA
TCATTGTCTAAAGCGAATTTTGTAAACACATTAGGACATCCCATTAGTAAACCGACCCGGGCTGATTCA
TCAGATTCTGATATTATCGACCGTTTTTGGCGTATATGCAGAAATCTTCTCATTATCACAGTGGATCC
TCAAAAAAAGAGTTTATATCGAGTAAAATATATACTTCGAC--
```

**Sequence Metadata**

**Genbank Accession:** N/A  
**Translation Matrix:** Standard Code  
**Last Updated:** 2011-07-11 15:39:57.799741  
**Sequence Runsite:** Biodiversity Institute of Ontario

**Amino Acid Sequence**

```
SLHLLRFFLHEY--WN---SLITPKKHIT----IFS KGN-----PRLFLFLY-----NSHICKYESIFL
FLRNQSSHLRSTSSGIFFERIYFYVKIEHFVKALFEND--FQCILWFKDFPMHYVRYQKKSILAS--K
DTPLLMNKWKYYLVNLWQYHFYAWFQPRIDIN--QLCKYSLDF--LGYRLSVRLNSSVVRSSQMLENAF
LINNAMK--KFETIVPIIPLIGLSKANFNCNTLGHPIPKPTRA DSSDSDIIDRFLICRNL SHYHSGSS
KKKSLYRVKYLIRX
```

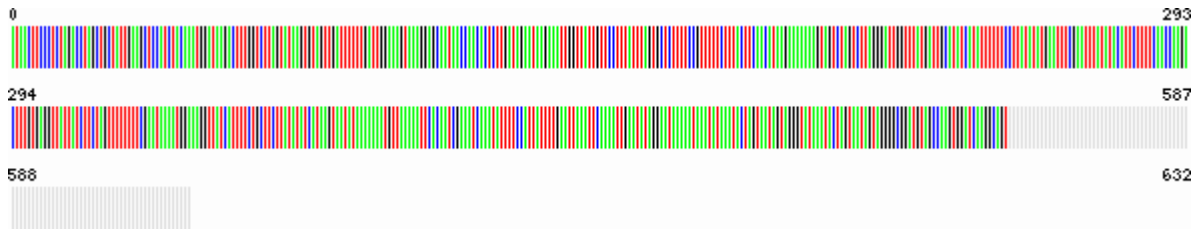
**matK Tags & Comments**

<b>Sequencing Date</b>	2011-07-06 03:19:00	<b>Sequencing Date</b>	2011-07-06 04:54:13
<b>Trace Direction</b>	R	<b>Trace Direction</b>	F
<b>Forward Primer</b>	MatK-1RKIM-f	<b>Forward Primer</b>	MatK-1RKIM-f
<b>Reverse Primer</b>	MatK-3FKIM-r	<b>Reverse Primer</b>	MatK-3FKIM-r
<b>Sequence Primer</b>	MatK-3FKIM-r	<b>Sequence Primer</b>	MatK-1RKIM-f
<b>Status</b>	high qual	<b>Status</b>	high qual
<b>Trace Runsite</b>	Biodiversity Institute of Ontario	<b>Trace Runsite</b>	Biodiversity Institute of Ontario



**trnH-psbA**

**Illustrative Barcode**



**Nucleotide Sequence**

```

ATAACTTCCCTCTAGACCTAGCTGCTATTGAAGCTCCATCTACAAATGGATAAGACTTTGGTCTTAGTA
TAAGTGATGTGATTTTTGATTGGAAAGTAAAGGAGCAATAACCAACACTCTTGATAGAATAAGAAAT
TGGTTATGTTCCCTTATTTAGTGTCTTTCCGTTTTCTTACTTCAACATAAGAAAAAAGTAGTC
TAGTCTTAGGGATTGGTTATGATTGCATATCATATTTTTCCCTTATATGAATTCGAATTTATATA
CATTTCTTCAACCAAGACTTTGTGAGGTTTATCTTCTAGTTTTTTTCGAATAAAATGGAAAGGTT
ATCATTTCTGCTTCTTATATATCATAAGTAATATAAAAAAATGTAATAAAATCACAAATCGAAATCAAA
TATTTCCATATTTGAATTAATTAATAAATGAATATAGGAATAAAAAATAAATAAATACTAGTAA
TAGTAGGGTATAAATACTAGTAATAGTAGGGCCGGATGTAGCCAAGTGGATCAAGGCAGT-----
-----

```

**Sequence Metadata**

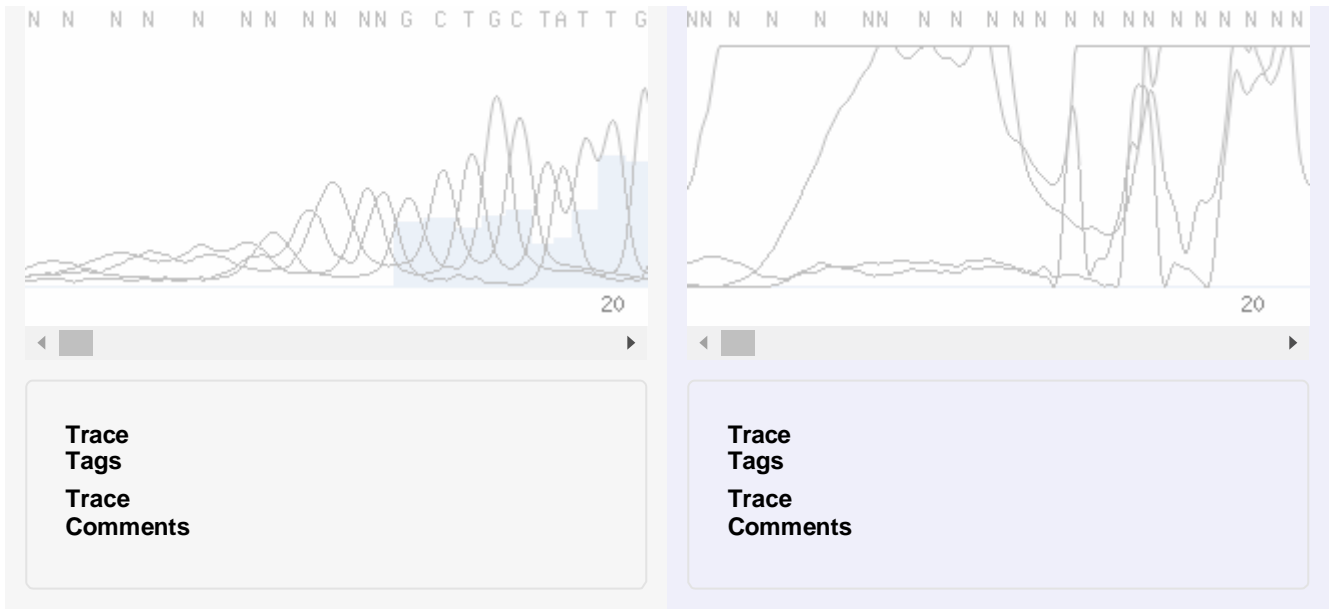
**Genbank Accession:** N/A  
**Translation Matrix:** N/A (Non-coding marker)  
**Last Updated:** 2018-12-03 14:59:01.010977  
**Sequence Runsite:** Centre for Biodiversity Genomics

**Amino Acid Sequence**

Not available

**trnH-psbA Tags & Comments**

<b>Sequencing Date</b>	2018-11-23 20:10:32	<b>Sequencing Date</b>	2018-11-23 13:14:49
<b>Trace Direction</b>	F	<b>Trace Direction</b>	R
<b>Forward Primer</b>	psbA3_f	<b>Forward Primer</b>	psbA3_f
<b>Reverse Primer</b>	trnHf_05	<b>Reverse Primer</b>	trnHf_05
<b>Sequence Primer</b>	psbA3_f	<b>Sequence Primer</b>	trnHf_05
<b>Status</b>	high qual	<b>Status</b>	high qual
<b>Trace Runsite</b>	Centre for Biodiversity Genomics	<b>Trace Runsite</b>	Centre for Biodiversity Genomics



Sample Report From LIMS



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