

# DACTYLOPIUS IDENTIFIER

Created by Clarke van Steenderen

1

The user can choose from 4 gene databases, or upload their own in FASTA format

Select File

Own file upload

12S.fas

18S.fas

COI(DTOM).fas

COI(PCOFI).fas

Own file upload

User manual



## DACTYLOPIUS IDENTIFIER

### USER GUIDE

Created by:

Clarke van Steenderen

Department of Zoology and Entomology

The Centre for Biological Control

Rhodes University, Grahamstown, Eastern Cape, South Africa

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e-mail: [vsteenderen@gmail.com](mailto:vsteenderen@gmail.com)

### OVERVIEW

This program is designed for the quick identification of *Dactylopius* species (Hemiptera: Dactylopiidae), but can be applied to any taxon if the relevant database of genetic sequences is supplied. The user can either upload a database of their choice, or can select from those provided under the 'Select File' drop down menu (12S, 18S, and two COI markers). The sequences provided were obtained by Clarke van Steenderen as part of his M.Sc. degree, under the supervision of Dr. Iain Paterson and Dr. Shelley Edwards. A query nucleotide sequence is entered into the search box, and a phylogenetic tree is created where the query sequence is matched to the database, and highlighted in red.

### UPLOADING YOUR OWN FILE

Click to view the help file: ?

Upload a .fas file

Browse...

No file selected

Select File

Own file upload

Enter sequence name:

QUERY

Enter nucleotide sequence:

AAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAAAAAAAAAAAAAAAAA

2

Query sequence input

Distance correction method

Jukes-Cantor

none

Jukes-Cantor

Distance correction method

Jukes-Cantor

Agglomeration method

UPGMA

3

Submit

Agglomeration method

UPGMA

complete

single

UPGMA

WPGMA

NJ

ML

0.4 0.3 0.2 0.1 0.0

Query sequence shown in red. Its placement is relative to the selected database

CVS 013 12  
CVS 035 12  
CVS 134 12  
CVS 135 12  
CVS 136 12  
CVS 226 12  
CVS 227 12  
CVS 228 12  
P254-green  
VS149K-gre  
CVS 034 12  
CVS 176 12  
CVS 175 12  
CVS 172 12  
CVS 164 12  
CVS 180 12  
CVS 181 12  
P254-green  
P352-green  
P351-green  
CVS 171 12  
CVS 172 12  
CVS 242 12  
CVS 243 12  
CVS 244 12  
CVS 128 12  
CVS 131 12  
CVS 130 12  
CVS 129 12  
CVS 132 12  
CVS 161 12  
CVS 162 12  
CVS 256 12  
H4 12  
H1 12  
AL3 12  
AL2 12  
CVS 133 12  
CVS 173 12  
CVS 174 12  
CVS 033 12  
CVS 077 12  
CVS 080 12  
CVS 082 12  
CVS 084 12  
CVS 160 12  
CVS 170 12  
BCCS1-gre  
BCCS4-gre  
BCCS2-gre  
P252-green  
VS152H-gre  
VS154H-gre  
Ala2 12  
op4 12  
op3 12  
op1 12  
JC3 12  
JC2 12  
eng1 12  
Ala 12  
CVS 014 12  
CVS 079 12  
CVS 081 12  
CVS 083 12  
CVS 085 12  
CVS 163 12  
CVS 187 12  
VS151H-gre  
P151-green  
P184-green  
CVS 078 12  
P153-green  
VS146K-gre  
eng4 12  
CVS 072 12  
CVS 073 12  
CVS 074 12  
CVS 075 12  
CVS 076 12  
CVS 182 12  
CVS 183 12  
CVS 188 12  
CVS 088 12  
CVS 091 12  
CVS 089 12  
CVS 090 12  
CVS 184 12  
CVS 185 12  
CVS 087 12  
CVS 177 12  
CVS 178 12  
CVS 179 12  
CVS 032 12  
CVS 031 12  
CVS 140 12  
CVS 146 12  
cey4 12  
cey3 12  
cey2 12  
CVS 030 12  
CVS 258 12  
CVS 003 12  
CVS 029 12  
CVS 145 12  
CVS 257 12  
Au4 12  
Au3 12  
Au1 12  
KJ701959.1  
KJ701960.1  
KJ701961.1  
KJ701962.1  
KJ701963.1  
CVS 039 12  
CVS 016 12  
CVS 038 12  
CVS 149 12  
CVS 150 12  
imb4 12  
imb3 12  
imb2 12  
imb1 12  
CVS 237 12  
CVS 238 12  
CVS 240 12  
CVS 241 12  
Cal4 12  
Cal3 12  
Cal2 12  
Cal1 12  
ech4 12  
ech3 12  
ech2 12  
ech1 12  
cy3 12  
cy2 12  
Bog3 12  
CVS 037 12  
CVS 015 12  
CVS 147 12  
CVS 295 12  
CVS 236 12  
Ekhe 12  
Ekho 12  
Ekha 12  
chola 12  
chol3 12  
chol1 12  
QUERY