



## CHLOROBOX

## GeSeq

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## GeSeq - Annotation of Organellar Genomes

GeSeq has been developed for a rapid and accurate annotation of organelle genomes, in particular chloroplast genomes.

Please take a look at our [documentation](#) which includes a quickstart section.

*Citations keep this server running. If you use GeSeq please cite:*

Tillich M, Lehwark P, Pellizzer T, Ulbricht-Jones ES, Fischer A, Bock R and Greiner S (2017) GeSeq – versatile and accurate annotation of organelle genomes. *Nucleic Acids Research* 45: W6-W11

Hover over buttons for tips. To load an example job, press "Example" in the "Actions" field.

FASTA file(s) to annotate

1 file in list

Upload File(s)

OX359234.1.fna

☒ Circular
☐ Linear

Sequence source  
☒ Plastid (land plants)
☐ Plastid (algae)
☐ Mitochondrial

Annotation Options  
☒ Annotate plastid Inverted Repeat (IR)  
☒ Annotate plastid trans-spliced *rps12*

Annotation Support  
☒ Support annotation by Chloë  
☐ Support annotation by MFannot

Annotation revision  
☒ Keep best annotation only  
☐ Keep all annotations

BLAT search

Protein search identity  
25

rRNA, tRNA, DNA search identity  
85

Annotate  
☒ CDS
☒ tRNA
☒ rRNA

Options  
☒ Ignore genes annotated as locus tag  
☐ Ignore genes annotated as ORFs

☐ HMMER profile search

3rd Party tRNA annotators  
☒ ARAGORN v1.2.38

Genetic code  
Standard

Max intron length  
3000 bp

Options  
☐ Allow overlaps  
☐ Fix intron  
☐ Report low scoring tRNAs

☐ ARWEN v1.2.3

☒ tRNAscan-SE v2.0.7

BLAT Reference Sequences

3rd Party References  

Add NCBI RefSeq(s)

Mesua ferrea

Manihot esculenta

Ricinus communis

MPI-MP Reference Set  
☒ chloroplast land plants (CDS + rRNA)

User References  
GenBank/EMBL  
0 files in list

Upload File(s)

FASTA Nucleotide (CDS)  
0 files in list

Upload File(s)

FASTA Nucleotide (tRNA, rRNA, primer, other DNA or RNA)  
0 files in list

Upload File(s)

3rd Party Stand-Alone Annotators  
☒ Chloë v0.1.0

Chloroplast land plants  
Annotate  
☒ CDS
☒ tRNA
☒ rRNA

☐ MFannot v1.34

Output Options

☒ Generate multi-GenBank  
☒ Generate multi-GFF3  
☒ Generate multi-GBSON

Actions  

Submit

Reset

Example

☒ I have read and accept the Disclaimer

Results

GeSeqJob-20240601-130556

ID gs\_job\_6666ace142304

Status: finished

OX359234.1-Mercurialis-annua-genome-assembly%2C-organelle:-plastid:chloroplast

Primary Output Annotation Tools

Chloë v0.1.0
ARAGORN v1.2.38
tRNAscan-SE v2.0.7
blatX
blatN

Annotation

GenBank
GFF3
GFF3 + FASTA
GBSON

Visualization

OGDRAW

CHLOROBX

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Search mode  
Default

Genetic Code  
Universal

Cut-off score for reporting tRNAs  
15

Score and report output options

- ☒ Disable pseudogene checking
- ☐ Display detailed prediction output
- ☐ Show origin of first-pass hits
- ☐ Show primary and secondary structure components to scores

Chlorobox 2021

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- GBSON
- ISE-G 2015
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