Prepared by Cameron McPherson
(Research Assistant, Lamp Lab, 2021-2022)

Using NCBI Blast to ID sequences

Navigate to the NCBI Nucleotide blast homepage

Select "Choose File" to upload your consensus sequence

Scroll to the bottom of the page and make sure "Highly similar sequences" is selected

Click on BLAST
Your results will be found here

Downloading a sequence from GenBank

Navigate to the NCBI GenBank website and enter species along with gene of interest in search bar

Click on search

Scroll down to results and pick the entry you want to download

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☐ 1. **Ailanthus altissima** voucher bal30 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit **(rbcL) gene, partial cds; chloroplast**
552 bp linear DNA
Accession: MF694658.1 GI: 1474380175
Taxonomy
GenBank FASTA Graphics

☐ 2. **Ailanthus altissima** clone Kb28 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit **(rbcL) gene, partial cds; chloroplast**
713 bp linear DNA
Accession: MH536595.1 GI: 1561762343
Taxonomy
GenBank FASTA Graphics PopSet

☐ 3. **Ailanthus altissima** chloroplast ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit **(rbcL) gene, complete cds**
1,428 bp linear DNA
Accession: U02726.1 GI: 433094
Taxonomy
GenBank FASTA Graphics

☐ 4. **Ailanthus altissima** voucher H. George s.n., CM atpB-**rbcL** intergenic spacer, partial sequence; and ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit **(rbcL)** gene, partial cds; chloroplast
744 bp linear DNA
Accession: JX307353.1 GI: 476002269

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🔍 Ailanthus altissima rbcl (31)
Nucleotide

📄 Entry into the Endoplasmic Reticulum: Protein Translocation, Folding and Quality...

📄 Implementation of Plasma Fractionation in Biological Medicines Production

📄 Physiology, Blood Plasma - StatPearls

📄 Zanthoxylum simulans isolate AA20 tRNA-Leu (trnL) gene, intron; chloroplast Nucleotide

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Ailanthus altissima voucher bal30 ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit (rbcL) gene, partial cds; ch

GenBank: MF694658.1

FASTA Graphics

Go to: ☑

```
LOCUS       MF694658                552 bp    DNA     linear   PLN 15-SEP-2018
DEFINITION  Ailanthus altissimus voucher bal30 ribulose-1,5-bisphosphate
            carboxylase/oxygenase large subunit (rbcL) gene, partial cds;
            chloroplast.
ACCESSION   MF694658
VERSION     MF694658.1
KEYWORDS    .
SOURCE      chloroplast Ailanthus altissimus
  ORGANISM  Ailanthus altissimus
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliopsida; eudicotyledons; Gunneridae;
            Pentapetalae; rosids; malvids; Sapindales; Simaroubaceae;
            Ailanthus.
REFERENCE   1  (bases 1 to 552)
  AUTHORS   Tahir,A. and Jamil,A.
  TITLE     DNA barcoding and phylogenetic analysis of indigenous medicinal
            plants of Pakistan
  JOURNAL   Unpublished
REFERENCE   2  (bases 1 to 552)
  AUTHORS   Tahir,A. and Jamil,A.
  TITLE     Direct Submission
```

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○ Coding Sequences
○ Gene Features

Choose Destination
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○ Collections   ○ Analysis Tool

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Recent activity

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📄 Ailanthus altissima voucher bal30 ribulose-1,5-bisphosphate carboxylase/oxyge Nucleotide

🔍 Ailanthus altissima rbcl (31)
Nucleotide

📄 Entry into the Endoplasmic Reticulum: Protein Translocation, Folding and Quality...

Finally, select "Create File" to download the sequence as a .fasta file