

GeneVision Analysis Report

File name: genevision_report_2025-04-26.pdf

Generation date: April 26, 2025

User: Mariem

1. General Information

Analyzed sequence: Available in appendix

Predicted genes: Available in appendix

Protein sequences: Available in appendix

Tools used:

- Gene prediction: AUGUSTUS
- Functional annotation: DeepGOPlus + QuickGO
- Structural modeling: ESMAtlas

2. Sequence Data

- Number of predicted genes: 1
- Number of protein sequences: 1
- Total input sequence length: 2344 bp

3. Results Summary

Gene ID	Position	Score	GO Term	Function	Description
gene1	445 - 1848	0.87	GO:0005575	cellular_component	A macromolecular machine's location within a cell, like on the cell membrane or inside a mitochondrion. This location can also include virus parts or large protein complexes.

Appendix - Sequence Contents

A1. Input Sequence

```
>input_sequence
AGCGGGCGGGCGGTTCGTGGGCGGGGTTGCAGGCGAGGCTCAACGAACGCTGGTCTGACCGT
CGGCGCTCCCTGTTGCCGGGCCCTGAGCAAGTGGCTTCATGAACCCCGTGACGTTGGCCA
TGGAGATAAGACCACTGGGTGATGGTTTAAGGAAGATAACGTGTAAAGGGCTAAGGACTG
TCGGTGGAAATCAGGGGTGCAGGAGAAATGGATAAACAGCCAGAGGTCAACTCGGACTTT
GTACATAGGACATGGTGCCAGGCCCTGCCAGGAAGTGCAGATCGAAGCTAGGCTCACGAG
GAGGCTGGAGGTGGGGGGTGGGGAGGCAACGGATGGACATGGACTTCCTGGGCTGGGCTC
TGTGACAGCAGAGTAGACTCTGTCTGGGACTTGGTGGTGCTACCCCTTGGCCTCCACAG
TCCTGCCACCCTGTCTGCCGCCACCATGTCTGCCCCCTGGGACTGCGACCCCTTGACTCTG
CTCCTGGCAGCTGGCTCGCTGGGCCAGAAGCCTCAGAGGCCACGCCGGCCCCGCATCCCCC
ATCAGCACCATCCAGCCCAAGGCCAATTTTGATGCGCAGCAGGTAGAAGTTGGGGGGGGT
AGAGGGAGGCAGGTAGAAGTTGTGGGAGGGGTAGAGGGAGACAGGTAGAAGTTGTTGCGG
GGGAGAGGGAAGCAGGTGAAGTTGTGGGGGGTGTAGAGGGAAGCAGGTGAGGGGGCCCTCC
CACAGTGCCCTCGAGTTCTCCCATGGTCTGCCCCCAGTTTGACAGGGACCTGGCTCCTTGT
GGCTGTGGGCTCCGCTTGCCGTTTCTGTGAGGAGCAGGGCCACCGGGCCGAGGCCACCAC
ACTGCATGTGGCTCCCCAGGGCACAGCCATGGCTGTGAGTACCTTCCGAAAGCTGTGAGT
CCCAGAGCAGCCCTGCACCCTAACCCCAACCCCTCCTCTCAGCCCCCGGACTTCAGCCCTG
CTCTGGCCCCCTGACCCCCACCCCGGCTGTGGCCTGGACTAGGATTCTTGTTGGGGTCTCC
CAGCCTGTGGTGCCTCCTCCCCGCCCCCCCCAGGGATGGGATCTGCTGGCAGGTGCGCCAG
CTCTATGGAGACACAGGGGTCTCTCGGCCGCTTCTGCTTCAAGGTGAGGCAGGGGCTGCA
GGTCATGTGGGTGGGGGATGACGCAGCCACTGTGGCTCTCTGACATGGCTACTGTGGCTC
TGCCCAGCCCGAGGCGCCCGAGGGGCTGTGCACGTGGTTGTGCTGAGACCGACTACCAG
AGTTTCGCTGTCTGTACCTGGAGCGGGCGGGGCAGCTGTGAGTGAAGCTCTACGGTATG
TGGGGGCCAGCCTCTGTGACCAGGCAGGCGCTCAAGCTCTGCACACTCACTGGGCCACCC
CGAGGGGCTGGGTGAGCCATGGGGACACACTTCTTTCTCCCATCCTGATCCTCCTGCTA
AGCAGGGGCCCAGGGAGTAGTGACAGACAGGCCTGGTGTGGGAGCAGGGAGGAGGGCCCC
GAGGGGCAGGGGACACACAGACACCCCGTTCCAGAGCCCTCCACGCCCGCTGGTGCCAGGA
CCCCAGGAACCCTGTCTGCCCTGCAGCCCGCTCGCTCCCTGTGAGCGACTCGGTCTGAG
TGGGTTTGTAGCAGCGGGTCCAGGAGGCCACCTGACTGAGGACCAGATCTTCTACTTCCC
CAAGTACGGTGAGTGTCCCCAGCAGGTCCCCAGCTCAGCCACCCCCACTCTCTGGCTGAT
GTCCAGCCTGACCCCTGCCTTGGCGCCCCAGGCTTCTGCGAGGCTGCAGACCAGTTCCAC
GTCCTGGACGGTGAGTGACAGCGGGGGCAAGCATGGCGGCGTGGTGAGGGGGGCCACTC
GCACCGGCTGAGTCTCGTCTCTGCTGTCAGAAAGTGAGGAGGTGAGGCCGGGCACACAGTCC
AGTGCTGAGAAGTCAGTGCCCCGAGAGACGACCCACCAGTGGGGTGCCCGCTGCCCTGTC
CTCCGTGAAACCAGCCTCAGATCAGGGCCCTGCCACCCAGGGCAGGGGATCTTCTGCCGG
CTGCCCCAGAGGACAGTGGGTGGAGTGGTACCTACTTATTAATGTCTCAGACCCCTCTC
TGACTCTTCTGTCCACTCTGGACCGGCGCCAGTACCACCAAGGCCCTCTCTGCCCCCACC
CCGCTCTTTAAAGCCCGGCGCTCCCTGTTGGCTGGAGTCCACGCAGGGTCACTGGGCC
GATTTTCGGCTCTTGGGATTTGGGAGGGGAGATCCTCTCTGGCATATGCCATCTTGTGCC
TGCTGGACCTGGGGGCGTCCACGTCACTCCAAGGCTGCTCTTGCTGGGCCATGCCTGCA
GCCC
```

A2. Predicted Genes

```
>gene1
ATGCTGCCCCCTGGGACTGCGACCCCTTTGACTCTGCTCCTGGCAGCTGGCTCGCTGGGC
CAGAAGCCTCAGAGGCCACGCCGGCCCGCATCCCCATCAGCACCATCCAGCCCAAGGCC
AATTTTGATGCGCAGCAGGAGCAGGGCCACCGGGCCGAGGCCACCACACTGCATGTGGCT
CCCCAGGGCACAGCCATGGCTGTGAGTACCTTCCGAAAGCTGGATGGGATCTGCTGGCAG
GTCCGCCAGCTCTATGGAGACACAGGGGTCTCTGGCCGCTTCTGCTTCAAGCCCCGAGGC
GCCCCGAGGGCTGTGCACGTGGTTGTGCTGAGACCGACTACCAGAGTTTCGCTGTCTCTG
TACCTGGAGCGGGCGGGCAGCTGTGAGTGAAGCTCTACGCCCCGCTCGCTCCCTGTGAGC
GACTCGGTCTGAGTGGGTTTGTAGCAGCGGGTCCAGGAGGCCACCTGACTGAGGACCAG
ATCTTCTACTTCCCCAAGTACGGCTTCTGCGAGGCTGCAGACCAGTTCCACGTCTTGAC
GGTGAGTGACAGCGGGGCAAGCATGGCGGCGTGGTGA
```

A3. Protein Sequences

```
>gene1
MLPPGTATLLTLLLAAGSLGQKPQRPRRPASPISTIQPKANFDAQQEQGHRAEATTLHVA
PQGTAMAVSTFRKLDGICWQVRQLYGDTGVLGRFLLQARGARGAVHVVAETDYQSFAVL
YLERAGQLSVKLYARSLPVSDSVLSGFQQRVQEAHLTEDQIFYFPKYGFCEAADQFHVLD
GECTAGASMAAW
```