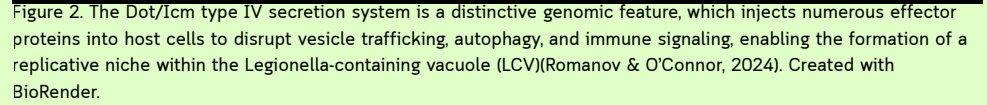


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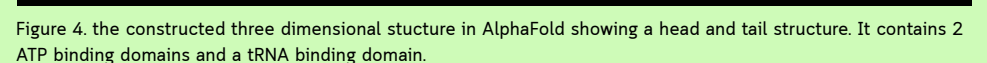
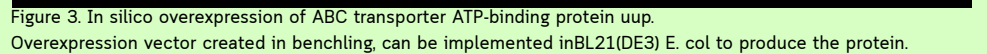
Results

Pathogenicity pathway of *L. pneumophila*



Gene annotation of *L. pneumophila* fragment

Table 2. kBase and ORF-finder results to determine the genes. Different genes were found, including the gene that expresses ABC transporter ATP-binding protein uup



Conclusions

Overexpression of the selected protein, the ABC transporter ATP-binding protein Uup, is relevant for both research and potential antibacterial applications. By overexpressing this protein, its specific function and ways to inhibit its activity can be researched. Since Uup is involved in DNA repair processes, inhibiting it could disrupt genomic stability and reduce bacterial viability, making it a potential target for antibacterial strategies.



The 3d structure was gained from PyMOL in Alphafold

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