

# Recombinant Escherichia coli ARGF Protein (2-334 aa), His-tagged

**Cat. No.** ARGF-1253E    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Escherichia coli (strain K12) ARGF Protein (2-334 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal.<br>Protein Description: Full Length of Mature Protein.                                                                               |
| <b>Species</b>          | E.coli                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 2-334 aa                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | Reversibly catalyzes the transfer of the carbamoyl group from carbamoyl phosphate (CP) to the N(epsilon) atom of ornithine (ORN) to produce L-citrulline, which is a substrate for argininosuccinate synthetase, the enzyme involved in the final step in arginine biosynthesis.                           |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 40.7 kDa                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | SDLYKKHFLKLLDFTPAQFTSLLTLAAQLKADKNGKEVQKLTGKNIALIFEKDSTRTR<br>CSFEVAAFDQGARGVTYLGPSGSQIGHKESIKDTARVLGRMYDGIQYRGHGQEVVET<br>LAQYAGVPVWNGLTNEFHPTQLLADLMTMQEHLPGKAFNEMTLVYAGDARNNMGN<br>SMLEAAALTGLDLRLLAPKACWPESLVAECSALAEKHGGKITLTEDVAAGVKGADF<br>IYTDVWVSMGEAKEKWAERIALLRGYQVNAQMMALTDNPNVKFLHCLPAFHDDQTT |

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|                      |                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | LGKQMAKEFDLHGGMEVTDEVFESAASIVFDQAENRMHTIKAVMMATLGE                                                                                                                                                                                                                                                                  |
| <b>Purity</b>        | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b> | A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.                                                                                                                                                                                     |

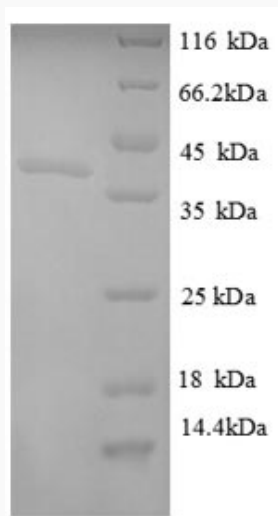
## GENE INFORMATION

|                        |                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | argF CP4-6 prophage; ornithine carbamoyltransferase ArgF [ Escherichia coli str. K-12 substr. MG1655 ] |
| <b>Official Symbol</b> | ARGF                                                                                                   |
| <b>Synonyms</b>        | ECK0274;                                                                                               |
| <b>Gene ID</b>         | 944844                                                                                                 |
| <b>Protein Refseq</b>  | NP_414807                                                                                              |
| <b>UniProt ID</b>      | P06960                                                                                                 |

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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