

## Recombinant Escherichia coli DGCQ Protein (381-564 aa), GST-tagged

**Cat. No.** DGCQ-1221E    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Escherichia coli (strain K12) DGCQ Protein (381-564 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Protein Description: Partial.   |
| <b>Species</b>          | E.coli                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 381-564 aa                                                                                                                                                                                            |
| <b>Description</b>      | Involved in the regulation of cellulose production. Cyclic-di-GMP is a second messenger which controls cell surface-associated traits in bacteria.                                                    |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 47.5 kDa                                                                                                                                                                                              |
| <b>AA Sequence</b>      | RRMVSNNMYVLQSSLQWQAWHDTLTRLNRYGALFEKARPLAKLCQTHQHPFSVIQV<br>DLDFHFKAINDRFGHQAGDRVLSHAAGLISSSLRAQDVAGRVGGEEFCVILPGASLTE<br>AAEVAERIRLKLNEKEMLIKSTTIRISASLGVSSEETGDYDFEQLQSLADRRRLYLAK<br>QAGRNRVFASDNA |
| <b>Purity</b>           | > 90% as determined by SDS-PAGE.                                                                                                                                                                      |

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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.                                                                                                                                                                                     |

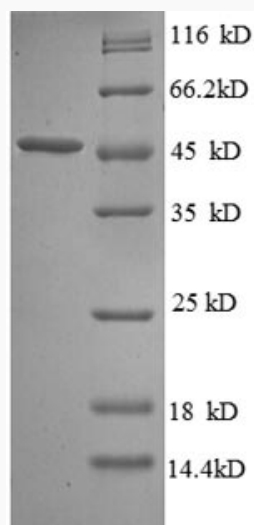
## GENE INFORMATION

|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | dgcQ putative diguanylate cyclase DgcQ [ Escherichia coli str. K-12 substr. MG1655 ] |
| <b>Official Symbol</b> | DGCQ                                                                                 |
| <b>Synonyms</b>        | ECK1954; yedQ;                                                                       |
| <b>Gene ID</b>         | 946471                                                                               |
| <b>Protein Refseq</b>  | NP_416465                                                                            |
| <b>UniProt ID</b>      | P76330                                                                               |

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

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