

## Recombinant Human CUTC, His-tagged

**Cat. No.** CUTC-26653TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                               |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant full length Human CUTC with an N terminal His tag; 293aa, 31.5kDa inclusive of tag.                                                                               |
| <b>Species</b>            | Human                                                                                                                                                                         |
| <b>Source</b>             | E.coli                                                                                                                                                                        |
| <b>ProteinLength</b>      | 273 amino acids                                                                                                                                                               |
| <b>Description</b>        | Members of the CUT family of copper transporters are associated with copper homeostasis and are involved in the uptake, storage, delivery, and efflux of copper (Gupta et al. |
| <b>Conjugation</b>        | HIS                                                                                                                                                                           |
| <b>Molecular Weight</b>   | 31.500kDa inclusive of tags                                                                                                                                                   |
| <b>Tissue specificity</b> | Ubiquitous.                                                                                                                                                                   |
| <b>Form</b>               | Liquid                                                                                                                                                                        |
| <b>Purity</b>             | >95% by SDS-PAGE                                                                                                                                                              |
| <b>Storage buffer</b>     | pH: 8.00Constituents:0.32% Tris HCl, 10% Glycerol, 0.08% DTT, 1.17% Sodium chloride                                                                                           |

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| <b>Storage</b>                  | Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.                                                                                                                                                                                                                   |
| <b>Sequences of amino acids</b> | MGSSHHHHHHSSGLVPRGSHMKRQGASSERKRARIPSGKAGAANGFLMEVCVDS<br>VESAVNAERGGADRIELCSGLSEGGTTPSMGVLQVVKQSVQIPVFMIRPRGGDFL<br>YSDREIEVMKADIRLAKLYGADGLVFGALTEDGHIDKELCMSLMAICRPLPVTFFHRAF<br>DMVHDPMAALETLLTLGFERVLTSGCDSSALEGLPLIKRLIEQAKGRIVVMPGGGITD<br>RNLQRILEGSGATEFHCSARSTRDSGMKFRNSSVAMGASLSCSEYSLKVTDVTKVR<br>TLNAIAKNILV |
| <b>Sequence Similarities</b>    | Belongs to the CutC family.                                                                                                                                                                                                                                                                                               |
| <b>GENE INFORMATION</b>         |                                                                                                                                                                                                                                                                                                                           |
| <b>Gene Name</b>                | CUTC cutC copper transporter homolog (E. coli) [ Homo sapiens ]                                                                                                                                                                                                                                                           |
| <b>Official Symbol</b>          | CUTC                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>                 | CUTC; cutC copper transporter homolog (E. coli); copper homeostasis protein cutC homolog; CGI 32;                                                                                                                                                                                                                         |
| <b>Gene ID</b>                  | 51076                                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>              | NM_015960                                                                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>           | NP_057044                                                                                                                                                                                                                                                                                                                 |
| <b>MIM</b>                      | 610101                                                                                                                                                                                                                                                                                                                    |
| <b>Uniprot ID</b>               | Q9NTM9                                                                                                                                                                                                                                                                                                                    |

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|                                |                                                                                |
|--------------------------------|--------------------------------------------------------------------------------|
| <b>Chromosome<br/>Location</b> | 10q24.31                                                                       |
| <b>Function</b>                | copper ion binding; copper ion binding; copper ion binding; metal ion binding; |

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