

Datasheet for ABIN7548109

## GTDC1 Protein (AA 1-458) (His tag)



[Go to Product page](#)

### Overview

Quantity:	1 mg
Target:	GTDC1
Protein Characteristics:	AA 1-458
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GTDC1 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant GTDC1 Protein expressed in mammalian cells.
Sequence:	<p>MSILIEAFY GGSHKQLVDL LQEELGDCVV YTLPAKKWHW RARTSALYFS QTIPISEHYR</p> <p>TLFASSVLNL TELAALRPDL GKLKKILYFH ENQLIYPVKK CQERDFQYGY NQILSCLVAD</p> <p>VVVFNSVFNM ESFLTSMGKF MKLIPDHRPK DLESIIRPKC QVIYFPIRFP DVSRFMPKHK</p> <p>TTHLKKMLGL KGNGGAVLSM ALPFQPEQRD SEDLLKNFNS ECDTHCGLDT ARQEYLGNSL</p> <p>RQESDLKKST SSDNSSSHHG ENKQNLTVDP CDILGGVDNQ QRLLHIVWPH RWEHDKDPES</p> <p>FFKVLMLHKD LGLNFHVSVL GETFTDVPDI FSEAKKALGS SVLHWGYLPS KDDYFQVLCM</p> <p>ADVVISAKH EFFGVAMLEA VYCGCYPLCP KDLVYPEIFP AEYLSTPEQ LSKRLQNFCK</p> <p>RPDIIRKHLV KGEIAPFSWA ALHGKFRSLL TTEPREDL</p> <p><b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

## Product Details

isoform, please contact us regarding an individual offer.

### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

### Purity:

> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

### Grade:

custom-made

## Target Details

### Target:

GTDC1

### Alternative Name:

GTDC1 ([GTDC1 Products](#))

### Background:

TRNA-queuosine alpha-mannosyltransferase (QTMAN) (EC 2.4.1.110) (Glycosyltransferase-like domain-containing protein 1) (Mannosyltransferase-like protein Xa) (Mat-Xa),FUNCTION: Glycosyltransferase that specifically catalyzes mannosylation of cytoplasmic tRNA(Asp) modified with queuosine at position 34 (queuosine(34)) (PubMed:37992713). Mannosylates the cyclopentene moiety of queuosine(34) in tRNA(Asp) to form mannosyl-queuosine(34) (PubMed:37992713). Mannosylation of queuosine(34) in tRNA(Asp) is required to slow-down elongation at cognate codons, GAC and GAU, thereby regulating protein translation (PubMed:37992713). {ECO:0000269|PubMed:37992713}.

### Molecular Weight:

52.6 kDa

### UniProt:

[Q4AE62](#)

## Application Details

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Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Restrictions:	For Research Use only
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## Handling

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Format:	Liquid
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Buffer:	The buffer composition is at the discretion of the manufacturer.
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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