

Product datasheet for **RC205748**

CUTC (NM_015960) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CUTC (NM_015960) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CUTC
Synonyms:	CGI-32
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC205748 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGAAAAGGCAGGGGCCTCCTCTGAGCGAAAACGAGCGCGGATACCGTCCGGGAAGCCGGAGCAGCAA
ATGGATTTCTCATGGAAGTTTGTGTTGATTCAGTGGAATCAGCTGTGAATGCAGAAAGAGGAGGTGCTGA
TCGGATTGAATTATGTTCTGTTTATCAGAGGGGGAACTACACCCAGCATGGGTGTCCTTCAAGTAGTG
AAGCAGAGTGTTCCAGATCCAGTTTTTGTGATGATTCGGCCACGGGGAGGTGATTTTTTGTATTTCAGATC
GTGAAATTGAGGTGATGAAGGCTGACATTCGTCTTGCCAAGCTTTATGGTGCTGATGGTTTTGGTTTTGG
GGCATTGACTGAAGATGGACACATTGACAAAGAGCTGTGTATGCCCTTATGGCTATTTGCCGCCCTCTG
CCAGTCACTTTCCACCGAGCCTTTGACATGTTTCATGATCCAATGGCAGCTCTGGAGACCCTCTTAACCT
TGGGATTTGAACGCGTGTGACCAGTGGATGTGACAGTTCAGCATTAGAAGGGCTACCCCTAATAAAGCG
ACTCATTGAGCAGGCAAAAGGCAGGATTGTGGTAAATGCCAGGAGGTGGTAAACAGACAGAAATCTACAA
AGGATCCTTGAGGGTTCAGGTGCTACAGAATCCACTGTTCTGCTCGGTCTACTAGAGACTCGGGAATGA
AGTTTCGAAATTCATCTGTTGCCATGGGAGCCTCACTTTCTTGTCTCAGAATATCCCTAAAGGTAACAGA
TGTGACCAAAGTAAGGACTTTGAATGCTATCGCAAAGAACATCCTGGTG

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205748 protein sequence
Red=Cloning site Green=Tags(s)

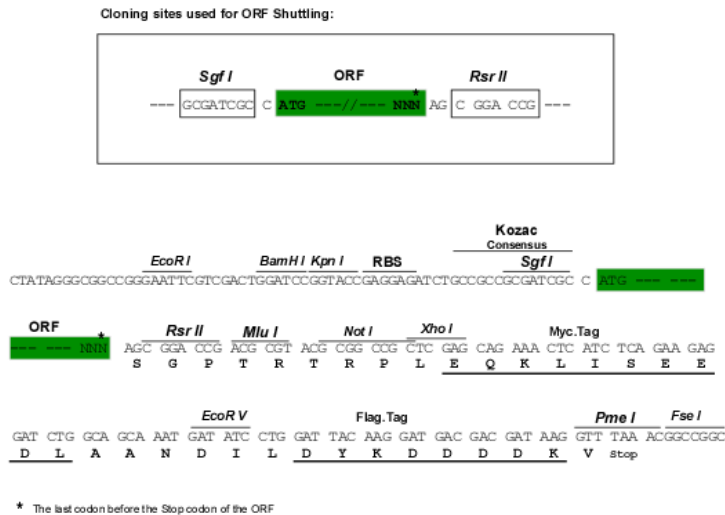
MKRQGASSERKRARIPSGKAGAANGFLMEVCVDSVESAVNAERGGADRIELCSGLSEGGTTPSMGVLQVV
 KQSVQIPVFMIRPRGGDFLYSDREIEVMKADIRLAKLYGADGLVFGALTEDGHIDKELCMLMAICRPL
 PVTFFHRAFDMVHDPMAALETLTLGFERVLTSGCDSSALEGLPLIKRLIEQAKGRIVVMPGGGITDRNLQ
 RILEGSGATEFHCSARSTRDSGMKFRNSSVAMGASLSCSEYSLKVTDVTKVRTLNAIAKNILV

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6615_g10.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_015960

ORF Size: 819 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_015960.3](#)

RefSeq Size: 1378 bp

RefSeq ORF: 822 bp

Locus ID: 51076

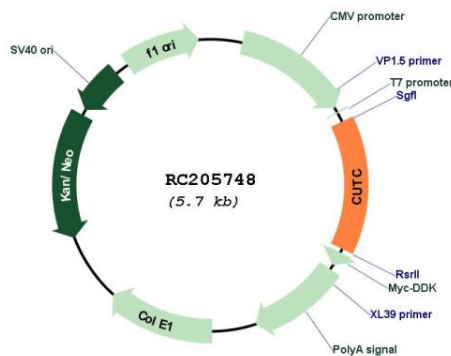
UniProt ID: [Q9NTM9](#)

Cytogenetics: 10q24.2

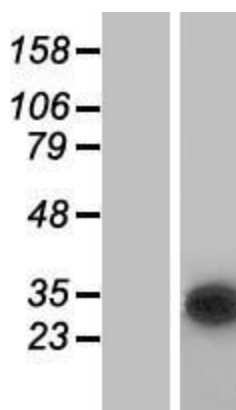
MW: 29.3 kDa

Gene Summary: 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., 1995 [PubMed 7635807]; Li et al., 2005 [PubMed 16182249]).[supplied by OMIM, Mar 2008]

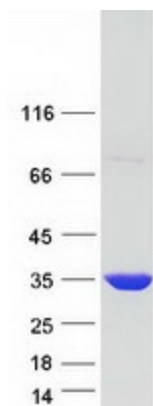
Product images:



Circular map for RC205748



Western blot validation of overexpression lysate (Cat# [LY414278]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205748 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CUTC protein (Cat# [TP305748]). The protein was produced from HEK293T cells transfected with CUTC cDNA clone (Cat# RC205748) using MegaTran 2.0 (Cat# [TT210002]).