

Product datasheet for **RC224255**

C7orf10 (SUGCT) (NM_024728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	C7orf10
Synonyms:	C7orf10; DERP13; GA3; ORF19
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224255 representing NM_024728
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAACTACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCATCTGAGACGCACGCGATGCTGGCGACGCTGGCGAGGGTGGCAGCTCTGCGCAGAACCTGCCTCT
 TCTCCGCGCGGGCGCGGGAGGGGGCTGTGGACTGGCCGCCCGCAGTCAGATATGAACAATATAAGCC
 ATTGGAAGGGTAAAAATTCTGGATCTAACAAGAGTCTGGCGGGACCTTTTGTACTATGAATTTAGGA
 GATCTTGGAGCAGAAGTATAAAAGTGGAGAGACCAGGAGCTGGTGATGATACACGAACCTGGGGGCCAC
 CTTTGTGGGACAGAAAGTACATATTATCTCAGTGTTAACCGAAATAAAAAAGTATTGCTGTTAATAT
 CAAGGATCCAAAAGGGGTGAAAATCATCTATTGTTCCATCACAGGGTATGGTCAGACAGGTCCAATTTCT
 CAGCGAGCTGGTTATGATGCTGTTGCCTCGGCTGTTTCTGGTCTGATGCACATCACAGGGCTGAGAATG
 GAGATCCAGTTGCGCCAGGAGTAGCTATGACTGATCTTGCCACTGGCTGTATGCATATGGAGCTATTAT
 GGCTGGATTGATACAAAATACAAAAGTGGAAAGGACTGTTCAATTGATTGAACCTGCTGTCATCCAG
 GTGGCGTGTTGTCTCACATAGCTGCAAAATTATCTTATTGGTCAAAAGGAAGCAAAACGTTGGGGTACAG
 CTCATGGCAGTATCGTTCCTTACCAGGCTTTTAAACCAAGGATGGCTATATTGTAGTTGGAGCAGGAAA
 TAACCAGCAGTTTGCCACCGCTGCAAGATCTTGGATTGCTGAGTTGATTGATAATTCCAAGTATAAA
 ACTAACCACCTTCGGGTACACAATAGAAAAGAGCTTATTAATATTATCTGAACGGTTTGAAGAAGAAC
 TGACCAGCAAGTGTTATATCTTTTGAAGGCAGTGGAGTCCCGTATGGCCCAATCAACAACATGAAGAA
 TGTATTTGCAGAACCTCAGAACGCTGTCTCTGGCTTCCAAAGCCTGCTGCATTCTTGGCCCATGGCCCC
 TTCTTCATCTTCAAGGATCAGCAAGGTATTACACAATGGCTCGTTATGGAGATGGAGCATCCAAGT
 TGGGGAAGATTTCCGTCAGGCCAGCTGTGAGATACAGTAAGTTCAAGATGTCAGAGGCCAGGCCGCC
 CCCCCTGCTCGGGCAGCACACAACGCACATCCTGAAGGAGGTCCTGAGATACGATGACAGGGCCATCGGG
 GAGCTGCTCAGCGCTGGAGTGGTGGACCAACATGAAACTCAC

ACGCGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224255 representing NM_024728
 Red=Cloning site Green=Tags(s)

MPSETHAMLATLARVAALRRTCLFSGRGGGRGLWTGRPQSDMNNIKPLEGVKILDLTRVLGPFATMNLG
 DLGAEVIKVERPGAGDDTRTWGPPFVGTESTYYLSVNRNKKSIAVNIKDPKGVKIIYCSITGYGQTGPIS
 QRAGYDAVASAVSGLMHITGPENGPVPRGVAMTDLATGLYAYGAIMAGLIQKYKTGKGLFIDCNLLSSQ
 VACLISHIAANYLIGQKEAKRWGTAHGSIVPYQAFKTKDGYIVVGAGNNQQFATVCKILDPELIDNSKYK
 TNHLRVHNRKELIKILSERFEEELTSKWLYLFEKSGVPYGPINNMKNVFAEPQNAVSGFQSLHSLAHGP
 FLHLQGSARVLHNLVMEHEPTVGKISVPGPAVRYSKFKMSEARPPPLLGQHTTHILKEVLRYYDDRAIG
 ELLSAGVVDQHETH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3938_b02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024728

ORF Size: 1302 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

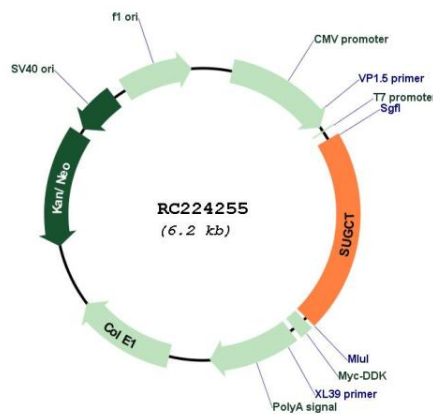
RefSeq: [NM_024728.1](#), [NP_079004.1](#)

RefSeq Size: 1608 bp

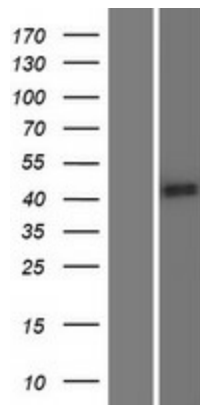
RefSeq ORF: 1284 bp
Locus ID: 79783
UniProt ID: [Q9HAC7](#)
Cytogenetics: 7p14.1
MW: 47 kDa

Gene Summary: This gene encodes a protein that is similar to members of the CaiB/baiF CoA-transferase protein family. Mutations in this gene are associated with glutaric aciduria type III. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jul 2010]

Product images:



Circular map for RC224255



Western blot validation of overexpression lysate (Cat# [LY411125]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224255 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).