

Product datasheet for **RC224873**

TBCID3C (NM_001001418) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TBCID3C
Synonyms:	PRC17; TBCID3; TBCID3A; TBCID3D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC224873 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACGTGGTAGAGGTCGCGGGTAGTTGGTGGGCACAAGAGCGAGAGGACATCATTATGAAATACGAAA
 AGGGACACCGAGCTGGGCTGCCAGAGGACAAGGGCCCTAAGCCTTTTCGAAGCTACAACAACAACGTCGA
 TCATTTGGGGATTGTACATGAGACGGAGCTGCCTCCTCTGACTGCGCGGGAGGCGAAGCAAAATTCGCGCG
 GAGATCAGCCGAAAGAGCAAGTGGGTGGATATGCTGGGAGACTGGGAGAAATACAAAAGCAGCAGAAAGC
 TCATAGATCGAGCGTACAAGGAATGCCATGAACATCCGGGGCCGATGTGGTCAGTCCTCCTGAACAT
 TGAGGAAATGAAGTTGAAAAACCCCGGAAGATACCAGATCATGAAGGAGAAGGGCAAGAGGTCATCTGAG
 CACATCCAGCGCATCGACCGGGACATAAGCGGGACATTAAGGAGGCATATGTTCTTCAGGATCGATACG
 GAACCAAGCAGCGGGAAGTACTCCACATCCTCTGGCATATGAGGAGTAAACCCGGAGGTGGGCTACTG
 CAGGGACCTGAGCCACATCGCCGCTTGTCTCTCTATCTTCTGAGGAGGATGCATTCTGGGCACTG
 GTGCAGCTGCTGGCCAGTGAGAGGCACTCCCTGCAGGGATTTACAGCCCAAATGGCGGGACCGTCCAGG
 GGCTCCAAGACCAACAGGAGCATGTGGTAGCCACGTCACAATCCAAGACCATGGGGCATCAGGACAAGAA
 AGATCTATGTGGGCAGTGTTCCCGTTAGGCTGCCTCATCCGATATTGATTGACCGGATCTCTCTCGGG
 CTCACCCTGCGCCTGTGGGACGTGTATCTGGTAGAAGCGCAACAGGCGTTGATGCCGATAACAAGAATCG
 CCTTTAAGGTTTACGACAGAAGCGCCTCAGGAAGACGTCCAGGTGTGGCCCATGGGCACGTTTTTGCAACCG
 GTTCGTTGATACCTGGGCCAGGGATGATGACACTGTGCTCAAGCATCTTAGGGCTCTATGAAGAACTA
 ACAAGAAAGCAGGGGGACCTGCCACCCCAAGCAAAACCCGAGCAAGGTCGTGGCATCCAGGCCTGTGC
 CGGCTTCACGTGGCGGAAGACCTCTGCAAGGGGGACAGGCAGGCCCTCCAGGCCACCAAGCCGGTT
 CCCGCGGCCCATTTGGTCAGCTTCCCGCCACGGGCACCTCGTTCTTCCACACCTGTCTGGTGGGGCT
 GTCCGGGAAGACACCTACCTGTGGGCACTCAGGGTGTGCCAGCCCGGCCCTGGCTCAGGAGGACCTC
 AGGGTTCCTGGAGATTCCTGCAGTGGAATCCATGCCCGCCTCCCAACGGACCTGGACGTAGAGGGGCC
 TTGGTTCGCCATTATGATTTAGACAGAGCTGCTGGTCCGTGCCATATCCAGGAGGACCACTGGCC
 CCTGCTGGCAGGCTGAACACCTGCGGAGCGGGTGAGATCGGCTTTCGCTGCACCCGGCACTGATTCGG
 ACCAGGGCACCCCTTCAGAGCTAGGGACGAACAGCAGTGTGCTCCACCTCAGGGCCTTGCTCTGCGG
 CCTCCACTTGAAAGTTCTCAGTTCCTCCAGGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224873 protein sequence
 Red=Cloning site Green=Tags(s)

MDVVEVAGSWWAQEREDIIMKYEKHRAGLPEDKGPKPFRSYNNVDHLGIVHETELPPLTAREAKQIRR
 EISRSKSWDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNIEEMKLNKPNRGYQIMKEKGRSSE
 HIQRIDRDISGTLRRHMFRRDRYGTQRELLHILLAYEEYNPEVGYCRDLSHIAALFLLYLPEEDAFWAL
 VQLLASERHSLQGFHSPNGGTVQGLQDQQEHVVATSQSKTMGHQDKDLGQCSPLGCLIRILIDRISLG
 LTLRLWDVYLVEGEQALMPITRIAFKVQKRLTKTSRCGPWARFCNRFVDTWARDDDTVLKHRLRASMKKL
 TRKQGDLPAPAKPEQGSSASRPVPAASRGKTLCKGDRQAPPGPAPRPRPIWSASPPRAPRSSTPCPGGA
 VREDTYPVGTQGVPSPALAQGGPQGSWRFLQWNSMPRLPTDLDVEGPWFRHYDFRQSCWVRRAISQEDQLA
 PCWQAEHPAERVRSFAAPGTDSQGTTPFRARDEQQCAPTS GPCLCGLHLESSQFP PGF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6545_g09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001418

ORF Size: 1647 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.

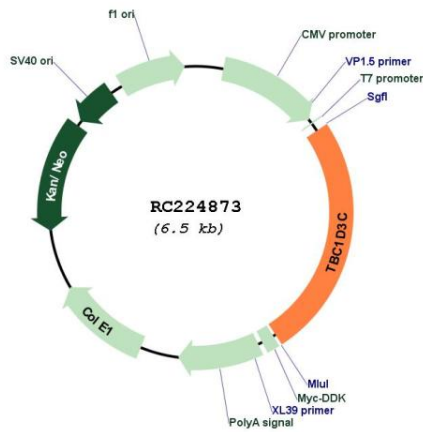
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001001418.5](#)

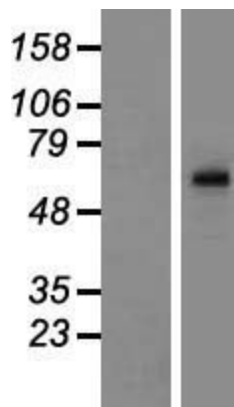
RefSeq Size: 2105 bp
 RefSeq ORF: 1650 bp
 Locus ID: 414060
 UniProt ID: [Q8IZP1](#)
 Cytogenetics: 17q12
 MW: 62.3 kDa

Gene Summary: This gene represents one of a cluster of related genes found on chromosome 17. The proteins encoded by this gene family contain a TBC (Tre-2, Bub2p, and Cdc16p) domain and may be involved in GTPase signaling and vesicle trafficking. [provided by RefSeq, Apr 2014]

Product images:



Circular map for RC224873



Western blot validation of overexpression lysate (Cat# [LY424346]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224873 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TBC1D3C protein (Cat# [TP324873]). The protein was produced from HEK293T cells transfected with TBC1D3C cDNA clone (Cat# RC224873) using MegaTran 2.0 (Cat# [TT210002]).