

Product datasheet for **RC225941**

TBC1D3 (NM_001123391) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TBC1D3
Synonyms:	PRC17; TBC1D3A; TBC1D3C; TBC1D3D; TBC1D3F; TBC1D3L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence: >RC225941 representing NM_001123391
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGTGGTAGAGGTCGCGGGCAGTTGGTGGGCACAAGAGCGAGAGGACATCATTATGAAATACGAAA
AGGGACACCGAGCTGGGCTGCCAGAGGACAAGGGGCCCTAAGCCTTTTCGAAGCTACAACAACAACGTCGA
TCATTTGGGGATTGTACATGAGACGGAGCTGCCTCCTCTGACTGCGCGGGAGGCGAAGCAAAATTCGGCGG
GAGATCAGCCGAAAGAGCAAGTGGGTGGATATGCTGGGAGACTGGGAGAAATACAAAAGCAGCAGAAAGC
TCATAGATCGAGCGTACAAGGGAATGCCCATGAACATCCGGGGCCGATGTGGTCAGTCCTCCTGAACAT
TGAGGAAATGAAGTTGAAAAACCCCGGAAGATACCAGATCATGAAGGAGAAGGGCAAGAGGTCATCTGAG
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GAACCAAGCAGCGGGAACCTACTCCACATCCTCTGGCATATGAGGAGTAAACCCGGAGGTGGGCTACTG
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GTGCAGCTGCTGGCCAGTGAGAGGCACTCCCTGCAGGGATTTACAGCCCAAATGGCGGGACCGTCCAGG
GGCTCCAAGACCAACAGGAGCATGTGGTAGCCACGTCAACAACCAAGACCATGGGGCATCAGGACAAGAA
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CCTTTAAGGTTTCAGCAGAAGCGCCTCACGAAGACGTCCAGGTGTGGCCCGTGGGCACGTTTTTGCAACCG
GTTCTGTGATACCTGGGCCAGGGATGAGGACACTGTGCTCAAGCATCTTAGGGCTCTATGAAGAACTA
ACAAGAAAGCAGGGGGACCTGCCACCCCAAGCAAAACCGGCAAGGTCGTGGCATCCAGGCCTGTGC
CGGCTTCACGTGGCGGAAGACCTCTGCAAGGGGACAGGAGGCCCCCAGGCCACCAGCCCGGTT
CCCGCGGCCCATTTGGTCAGCTTCCCGCCACGGGCACCTCGTTCTTCCACACCTGTCTGGTGGGGCT
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AGGGTTCCTGGAGATTCCTGCAGTGGAACCTCATGCCCGCCTCCCAACGGACCTGGACGTAGAGGGCC
TTGGTTCGCCATTATGATTTAGACAGAGCTGCTGGTCCGTGCCATATCCAGGAGGACAGCTGGCC
CCCTGCTGGCAGGCTGAACACCTGCGGAGCGGGTGAGATCGGCTTTCGCTGCACCCAGCACTGATTCG
ACCAGGGCACCCCTTCAGAGCTAGGGACGAACAGCCGTGTGCTCCACCTCAGGGCCTTGCTCTGCGG
CCTCCACTTGAAAGTTCTCAGTTCCTCCAGGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATACGACGATAAGGTTTAA

Protein Sequence: >RC225941 representing NM_001123391
Red=Cloning site Green=Tags(s)

MDVVEVAGSWWAQEREDIIMKYEKHRAGLPEDKGPKPFRSYNNVDHLGIVHETELPPLTAREAKQIRR
EISRSKSWDMLGDWEKYKSSRKLIDRAYKGMPMNIRGPMWSVLLNIEEMKLNPGRYQIMKEGKRSSE
HIQRIDRDVSGTLRKHIFFRDRYGTKQRELLHILLAYEEYNPEVGYCRDLSHIAALFLLYLPEEDAFWAL
VQLLASERHSLQGFHSPNGGTVQGLQDQQEHVVATSQPKTMGHQDKDLGQCSPLGCLIRILIDGISLG
LTLRLWDVYLVEGEQALMPITRIAFKVQKRLTKTSRCGPWARFCNRFVDTWARDEDTVLKHLRASMKKL
TRKQGDLPAPAKPEQGSSASRPVPASRGGKTLCKGDRQAPPGPAPRPRPIWSASPPRAPRSSTPCPGGA
VREDTYPVGTQGVPSPALAQGGPQGSWRFLQWNSMPRLPTDLDVEGPWFRHYDFRQSCWVRRAISQEDQLA
PCWQAEHPAERVRSAFAAPSTDSDQGTFFRAREQPCAPTS GPCLCGLHLESSQFP PGF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8034_d01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001123391

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:

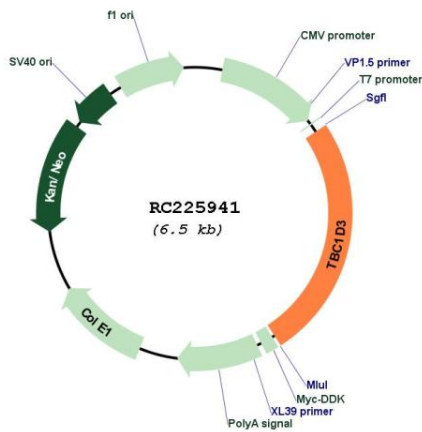
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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.

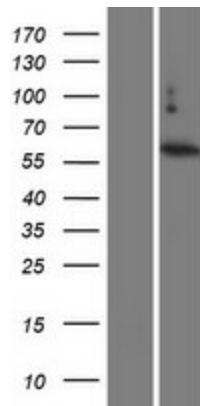
RefSeq: [NM_001123391.2](#)

RefSeq ORF:	1650 bp
Locus ID:	729873
UniProt ID:	Q8IZP1
Cytogenetics:	17q12
MW:	62 kDa
Gene Summary:	Acts as a GTPase activating protein for RAB5. Does not act on RAB4 or RAB11.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC225941



Western blot validation of overexpression lysate (Cat# [LY426622]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC225941 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).