

Product datasheet for **RC221083**

TBC1D10A (NM_031937) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D10A (NM_031937) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TBC1D10A
Synonyms:	dj130H16.1; dj130H16.2; EPI64; TBC1D10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC221083 representing NM_031937
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGAAGAGCAACGGAGAGAATGGGCGCGCGCGCCCGCGCGGGAAGCCTGTGCGGAACCCGGG
 AGAGCCTGGCCAGGGCCCCGACGCCGCAACCACCGACGAACCTCAGCTCTCTCGGGTCTGACTCGGAGGC
 CAACGGCTTCGCCGAGCGCCGCATCGACAAGTTCGGCTTCATCGTGGGCTCGCAGGGCGCCGAGGGCGCG
 CTGGAGGAAGTACCCCTGGAGGTGCTGAGGCAGAGGGAGTCCAAGTGGCTGGACATGCTCAACAAGTGGG
 ACAAATGGATGGCCAAGAAGCACAAAAGATTCTGCTGCGGTGCCAAAGGGCATCCCGCCTTCTCTGCG
 GGGCCGTGCTTGGCAGTACCTGTCAGGAGGCAAGGTGAAGTTACAGCAGAACCTGGAAAGTTTGACGAG
 CTGGACATGTCCCTGGGACCCCAAGTGGCTGGACGTGATTGAGCGTGACCTGCACCGGCGATTCCCAT
 TCCATGAGATGTTTGTCTCCGGGGGGGCCACGGCCAGCAGGACCTATTCGCTGTGCTGAAGGCCTACAC
 GCTGTACCGGCCGAGGAGGGCTACTGCCAGGCCAGGCGCCATTGCCGCTGTCTTGTCTCATGCATATG
 CCTGCTGAGCAAGCCTTCTGGTGCCTGGTACAGATCTGTGAGAAGTACCTGCCCGGCTACTACAGCGAGA
 AACTGGAGGCGATCCAGCTGGACGGGAGATCCTTTTCTCGCTGTTGAGAAGGTGTGCGCGGTGGCCCA
 CAAGCACCTCAGCCGTCAGAAGATCGACCCGCTCCTTTATATGACAGAATGGTTCATGTGCGCCTTCTCC
 CGAACCTTGCCCTGGAGCTCTGTGCTGCGTGTCTGGGACATGTTCTTCTGTGAAGGGTCAAGATCATCT
 TCCGGGTGGGGCTGGTGTGCTGAAGCACGCGCTGGGCTCCCCTGAGAAGGTCAAAGCCTGCCAGGGCCA
 GTACGAGACCATCGAGCGACTGCGGAGCCTCAGCCCCAAGATCATGCAGGAGGCCTTTCTGGTCCAGGAG
 GTGGTGGAGTTGCCCGTGACAGAGCGCCAGATTGAGCGGAACACCTCATTACAGTGCAGCGCTGGCAGG
 AGACCCGGGGTGAGCTGCAGTGCCGCTCCCCGCCAGGCTGCATGGTGCCAAGGCTATCTTGATGCAGA
 ACCTGGTCCCCGGCTGCCCTACAACCTTCAACATCCATCCGCTGCCCTAGATGCCCCCCTCCCTGGC
 TCCAAAGCCAAGCCAAGCCACCAAGCAGGCCAGAGGAGCAGCGAAACAGATGAAGGGGAGAGGGC
 AGCTGGAGAAGCCCCAGCCCCAAATCAAGCCATGGTGGTGGCCGCTGCAGGAGATGCATGTCCCCCACA
 GCATGTGCCCCGAAGGACTCAGCCCCAAGGACTCAGCCCCCTCAGGATTTGGCTCCCCAGGTCTCAGCC
 CACCACCGCTCCAGGAGAGCTTGACGTCCAAGAGAGTGAGGACACCTACTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC221083 representing NM_031937
 Red=Cloning site Green=Tags(s)

MAKSNGENGPRAAAGESLSGTRESLAQGPDAATTDELSSLGSDSEANGFAERRIDKFGFIVGSQGAEGA
 LEEVPLEVLRQRESKWLDMNNWDKWMKKKKIRLRQCQGIIPPSLRGRAWQYLSGGKVKLQQNPGKFDE
 LDMSPGDPKWLVDIERDLHRQFPFHEMFVSRGGHGQDLFRVLKAYTLRPEEGYCAQAPIAAVLLMHM
 PAEQAFWCLVQICEKYLPGYYSKLEAIQLDGEILFSLQKVSPPVAHKHLRQKIDPLLYMTEWFMCAFS
 RTLPWSSVLRVWDMFFCEGVKIIIFRVGLVLLKHALGSPEKVKACQGYETIERLRSLSPKIMQEAFVQE
 VVELPVTERRQIEREHLIQLRRWQETRGELQCRSPRLHGAKAILDAEPGRPALQSPSIRLPLDAPLPG
 SKAKPKPPKQAQKEQRKQMKGRGQLEKPPAPNQAMVVAAGDACPPQHVPKDSAPKDSAPQDLAPQVSA
 HHRSESLSQSESDTYL

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4825_d09.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_031937

ORF Size: 1524 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_031937.3](#)

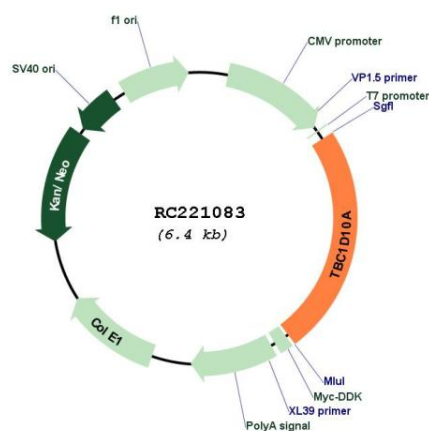
RefSeq Size: 1973 bp

RefSeq ORF: 1527 bp

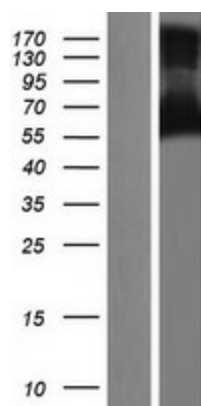
Locus ID: 83874

UniProt ID: [Q9BXI6](#)
Cytogenetics: 22q12.2
MW: 56.9 kDa
Gene Summary: Acts as GTPase-activating protein for RAB27A, but not for RAB2A, RAB3A, nor RAB4A. [UniProtKB/Swiss-Prot Function]

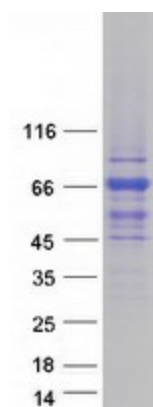
Product images:



Circular map for RC221083



Western blot validation of overexpression lysate (Cat# [LY410421]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221083 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TBC1D10A protein (Cat# [TP321083]). The protein was produced from HEK293T cells transfected with TBC1D10A cDNA clone (Cat# RC221083) using MegaTran 2.0 (Cat# [TT210002]).