

Product datasheet for **RC220480**

TBC1D23 (NM_018309) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D23 (NM_018309) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TBC1D23
Synonyms:	NS4ATP1; PCH11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC220480 representing NM_018309
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGAAGGAGAAGATGTGCCCGCTGCCAACGTCGAGCGGCGACGGCTGGGAAAAAGATCTTGAAG
 AAGCTCTGGAAGCAGGAGTTGTGATCTTGAAACGTTGAGAAATAAATTC AAGGAAGACCGCTGCCTGC
 TGATCTGAGGGCCAAAGTTTGAAGATTGCTCTGAATGTTGCAGGAAAAGGTGATAGTTTGGCATCATGG
 GATGGTATTTTAGACTTGCCAGAACAGAACTATTACAAAAGATTGCCTGCAGTTTATTGACCAGCTTT
 CAGTGCCAGAGGAGAAGGCAGCAGAATTACTTTGGATATTGAATCTGTAATTACCTTTTATTGAAATC
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 AAGGGAGACCATTTCATCTCTCAGGTTGCTCATCCAATACCATGAGCCTGAGCTTTGTTCTTATCTTGA
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 TGGCAATCGAAAGGATTTGATCCAAATGCAGGGGATGCAACTAAAGCCATAAAACAGCAGATCATGAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220480 representing NM_018309
 Red=Cloning site Green=Tags(s)

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MAEGEDVPPLPTSSGDGWEKDL EEALEAGGCDLETLRNI IQGRPLPADLRAKVVKIALNVAGKGD SLASW
DGILD LPEQNTIHKDCLQFIDQLSVPEEKAAELLLDIESVITFYCKSRNIKYSTLSWIHLLKPLVHLQL
PRSDLYNCFYAIMNKYIPRDCSQKGRPFHLFRLLIQYHEPELCSYLDTKITPDSYALNWLGS LFACYCS
TEVTQA IWDGYLQQADPFFIYFLMLIILVNAKEVILTQESDSKEEVIKFLENTPSSLNIEDIEDLFSLAQ
YYCSKTPASFRKDNHHLFGSTLLGIKDDADLSQALCLAI SVSEILQANLQGEVRFVVD CRPAEQYN
AGHLSTAFHLDSLMLQNPSEFAQSVKSLLEAQKQSI ESGSIAGGEHL CFMGSGREEDMYMNMVLAHFL
QKNKEYVSIASGGFMALQQHLADINVDGPENGYGHWIASTSGSRSSINSVDGESPNGSSDRGMKSLVNMK
TVALKTKSVNVREKVISFIENTSTPVDRHVSSDRVGKPYRGVKPVFSIGDEE EYDTEIDSSMSDDDR
KEVVNIQTWINKPDVKHHPCKEYKESGHMFPSHLLVTATHMYCLREIVSRKGLAYIQRQALNSVVKIT
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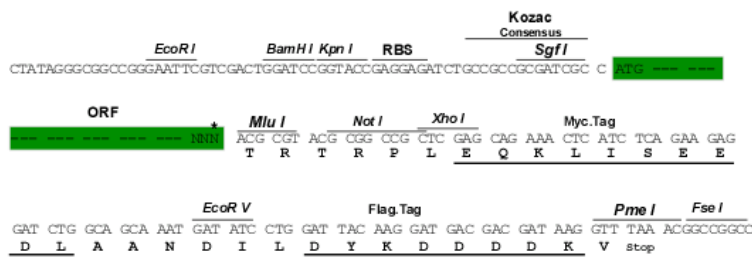
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8042_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_018309

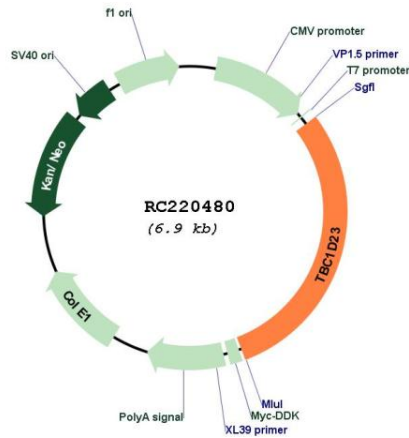
ORF Size: 2052 bp

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](#)

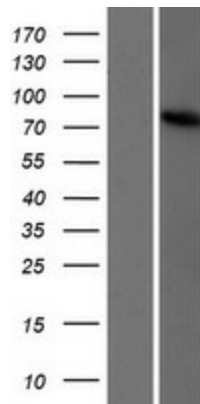
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<ol style="list-style-type: none">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:	<u>NM_018309.5</u>
RefSeq Size:	2065 bp
RefSeq ORF:	2055 bp
Locus ID:	55773
UniProt ID:	<u>Q9NUY8</u>
Cytogenetics:	3q12.1-q12.2
Domains:	TBC
Protein Families:	Druggable Genome
MW:	76.3 kDa
Gene Summary:	Putative Rab GTPase-activating protein which plays a role in vesicular trafficking (PubMed:28823707). Involved in endosome-to-Golgi trafficking. Acts as a bridging protein by binding simultaneously to golgins, including GOLGA1 and GOLGA4, located at the trans-Golgi, and to the WASH complex, located on endosome-derived vesicles (PubMed:29084197, PubMed:29426865). Together with WDR11 complex facilitates the golgin-mediated capture of vesicles generated using AP-1 (PubMed:29426865). Plays a role in brain development, including in cortical neuron positioning (By similarity). May also be important for neurite outgrowth, possibly through its involvement in membrane trafficking and cargo delivery, 2 processes that are essential for axonal and dendritic growth (By similarity). May act as a general inhibitor of innate immunity signaling, strongly inhibiting multiple TLR and dectin/CLEC7A-signaling pathways. Does not alter initial activation events, but instead affects maintenance of inflammatory gene expression several hours after bacterial lipopolysaccharide (LPS) challenge (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC220480



Western blot validation of overexpression lysate (Cat# [LY413153]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220480 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).