

## Product datasheet for **RC234737**

### **TBC1D23 (NM\_001199198) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TBC1D23 (NM_001199198) 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)



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**ORF Nucleotide Sequence:**

>RC234737 representing NM\_001199198  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGAAGGAGAAGATGTGCCCGCTGCCAACGTCGAGCGGCGACGGCTGGGAAAAAGATCTTGAAG  
 AAGCTCTGGAAGCAGGAGTTGTGATCTTGAAACGTTGAGAAATAAATTC AAGGAAGACCGCTGCCTGC  
 TGATCTGAGGGCCAAAGTTTGAAGATTGCTCTGAATGTTGCAGGAAAAGGTGATAGTTTGGCATCATGG  
 GATGGTATTTTAGACTTGCCAGAACAGAACTATTACAAAAGATTGCCTGCAGTTTATTGACCAGCTTT  
 CAGTGCCAGAGGAGAAGGCAGCAGAATTACTTTGGATATTGAATCTGTAATTACCTTTTATTGAAATC  
 ACGTAACATTAATATAGCACATCCCTTAGCTGGATACATCTACTGAAACCATTGGTGCATCTTCAACTG  
 CCACGCAGCGATTTATACAACCTGCTTTATGCCATAATGAATAAGTACATTCCCAGGGATTGTTCCGAG  
 AAGGGAGACCATTTCATCTCTCAGGTTGCTCATCCAATACCATGAGCCTGAGCTTTGTTCTTATCTTGA  
 TACAAAGAAAATTACTCCAGACTCTATGCACTCAACTGGCTTGGAACTTTTTGCATGTTACTGTTCC  
 ACTGAAGTCACTCAGGCAATATGGGATGGATATCTACAACAAGCAGATCCATTTTTTATTTATTTCTTAA  
 TGTTAATTATCCTTGTTAATGCAAAAGAAGTTATTTTAAACACAAGAGTCAGACAGCAAAGAAGAAGTTAT  
 CAAGTTCTTGAAAACTCCATCCAGTCTGAATATAGAAGATATAGAAGACCTTTTCTCTCTGGCTCAG  
 TATTATTGCAGCAAAACCCGGCTTCTTTAGGAAGGATAATCACCATCTCTTTGGTAGTACTTTGTTGG  
 GAATTAAGGATGATGATGCAGATCTGAGTCAGGCTCTTTGTCTGGCCATCTCCGTGCAGAGATCCTTCA  
 AGCGAATCAGCTACAAGGGGAAGGAGTCCGTTCTTTGTGGTGGATTGCCGTCTGCAGAACAAATAAT  
 GCTGGGCATTTTCAACTGCTTTCCACTTAGATTAGACCTGATGCTTCCAGATCCATCTGAGTTGCAC  
 AGTCAGTAAAATCCTTGCTGGAAGCACAGAAGCAGTCCATTGAGTCTGGCTCCATAGCTGGTGGGAGCA  
 CCTCTGTTTTTATGGGCAGTGGCAGGGAGGAAGAAGACATGTATATGAACATGGTCTCCGACACTTTTTTA  
 CAGAAAAACAAGAATATGTGAGTATTGCCAGTGGAGGATTTATGGCACTGCAGCAGCACCTGGCAGACA  
 TTAATGTGGATGGACCAGAAAAATGGATATGGCCATTGGATTGCTAGTACCTCAGGCTCAAGGAGCAGTAT  
 CAATTCTGTTGATGGTGAATCTCCTAATGGCTCAAGTATAGAGGAATGAAATCACTAGTAAATAAAATG  
 ACTGTGGCTTTGAAGACAAAATCCGTTAATGTCAGGGAAAAAGTTATCAGTTTTATAGAGAATACATCAA  
 CTCCTGTGGATCGAATGTCTTTCAATCTCCTTGGCCAGACAGATCATGTACAGAGCGGCATGTGAGCAG  
 CAGTGACAGAGTGGCAAGCCTTACCGTGGCGTAAAGCCTGTTTTCAGCATTGGGGATGAAGAAGAATAC  
 GACACAGATGAAATTGACAGTTCTCAATGTCAGATGATGATAGAAAAGAGGTTGTAACATTTCAGACTT  
 GGATAAACAAACCAGATGTCAAACATCATTTTCCTTGTAAAGAAGTAAAAGAAAGTGGACACATGTTTCC  
 CAGTCATCTGTTGGTTACTGCAACACATATGACTGTTTAAAGGGAGATTGTTTCACGGAAAGGATTGGCT  
 TATATACAGTCTCGACAAGCGCTGAATTCTGTAGTTAAAATTACATCCAAAAAAAACATCCTGAACTCA  
 TTACCTTCAAGTATGAAATAGCAGTGTCTCAGGAATAGAAAATCTTGGCAATCGAAAGGTATTTGATTCC  
 AAATGCAGGGGATGCAACTAAAGCCATAAAACAGCAGATCATGAAAGTTTTGGATGCTTTGGAAAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234737 representing NM\_001199198  
Red=Cloning site Green=Tags(s)

MAEGEDVPPLPTSSGDGWEKDL EEAEAGGCDLETLRNI IQGRPLPADLRAKVVWKIALNVAGKGDSL ASW  
 DGILDLPEQNTIHKDCLQFIDQLSVPEEKAAELLLDIESVITFYCKSRNIKYSTLSWIHLLKPLVHLQL  
 PRSDLYNCFYAIMNKYIPRDCSQKGRPFHLFRLLIQYHEPELCSYLDTKKITPDSYALNWLGS LFACYCS  
 TEVTQAIWDGYLQQADPFFIYFLMLIILVNAKEVILTQESDSKEEVIKFLENTPSSLNIEDIEDLFLSAQ  
 YYCSKTPASF RKDNHHLFGSTLLGIKDDADLSQALCLATSVSEILQANQLQEGEVRFVVD CRPAEQYN  
 AGHLSTAFHLDSDLMLQNPSEFAQSVKSLLEAQKQSI ESGSIAGGEHL CFMGSGREEDMYMNMVLAHFL  
 QKNKEYVSIASGGFMALQQHLADINVDGPENGYGHWIASTSGSRSSINSVDGESPNGSSDRGMKSLV NKM  
 TVALKTKSVNVREKVISFIENTSTPVDRMSFNLPWDRSCTERHVSSSDRVGKPYRGV KPVFSIGDEEEY  
 DTDEIDSSMSDDDRKEVVNIQTWINKPDVKHHFPCKEVKESGHMFPSHLLVTATHMYCLREIVSRKGLA  
 YIQSRQALNSVVKITSKKKHPELITFKYGNSSASGIEILAIERYLIPNAGDATKAIKQQIMKVLDALES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001199198

**ORF Size:** 2097 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.

**RefSeq:** [NM\\_001199198.3](#)

**RefSeq Size:** 3886 bp

**RefSeq ORF:** 2100 bp

**Locus ID:** 55773

**UniProt ID:** [Q9NUY8](#)

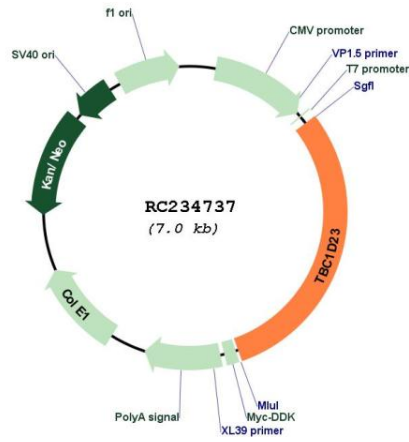
**Cytogenetics:** 3q12.1-q12.2

**Protein Families:** Druggable Genome

**MW:** 78.8 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 RC234737