

Product datasheet for **MR210025**

Tbc1d23 (NM_026254) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbc1d23 (NM_026254) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tbc1d23
Synonyms:	4930451A13Rik; AU015720; AU043671; AU043778; D030022P07Rik; W51689
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR210025 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCCATGGCGGAAGGAGAAGAGCTTCTGCCACTGTCAACGTCGGCGGGGACAGCTGGGAAAAAGATCTTGAAG
AAGCCCTTGAAGCAGGAGGTTGTGATCTTGAACTTTGAGAAATAAATTC AAGGGAGGCCACTGCCTGC
TGAGCTGAGGGCCAAGGTTTGAAGATTGCTCTGAACGTTGCAGGAAAGGTGATAGTTTGGCATCATGG
GATGGTATTTAGACTTGCCCTGAGCAGAACACTATT CATAAAGATTGCCTTGAGTTTATCGAGCAGCTCT
CAGTGCCAGAGGAGAAGGCAGCAGAATTACTCCTGGATATTGAATCTGTAATTACTTTTTACTGTAAATC
ACGCAGCGTTAAATACAGCACATCCCTGAGCTGGATTCACTACTGAAACCATTGATCTGTCTCCAGCTG
CCTCGCAGCGACCTATACAACTGCTTCTATGCCGTCATGAATAAGTACATTCCCAGGGATTGTTCCCTGA
AGGGGAGGCCATTTATCTCTTCCGGTTGCTCATCCAGTACCACGAGCCTGAGCTTTGTTCTTTTCTTGA
CACAAAGAAAATCACTCCAGACTCCTATGCACTCAACTGGCTCGGGAGCCTTTTTGCACATTACTGTTCC
ACTGAGGTCACCCAGGCAATATGGGACGGATATCTACAGCAAGCGGACCGTTTTTTATTTATTTCTTAA
TGTTAATTATCCTTGTTAATACAAAAGAAGTTATTTTAGCACAAGAGTCTGACAGCAAAGAAGAAGTTAT
CCGCTTTTTGAAAGTACCCCGCCAGCCTGAATCTGGAAGACATAGAAGACCTGTTCTCTTTGGCTCAG
TATTACTGTAGTAAGACGCCAGCTTCTTTTAGGAAGGTAACCATCATCTCTTCGGTAGCACCCCTGCTGG
GGATCAAGGACGACGAGGCAGATCTGAGCCAGGCTCTGTGTCTGGCTGTTTCAGTATCAGAGATCCTTCA
AGCTAATCAGCTGCAAGGGGAAGGAGTCCGTTCTTCGTGGTGGACTGCCGTCCTGCGGAGCAGTACAAT
GCTGGGCATTTGGCAACCGCTTCCACCTAGACTCAGACTTGATGCTCCAGAATCCATCTGAGTTGCAC
AGTCAGTAAAGTCCTTGCTAGAAGCACAGAAACAGTCCATTGAGTCTGGCTCCATAGCAGGCGGGGAGCA
CCTCTGTTTTATGGGCAGTGGCAGAGAGGAAGAAGACATGTACATGAACATGGTCCCTCGCACACTTCTTA
CAGAAAAACAAGAATATGTTAGCATTGCCAGTGGAGGATTTATGGCCCTTCAGCAGCACCTGGCAGACA
TAAATGTAGAGGGACCAGAAAGTGGATACGGCCATTGGATTGCCAGTACCTCAGGGTCAAGGGGCAGCAT
CAGCTCTGTGATGGTGAATCCTGTAATGGCTCCAATGATAGAGGAATGAAATCCCTGGTCAGTAAATG
ACTGTGGCTCTAAAGACAAAATCCGTTACCGTTAGGGAAAAGGTCATCAGCTTTATTGAGAACTCGTCGA
CTCCTGTGGACCGGCACGTGAGCAGCAGCGACAGAGTGGCAAGCCTTACCGTGGAGTGAAGCCTGTGTT
CAGCATCGGCGATGAAGAGGAATATGACACAGATGAAATCGACAGCTCGTCCATGTCAGATGATGATAGG
AAAGAGGTTGTCAACATCCAGACCTGGATCAACAAGCCGGACATCAAGCATCACTTCCCTGTAAGAAG
TTAAAGAAAGTGGACATATGTTTCCTAGCCATCTGCTGTTACCGCCACCCATATGTA CTGCTTAAAGGA
GATTCTTTCAAGGAAAGGCTGGCTTACATCCAGTCTCGCAAGCACTAAATTCTGTAGTGAAAATTACG
TCCAAAAAAAACATCCCGAGCTAATTACCTTCAAGTATGGAAACAGCAGTGCTTCCGGGATAGAAATCT
TGGCTATTGAAAGGATTTGATTCCAAATGCAGGAGATGCTACCAGAGCCATAAAACAGCAGATCATGAA
AGTGTGGATGCTTTGAAAAGTACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210025 protein sequence
Red=Cloning site Green=Tags(s)

MAEGEELLPLSTSGGDSWEKDL EEAEAGGCDLETLRNIIQGRPLPAELRAKVVWKIALNVAGKGDSLASW
 DGILDLPEQNTIHKDCLEFIEQLSVPEEKAAELLLDIESVITFYCKSRSVKYSTLSWIHLLKPLICLQL
 PRSDLYNCFYAVMNKYIPRDCSLKGRPFHLFRLLIQYHEPELCSFLDTKKITPDSYALNWLGSF AHYCS
 TEVTQAIWDGYLQQADPFPIYFLMLIILVNTKEVILAQESDSKEEVIRFLESTPASLNLEDIEDLFLSAQ
 YYCSKTPASFRKDNHHLFGSTLLGIKDDADLSQALCLAVSVSEILQANQLQEGEVRFVVDPCRPAEQYN
 AGHLATAFHLDSDLMLQNPSEFAQSVKSLLEAQKQSI ESGSIAGGEHL CFMGS GREEDMYMNMVLAHFL
 QKNKEYVSIASGGFMALQQHLADINVEGPESGYGHWIASTSGSRGSISSVDGESCNDSNRGMKSLVSKM
 TVALKTKSVTVREKVISFIENSSTPVDRHVSSSDRVGKPYRGV KPVFSIGDEEEYDTEIDSSMSDDDR
 KEVVNIQTWINKPDIKHHPCKEYKESGHMFPSHLLVTATHMYCLREILSRKGLAYIQSRQALNSVVKIT
 SKKKHPELITFKYGNSSASGIEILAIERYLIPNAGDATRAIKQQIMKVLDALES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_026254

ORF Size: 2055 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_026254.2](#), [NP_080530.2](#)

RefSeq Size: 3664 bp

RefSeq ORF: 2055 bp

Locus ID: 67581

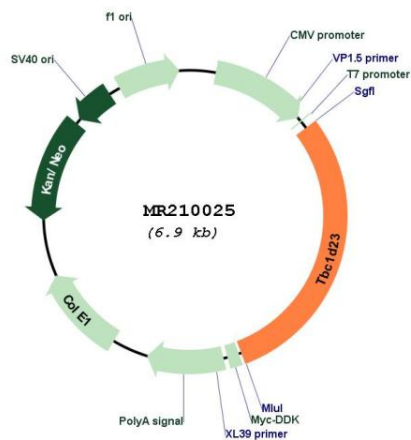
UniProt ID: [Q8K0F1](#)

Cytogenetics: 16 C1.1

MW: 76.4 kDa

Gene Summary: Putative Rab GTPase-activating protein which plays a role in vesicular trafficking. 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). Together with WDR11 complex facilitates the golgin-mediated capture of vesicles generated using AP-1 (By similarity). Plays a role in brain development, including in cortical neuron positioning. May also be important for neurite outgrowth, possibly through its involvement in membrane trafficking and cargo delivery, 2 processes which are essential for axonal and dendritic growth (PubMed:28823707). 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 (PubMed:22312129).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210025