

Product datasheet for **MC204503**

Tbc1d23 (NM_026254) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbc1d23 (NM_026254) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tbc1d23
Synonyms:	4930451A13Rik; AU015720; AU043671; AU043778; D030022P07Rik; W51689
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC031706

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CAAGTCTCAGACTTCATAACTCCTTTTACGACACTGAATCTCTGAGACAGTCTCGGTGCCAGGTCCACTT
TTCGGCAAAGTGACGTGGACGTCAACAGCAATGGCGGAAGGAGAAGAGCTTCTGCCACTGTCAACGTCGG
GCGGGGACAGCTGGGAAAAGATCTTGAAGAAGCCCTTGAAGCAGGAGGTTGTGATCTTGAAACTTTGAG
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ACATCAAGCATCACTTTCCCTGTAAGAAGTTAAAGAAAGTGGACATATGTTTCCTAGCCATCTGCTGGT
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GTTTGCTCAAAAAAAAAAAAAAAAAA

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- Restriction Sites:** RsrII-NotI
- ACCN:** NM_026254
- Insert Size:** 2055 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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:** [BC031706](#), [AAH31706](#)
- RefSeq Size:** 3664 bp

RefSeq ORF: 2055 bp

Locus ID: 67581

UniProt ID: [Q8K0F1](#)

Cytogenetics: 16 C1.1

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]

Transcript Variant: This variant (2) lacks an exon in the coding region, compared to variant 1. The encoded isoform (2) is shorter, compared to isoform 1.