

Product datasheet for **MG210792**

Tbc1d5 (BC043113) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbc1d5 (BC043113) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbc1d5
Synonyms:	mKIAA0210
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG210792 representing BC043113
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGTATAAGTCTGTCTGAAACGAGACATCCTCTGCAGTCAGAAGAACAAGAAGTAGGCATTGACCCCT
 TGTTCAAGTATTCAAATAAAACAAGAGGAGATCTAAGTCAAAATGGAAGAGGATCAAATTCTACCTTAGA
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 GCACCGGTGGAACGACCCAGATGACTTCATTCTGTTTCCAAGAAGATGAGGGGACCCGTGCCAGGGG
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 TGCTCCCCACTGTGTTCTCAGACCCACTGATGGGCCAGCCTCAGCCTCAGCCTCCTCCAGCAACCCCA
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG210792 representing BC043113
 Red=Cloning site Green=Tags(s)

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MYKSVSETRHPLQSEEQEVGIDPLFSYSNKTRGDL SQNGRGSNSTLDTEGTFNSYMKWEELFVNNNYLA
TVRQKGINGQLRSSRFRSICWKLFLCVLPQDKSQWISKIKELRAWYSSIKEIHITNPRKAAGQQDLMINN
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APIIFTLHCDHQAFLHASESAQPSEEMKTLNPEYLEHDAYAMFSQLMETAEPWFSTFEHDGQKGKETLM
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VWDALFADSLNLSLDYVFTAMLLYIRDALISSNYQTCLGLLMHYPIIGDIHSLILKALFLRDPKRNPRP
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FSAAIPTRTSTEAPRHLLQQQQQQHQQQQQQPQQQQQHQQQQQQRLMKSESMPVQLNKGQSSKTI
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KYCAKVMMDHLVNIQDVVLQENLEKEDQILVSLAGLKQIKDILKGSLRFNQSQLEAGENEQITIADHYC
SSGQDQGSQVPRAAQASSEMPGCTGGTTPDDF ILVSKEDEGHRARGAFSGQAQPLTLRSTSGKSRAPS
CSPLLFSDDLMPASASASSNPSSSPDDSSKESGFTIVSPLDI
  
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TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:	BC043113
ORF Size:	2447 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: [BC043113](#), [AAH43113](#)

RefSeq Size: 5597 bp

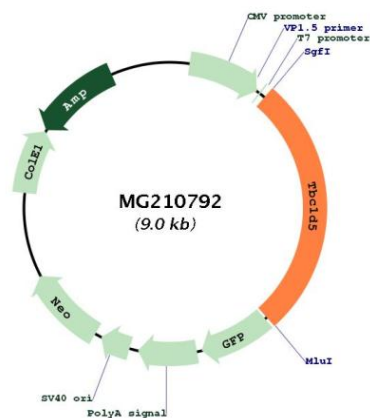
RefSeq ORF: 2447 bp

Locus ID: 72238

Cytogenetics: 17 C

Gene Summary: May act as a GTPase-activating protein for Rab family protein(s). May act as a GAP for RAB7A. Can displace RAB7A and retromer CSC subcomplex from the endosomal membrane to the cytosol; at least retromer displacement seems to require its catalytic activity. Required for retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN); the function seems to require its catalytic activity. Involved in regulation of autophagy. May act as a molecular switch between endosomal and autophagosomal transport and is involved in reprogramming vesicle trafficking upon autophagy induction. Involved in the trafficking of ATG9A upon activation of autophagy. May regulate the recruitment of ATG9A-AP2-containing vesicles to autophagic membranes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG210792