

Product datasheet for **RG202551**

TBC1D17 (NM_024682) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TBC1D17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG202551 representing NM_024682
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAAGGAGCCGGCTACAGGGTGGTGTGAGAAGGGCGGAGTGTACCTGCACACCAGCGCTAAGAAGT
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 CGAGCTGGATTGAGGTCAATTCCTGTGTGGAGCTGGGGCTCGGCCAACCGTGGAGCGGGGCCCTCCA
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 GAGGGACACCTCATGCTGTCCGGCTTCGGCTCCAATGAGATCCTCAAGCACATCAACGAGCTGACTATG
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 CTCCCCGCTGCCTCTGTGCCCCACCGGGCCCCGCCACCCGCGCCCTCCACGGACACAGCCCCGAG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

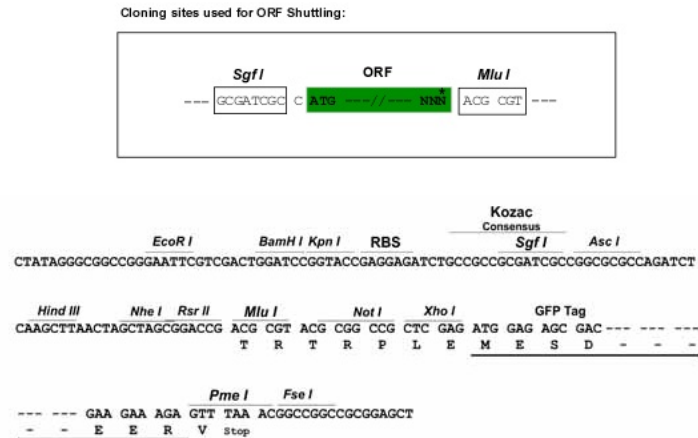
Protein Sequence: >RG202551 representing NM_024682
 Red=Cloning site Green=Tags(s)

MEGAGYRVVFEKGGVYLHTSAKKYQDRDSLIAGVIRVVEKDNDVLLHWAPVEEAGDSTQILFSKKDSSGG
 DSCASEEPTFDPGYEPDWAVISTVRPQLCHSEPTRGAEPSCPQGSWAFSVSLGELKSIRRSKPLSWAY
 LVLVTQAGGSLPALHFHRRGTRALLRVLRYLLASSPQDSRLYLVPDSSALSNSFHHLQLFDQSSN
 VVSRFLQDPYSTTFSSF SRVTNFFRGALQPQPEGAASDLPPPPDDEPEPGFEVISCVELGPRPTVERGPP
 VTEEEWARHVGPEGRLQQVPELKNRIFSGGLSPSLRREAWKFLLYLSWEGTAEHKAHIRKKTDEYFRM
 KLQWKSVPQEQERRNSLLHGYRSLIERDVSRTDRTNKFYEGPENPGLGLLNDILLTYCMYHFDLGYVQGM
 SDLLSPILYVIQNEVDAFWCFGFMELVQGNFEESQETMKRQLGRLLLLRVLDPLLCDFLDSQDSGLC
 FCFRWLLIWFKREFPPDVLRLWEVLWTGLPGPNLHLLVACAILDMERDTLMLSGFGSNEILKHINELTM
 KLSVEDVLTAEALHRQLTACPELPHNVQEILGLAPPAEPHSPSPASPLPSPTRAPPTPPPSTDTAPQ
 PDSSLEILPEEEDGADS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024682

ORF Size: 1944 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.

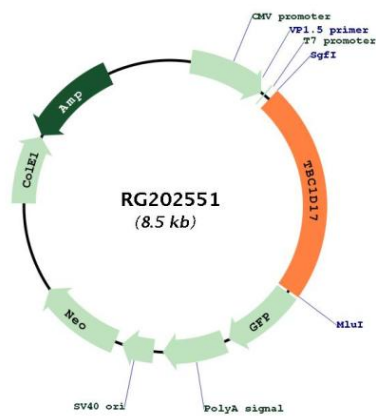
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_024682.3](#)

RefSeq Size:	2390 bp
RefSeq ORF:	1947 bp
Locus ID:	79735
UniProt ID:	Q9HA65
Cytogenetics:	19q13.33
Domains:	TBC

Gene Summary: Probable GTPase-activating protein for Rab8; its transient association with Rab8 is mediated by OPTN. Inhibits Rab8-mediated endocytic trafficking, such as of transferrin receptor (TfR) and reduces Rab8 recruitment to tubules emanating from the endocytic recycling compartment (ERC). Involved in regulation of autophagy. Mediates inhibition of autophagy caused by the OPTN variant GLC1E LYS-50; the function requires its catalytic activity, however, the involved Rab is not known.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG202551