

Product datasheet for **RG228542**

TBC1D15 (NM_001146213) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D15 (NM_001146213) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBC1D15
Synonyms:	RAB7-GAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228542 representing NM_001146213
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGCGCGGGTGTGTGAGCGGGAAGATTATATATGAACAAGAAGGAGTATATATTTCACTCATCTT
 GTGAAAAGACCAATGACCAAGACGGCTTGATTTTCAGGAATATTACGTGTTTTAGAAAAGGATGCCGAAGT
 AATAGTGGACTGGAGACCATTGGATGATGCATTAGATTCTCTAGTATTCTCTATGCTAGAAAGGACTCC
 AGTTCAAGTTGTAGAATGGACTCAGGCCCAAAAAGAAAGAGGTCATCGAGGATCAGAACATCTGAACAGTT
 ACGAAGCAGAATGGGACATGGTTAATACAGTTTCATTTAAAAGGAAACCACATACCAATGGAGATGCTCC
 AAGTCATAGAAATGGGAAAAGCAATGGTCATTCTGTTCAAGTTTGACAGACCTGAAATCAATCAAGCAA
 AACAAAGAGGGTATGGGCTGGTCTATTTGGTATTCTGTCTAAAGGATGACGTCGTTCTCCCTGCTCTAC
 ACTTTTCATCAAGGAGATAGCAAACACTGATTGAATCTCTTGAAAAATATGTGGTATTGTGTGAATCTCC
 ACAGGATAAAAAGAACACTTCTTGTAATTGTCAGAATAAGAGTCTTTCACAGTCTTTTGAAAATCTTCTT
 GATGAGCCAGCATATGGTTTAATACAAAAAATTAAGGACCCTTATACGGCAACTATGATAGGATTTT
 CCAAAGTCACAAACTACATTTTTGACAGTTTGAGAGGCAGCGATCCCTCTACACATCAACGACCACCTTC
 AGAAATGGCAGATTTTCTTAGTGATGCTATTCCAGGTCTAAAGATAAATCAACAAGAAGAACCAGGATTT
 GAAGTCATCACAAGAATTGATTTGGGGAACGCCCTGTTGTTCAAAGGAGAGAACCAGGATCACTGGAAG
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 GACATTTTGATGACCTACTGTATGTATGATTTTGTATTAGGATATGTTCAAGGAATGAGTGATTTACTTT
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 GCATCAGAATTTTGAAGAACAAATGCAAGGCATGAAGACCCAGCTAATTCAGCTGAGTACCTTACTTCGA
 TTGTTAGACAGTGGATTTTGCAGTTACTTAGAATCTCAGGACTCTGGATACCTTTATTTTGTTCAGGT
 GGCTTTTAAATCAGATTTCAAAGGGAATTTAGTTTTCTAGATATTCTTCGATTATGGGAGGTAATGTGGAC
 CGAACTACCATGTACAAATTTCCATCTTCTCTGTTGTGCTATTCTGGAATCAGAAAAGCAGCAAATA
 ATGGAAAAGCATTATGGCTTCAATGAAATACTTAAGCATATCAATGAATTGTCCATGAAAATTTGATGTGG
 AAGATATACTCTGCAAGGCAGAAGCAATTTCTCTACAGATGGTAAAATGCAAGGAATGCCACAAGCAGT
 CTGTGAGATCCTTGGGCTTCAAGGCAGTGAAGTTACAACACCAGATTCAGACGTTGGTGAAGACGAAAAT
 GTTGTCATGACTCCTTGTCTACATCTGCATTTCAAAGTAATGCCTTGCCTACACTCTCTGCCAGTGGAG
 CCAGAAATGACAGCCCAACACAGATACCAGTGTCTCAGATGTCTGCAGATTAACACCTGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228542 representing NM_001146213
 Red=Cloning site Green=Tags(s)

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MAAAGVVSQKIIYEQEGVYIHSSCGKTNQDGLISGILRVLEKDAEIVDWRPLDDALDSSSILYARKDS
SSVVEWTQAPKERGHRGSEHLNSYEAEDMNVNTVSFKRKPHTNGDAPSHRNGKSKWSFLFSLTDLKSIKQ
NKEGMGWSYLVFCLKDDVLPALHFHQGDSKLLIESLEKYVVLCESPQDKRLLVNCQNKLSQSFFENLL
DEPAYGLIQKIKKDPYTATMIGFSKVTNYIFDSLGRSDPSTHQRPPEMADFLSDAIPGLKINQQEPPGF
EVIITRIDLGERPVVQRREPVSLEEWTKNIDSEGRILNVNMQMIFRGGLSHALRKQAWKFLLYGFPWDS
TKEERTQLQKQKTDEYFRMKLQWKSISQEQEKRSRLRDYRSLIEKDVNRTDRTNKFYEQDNPGLILLH
DILMTYCMYDFDLGYVQGMDDLSPLLYVMENEVDAFWCFASYMDQMHQNFEEQMGMKTLIQLSTLLR
LLDSGFCSYLESQDSGYLYFCFRWLLIRFKREFSFLDILRLWEVMWTELPCNTFHLLCCAILESEKQOI
MEKHYGFNEILKHINELSMKIDVEDILCKAEAISLQMVCKELPQAVCEILGLQGSEVTPDSDVGEDEN
VVMTPCPTSAFQSNALPTLSASGARNDSPQIPVSSDVCRLTPA
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001146213

ORF Size: 2022 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_001146213.2](#)

RefSeq Size: 5760 bp

RefSeq ORF: 2025 bp

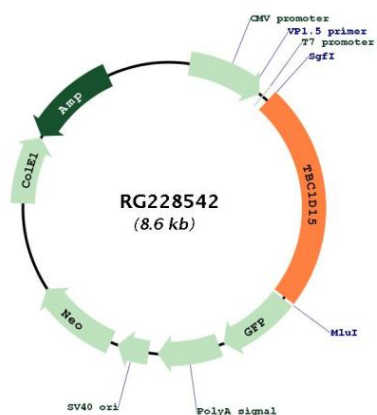
Locus ID: 64786

UniProt ID: [Q8TC07](#)

Cytogenetics: 12q21.1

Gene Summary: This gene encodes a member of the Ras-like proteins in brain-GTPase activating protein superfamily that share a conserved Tre-2/Bub2/Cdc16 domain. The encoded protein interacts with Ras-like protein in brain 5A and may function as a regulator of intracellular trafficking. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Apr 2009]

Product images:



Circular map for RG228542