

Product datasheet for **RG228533**

TBC1D15 (NM_001146214) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D15 (NM_001146214) 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:**

>RG228533 representing NM_001146214
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGTCCAGGACTTTATCCATACTCCAGTTTGTGGAGTATGGTAGGAGTATGATTATATATGAACAAG
 AAGGAGTATATATCACTCATCTTGTGGAAAGACCAATGACCAAGACGGCTTGATTTTCAGGAATATTACG
 TGTTTTAGAAAAGGATGCCGAAGTAATAGTGGACTGGAGACCATTGGATGATGCATTAGATTCTCTAGT
 ATTCTCTATGCTAGAAAAGGACTCCAGTTCAGTTGTAGAATGGACTCAGGCCCCAAAAGAAAGAGGTCATC
 GAGGATCAGAACATCTGAACAGTTACGAAGCAGAATGGGACATGGTTAATACAGTTTCATTTAAAAGGAA
 ACCACATACCAATGGAGATGCTCCAAGTCATAGAAATGGGAAAAGCAAATGGTCATTCTGTTCAGTTTG
 ACAGACCTGAAATCAATCAAGCAAAAACAAAGGGGTATGGGCTGGTCTATTTGGTATTCTGTCTAAAGG
 ATGACGTCGTTTCCCTGCTCTACACTTTCATCAAGGAGATAGCAAACACTACTGATTGAATCTCTGAAAA
 ATATGTGGTATTGTGTGAATCTCCACAGGATAAAAGAACAACCTTCTGTGAATTGCAGAATAAGAGTCTT
 TCACAGTCTTTTAAAACTCTTCTTGATGAGCCAGCATATGGTTTAAATACAAAAAATTTAAAAGGACCCTT
 ATACGGCAACTATGATAGGATTTTCCAAAGTCACAACTACATTTTGTGACAGTTTGAGAGGCAGCGATCC
 CTCTACACATCAACGACCACCTTCAGAAATGGCAGATTTTCTTAGTGATGCTATTCCAGGTCTAAAGATA
 AATCAACAAGAAGAACCAGGATTTGAAGTCATCACAAGAATTGATTTGGGGGAACGCCCTGTTGTTCAA
 GGAGAGAACCAGGATCACTGGAAGAATGGACTAAGAACATTGATTCTGAAGGAAGAATTTTAAATGTAGA
 TAATATGAAGCAGATGATTTTAGAGGGGGACTTAGTCATGCATTGAGAAAAGCAAGCATGGAAATTTCTT
 CTGGGTTATTTCCCTGGGACAGTACCAAGGAGGAAAGAACCAATTACAAAAGCAAAAACTGATGAAT
 ACTTCAGAATGAAACTGCAGTGGAAATCCATCAGCCAGGAACAAGAGAAAAGAAATTCGAGGTTAAGAGA
 TTATAGAAGTCTTATCGAAAAAGATGTTAACAGAACAGATCGAACAAACAAGTTTTATGAAGCCAAGAT
 AATCCAGGTTGATTTTACTTCATGACATTTTGTGACCTACTGTATGTATGATTTTGTAGGATATG
 TTCAAGGAATGAGTGATTTACTTTCCCTCTTTTATATGTGATGGAAAATGAAGTGGATGCCTTTTGGTG
 CTTTGCCTCTTACATGGACCAATGCATCAGAATTTTGAAGAACAATGCAAGGCATGAAGACCCAGCTA
 ATTCAGCTGAGTACCTTACTTCGATTGTTAGACAGTGGATTTTGCAGTTACTTAGAATCTCAGGACTCTG
 GATACCTTTATTTTGTTCAGGTGGCTTTTAAATCAGATTCAAAAAGGGAATTTAGTTTTCTAGATATTCT
 TCGATTATGGGAGGTAATGTGGACCGAACTACCATGTACAAATTTCCATCTTCTCTGTGTGCTATT
 CTGGAATCAGAAAAGCAGCAAATATGGAAAAGCATTATGGCTTCAATGAAATACTTAAGCATATCAATG
 AATTGTCCATGAAAATTGATGTGGAAGATATACTCTGCAAGGCAGAAGCAATTTCTCTACAGATGGTAAA
 ATGCAAGGAATTGCCACAAGCAGTCTGTGAGATCCTTGGGCTTCAAGGCAGTGAAGTTAACACACAGAT
 TCAGACGTTGGTGAAGACGAAAATGTTGTGATGACTCCTTGTCTACATCTGCATTTCAAAGTAATGCCT
 TGCTTACTCTCTGCCAGTGGAGCCAGAAATGACAGCCCAACACAGATACCAAGTGCCTCAGATGTCTG
 CAGATTAACACCTGCA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG228533 representing NM_001146214
Red=Cloning site Green=Tags(s)

MCPGLYPYSSLLEYGRSMIIYEQEGVYIHSSCGKTNDDGLISGILRVLEKDAEIVDWRPLDDALDSSS
 ILYARKDSSSVVEWTQAPKERGHRGSEHLNSYEAEDWVNTVSVFKRKPHTNGDAPSHRNGKSKWSFLFSL
 TDLKSIKQKKEGMGWSYLVFCLKDDVLPALHFHQGDSKLLIESLEKYVVLCESPQDKRTLLVNCQNKSL
 SQSFENLLDEPAYGLIQKIKKDPYTATMIGFSKVTNYIFDSL RGS DPSTHQRPPEMADFLSDAIPGLKI
 NQQE EPGFEVITRIDLGERPVVQRREPVSLEEWTKNIDSEGRILNVDNMKQMIIFRGLSHALRKQAWKFL
 LGYFPWDSTKEERTQLQKQKTDEYFRMKLQWKSISQEQEKRNSRLRDYRSLIEKDVNRTDRTNKFYEGQD
 NPGLILLHDILMTYCMYDFDLGYVQGMSDLSPLLYVMENEVDAFWCFASYMDQMHNQFEEQMGMKTQL
 IQLSTLLRLLDSGFCSYLESQDSGYLYFCFRWLLIRFKREFSFLDILRLWEVMWTEL PCTNFHLLCCAI
 LESEKQQIMEKHYGFNEILKHINELSMKIDVEDILCKAEAISLQMVCKELPQAVCEILGLQGSEVTTTPD
 SDVGEDENVVMTPCPTSAFQSNALPTLSASGARNDSP TQIPVSSDVCR LTPA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001146214

ORF Size: 2046 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_001146214.2](#)

RefSeq Size: 5852 bp

RefSeq ORF: 1728 bp

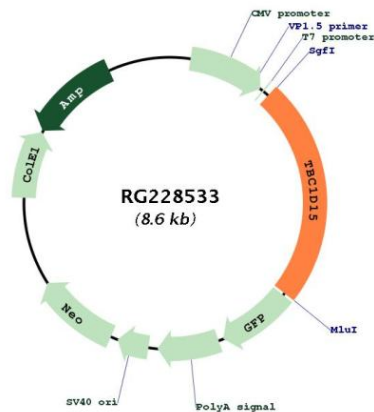
Locus ID: 64786

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 RG228533