

Product datasheet for **RG234192**

TBC1D2 (NM_001267572) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D2 (NM_001267572) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBC1D2
Synonyms:	PARIS-1; PARIS1; TBC1D2A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234192 representing NM_001267572
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGAAGCTTACCGGACCCAGAAGTCTTCTCAACTCCGAGATCCACCAGGTCACAAAGATCTGGAGAA
 AGGTGGCTGAGAAGGAGAAGGCCCTTCTGACGAAGTGCGCTACCTCCAAGCCAGAACTGCCAGGTGGA
 AAGCAAGTACCTGGCCGGTCTGAGAAGGCTGCAGGAGGCCCTGGGGACGAAGCCAGCGAGTGCTCAGAG
 CTGCTGAGGCAGCTTGTCCAGGAGGCACTGCAGTGGGAAGCTGGGGAGGCCTCATCTGACAGCATCGAGC
 TGAGCCCCATCAGTAAGTATGATGAGTACGGCTTCTGACGGTGGCCGACTATGAGGTGGAAGACCTGAA
 GCTGCTGGCCAAGATCCAGGCATTGGAGTCACGATCCCACCACCTGCTGGGCCTCGAGGCTGTGGATCGG
 CCGCTGAGGGAGCGCTGGGCTGCCCTGGCGATCTTGCCCTCAGCCGAGCTCAAGCAGCTACTGCGGG
 CAGGAGTACCCCGTGAACACCGGCCTCGTGTCTGGAGGTGGTGGTCCACCTCCGTGTCCAGCACCTGCA
 CACTCCAGGCTGTACCAGGAAGTCTGAGCCGGGGCCAGGCCCGGAGCACCCTGCTGCCGCCAGATT
 GAGCTGGACCTGAACCGGACCTTCCCCAACAAACAACTTCACCTGCCCCACCTCCAGCTTCCCCGACA
 AGCTCCGCCGGGTGCTGTGGCCTTCTCTGGCAGAACCCACCATCGGCTACTGCCAGGGCCTGAACAG
 GCTGGCGGCCATTGCCCTGCTGGTCTAGAGGAGGAGGAGAGCGCCTTCTGGTGCCTGGTGGCCATTGTG
 GAGACCATCATGCCCCTGATTACTACTGCAACACGCTGACGGCATCCCAGGTGGACCAGCGGGTCTCC
 AGGACCTGCTCTCGGAGAAGCTGCCAGGCTGATGGCCCATCTGGGGCAGCACCAGTGGATCTCTCCCT
 CGTCACCTTCACTGGTTCCTCGTGGTCTTTCGGGACAGTCTCATTAGCAACATCCTCCTCGGGTCTGG
 GATGCCTTCTGTACGAGGGGACGAAGGTGGTGTTCGCTATGCCTTGGCCATTTTCAAGTACAACGAGA
 AGGAGATCTTGAGGCTACAGAATGGCCTGGAAATCTACCAGTACCTGCGCTTCTTACCAAGACCATCTC
 CAACAGCCGGAAGCTGATGAACATCGCCTTCAATGACATGAACCCCTTCCGCATGAAACAGCTGCGGCAG
 CTGCGCATGGTCCACCGGAGCGGCTGGAGGCTGAGCTGCGGGAGCTGGAGCAGCTTAAGGCAGAGTACC
 TGGAGAGGCGGGCATCCCGGCGCAGAGCTGTGTCCGAGGGCTGTGCCAGCGAGGACGAGGTGGAGGGGA
 AGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

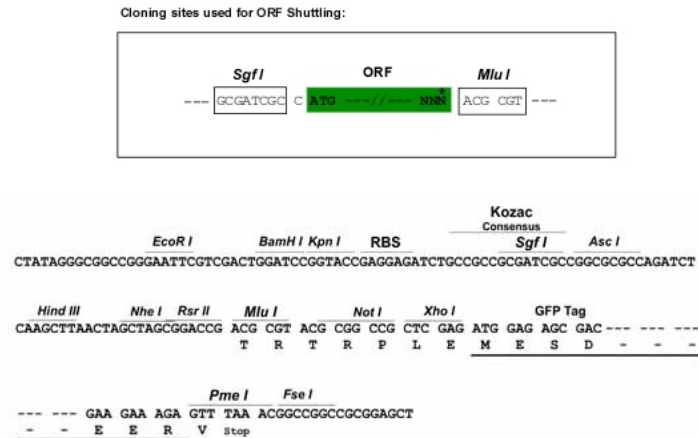
>RG234192 representing NM_001267572
 Red=Cloning site Green=Tags(s)

MEAYRTQNCFLNSEIHQVTKIWRKVAEKEKALLTKCAYLQARNQVESKYLAGLRRRLQEALGDEASECSE
 LLRQLVQEALQWEAGEASSDSIELSPIKYDEYGF LTVPDYEVEDLKLLAKIQALESRSHHLLGLEAVDR
 PLRERWAALGDLVPSAELKQLLRAGVPREHRPRVWRWL VHLRVQHLHTPGCYQELL SRGQAREHPAARQI
 ELDLNRTFPNNKHFTCPTSSFPDKLRRVLLAFSWQNPTIGYCQGLNRLAAIALLVLEEEESAFWCLVAIV
 ETIMPADYYCNTLTASQVDQRVLQDLLSEKLPRLMAHLGQHHVDLSLVTFNWFVVVFADSLISNILLRVW
 DAFLYEGTKVVFRYALAIKFYNEKEILRLQNGLEIYQYLRFFTKTISNSRKL MNIAFNDMNPFRMKQLRQ
 LRMVHRERLEAELRELEQLKAEYLERRASRRRAVSEGCASEDEVEGEA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001267572

ORF Size: 1404 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_001267572.1](#), [NP_001254501.1](#)

RefSeq Size: 2142 bp

RefSeq ORF: 1407 bp

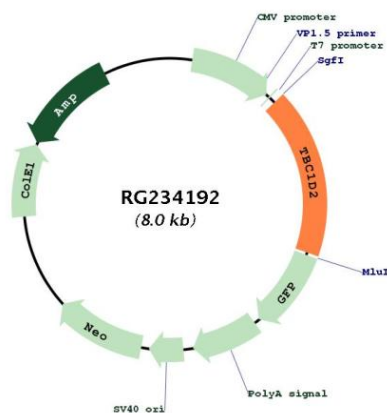
Locus ID: 55357

UniProt ID: [Q9BYX2](#)

Cytogenetics: 9q22.33

Gene Summary: Acts as GTPase-activating protein for RAB7A. Signal effector acting as a linker between RAC1 and RAB7A, leading to RAB7A inactivation and subsequent inhibition of cadherin degradation and reduced cell-cell adhesion.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG234192