

Product datasheet for **RG215906**

TBC1D8B (NM_017752) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TBC1D8B
Synonyms:	GRAMD8B; NPHS20
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG215906 representing NM_017752
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCTGAAGCCTGAGGAAGTGCTTCTGAAAAATGCGCTGAAGCTGTGGCTGATGGAAAGGTCCAACG
ACTACTTCGTGCTGCAGCGGCTCGGGGCTACGGGAGGAAGGCGAGGGGGCTCACAGGGCTTCTGGT
TGGGACTCTTGATTCAGTCTTGGACTCTACTGCTAAAGTAGCTCCATTTGCGATCCTACACCAGACACCA
GATTCTCAAGTTTACTTGTCAATTGCATGTGGAGCCAAACAGAGAAGAAATAACCAAGCATTGGGATTGGT
TGGAAACAAAATATTATGAAGACCTTATCTGTATTTGATTCAAATGAAGATATTACTAATTTTGTACAAGG
AAAAATAAGAGGATTAATTGCTGAAGAGGGAACATTGTTTTGCAAAAGAAGATGATCCTGAGAAATTT
CGAGAAGCCCTTTTGAATTTGAAAAATGTTTTGGTTTACCAGAGAAGGAGAAGTTAGTGACCTATTATT
CATGCAGTTATTGGAAGGACGGGTTCTTGTGAGGGTTGGCTTTATCTTAGCACCAACTTTCTGAGCTT
CTATTCCTTTTTTGTGGGATCAGAAATAAACTCATTATCTCTGGGATGAAGTCTCAAACTTGAAAAG
ACTTCAAATGTCACTGACAGAGAGTATTCACGTGTGTTCCCAAGGAGAGAATCACTACTTTTCAATGT
TTTTGCACATTAAACCAACATACCTTCTTATGGAACAGCTGGCAAACTATGCCATTAGAAGACTTTTGA
TAAGGAAACATTTGATAATGACCCAGTCCTTTATAATCCTCTACAGATCACCAAAAGAGGTCTGAAAAAT
AGAGCCACAGTGAGCAATTTAATGCCTTTTTTAGGCTGCCCAAAGGAGAGAGTTTGAAGAAGTACATG
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ACATTAAGAGGAGAACTCTGGATGCTTTTTTCAGGTGCTGTTAATGACATGGCTACTAATCTGACTATT



ATACTGAAGTGGTTGAGCAGTCCTTAGGGACCTGCAACTTGGCTACTGAAGAAATTGAACGTGATTACG
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AGAATCAAATGAGAAATATGGTAATATTCGCTATGAAGATATACATAGTATGCGCTGCGAAATAGGTTG
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TGAGCCTTCAAGAATTGGATGAACCTTATGTCTCTTTAAGAAAGAGCTGTTTTATCTTGTATTGGTG
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CAGCAGTTCAGAGCGTTGATCACTTGTGAGTCCCTGGGCTCATTCTGCAAAATAAGACTCACTAGCTT
TATGGACATTGAGATTGTAGATGAAAACCTGATTGCCTTATAAACTTCAAAGAAATCTCCTCTGCAAT
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TACACTGAAGTGAAATCTAAGGATGCTTCAAAGGAGATGAACCTTCAAAGGAAGAATTACTTTATTTC
GTCAGTGCTGATGTTTCAAGCTGCAATGAGAAGGAAGCAGAATCAGCAAAACACAGCCCTGAAAAAGG
CAAAGGGGAAAATTGATATTCAAGCATATCTAAGTCAATGGCAAGATGAGCTTTTCAAAAAAGAAAGAAAC
ATTAAGGATTTACCAAGAATGAATCAGTCTCAGTTTATTGAGTTTCAAAGACCTCTATACTTATTTT
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AGAAGTTGGAAGGAACTACATAGCCCTACATCATCAGCCAAAGGATTCTCTGGTACTGTCTGTGGTTCT
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AGTGGTCATTTGCATTTGAACAGATTCTTGATCGCTGTTGAATGAACCAGCATTGGTGAGGTTTTTGA
GAAACCATAGATGTAAAGCCAAGCTGAAAAATGCAAGAATTTCTCAGTTAAGGTCTAGAACCAAGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215906 representing NM_017752
Red=Cloning site Green=Tags(s)

MWLKPEEVLLKNALKLWLMERSNDYFVLQRRRGYEGGGGLTGLLVGTLDSVLDSTAKVAPFRILHQT
DSQVYLSIACGANREEITKHWDWLEQNIMKTLVSFDSNEDITNFVQGKIRGLIAEEGKHCFKEDDPEKF
REALLKFEKCFGLPEKEKLVYYSCSYWKGRVPCQGWLYLSTNFLSFYSFLLGSEIKLIISWDEVSKLEK
TSNVILTESIHVCSQGENHYFSMFLHINQTYLLMEQLANYAIRRLFDKETFDNDPVLYNPLQITKRLEN
RAHSEQFNAFFRLPKGESLKEVHECFWLWVPFSHFNTHGKMCISENYICFASQDGNQCSVIIPLREVLAID
KTNDSSKSIIISIKGTAFRFHEVKDFEQLVAKLRLCGAASTQYHDI STELAISSESTEPSDNFEVQSL
TSQRECSKTVNTEALMTVFHPQNLTLNSKMLKEKMKEQSWKILFAECGRGVSMFRKKTRDLVVRGIPE
TLRGELWMLFSGAVNDMATNPDYYTEVVEQSLGTCNLATEEIERDLRRLPEHPAFQSDTGISALRRVLT
AYAYRNPKIGYCQAMNILTSLLLYAKEEFAFWLLVAVCERMLPDYFNRRRIGALVDQAVFEELIRDHLP
QLTEHMTDMTFFSSVLSWFLTLFISVLPIESAVNVVDCFFYDGIKAILQLGLAILDYNDKLLTCKDDA
EAVTALNRRFFDNVTNKDSPLPSNVQQGSNVSDEKTSHTRVDTDLIRESNEKYGNIRYEDIHSMRCRNRL
YVIQTLTEETTKQNVLRVVSQDVKLSLQELDELYVIFKKELFLSCYWCLGCPVLKHDPSPLEQYQIDC
QQFRALYHLLSPWAHSANKDSLALWTFRLDENSCLINFKEFSSAIDIMYNGSFTEKLKLLFKLHIPPA
YTEVSKDASKGDEL SKEELL YFSQLHVSKPANEKEAESAKHSPEKGKIDIQAYLSQWQDELFKKEEN
IKDLPRMNQSQFIQFSKTLYNLFHEDPEEESLYQAI AVVTSLLLRMEEVGRKLHSPSSAKGFSGTVCSS
GGPSEKGTSHLEKDPSCSFREEPQWSFAFEQILASLLNEPALVRFFEKPIDVKAKLENARISQLRSRTKM

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_017752

ORF Size: 3360 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.

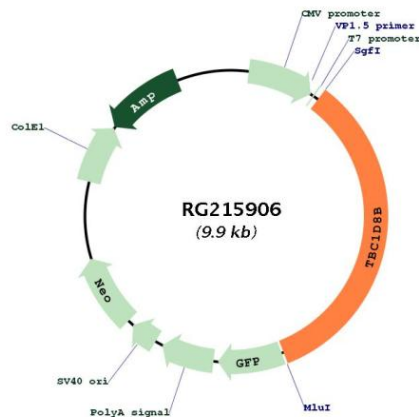
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_017752.3</u>
RefSeq Size:	5726 bp
RefSeq ORF:	3363 bp
Locus ID:	54885
UniProt ID:	<u>Q0IIM8</u>
Cytogenetics:	Xq22.3
Gene Summary:	This gene encodes a protein with a TBC (Tre-2/Bub2/CDC16) domain. Some mammalian proteins with this domain have been shown to function as Rab-GAPs by binding to specific Rab proteins and affecting their GTPase activity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2011]

Product images:



Circular map for RG215906