

Product datasheet for **MG211851**

Tbc1d9b (NM_029745) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbc1d9b (NM_029745) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tbc1d9b
Synonyms:	2700008N14Rik; AU019384; RP23-319B15.5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211851 representing NM_029745 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCTCGGGCCGAGGAGGTGCTGGTGGCTAACGCGCTATGGGTGACGGAGCGGGCCAACCCCTTCT
TCGTGCTGCAGCGGCCGAGGCCACGGCAAGGGCGGAGGCCCTCACGGGTCTTCTGTGGGCACCCTGGA
TGTGGTGTGGACTCCAGCGCCGTGTGGCCCTTACCGCATCCTGCACCAGACCCAGGACTCGCAGGTC
TACTGGATAGTGGCATGTGGTTCTCCGAAAAGAGATCACAAACTGGGAATGGCTGGAAAACAAC
TGCTTCAGACACTGTCCATCTTCGACAACGAGGAGGACATCACTACCTTCGTCAAGGGCAAGATAACGG
CATCATCGCAGAAGACAAGAACCTGCAGCCCCAGGGGACGAGGACCCAGGGAAATCAAGGAGGCA
GAGCTAAAGATGCGGAAGCAGTTCGGCATGCCAGAGGGCGAGAAGCTGGTCAACTACTACTCCTGTAAC
TCTGGAAGGGCCGCTGCCGCGCCAGGGCTGGCTCTACCTGACCGTCAACCACCTGTGCTTACTCCTT
CCTGCTGGGGAAGGAAGTGAGCCTGGTGGTACAGTGGGTGGACGTACACGCCTGGAGAAGAATGCCACT
TACTCTCCCGAGAGCATCCGTGTGGACACCGGGACCAGGAGCTGTTTTCTCCATGTTCTAAACA
TTGGCGAGACCTCAAGCTTATGGAGCAGCTGGCAACCTGGCCATGCGACAACCTGCTGGACAGCGAGGG
CTTCTGGAGGACAAGGCCCTACCCAGGCTATCCGGCCACATAAGAACATCTCAGCTCTAAAGCGAGAC
CTAGATGCCGAGCCAAGAAATGAGTGTACAGGGCCAGTTCCGGCTACCCAAAGACGAGCGGCTGGATG
GCCACACAGGCTGCACCCTATGGAGCCATTTAACAAGCTACATATCCCGGCCAGATGTTCTCCAA
TAACTACATCTGCTTTGCCAGCAAGGAGGAAGATGCGTGCCTCATCATACCCCTGAGGGAGGTGACC
ATTGTTGAAAAGCCGACAGCTCCAGCGTCTCCCGCCCTCTGTCTATCAGCACCAAGAGTAAAATGA
CCTTCTGTTTGGCAACCTGAAAGACCGTACTTCTGTTTCCAGAGGATCTGACTTCTCCAGAAAAC
GCCGTCGAAGCAGACGGGACGAGCATTGGGGAAACAAAGGCCAGTGTTCAGACCCAGCCCCAGAGTCT
CTCCAACTCCACAGGAGGCTTCTGAGCCACCCGCAAGCCATCTCTCCCTCAGCAGCCCTCCGAGTT
TCAGTACCCAGGAGATTCTACTACTTCCAGGGCCTGCTCAAAGTCTTCCAGAAGAACTACCCATGGA
GGACCTTGGCGCCAAAGGGCCAAGGAGAAGATGAAGGAGGAATCCTGGAACATCCACTTCTTTGAGTAC



[View online »](#)

GGGCGTGGCATGTGCATGTACCGAACAGCCAAAACCCGGGAGCTGGTCCCTGAAAGGCATCCCTGAGAGCC
TCCGAGGGGAGCTTTGGCTCCTCTTCTCTGGGGCCTGGAATGAGATGGTGACCCATCCC GGCTACTACGC
TGAGCTAGTGGAGAAGTCCCTGGGGAAGTACAGCTTGGCTACCGAGGAGATAGAGCGGGACCTCCATCGC
TCCATGCCCGAGCACCTGCTTTCCAGAATGAGCTCGGGATCGCTGCGCTCCGGCGGGTGTCTGACTGCTT
ACGCCTCCGAAACCCTACTATTGGCTACTGCCAGGCAATGAACATCGTGACTTCCGTGCTCCTGCTCTA
CGGCAGTGAGGAGGAAGCCTTCTGGCTGCTGGTGGCCCTGTGTGAGCGCATGCTGCCCGACTACTACAAC
ACCAGGTAGTGGGAGCCCTCGTAGACCAGGGCATCTTTGAAGAGCTCACGAGAGATGCTCTGCCCGGC
TCTCAGAGAAGATGCAAGAGCTGGGGGTGATCTCCAGCATCTCGCTGCTCTGGTTCTGACCCTCTTCT
CAGCGTCATGCCCTTTGAGAGCGCCGTGGTCATTGTGACTGCTTCTTCTACGAGGGCATCAAGGTGATC
CTGCAGGTGGCCCTGGCTGTGCTGGACGCCAACGTGGAGCAGCTGCTGGACTGCAATGACGAGGGCGAGG
CCATGACCCTGCTGGGCAGGTACCTGGACAATGTGGTCAACAAGCAGAGCATTCTCCACCTATCCCACA
CCTCCACGCTCTGCTGACCAGTGGAGATGACCCTCCTGTGGAGGTGGACATCTTTGACCTCTGAGAGTA
TCCTACGAGAAGTTCAGCAACCTGAGGGCTGACGACATTGAACAGATGCGGTTTAAACAGAGGCTGAAGG
TGATCCAGTCTTGAAGACACGGCTAAGAGAAGCGTGGTCCGAGCCATACCAGGGGACATCGGCTTCTC
CATTGAAGAGCTGGAGGATCTTTACATGGTGTAAAGCCAAGCATCTGGCAAGCCAGTACTGGGGTGGT
AACCGCTCAGCAGCCCTCCACCGAGACCCAGCCTGCCCTACCTGGAGCAGTACCGGATCGATGCCAGCC
AGTTTTCGGGAGCTCTTGGCCAGCCTGACGCCTTGGGCCTGTGGCTCTCACACGCCTGTGTTGGCAGGCCG
CATGTTCCGACTCCTGGATCAAAAACAAGGACTCACTGATCAACTTCAAGGAGTTTGTGACAGGGATGAGT
GGGATGTACCATGGAGACCTCACTGAGAAGCTCAAGGCGCTCTACAACTGCACCTGCCCCAGCTCTGA
TCCCAGAGGAAGCCGAGTCAAGCCTGGAGGCCGCCATTACTTACAGAGGATAGCTCCTCGGAAGCACT
GCTACAGGAGCAGCAGGAAGGAAGTGGAAATGAGGACACCCAGAAAGAAGAGAGGAGAAGGGGACCAGC
CCTCCTGACTACCGACTACCTTGAATGTGGCTAAGGAAAAAGAGGCTCAGAAGGAAACCATTAAGG
ACCTTCCAAGATGAACCAGGAGCAATTCATCGAGCTGTGTAACACTTTACAACATGTTTAGCGAAGA
CCCTATGGAACAGGACTTGTATCATGCCATCGCCACTGTGGCCAGCCTTCTCCTCCGATTGGTGAGGTG
GGGAAGAAGTTTTCGGCCTGACAACCAAGAAGCCAGGGATGGTGCCACAGTGGGGATCCCAACAGTG
CCACAGAAGAGGATGAACCACCCACACCCAACTCCATCAGGACCCAACACAGGAATGTCAGCCACCAGC
TGCAGGGGACCGGACGGCCAAAGCCAGTGGCGACATGCATCTCGGAAAGCATTGCAGGATAGTCATGTG
ATAGTGGAGGGAGGCAGCGGTGAGGGGCAGGGCTCTCCTCCCTGCTTTTGTCTGATGATGAAACCAAAG
ATGACATGTCCATGTCTTACTCAGTAGTCAGCACGGGCTCACTGCAGTGCAGGACCTCACGGAAGA
CACGGTGTGGTGGGAGGAGCCTGCAGCCCCACGCCACCTCACGGGCGGGGGCACTGTGGACACA
GACTGGTGCATTTCTTTCGAGCAGATCCTGGCCTCCATCCTAACAGAGTCTGTGCTAGTGAACCTTTTG
AGAAGAGGGTAGACATTGGACTCAAGATCAAGGACCAAAAGAAAGTAGAAAGGCAGTTTAGCACCTCCAG
TGACCATGAGCCCTGGGGTCTTGGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211851 representing NM_029745
 Red=Cloning site Green=Tags(s)

MWLGPEEVLVANLWVTERANPFFVLQRRRGHGKGGGLTGLLVGTLDDVLDSSARVAPYRILHQTQDSQV
 YWIVACGSSRKEITKHWELENNLQTL SIFDNEEDITTFVKGKIHGIIAEENKNLQPQGEDPGKFKEA
 ELKMRKQFGMPEGEKLVNYYS CNFWKGRVPRQGWLYLTVNHLCFYSFLLGKEVSLVVQWVDVTRLEKNAT
 LLFPESIRVDTRDQELFFSMFLNIGETFKLMEQLANLAMRQLLDSEGFLEDKALPRPIRPHKNISALKRD
 LDARAKNECYRATFRLPKDERLDGHTGCTLWTFPNKLHIPPQGMFISNNYICFASKEEDACRLIIPREVT
 IVEKADSSSVLPSPLSISTKSKMTFLFANLKDRDFLVQRI SDFLQKTPSKQTGSSIGGKASVSDPAPES
 LPTPQEASEPPASPSSPLSSPPSFSTQEIPTTSQGLLKVFQKNSPMEDLGAKGAKEKMKEESWNIHFFEY
 GRGMCMYRTAKTRELVLKGIPELREGELWLLFSGAWNEMVTHPGYYAELVEKSLGKYSLATEEIERDLHR
 SMPHEPAFQNELGIAALRRVLTAYAFRNPITIGYCQAMNIVTSVLLLYGSEEEAFWLLVALCERMLPDYYN
 TRVVGALVDQGI FEELTRDVL PRLSEKMQELGVISSISLSWFLTLFLSVMPFESAVVIVDCFFYEGIKVI
 LQVALAVLDANVEQLLD CNDEGEAMTVLGRYLDNVVNKQISPPIPHLHALLTSGDDPPVEVDIFDLLRV
 SYEKFSNL RADDIEQMRFKQRLKVIQSLEDTAKRSVVR AIPGDIGFSIEELEDLYMFKAKHLASQYWGG
 NRSAAVHRDPSLPYLEQYRIDASQFREL FASLTPWACGSHTPVLAGRMFRLLDQNKDSLINFKEFVTGMS
 GMYHGDLTEKLKALYKHLPPALIP EEAESALEAAHYFTEDSSSEALLQEQQEGSGNEDTPERREEKGT
 SPPDYRHYLRMWAKEKEAQKETIKDLPKMNQEQFIELCKTLNMFSEDPMEQDLYHAIATVASLLLRIGEV
 GKKFSALTTKKPRDGAHSGDPNSATEEEDPPTPKLHQDPTQECQPPAAGDRQAKASGDMHLGKALQDSHV
 IVEGGSGEGQGSPLLLSDDETKDDMSMSSYSVSTGSLQCEDLTEDTVLVGGGACSPATSRAGGTVDT
 DWCISFEQILASILTESVLVNF FEKRVDIGLKI KDQKVERQFSTSSDHEPPGVLG

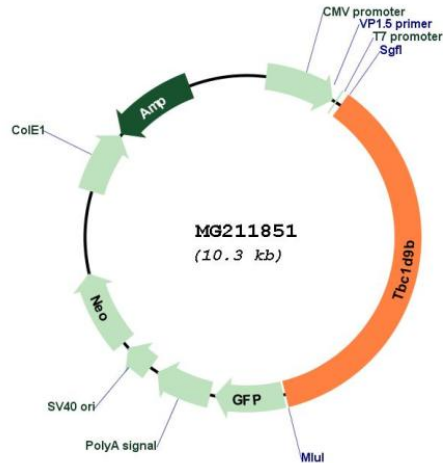
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_029745

ORF Size: 3738 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_029745.2](#), [NP_084021.2](#)

RefSeq Size: 5225 bp

RefSeq ORF: 3741 bp

Locus ID: 76795

UniProt ID: [Q5SVR0](#)

Cytogenetics: 11 B1.3

Gene Summary: May act as a GTPase-activating protein for Rab family protein(s).[UniProtKB/Swiss-Prot Function]