

Product datasheet for **RG221083**

TBC1D10A (NM_031937) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBC1D10A (NM_031937) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBC1D10A
Synonyms:	dj130H16.1; dj130H16.2; EPI64; TBC1D10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221083 representing NM_031937
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGAAGAGCAACGGAGAGAATGGGCCGCGCGCCCGCGCCGGGAAAGCCTGTCGGGAACCCGGG
 AGAGCCTGGCCAGGGCCCCGACGCCGAACACCGACGAACCTCAGCTCTCTCGGGTCTGACTCGGAGGC
 CAACGGCTTCGCCGAGCGCCGCATCGACAAGTTCGGCTTCATCGTGGGCTCGCAGGGCGCCGAGGGCGCG
 CTGGAGGAAGTACCCCTGGAGGTGCTGAGGCAGAGGGAGTCCAAGTGGCTGGACATGCTCAACAAGTGGG
 ACAATGGATGGCAAGAAGCACAAAAGATTCTGCTGCGGTGCCAAAGGGCATCCCGCCTTCTCTGCG
 GGGCCGTGCTTGGCAGTACCTGTCAGGAGGCAAGGTGAAGTTACAGCAGAACCTGGAAAGTTTGACGAG
 CTGGACATGTCCCTGGGACCCCAAGTGGCTGGACGTGATTGAGCGTGACCTGCACCGGCAGTTCCCAT
 TCCATGAGATGTTTGTCTCCGGGGGGGCCACGGCCAGCAGGACCTATCCGTGTGCTGAAGGCCTACAC
 GCTGTACCGGCCGAGGAGGGCTACTGCCAGGCCAGGCCCATTTGCCGTGTCTTGTCTATGCATATG
 CCTGCTGAGCAAGCCTTCTGGTGCCTGGTACAGATCTGTGAGAAGTACCTGCCCGGCTACTACAGCGAGA
 AACTGGAGGCGATCCAGCTGGACGGGAGATCCTTTTCTCGTGTTCAGAAAGGTGTGCGCGGTGGCCCA
 CAAGCACCTCAGCCGTCAGAAGATCGACCCGCTCCTCTATATGACAGAATGGTTCATGTGCGCCTTCTCC
 CGAACCTTGCCCTGGAGCTCTGTGCTGCGTGTCTGGGACATGTTCTTCTGTGAAGGGTCAAGATCATCT
 TCCGGTGGGGTGGTGTCTGTGAAGCACGCGCTGGGCTCCCCTGAGAAGGTCAAAGCCTGCCAGGGCCA
 GTACGAGACCATCGAGCGACTGCGGAGCCTCAGCCCCAAGATCATGCAGGAGGCCTTTCTGGTCCAGGAG
 GTAGTGGAGTTGCCGTGACAGAGCGCCAGATTGAGCGGAACACCTCATTACAGTGCAGCGCTGGCAGG
 AGACCCGGGTGAGCTGCAGTCCGCTCCCCGCCAGGCTGCATGGTGCCAAGGCTATCTTGATGCAGA
 ACCTGGTCCCCGGCCTGCCCTACAACCTTACCATCCATCCGCTGCCCTAGATGCCCCCTCCCTGGC
 TCCAAAGCCAAGCCAAGCCACCAAGCAGGCCAGAGGAGCAGCGAAACAGATGAAGGGGAGAGGGC
 AGCTGGAGAAGCCCCAGCCCCAAATCAAGCCATGGTGGTGGCCGCTGCAGGAGATGCATGTCCCCACA
 GCATGTGCCCCGAAGGACTCAGCCCCAAGGACTCAGCCCTCAGGATTTGGCTCCCCAGGTCTCAGCC
 CACCACCGCTCCAGGAGAGCTTGACGTCCAAGAGAGTGAGGACACCTACTTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG221083 representing NM_031937
 Red=Cloning site Green=Tags(s)

MAKSNGENGPRAAAGESLSGTRESLAQGPDAATTDELSSLGSDSEANGFAERRIDKFGFIVGSQGAEGA
 LEEVPLEVLRQRESKWLDMNNWDKWMKKHKKIRLRQKGIPPSLRGRWQYLGGKVKLQONPGKFDE
 LDMSGDPKWLVDIERDLHRQFPFHEMFVSRGGHQDQLFRVLKAYTLRPEEGYCAQAPIAAVLLMHM
 PAEQAFWCLVQICEKYLPGYYSEKLEAIQLDGEILFSLQKVPVAKHLSRQKIDPLLYMTEWFMCAFS
 RTLPSVSVLRVWDMFFCEGVKIIIFRVGLVLLKHALGSPEKVKACQGYETIERLSLSPKIMQEAFVLQE
 VVELPVTERQIEREHLIQLRRWQETRGLQCRSPRLHGAKAILDAEPGRPALQSPSIRLPLDAPLPG
 SKAKPKPPKQAQKEQRKQMKGRGQLEKPPAPNQAMVVAAGDACPPQHVPPKDSAPKDSAPQDLAPQVSA
 HHRQSLESLTSQESDLYL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_031937

ORF Size: 1524 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_031937.1](#), [NP_114143.1](#)

RefSeq Size: 1973 bp

RefSeq ORF: 1527 bp

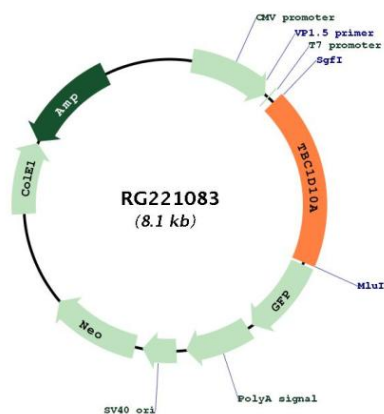
Locus ID: 83874

UniProt ID: [Q9BXI6](#)

Cytogenetics: 22q12.2

Gene Summary: Acts as GTPase-activating protein for RAB27A, but not for RAB2A, RAB3A, nor RAB4A.
[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG221083