

## Product datasheet for **RC231405**

### **TBC1D30 (NM\_015279) Human Tagged ORF Clone**

#### **Product data:**

|                                  |                        |
|----------------------------------|------------------------|
| <b>Product Type:</b>             | Expression Plasmids    |
| <b>Tag:</b>                      | Myc-DDK                |
| <b>Symbol:</b>                   | TBC1D30                |
| <b>Mammalian Cell Selection:</b> | Neomycin               |
| <b>Vector:</b>                   | pCMV6-Entry (PS100001) |
| <b>E. coli Selection:</b>        | Kanamycin (25 ug/mL)   |



ORF Nucleotide Sequence: >RC231405 representing NM\_015279  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCGGCAGGACAAGCTGACCGGGTCTCTGAGGCGGGGGGAGATGCCTGAAGCGGCAGGGCGGCGCG  
TGGGCACCATCCTGAGCAATGTGCTCAAGAAGCGCAGCTGCATTTCCCGGACCGCGCCCGGCTGCTGTG  
CACCCCTGGAGCCGGGAGTTGATACCAAGTTGAAATTCACCTCTTGAGCCATCTTTAGGTCAAAATGGTTTT  
CAGCAGTGGTACGATGCTCTCAAGGCAGTTGCCAGGCTATCCACAGGAATACCAAAGGAATGGAGGAGAA  
AGGTTTGGTTGACCTTGGCAGATCATTATTTGCACAGTATAGCCATTGACTGGGACAAAACCATGCGCTT  
CACTTTCAATGAAAGGAGTAATCCTGATGATGACTCCATGGGAATTCAGATAGTCAAGGACCTTCACCGC  
ACAGGCTGTAGTTCTTACTGTGGCCAGGAGGCTGAGCAGGACAGGGTTGTGTTGAAGCGGGTGTCTGTG  
CCTATGCCGATGGAACAAAATGTTGGGTACTGCCAAGGCTTTAACATCCTGGCTGCACTAATTCTGGA  
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TGAGCCCCCACTTACAAATGTCTTCACGATGCAGTGGTTTCTGACTCTCTTTGCCACATGCCTCCCTAAT  
CAGACCGTTTTAAAGATCTGGGATTCAGTCTTCTTTGAAGTTTCAAGAAATCCTAAGGGTGTCTGCTGG  
CTATCTGGGCAAAATTAGGAGAGCAGATAGAATGTTGTGAAACAGCAGATGAATTTACAGCACCATGGG  
GCGCCTTACCCAGGAGATGCTAGAGAATGATCTTCTGCAAAGCCATGAACTCATGCAGACTGTTTATTCC  
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CAGCCACAGTTAAACCCACCTCAGTTTCTGGACGACATAGTAAGGCCAGAGACAGTGTGAAGAGAATGA  
CCCAGACGATGAGGATGCTGTGCTTAATGCAGTGGGGTGTCTTGGACCTTTTAGTGGGTTCTGGCTCCT  
GAACTGCAGAAGTACAAAAACAAATTAAGAGCCAAATGAGGAGCAGAGTCTGAGATCTAATAACATTG  
CAGAGCTGAGTCCAGGAGCAATCAATTCCTGTGCAAGTGAATACCATGCAGCTTTTAACAGTATGATGAT  
GGAACGCATGACCACAGATATCAATGCACTGAAGCGGCAGTACTCTCGAATTAAGAAAGCAACAGCAG  
CAGGTTTCATCAGGTGTACATCAGGGCAGACAAAGGGCCAGTGACCAGCATTCTCCCGTCTCAGGTAAACA  
GTTCTCCAGTTATAAACACCTTCTTTAGGAAAGAAGATGAAATGACTAACAGAGCTGCCAAGAATGC  
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AGGACGATCGAGGGGCAGTCTCCGGAGCCGGTGTTCGGAGATGCTGATGTGGATGTGTCTGCAGTTCAGG  
CGAAGTTGGGAGCCCTGGAAGTGAACAGAGGGATGCTGCAGCTGAAAGTGAAGTCAAGGTGCACCCACC  
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GGCAGCAACTCAAAAACCCCATCTTTAGCCCTTTTCCAGCGTCAAGCCCTGCGGAAATCTGCTACTG  
CCAGGAACTGGGATTATATGGCCCTACAGAAAGAACCCCACTGTGCACTTTCCTCAAATGAGTAGGAG  
CTTCAGCAAAACCGCGGTGGAACAGTGGCACTAAAAACGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC231405 representing NM\_015279

Red=Cloning site Green=Tags(s)

MRQDKLTGSLRRGGRCLEKQGGVGTILSNVLKKRSCISRTAPRLCTLEPGVDTKLKFTLEPSLGQNGF  
 QQWYDALKAVARLSTGIPKEWRRKVWLTADHYLHSAIDWDKTMRTFNERSNPDDDSMGIQIVKDLHR  
 TGCSSYCGQEAQDRVLRVLLAYARWNKTGVCQGFNLAALILEVMEGNEGDALKIMIYLDKVLPE  
 SYFVNNLRALSVDMAVFRDLLRMKLPESQHLDTLQRTANKESGGGYEPPLTNVFTMQWFLTLFATCLPN  
 QTVLKIWDSVFFEGSEIILRVSLAIWAKLGEQIECCETADEFYSTMGRLTQEMLENDLLQSHELMQTVYS  
 MAPFPFPQLAELREKYTYNITPFPATVKPTSVSGRHSKARDSDEENDPDDEDAVVNAVGLGPFSGFLAP  
 ELQKYQKQIKEPNEEQSLRSNNIAELSPGAINSCRSEYHAAFNSMMMERMTTDINALKRQYSRIKKKQQQ  
 QVHQVYIRADKGPVTSILPSQVNSSPVINHLLGKKMKMTNRAAKNAVIHIPGHTGGKISPVYEDLTK  
 LNSPWRTHIRVHKKNMPRTKSHPGCGDTVGLIDEQNEASKTNGLGAAEAFPSGCTATAGREGSSPEGSTR  
 RTIEGQSPEPVFGDADVDVSAVQAKLGALELNQRDAAAETELRVHPQCQRHCPEPPSAPEENKATSKAPQ  
 GNSKTIPIFPFSPVKPLRKSATARNLGLYGPTERTPTVHFQMSRSFSKPGGNSGTTKR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

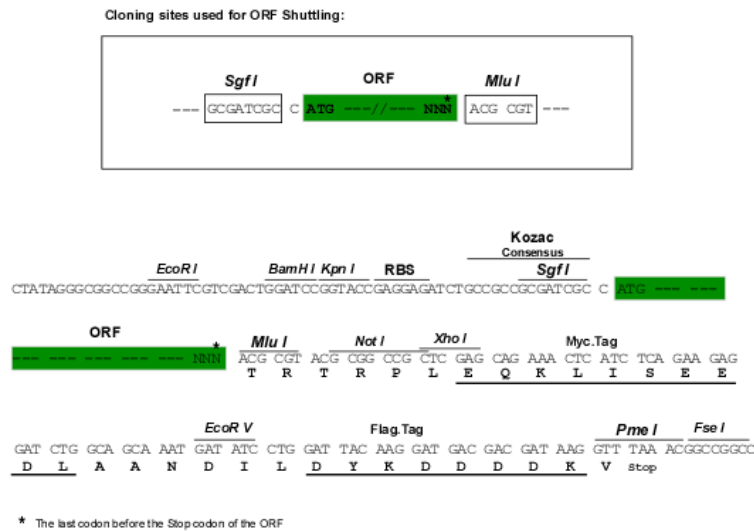
Chromatograms:

[https://cdn.origene.com/chromatograms/mk8109\\_f03.zip](https://cdn.origene.com/chromatograms/mk8109_f03.zip)

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

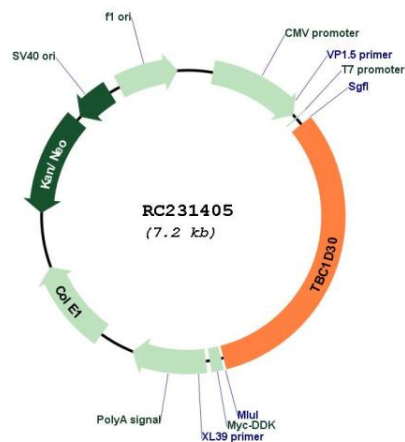
NM\_015279

ORF Size:

2283 bp

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b>        | <p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq:</b>                | <a href="#">NM_015279.2</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq ORF:</b>            | 2286 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Locus ID:</b>              | 23329                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID:</b>            | <a href="#">Q9Y2I9</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Cytogenetics:</b>          | 12q14.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Families:</b>      | Druggable Genome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>MW:</b>                    | 85.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Summary:</b>          | GTPase-activating protein (GAP) with broad specificity. Acts as a GAP for RAB3A. Also exhibits significant GAP activity toward RAB22A, RAB27A, and RAB35 in vitro.[UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

## Product images:



Circular map for RC231405