

Product datasheet for **RC221238**

TBC1D25 (NM_002536) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TBC1D25
Synonyms:	MG81; OATL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC221238 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAACAGCCTCCGGGGCTCGGACTTGTCTGGCTCCGAGCGCCCCCGCCGGTGTGGAGCTCAGG
 CGGCGCGCGCCGCTGAGGAGGAGGAGCGAGAGGTGGTCCGGTCCGAGTCAAGAAATGTGAGAGCTTCTT
 GCCGCCAGAGTTCCGCTCTTTTGTGTAGATCCCAGATCACCTCGCTCGACGTGTTGCAGCACATCCTC
 ATCCGAGCCTTTGATTTGAGTGGGAAGAAGAACTTTGGCATCAGCTACCTGGGCGGGACCGGCTAGGAC
 AGGAAGTTTACCTCTCACTTCTATCTGACTGGGACCTCAGCACAGCCTTTGCCACTGCCTCCAAACCTTA
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 CCTTTACACAGTCCATCCTCACTCAGGTGGGCCGTACCTTGTCTAAGGTCCAACAAGTGCTGAGCTGGTC
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 CTCAGAGGAGGGGCTGAGGCCACAGCCGATCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
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Protein Sequence: >RC221238 protein sequence
 Red=Cloning site Green=Tags(s)

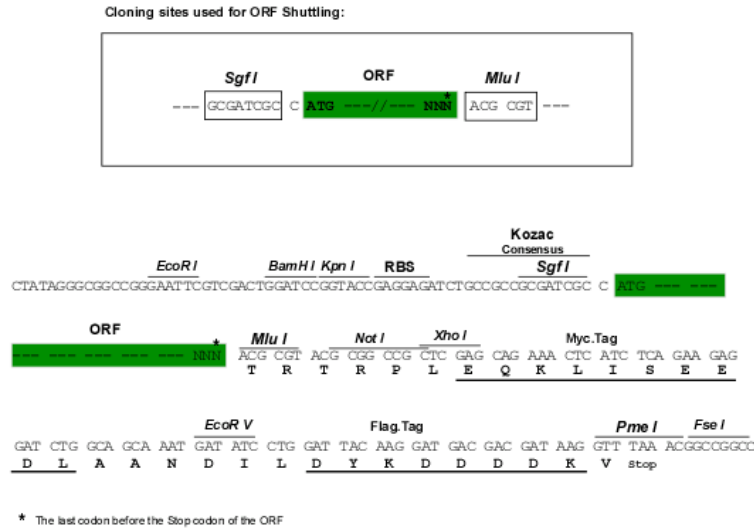
MATASGASDLSGSGAPPPVGQAQAAAAEEEEEEVVRVRVKKCESFLPPEFRSFAVDPQITSLDVLQHIL
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 EQLSRPEELRLRIYHGVPEPLSRKVVWRYLLNVYPDGLTGRERMDYMKRKSREYEQLKSEWAQRASPED
 LEFIRSTVLKDVLRTRDRAHPYAGPEDGPHLRALHDLLTYAVTHPQVSYCQMSDLASPI LAVMDHEGH
 AFVFCGIMKRLAANFHPDGRAMATKFAHLKLLRHADPDFYQYLQEAGADDLFFCYRWLLLELKREFAF
 DDALRMLLEVTVSSLPDPPEHEVELVGPPSQVADTGFGGHRGWPVRQRHMLRPAGGGSTFEDAVDHLAT
 ASQGPGGGGRLLRQASLDGLQQLRDNMGSRDPLVQLPHPAALISSKSLSEPLLNSPDLLSSFSHPDSP
 SSSSPSTQEASPTGDMAVGSPLMQEVGSPKDPKSLPPVPPMGLPPPQEFGRGNPFMLFLCLAILLEHR
 DHIMRGLDYNELAMHFDRLVRKHHLGRVLRARALFADYLQSEVWDSEEGAEATAAS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6689_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002536

ORF Size: 2064 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_002536.4

RefSeq Size: 3830 bp

RefSeq ORF: 2067 bp

Locus ID: 4943

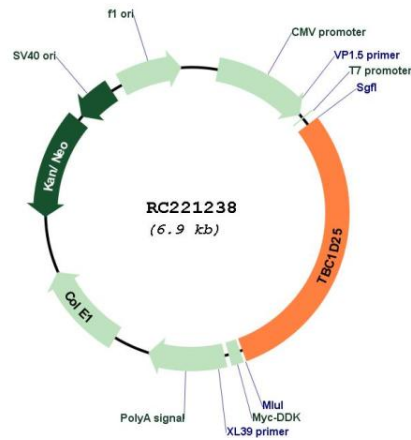
UniProt ID: Q3MII6

Cytogenetics: Xp11.23

MW: 76.3 kDa

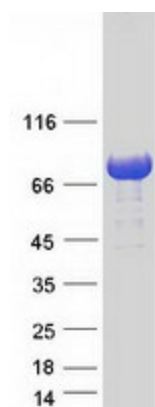
Gene Summary: This gene encodes a protein with a TBC domain and functions as a Rab GTPase activating protein. The encoded protein is involved in the fusion of autophagosomes with endosomes and lysosomes. This gene was previously known as ornithine aminotransferase-like 1, but has no similarity to ornithine aminotransferase. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RC221238

Western validation with an anti-DDK antibody
* L: Control HEK293 lysate R: Over-expression lysate



Coomassie blue staining of purified TBC1D25 protein (Cat# [TP321238]). The protein was produced from HEK293T cells transfected with TBC1D25 cDNA clone (Cat# RC221238) using MegaTran 2.0 (Cat# [TT210002]).