

Product datasheet for **SC303214**

TBC1D25 (NM_002536) Human Untagged Clone

Product data:

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



Fully Sequenced ORF:

>SC303214 representing NM_002536.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAACAGCCTCCGGGGCCTCGGACTTGTCTGGCTCCGGAGCGCCCCCGCCGGTGTGGGAGCTCAG
GCGGCGGCGGCCGCTGAGGAGGAGGAGCGAGAGGTGGTGGGTCGAGTCAAGAAATGTGAGAGCTTC
TTGCCGCCAGAGTTCCGCTCTTTTGTGTAGATCCCCAGATCACCTCGCTCGACGTGTTGCAGCACATC
CTCATCCGAGCCTTTGATTTGAGTGGGAAGAAGAACTTTGGCATCAGCTACCTGGGCGGGACCGGCTA
GGACAGGAAGTTTACCTCTCACTTCTATCTGACTGGGACCTCAGCACAGCCTTTGCCACTGCCTCCAAA
CCTTACCTGCAATTGCGTGTAGATATTCGGCCCTCGGAGGACAGCCATTGTAGAAAGACTGGGACATA
ATCAGCCCCAAAGATGTCAATTGGCTCCGACGTGTTGCTGGCTGAGAAACGGTCATCACTGACGACTGCC
GCCCTGCCCTTTACACAGTCCATCCTCACTCAGGTGGGCGTACCTTGTCTAAGGTCCAACAAGTGCTG
AGCTGGTCTGATGGGAAGATGTCAAGCCCTTCAAGCCACCCCTGAGCGATGCTGAGTTTACACGTAC
CTGAACCACGAGGGCCAGCTCTCCGACCCGAGGAGTTGCGCCTGCGGATCTATCATGGCGGTGTGGAG
CCCTCGCTGCGAAAGGTGGTGTGGCGGTACCTGCTGAACGTGTATCCAGATGGACTGACAGGCCGAGAG
CGGATGGACTACATGAAACGCAAGAGCCGCGAGTATGAGCAGCTCAAGAGCGAGTGGGCCACGCGAGCG
AACCCTGAGGACCTGGAATTCATCCGACGACGGTCTCAAGGATGTACTGCGCACTGACCGGGCCAC
CCCTACTATGCGGGGCTGAGGATGGCCACATCTACGGGCGCTGCACGACCTGCTCACCACCTATGCC
GTTACCCACCCACAGGTGCTCTACTGCCAGGGCATGAGTGACCTTGCCTCACCACCTCTCGTGTCTAG
GACCATGAGGGCCATGCCTTTGTTTGTCTTTGTGGCATCATGAAACGCCTGGCCGCCAACTTCCACCCT
GACGGCCGCGCCATGGCCACCAAGTTTGCACACTTGAAGCTGTTGCTGCGACACGCTGACCTGACTTT
TATCAATACCTGCAAGAGGCGAGGCGCTGATGACCTCTTCTTCTGTTACCGCTGGCTGCTGCTGGAATC
AAGCGTGAGTTTCGCCTTCGACGATGCCCTCCGCATGCTTGAGGTCACTTGGAGTTTCGCTGCCCTGAT
CCTCCTGAACATGAGGTAGAGCTGTTGGACCCCCAGCCAAGTGGCAGACGCTGGTTTGGTGGCCAC
AGGGGGTGGCCGTCGACAGAGGCACATGCTGAGGCTGCTGGTGGAGGAGGTAGTACCTTTGAAGAT
GCTGTTGACCACCTGGCCACAGCCAGTCAGGGGCTGGTGGTGGGGGCGTCTCCTGAGACAGGCCAGC
TTGGATGGCCTCCAGCAACTCAGGGATAACATGGGCTCCAGGAGGACCTCTGGTCCAGCTGCCCCAC
CCAGCTGCCCTTATCAGCTCCAAGTCCCTCTCTGAGCCTTTATTGAACTCCCCAGACCACTGCTCTCC
TCCTTTTCCACCCTGATTCCTCATCTCCACCATCCACCAGGAGGCTCTCCCACTGGT
GATATGGCTGTAGGATCCCCCTTGATGCAAGAGGTAGGCTCCCCGAAAGACCTGGAAGTCCCTGCCA
CCTGTACCACCAATGGGCTGCCCCACCCAGGAGTTTGGCCGGGGAAACCAATTATGCTGTTCTC
TGCCTGGCCATCCTGCTGGAGCACCAGCAGCACATCATGCGCAATGGGCTGGATTATAATGAGCTGGCC
ATGCACTTTGACCGCTTGTGCGAAACACCACCTGGGCGCGCTGCGCCGGGCTAGGGCTCTCTTT
GCTGTATTACCTGCAGTCAGAGGTGTGGACTCAGAGGAGGGGGTGAAGGCCACAGCCGATCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAAGAGGATCTGGCAGCAAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_002536

Insert Size:

2067 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation:

This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_002536.2
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]

Transcript Variant: This variant (3) uses an alternate in-frame splice junction compared to variant 1. The resulting isoform (c) has the same N- and C-termini but is shorter compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.