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Product datasheet for MC229293

Tbc1d1 (NM_001289514) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tbc1d1 (NM_001289514) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tbc1d1
Synonyms:	1110062G02Rik; AI385682; AW555803; mKIAA1108; Nob1; Nobq1; Tbc1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC229293 representing NM_001289514 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCACCATTGTTCAGCTGGGTGGCCAAGGTGCCTGAGATCATCAGCTCCATCCGGCAGGCCGGGAAGA TTGCCCGCCAGGAAGAGCTGCGTTGCCCCTCCGAGTTCGACGATACCTTCGCCAAAAAGTTCGAGGTGCT CTTCTGTGGCCGGGTGACTGTGGCTCACAAGAAGGCCCCACCCGCACTGATTGACGAGTGTATCGAGAAG TTCAACCATGTGAGCTGTGGTCGCAGAACGGACTGGGAAGCGCCCACCGGGCAGCCATCAGCGCCTGGCC CCAGGCCCATGCGCAAATCCTTCTCACAGCCTGGACTGCGCTCGCTGGCCTTCAGGAAGGAGTTCCAGGA CGCTAGCCTCCGCAGTAGCACCTTTAGCTCCTTTGACAATGACATAGAGAACCACCTCATCGGTGGGCAC AATGTGGTTCAGCCCACAGACATGGAGGAGAACCGAACTATGCTGTTCACGATTGGCCAATCTGAAGTTT ACCTCATCAGTCCTGACACCAAAAAGATTGCACTGGAGAAAAATTTTAAGGAGATATCCTTTTGCTCTCA GGGCATCAGACATGTGGACCACTTTGGATTCATCTGCCGAGAGTGCTCGGGTGGCGGCAGTGGCGGCTTT CATTTTGTCTGTTACGTGTTCCAGTGCACAAATGAAGCTCTGGTTGACGAGATCATGATGACTCTGAAGC AGGCTTTCACGGTAGCTGCGGTGCAGCAGACGGCTAAGGCACCAGCCCAGCTCTGTGAGGGCTGCCCCTT GCAAGGCCTGCACAAGCTCTGCGAAAGGATAGAGGGAATGAATTCATCTAAAACCAAATTAGAACTCCAG AAGCACTTGACCACACTGACCAATCAGGAGCAGGCCACCATATTCGAGGAGGTTCAGAAATTGAGACCAA GAAACGAGCAGCGAGAGAATGAATTAATTATTTCTTTTCTGAGGTGCTTATATGAAGAGAAGCAAAAAGA GCACAGCCACACTGGGGAGCCAAAGCAGACACTACAGGTGGCAGCAGAGAATATTGGGAGTGACCTGCCA CCCAGTGCTAGCCGGTTCAGGTTAGATTCGCTGAAGAACAGAGCAAAGAGGTCCTTAACAGAGTCCCTAG AGAGCATTCTGTCCCGGGGTAATAAAGCCAGAGGCCTGCAGGACCATTCCGCCAGTGTGGATCTGGACAG CTCCACTTCTAGTACTCTAAGTAACACCAGCAAAGAGCTGTCCATGGGTGACAAGGAGGCCTTCCCCGTC TCTGAGACCTCCTTCAAGCTCCTTGGCTCCTCAGATGACCTGTCCAGTGACTCAGAGGGCCACATTGCAG AAGAGTCTGCCCTGTTGTCACCCCAGCAGGCGTTCAGAAGGAGAGCCAACACCCTGAGTCATTTCCCAGT AGAGTGCCCTGCGCCTCCAGAACCTGCCCAGAGCTCTCCAGGGGTCTCTCAAAGGAAACTCATGCGGTAC CACTCCGTGAGCACAGAGACGCCTCATGAACGCAAGGACTTTGAATCCAAAGCAAACCACCTGGGTGACA

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CAGATGGGACCCCCGTGAAGACCCGGCGGCACTCGTGGAGACAGCAGATATTCCTTCGAGTGGCCACTCC
ACAGAAGGCTTGTGACTCCCCGAGCAGATATGAAGATTATTCCGAGCTGGGAGAGCTCCCTCCACGCTCC
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ACATGATTATTTTGCAGATCCAGATGTACCAGCTGTCACGGCTCCTCCACGATTACCACCGAGACCTCTA
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TCACAGTTCCCACTCGGCTTTGTAGCCAGAGTCTTTGATATGATCTTCCTTCAGGGATCAGAGGTCATAT
TTAAAGTAGCTTTAAGTCTTTTGGGGAGCCATAAGCCCTTGATTCTACAGCATGAGAACCTGGAAACCAT
AGTGGACTTCATAAAGAACACACTCCCCAACCTGGGCCTGGTGCAGATGGAGAAGACCATCAGTCAGGTG
TTTGAGATGGACATCGCCAAGCAGCTCCAGGCCTATGAGGTCGAGTACCACGTGCTCCAGGAGGAGCTTA
TTGAGTCCTCGCCTCTCAGTGACAACCAAAGAATGGAGAAATTGGAGAAAACCAACAGCAGCTTGCGCAA
ACAGAACCTTGACCTCCTGGAGCAGTTGCAGGTGGCAAATGCTAGGATCCAAAGCCTTGAAGCCACGGTA
GAGAAACTTCTTACCAGCGAGAGTAAGCTGAAGCAGGCTGCGCTGACCCTGGAGGTGGAGCGCTCCGCCC
TGCTGCAGATGGTGGAGGAGCTGCGGAGGCAAAGCGCCCGGCCCAGCACTCCAGAGCCAGACTGCACCCA
GCTGGAGCCCACAGGCGATTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001289514

Insert Size: 3102 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: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001289514.1, NP_001276443.1

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RefSeq Size:	4802 bp
RefSeq ORF:	3102 bp
Locus ID:	57915
Cytogenetics:	5 32.8 cM
Gene Summary:	May act as a GTPase-activating protein for Rab family protein(s). May play a role in the cell cycle and differentiation of various tissues. Involved in the trafficking and translocation of GLUT4-containing vesicles and insulin-stimulated glucose uptake into cells.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.

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