

Product datasheet for **RC238371**

TOM1L2 (NM_001288787) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TOM1L2 (NM_001288787) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TOM1L2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC238371 representing NM_001288787
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGTTCCTCCTGGGGAACCCGTTCAGCACACCAGTGGGGCAGTGCCTCGAAAAGGCAACAGATGGCT
 CCCTGCAAAGTGAGGATTGGACGTTGAATATGGAGATCTGTGACATCATCAATGAGACGGAGGAAGGGCC
 AAAGGATGCCATTCGAGCCCTGAAGAAGCGGCTCAACGGGAACCGAACTACAGAGAGGTGATGCTGGCA
 TTAACAGTGCTGGAGACATGTGTGAAGAACTGTGGCCACCGCTTCCACATCCTTGTGGCCAAACGAGATT
 TCATCGACAGTGTCTGGTCAAAATTATCTCCCAAGAACAACCCTCCCACCATTGTACAGGACAAAGT
 GCTTGCTCTGATCCAGAGTGTCCCTGAAGTGGATCCAGCTGCGACCATGCCAGGTCCCAATCACAGCAG
 AGGACAAGTGCTGGTTCCTATTCTCGCCGCTCTGCTCCCTACTCCGACCGCAGGCCCCAGCTCTGA
 GTGTGACTGGCCCATCACAGCCAATTCAGAACAGATTGCCAGGTGCGGAGTGAAGTGGACGTCGTTTCG
 AGGAAACACAAAAGTCATGTCTGAGATGTTAACAGAAATGGTCCCTGGACAGGAGGATTCATCTGATCTG
 GAGTTGCTGCAGGAGCTCAACAGGACCTGTGGGCCATGCAGCAGCGCATCGTGGAGCTCATCTCCGCG
 TGTCCAATGAGGAGGTCACCGAGGAGCTGCTGCATGTGAACGATGACCTCAACAACGCTCTTCCTTCGATA
 CGAGAGGTTTGAACGATACAGGTCTGGCCGATCCGTTCAAATGCCAGTAATGGAGTACTGAATGAAGTA
 ACCGAAGACAACCTTAATAGACCTGGGGCCAGGGTCTCCAGCCGTGGTGAGCCCAATGGTGGGGAACACAG
 CGCCCCCATCTTCCCTCTCCTCCAGCTTGACGGCTTAGACTTGGGGACAGAGAGCGTCAGTGGCACCCCT
 CAGTTCCTCCAGCAATGAATCCCGTGACGGCTTGACATGTTTGCCAGACGAGAGGAACTCCTTG
 GCTGAGCAGCGCAAGACGGTAACCTATGAGGATCCTCAGGCTGTCGGAGGACTTGCTTCTGCACTAGACA
 ATCGAAAACAGAGTTCAGAAGGGATCCCGTTGCGCAGCCATCTGTCATGGACGACATTGAGGTGTGGCT
 CAGGACCGACCTGAAGGGTGATGATCTGGAGGAGGGTGTCACAAGTGAAGAGTTTGATAAATTCCTTGAA
 GAAAGAGCCAAAGCTGCTGAAATGGTTCCCGACCTCCCTCGCCCCCATGGAGGCTCCTGCCCCAGCCT
 CAAACCCTTCTGGCCGAAGAAGCCAGAGCGGTGAGAGGATGCCCTCTTCGCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238371 representing NM_001288787
 Red=Cloning site Green=Tags(s)

MEFLLGNPFSTPVGQCLEKATDGSLSQSEDWTLNMEICDIINETEEGPKDAIRALKKRLNGNRNYREVMLA
 LTVLETVCVKNCGHRFHILVANRDFIDSVLVKIIISPKNNPPTIVQDKVLALIQSVPEVDPATMPRSQSQQ
 RTSAGSYSSPPAPYSAPQAPALSVTGPITANSEQIARLRSELDVVRGNTKVMSEMLTEMVPGQEDSSDL
 ELLQELNRTCRAQQRIVELISRVSNEEVTEELLHVNDLNNVFLRYERFERYRSGRSVQNASNGVLNEV
 TEDNLIDLPGSPAVVSPMVGNTAPPSSLSSQLAGLDLGTESVSGTSSLQQCNPRDGFDMFAQTRGNSL
 AEQRKTVTYEDPQAVGGLASALDNRKQSSEGIPVAQPSVMDDIEVWLRTDLKGDDLEEGVTSEEFDFKLE
 ERAKAAEMVPDLPSPMEAPAPASNPSGRKKPERSEDALFAL

TRTRPLE**QKLISEEDLAANDILDYKDDDDKV**

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001288787

ORF Size: 1386 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_001288787.2](#)

RefSeq Size: 5690 bp

RefSeq ORF: 1389 bp

Locus ID: 146691

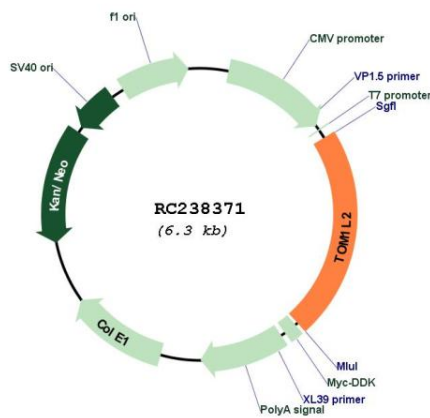
UniProt ID: Q6ZVM7

Cytogenetics: 17p11.2

MW: 51 kDa

Gene Summary: This gene belongs to a small gene family whose members have an N-terminal VHS domain followed by a GAT domain; domains which typically participate in vesicular trafficking. The canonical protein encoded by this gene also has a C-terminal clathrin binding motif. This protein has been shown to interact with Tollip, clathrin and ubiquitin and is thought to play a role in endosomal sorting. This gene resides in the 3.7 Mb deletion of chromosome region 17p11.2 that is associated with Smith-Magenis syndrome. Alternative splicing results in multiple transcript variants encoding distinct proteins. [provided by RefSeq, Apr 2017]

Product images:



Circular map for RC238371