

## Product datasheet for **RC237914**

### **TOM1L2 (NM\_001288788) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** TOM1L2 (NM\_001288788) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** TOM1L2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC237914 representing NM\_001288788  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAGTTCCTCCTGGGAACCCGTTCAACACACCAGTGGGGCAGTGCCTCGAAAAGCCAACAGATGGCT  
CCCTGCAAAGTGAGGATTGGACGTTGAATATGGAGATCTGTGACATCATCAATGAGACGGAGGAAGGGCC  
AAAGGATGCCATTCGAGCCCTGAAGAAGCGGCTCAACGGGAACCGGAACACTACAGAGAGGTGATGCTGGCA  
TTAACAGTGTGGAGACATGTGTGAAGAACTGTGGCCACCGCTTCCACATCCTTGTGGCCAACCGAGATT  
TCATCGACAGTGTCTGGTCAAAATTATATCTCCAAGAACAACCCCTCCACCATTGTACAGGACAAAGT  
GCTTGCTCTGATCCAGATTGCCAGGCTGCGGAGTGAAGTGGACGTCGTTTCGAGGAAAACAAAAAGTCATG  
TCTGAGATGTTAACAGAAATGGTCCCTGGACAGGAGGATTCATCTGATCTGGAGTTGCTGCAGGAGCTCA  
ACAGGACCTGTCGGGCCATGCAGCAGCGCATCGTGGAGCTCATCTCCCGCGTGTCCAATGAGGAGGTCAC  
CGAGGAGCTGCTGCATGTGAACGATGACCTCAACAACGCTTCTCCTTCGATACGAGAGGTTTCAACGATAC  
AGGTCTGGCCGATCCGTTCAAAATGCCAGTAATGGAGTACTGAATGAAGTAACCGAAGACAACCTTAATAG  
ACCTGGGGCCAGGCTCTCCAGCCGTGGTGAAGCCCAATGGTGGGGAACACAGCGCCCCCATCTTCCCTCTC  
CTCCAGCTTGCAGGCTTAGACTTGGGGACAGAGAGCGTCAAGTGGCACCCCTCAGTTCACTCCAGCAATGT  
AATCCCGTGACGGCTTTGACATGTTTGCCAGACGAGAGGAAACTCCTTGGCTGAGCAGCGCAAGACGG  
TAACCTATGAGGATCCTCAGGCTGTCGGAGGACTTGTCTTCTGACTAGACAATCGAAAACAGAGTTTCAAG  
AGGGAAGGGTGATGATCTGGAGGAGGTTGTCACAAGTGAAGAGTTTGATAAATTCCTTGAAGAAAGAGCC  
AAAGCTGCTGAAATGGTTCACGACCTCCCTCGCCCCCATGGAGGCTCTGCCAGCCTCAAACCCCTT  
CTGGCCGAAGAAGCCAGAGCGGTCAGAGGATGCCCTCTTCGCCCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC237914 representing NM\_001288788  
 Red=Cloning site Green=Tags(s)

MEFL LGNPFSTPVGQCLEKATDGS LQSEDWTLNMEICDIINETEEGPKDAIRALKKRLNGNRNYREVMLA  
 LTVLETVCVKNCGRHFHILVANRDFIDSVLVKII SPKNNPPTIVQDKVLALI QIARLRSELDVVRGNTKVM  
 SEMLTEMVPGQEDSSDLELLQELNRTC RAMQQRIVELISRVSNEEVTEELLHVNDLNNVFLRYERFERY  
 RSGRSVQNASNGVLNEVTEDNLIDLGP GSPAVVSPMVGNTAPSSLS SSQLAGLDLGTESVSGTLSSLQQC  
 NPRDGFDMFAQTRGNSLAEQRKTVTYEDPQAVGLASALDNRKQSSEKGGDDLEEGVTSEEFDFLEERA  
 KAAEMVPDLPSPMEAPAPASNPSGRKKPERSEDALFAL

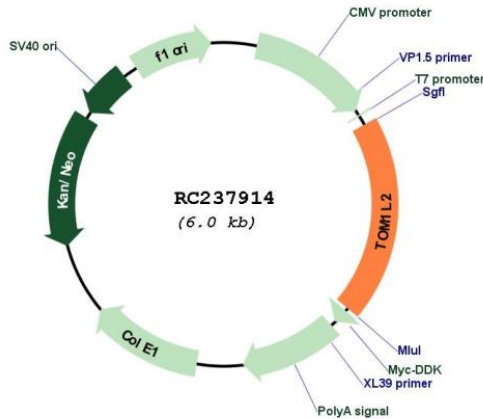
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001288788

<b>ORF Size:</b>	1167 bp
<b>OTI Disclaimer:</b>	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>
<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>RefSeq:</b>	<a href="#">NM_001288788.2</a>
<b>RefSeq Size:</b>	5471 bp
<b>RefSeq ORF:</b>	1170 bp
<b>Locus ID:</b>	146691
<b>UniProt ID:</b>	<a href="#">Q6ZVM7</a>
<b>Cytogenetics:</b>	17p11.2
<b>MW:</b>	43.3 kDa
<b>Gene Summary:</b>	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]