

## Product datasheet for **RC208524**

### **TOM1 (NM\_005488) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TOM1 (NM_005488) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TOM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC208524 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACTTTCTCCTGGGAACCCGTTCACTCTCCAGTGGGACAGCGCATCGAGAAAGCCACAGATGGT  
 CCCTGCAGAGCGAGGACTGGGCCCTCAACATGGAGATCTGCGACATCATCAACGAGACGGAGGAAGTCC  
 CAAAGATGCCCTCCGAGCAGTAAAGAAGAGAATCGTGGGAATAAGAACTTCCACGAGGTGATGCTGGT  
 CTCACAGTCTTAGAAACCTGTGTCAAGAACTGCGGGCACCGCTTCCACGTGCTGGTGGCCAGCCAGGACT  
 TCGTGGAGAGTGTGCTGGTGGAGACCATCTGCCAAGAACAACCCACCCACCATCGTGCATGACAAAGT  
 GCTCAACCTCATCCAGTCTGGGCTGACGCGTTCGCGAGCTCGCCGATCTGACAGGTGTGGTACCATC  
 TATGAGGACCTGCGGAGGAAAGGCTGGAGTTCCCATGACTGACCTGGACATGTGTACCCATCCACA  
 CACCCAGAGGACCGTGTCAACTCAGAGACACAATCAGGACAGGATTCTGTGGGACTGACTCCAGCCA  
 GCAAGAGGACTCTGGCCAGCATGTGCCCTCTGCCCGCCCGCCATACTCTCCGGTGACACGCCATA  
 GCACCAACCCCGAACAGATTGGGAAGCTGCGCAGTGAGCTGGAGATGGTGGTGGGAACGTGAGGGTGA  
 TGTCCGAGATGCTGACGGAGCTGGTGCCACCCAGGCCGAGCCCGACAGCTGGAGCTGTGCAGGAGCT  
 CAACCGCACGTGCCGAGCCATGCAGCAGCGGTCTGGAGCTCATCCCTCAGATCGCAATGAGCAGCTG  
 ACAGAGGAGCTGCTCATCGTCAATGACAATCTCAACAATGTGTTCTGCGCCATGAACGGTTTGAACGGT  
 TCCGAACAGGCCAGACCACCAAGGCCCAAGTGAAGGCCGAGCCGCGAGCTGACCTGATCGACATGGGCC  
 TGACCCAGCAGCCACCGCAACCTCTCATCCAGCTGGCAGGAATGAACCTGGGCTCCAGCAGTGTGAGA  
 GCTGGCCTGCAGTCTCTGGAGGCTCTGGTGCAGTGAAGATGAGTTTGACATGTTTGCCTGACACGGG  
 GCAGTCACTGGCTGACCAACGAAAGAGGTAATAACGAAGCCCAAGCAACAGCGCTGGCTGG  
 AGCCCTGGACGCCCGGCAGCAGAGCACTGGCGCATCCAGTCAACCCAGGCTGCCTCATGGAGGACATC  
 GAGCAGTGGCTGTCCACTGACGTGGTAATGATGCGGAAGAGCCTAAGGGGGTACCAGCGAAGGTAAT  
 TTGACAAATTCCTGGAAGAACGGGCCAAAGCCGCGGACCGATTGCCAACCTCTCCAGCCCTCAGCTGA  
 GGGGCCCCGGTCCCCATCTGGCCAGCGCCCGGAAGAAGACCCAGGAGAAAGATGATGACATGCTG  
 TTTGCCTTA

**ACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAA**  
**TTACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

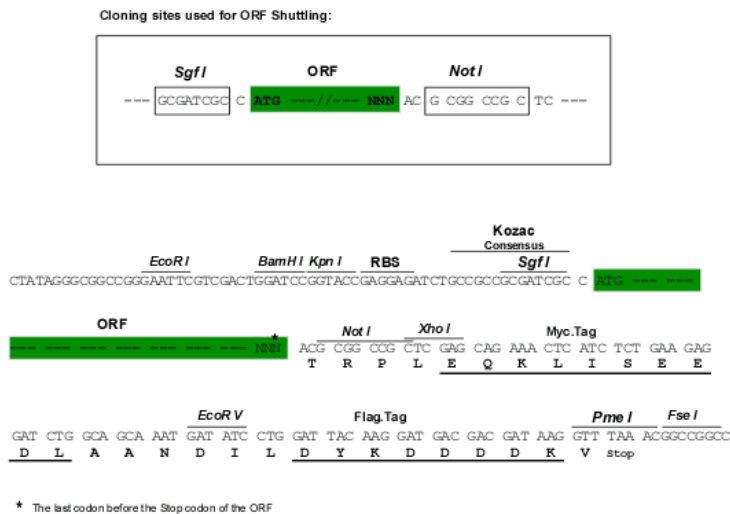
>RC208524 protein sequence  
 Red=Cloning site Green=Tags(s)

MDFLLGNPFSSPVGQRIEKATDGSLSQEDWALNMEICDIINETEEGPKDALRAVKKRIVGNKNFHEVMLA  
 LTVLETCVKNCGHRFHVLVASQDFVESVLVRTILPKNNPPTIVHDKVLNLIQSWADAFRSPDLTGVTI  
 YEDLRRKGLFPMTDLMLSPIHTPQRTVFNSETSQSGQDSVGTDSQQEDSGQHAAPLPAPPILSGDTPI  
 APTPEQIGKLRSELEMVSGNVRVMSEMLTEL VPTQAEPADLELLQELNRTC RAMQQRVLELIPQIANEQL  
 TEELLIVNDLNNVFLRHERFERFRTGQTTKAPSEAEPADLIDMGPDPAATGNLSSQLAGMNLGSSSVR  
 AGLQSLASGRLEDFDMFALTRGSSLADQRKEVKYEAQATDGLAGALDARQQSTGAIPVTQAACLMEI  
 EQWLSTDVGNDAEPEKGVTSSEKFKDFLEERAKAADRLPNLSSPSAEGPPGPPSGPAPRKKTQEKDDDM  
 FAL

**TRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-NotI

**Cloning Scheme:**


**ACCN:** NM\_005488

**ORF Size:** 1479 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\\_005488.3](#)

**RefSeq Size:** 2396 bp

**RefSeq ORF:** 1479 bp

**Locus ID:** 10043

UniProt ID: [O60784](#)

Cytogenetics: 22q12.3

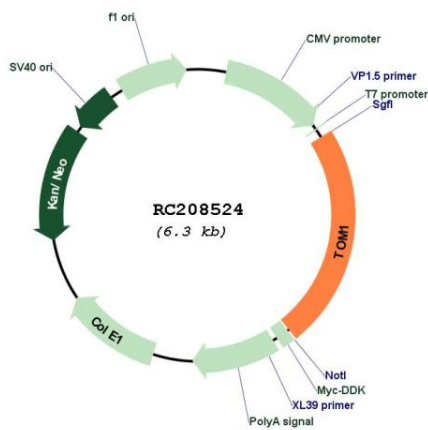
Domains: VHS, GAT

Protein Families: Druggable Genome

MW: 53.9 kDa

**Gene Summary:** This gene was identified as a target of the v-myb oncogene. The encoded protein shares its N-terminal domain in common with proteins associated with vesicular trafficking at the endosome. It is recruited to the endosomes by its interaction with endofin. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]

**Product images:**



Circular map for RC208524