

## Product datasheet for **RC227126**

### **TOM1 (NM\_001135729) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TOM1 (NM_001135729) 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:**

>RC227126 representing NM\_001135729  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGACTTTCTCCTGGGAACCCGTTCACTCTCCAGTGGGACAGCGCATCGAGAAAGCCACAGATGGT  
 CCCTGCAGAGCGAGGACTGGGCCCTCAACATGGAGATCTGCGACATCATCAACGAGACGGAGGAAGTCC  
 CAAAGATGCCCTCCGAGCAGTAAAGAAGAGAATCGTGGGAATAAGAAGTTCCACGAGGTGATGCTGGT  
 CTCACAGTCTTAGAAACCTGTGTCAAGAACTGCGGGCACCGCTTCCACGTGCTGGTGGCCAGCCAGGACT  
 TCGTGGAGAGTGTGCTGGTGGAGACCATCTGCCAAGAACAACCCACCCACCATCGTGCATGACAAAGT  
 GCTCAACCTCATCCAGTCTGGGCTGACGCGTTCGCGAGCTCGCCGATCTGACAGGTGTGGTACCATC  
 TATGAGGACCTGCGGAGGAAAGGCTGGAGTTCCTCATGACTGACCTGGACATGCTGTACCCATCCACA  
 CACCCAGAGGACCGTGTCAACTCAGAGACACAATCAGGACAGGATTCTGTGGGACTGACTCCAGCCA  
 GCAAGAGGACTCTGGCCAGCATGTGCCCTCTGCCCGCCCGCCATACTCTCCGGTACACGCCCCATA  
 GCACCAACCCCGAACAGATTGGGAAGCTGCGCAGTGAGCTGGAGATGGTGGTGGGAACGTGAGGGTGA  
 TGTCCGAGATGCTGACGGAGCTGGTGCCACCCAGGCCGAGCCCGAGACCTGGAGCTGTGCAGGAGCT  
 CAACCGCACGTGCCGAGCCATGCAGCAGCGGTCTGGAGCTCATCCCTCAGATCGCAATGAGCAGCTG  
 ACAGAGGAGCTGCTCATCGTCAATGACAATCTCAACAATGTGTTCTGCGCCATGAACGGTTTGAACGGT  
 TCCGAACAGGCCAGACCACCAAGGCCCAAGTGGGCGGAGCCGCGAGCTGACCTGATCGACATGGGCC  
 TGACCCAGCAGCCACCGCAACCTCTCATCCAGCTGGCAGGAATGAACCTGGGCTCCAGCAGTGTGAGA  
 GCTGGCCTGCAGTCTCTGGAGGCTCTGGTCCAGTGGAAAGATGAGTTTGACATGTTTGGCTGACACGGG  
 GCAGTCACTGGCTGACCAACGGAAGAGGTAATAACGAAGCCCAAGCAACAGACGGCTGGCTGG  
 AGCCCTGGACGCCCGGCAGCAGAGCACTGGCGCATCCAGTACCCAGGCTGCCTCATGGAGGACATC  
 GAGCAGTGGCTGTCCACTGACGTGGTAATGATGCGGAAGAGCCTAAGGGGGTACCAGCGAAGGTAAT  
 TTGACAAATTCCTGGAAGAACGGGCCAAAGCCGCGGACCGATTGCCAACCTCTCCAGCCCTCAGCTGA  
 GGGGCCCCGGTCCCCATCTGGCCAGCGCCCGGAAGAAGACCCAGGAGAAAGATGATGACATGCTG  
 TTTGCCTTA

**ACGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAA**  
**TTACAAGGATGACGACGATAAAGTTTAA**

**Protein Sequence:**

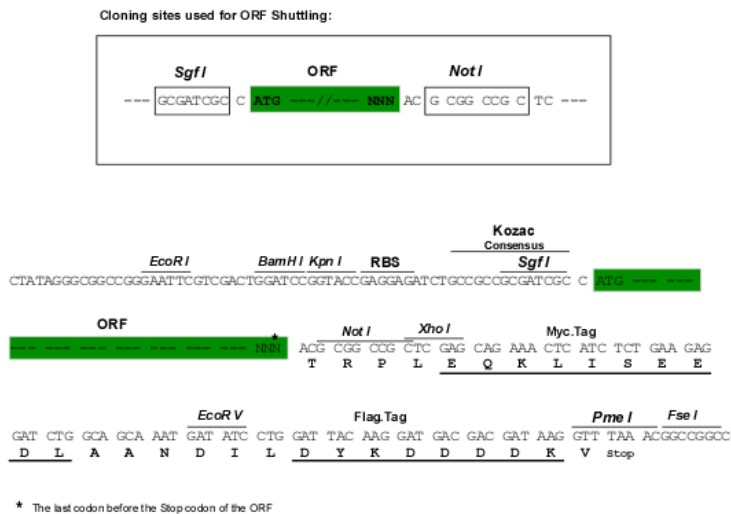
>RC227126 representing NM\_001135729  
 Red=Cloning site Green=Tags(s)

MDFLLGNPFSSPVGQRIEKATDGSLSQEDWALNMEICDIINETEEGPKDALRAVKKRIVGNKNFHEVMLA  
 LTVLETVCVKNCGHRFHVLVASQDFVESVLVRTILPKNNPPTIVHDKVLNLIQSWADAFRSSPDLTGVVTI  
 YEDLRRKGLFPMTDLMLSPIHTPQRTVFNSEQSGQDSVGTDSQQEDSGQHAAPLPAPPILSGDTPI  
 APTPEQIGKLRSELEMVSGNVRVMSEMLTEL VPTQAEPADLELLQELNRTCRAQQRVLELIPQIANEQL  
 TEELLIVNDLNNVFLRHERFERFRTGQTTKAPSEAEPADLIDMGPDPAATGNLSSQLAGMNLGSSSVR  
 AGLQSLASGRLEDFDMFALTRGSSLADQRKEVKYEAQATDGLAGALDARQQSTGAIPVTQAACLMEI  
 EQWLSTVDVGNDAEPEKGVTSSEKFKDFLEERAKAADRLPNLSSPSAEGPPGPPSGPAPRKKTQEKDDDM  
 L

**TRPLEQKLI SEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-NotI

**Cloning Scheme:**


**ACCN:** NM\_001135729

**ORF Size:** 1482 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.

**RefSeq:** [NM\\_001135729.1](#), [NP\\_001129201.1](#)

**RefSeq Size:** 2326 bp

**RefSeq ORF:** 1383 bp

**Locus ID:** 10043

**UniProt ID:** [O60784](#)

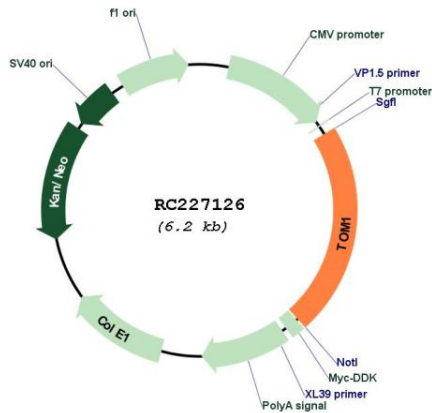
**Cytogenetics:** 22q12.3

**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 RC227126