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Product datasheet for RC224746

TOM1L1 (NM_005486) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TOM1L1 (NM_005486) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TOM1L1
Synonyms:	SRCASM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224746 representing NM_005486
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGTTTGGCAAGAGTCACCGGGATCCCTACGCGACCTCCGTGGGCCACCTCATAGAAAAGGCTACAT
TTGCTGGAGTTCAGACTGAAGATTGGGGCCAGTTCATGCACATCTGTGACATAATTAACACTACCCAGGA
TGGGCCAAAAGATGCAGTGAAAGCTTTGAAGAAAAGGATTTCCAAAAACTACAATCATAAAGAAATCCAA
CTTACCTTGTCACTTATTGACATGTGTGTGCAGAACTGTGGTCCAAGTTTCCAGTCTCTGATTGTGAAGA
AGGAATTTGTTAAAGAGAATTTAGTTAAGCTACTGAATCCCAGATACAACTTGCCATTAGACATTCAGAA
TAGAATCTTGAATTTCATTAAGACTTGGTCACAGGGCTTCCCAGGAGGTGTGGATGTAAGCGAAGTCAAA
GAAGTATACCTCGACCTGGTTAAGAAAGGCGTTCAGTTTCCTCCCTCAGAAGCAGAGGCTGAAACAGCAA
GACAAGAGACTGCTCAAATCTCATCAAATCCTCCAACATCTGTCCCTACTGCACCAGCTCTTTCTTCTGT
AATTGCTCCAAAGAACTCGACTGTTACATTGGTCCCAGAACAGATTGGAAAACTGCACAGTGAATTGGAT
ATGGTGAAAATGAATGTGCGAGTGATGTCCGCCATATTGATGGAGAATACTCCTGGGTCTGAAAACCATG
AAGACATAGAGCTTCTGCAGAAACTCTATAAAACAGGTCGGGAGATGCAGGAGAGGATCATGGACCTGCT
TGTGGTGGTGGAGAACGAAGATGTAACTGTTGAGCTAATTCAGGTGAATGAGGATTTGAATAATGCTATC
CTTGGATATGAGAGGTTTACTAGAAACCAACAAAGGATTTTGGAGCAAAATAAGAACCAGAAGGAAGCCA
CCAATACTACCAGTGAGCCTTCTGCCCCATCTCAAGATCTCCTCGACCTAAGTCCCAGTCCCCGGATGCC
TAGGGCCACTCTGGGAGAACTCAACACCATGAATAATCAACTTTCAGGCTTAAATTTCAGCCTTCCAAGT
TCTGATGTAACAAACAACTTAAAACCCAGTCTTCATCCACAGATGAACTTGCTAGCCTTGGAGAATACAG
AGATACCCCCGTTTGCCCAAAGGACCAGCCAAAACCTCACCTCAAGCCACGCATATGATAATTTTCTGGA
ACATTCAAATTCAGTGTTTCTACAGCCAGTTAGTCTACAAACCATTGCAGCAGCACCATCAAACCAGAGT
CTGCCACCTTTGCCCAGCAATCATCCAGCGATGACAAAAAGTGATCTCCAGCCACCTAATTACTACGAGG
TAATGGAGTTTGATCCCTTAGCTCCTGCTGTCACTACAGAAGCTATTTATGAAGAAATTGATGCTCACCA
GCACAAAGGAGCTCAAAATGATGGTGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC224746 representing NM_005486
Red=Cloning site Green=Tags(s)

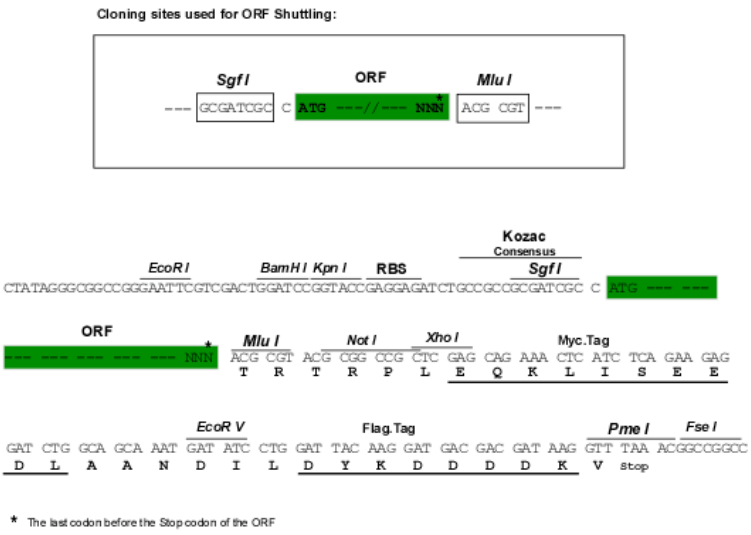
MAFGKSHRDPYATSVGHLIEKATFAGVQTEDWGQFMHICDIINTTQDGPKDAVKALKKRISKNYNHKEIQ
LTLSLIDMCVQNCGPSFQSLIVKKEFVKENLVKLLNPRYNLPLDIQNRILNFIKTWSQGFPGGVDVSEVK
EVYLDLVKKGVQFPPSEAEAETARQETAQISSNPPTSVPTAPALSSVIAPKNSTVTLVPEQIGKLHSELD
MVKMNVRVMSAILMENTPGSENHEDIELLQKLYKTGREMQERIMDLLVVVENEDVTVELIQVNEDLNNAI
LGYERFTRNQQRILEQNKNQKEATNTTSEPSAPSQDLLDLSPSPRMPRATLGELNTMNNQLSGLNFSLPS
SDVTNNLKPSLHPQMNLLALENTEIPPFAQRTSQNLTSSHAYDNFLEHSNSVFLQPVSLQTIAAAPSNQS
LPPLPSNHPAMTKSDLQPPNYYEVMEFDPLAPAVTTEAIYEEIDAHQHKGAQNDGD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6482_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005486

ORF Size: 1428 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_005486.3

RefSeq Size: 2177 bp

RefSeq ORF: 1431 bp

Locus ID: 10040

UniProt ID: O75674

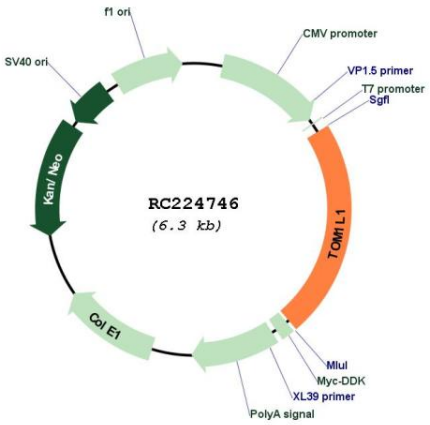
Cytogenetics: 17q22

Domains: VHS, GAT

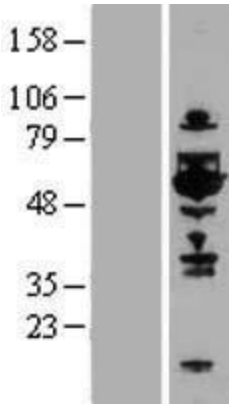
MW: 52.8 kDa

Gene Summary: Probable adapter protein involved in signaling pathways. Interacts with the SH2 and SH3 domains of various signaling proteins when it is phosphorylated. May promote FYN activation, possibly by disrupting intramolecular SH3-dependent interactions (By similarity). [UniProtKB/Swiss-Prot Function]

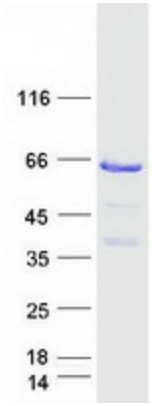
Product images:



Circular map for RC224746



Western blot validation of overexpression lysate (Cat# [LY417271]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224746 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TOM1L1 protein (Cat# [TP324746]). The protein was produced from HEK293T cells transfected with TOM1L1 cDNA clone (Cat# RC224746) using MegaTran 2.0 (Cat# [TT210002]).