

Product datasheet for **MR208336**

Tor1aip1 (NM_144791) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tor1aip1 (NM_144791) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tor1aip1
Synonyms:	LAP1; Lap1B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR208336 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGCGGGAGAAAGGTGGCAGGCCGAGGGGCCGAGAAGGCTGGGCCATCTACGTACACCCAGAGCCC
 CCATCCGGGAGGGAAGGCGGAGGCTCGACCCGCGAAATGGCGACAGCAGTGACGCGCCTGCGTACGGAGC
 TACCCCGTCGCGCCGCGACGACGGGAAGTGAGGTTTTAGAGGAGCCGCGAGAAGTGACGGCGACTTC
 GAGCCCCGGGCGGCCAAAGAAAGGTCTCCGGGGGGAGACGAACCCCGCCAGAAAAGTTCGGCCGGCTT
 CTGCGGGAGAGGAAGTGAGAGAAAGCGCTTACAACCTTCGCTCTCGACCACGGAGGCAGCGGCGAGCCCA
 GGAAGCCGAGGAGATGAAGACGCGGAGGTCTGCTCGCCTTGAGCAGCACTCACAGCAGCCGAGCTGTCT
 CCGGCCACCGCGGCCGAGGGTTACGGGACTCTCCGTCTCCAGTGAGGACCGCAAGAGGATGAACCTT
 CTTCCCGACCTGTTACAAGCCAAACAGCCTCAAAGAAAATCTTAGAACACCCAGAGGCTTCAGTGATGAA
 TGAAGACCTATAAGCAACTTATGCAGACCCCCATTAAGAAGCCCAAGACTTGACTCAACATACCAAACA
 AATGGAATACTAAAACGAATGAAAGAGAAGCTACCATTTGTCCAACAGGTCAATTTCTTGAAGAAGGAG
 AAACCGAAGATGATCTCGAGAGCTCTTACAGTGACATCACTATCAGGGCCAGATCCAGCAATTTCTTTGA
 GTCAAGAGAATCGGCTATCCATCACCCAAATGAACCTTCTGTCAAGATAAAGTGGTGGCTGCTGGGACTT
 GTTGCCATCCTTGCACTGGGACTATTTTGGTCTTTTATACCCCTGCAGTGGAACCACTGCCGTTCAAG
 AATTCCAGAACAGATGAAGCAACTCCAGTCTAAGTACCAGAGTCAAAACGAGAAGCTGTGGAAGAGAGG
 CACCACCTTCTAGAAAAACATCTGAATAGCTCCCTCCCTCGGCCCGAGCTGCCATCCTGTTGCTCACT
 GCAGCTCAAGATGCTGCAGAAGTGTCAAGTGTCTGAGTGAACAAATTGCCGATGCCTACTCCTCCTTCC
 GTAGTGTCCGTGCCATCCGATTGACGGGGCAGGTAAGCTGCTCAGGACAGTGACCTCGTTAAGCATGA
 AGTCGATCAGGAGCTGACTGATGGATTTAAAAATGGCCAGAATGCAGCTGTGGTACACCGCTTCGAATCC
 CTGCTGCTGGCTCAACCTTGATCTTCTATAAATACTGTGACCATGAAAATGCAGCCTTCAAAGATGTAG
 CCCTCGTCTGACTGTACTGTTGGAGGAGAAGACGCTGGAAGCCAGTTTAGGCCTAAAGGAAATTGAAGA
 GAAAGTGAGGGATTTCTTAAAGTCAAGTTCACCAGCTCTAGCACTGCCAGCTCTACAACCACATGGAC
 CCAGACAAGCTGAATGGGCTCTGGAGCCGCATCTCCACCTCGTGCTGCCTGTGCAGCCTGAGAACACTC
 TGAAGCAGGCAGCTGCTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208336 protein sequence
 Red=Cloning site Green=Tags(s)

MAGERWQAEGPGEGWAIYVTPRAPIREGRRRLDPRNGDSSDAPAYGAHPSRRGRREVRFSEEPAEVYGDF
 EPRAAKERSPPGRRTPPEKFRPASAGEEVRESAYNLSRPRRQRRRAQEAEMKTRRSARLEQHSQQPQLS
 PATSGRGLRDSPPSSSEDREEDEPSSRPVTSQTASKKTLRTPEASVMNEDPISNLCRPPLRSPRLDSTYQT
 NGNTKTNEREATIVQQVNFEEGETEDDLESSYSDITIRARSSNSLESRESAIIHPNEPSVKIKWLLGL
 VAILAVGLFWFFHTPAVETTAVQEFQNMQLQSKYQSQNEKLWKRGTTFLEKHLNSSLRPQPAILLLT
 AAQDAAEVLKCLSEQIADAYSSFRSVRAIRIDGAGKAAQSDLVKHEVDQELTDGFKNGQNAAVVHRFES
 LPAGSTLIFYKYCDHENAAFKDVALVTVLLEEKLEASLGLKEIEEKVRDFLKVKFTSSSTASSYNHMD
 PDKLNLWSRISHLVLPVQPENTLKAGSCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_144791

ORF Size: 1560 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_144791.1](#), [NP_659040.1](#)

RefSeq Size: 4134 bp

RefSeq ORF: 1563 bp

Locus ID: 208263

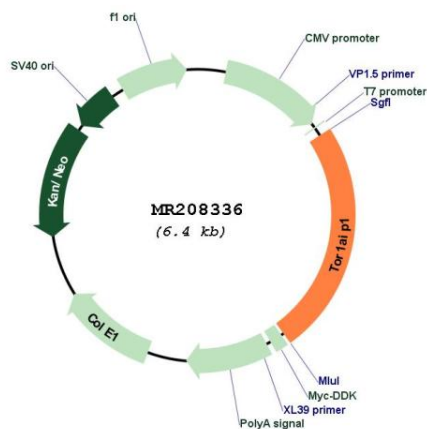
UniProt ID: Q921T2

Cytogenetics: 1 G3

MW: 58.4 kDa

Gene Summary: Required for nuclear membrane integrity. Induces TOR1A and TOR1B ATPase activity and is required for their location on the nuclear membrane. Binds to A- and B-type lamins. Possible role in membrane attachment and assembly of the nuclear lamina.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208336