

## Product datasheet for **MG208336**

### **Tor1aip1 (NM\_144791) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |                                             |
|---------------------------|---------------------------------------------|
| Product Type:             | Expression Plasmids                         |
| Product Name:             | Tor1aip1 (NM_144791) Mouse Tagged ORF Clone |
| Tag:                      | TurboGFP                                    |
| Symbol:                   | Tor1aip1                                    |
| Synonyms:                 | LAP1; Lap1B                                 |
| Mammalian Cell Selection: | Neomycin                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                      |



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**ORF Nucleotide Sequence:**

>MG208336 representing NM\_144791  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGGC**

ATGGCGGGAGAAAGGTGGCAGGCCGAGGGGCCGAGAAGGCTGGGCCATCTACGTCACACCCAGAGCCC  
 CCATCCGGGAGGGAAGGCGGAGGCTCGACCCGCGAAATGGCGACAGCAGTGACGCGCCTGCGTACGGAGC  
 TACCCCGTCGCGCCGCGACGACGGGAAGTGAGGTTTTAGAGGAGCCGCGAGAAGTGACGGCGACTTC  
 GAGCCCCGGGCGGCCAAAGAAAGGTCTCCGGGGGGAGACGAACCCCGCCAGAAAAGTTCGGCGCGGCTT  
 CTGCGGGAGAGGAAGTGAGAGAAAGCGCTTACAACCTTCGCTCTCGACCACGGAGGCAGCGGCGAGCCCA  
 GGAAGCCGAGGAGATGAAGACGCGGAGGTCTGCTCGCCTTGAGCAGCACTCACAGCAGCCGAGCTGTCT  
 CCGGCCACCGCGGCCGAGGGTTACGGGACTCTCCGTCCTCCAGTGAGGACCGCGAAGAGGATGAACCTT  
 CTTCCCGACCTGTTACAAGCCAAACAGCCTCAAAGAAAACCTTAGAACACCCAGAGGCTTCAGTGATGAA  
 TGAAGACCTATAAGCAACTTATGCAGACCCCCATTAAGAAGCCCAAGACTTGACTCAACATACCAAACA  
 AATGGAATACTAAAACGAATGAAAGAGAAGCTACCATTTGTCCAACAGGTCAATTTCTTCGAAGAAGGAG  
 AAACCGAAGATGATCTCGAGAGCTCTTACAGTGACATCACTATCAGGGCCAGATCCAGCAATTTCTTTGA  
 GTCAAGAGAATCGGCTATCCATCACCCAAATGAACCTTCTGTCAAGATAAAGTGGTGGCTGCTGGGACTT  
 GTTGCCATCCTTGCACTGGGACTATTTTGGTCTTTTATACCCCTGCAGTGGAACCACTGCCGTTCAAG  
 AATTCCAGAACCAGATGAAGCAACTCCAGTCTAAGTACCAGAGTCAAAACGAGAAGCTGTGGAAGAGAGG  
 CACCACCTTCTAGAAAAACATCTGAATAGCTCCCTCCCTCGGCCCGAGCTGCCATCCTGTTGCTCACT  
 GCAGCTCAAGATGCTGCAGAAGTGTCAAGTGTCTGAGTGAACAAATTGCCGATGCCTACTCCTCCTTCC  
 GTAGTGTCCGTGCCATCCGATTGACGGGGCAGGTAAGCTGCTCAGGACAGTGACCTCGTTAAGCATGA  
 AGTCGATCAGGAGCTGACTGATGGATTTAAAAATGGCCAGAATGCAGCTGTGGTACACCGCTTCGAATCC  
 CTGCTGCTGGCTCAACCTTGATCTTCTATAAATACTGTGACCATGAAAATGCAGCCTTCAAAGATGTAG  
 CCCTCGTCTGACTGTACTGTTGGAGGAGAAGACGCTGGAAGCCAGTTTAGGCCTAAAGGAAATTGAAGA  
 GAAAGTGAGGGATTTCTTAAAGTCAAGTTCACCAGCTCTAGCACTGCCAGCTCCTACAACCACATGGAC  
 CCAGACAAGCTGAATGGGCTCTGGAGCCGCATCTCCACCTCGTGTGCTGTGCAGCCTGAGAACACTC  
 TGAAGCAGGCAGCTGCTTA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG208336 representing NM\_144791  
 Red=Cloning site Green=Tags(s)

MAGERWQAEGPGEGWAIYVTPRAPIREGRRRLDPRNGDSSDAPAYGAHPSRRGRREVRFSEEPAEVYGDF  
 EPRAAKERSPGGRRTPPEKFRPASAGEEVRESAYNLSRPRRQRRRAQEAEMKTRRSARLEQHSQQPQLS  
 PATSGRGLRDPSSSEDREEDEPSSRPVTSQTASKKTLRTPEASVMNEDPISNLCRPPLRSPRLDSTYQT  
 NGNTKTNEREATIVQQVNFEEGETEDDLESSYSDITIRARSSNSLESRESAIIHPNEPSVKIKWWLLGL  
 VAILAVGLFWFFHTPAVETTAVQEFQNMQLQSKYQSQNEKLWKRGTTFLEKHLNSSLPRPQPAILLT  
 AAQDAAEVLKCLSEQIADAYSSFRSVRAIRIDGAGKAAQSDLVKHEVDQELTDGFKNGQNAAVVHRFES  
 LPAGSTLIFYKYCDHENAAFKDVALVLTVLLLEKTLEASLGLKEIEEKVRDFLKVKFTSSSTASSYNHMD  
 PDKLNLWSRISHLVLPVQPENTLKAGSCL

**TRTRPLE** – GFP Tag – V

**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:** 1781 bp

**RefSeq ORF:** 1563 bp

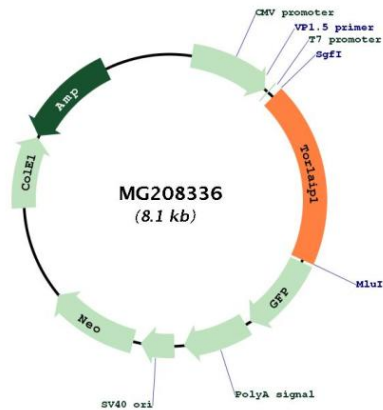
**Locus ID:** 208263

UniProt ID: Q921T2

Cytogenetics: 1 G3

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 MG208336