

Product datasheet for **RG234496**

TOR1AIP1 (NM_001267578) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TOR1AIP1 (NM_001267578) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TOR1AIP1
Synonyms:	LAP1; LAP1B; LAP1C; LGMD2Y
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG234496 representing NM_001267578
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGCGGGCGACGGGCGGCGGGCAGAGGCGGTGCGGGAAGGATGGGGTGTGTACGTCACCCCCAGGGCCC
 CCATCCGAGAGGGAAGGGGCGGCTCGCCCTCAAAATGGCGGCAGCAGCGATGCGCCTGCGTACAGAAC
 TCTCCGTCGCGCCAGGGCGGCGGGAAGTGAGGTTCTCGGACGAGCCGCCAGAAGTGACGGCGACTTC
 GAGCCCCTGGTGCCAAAGAAAGGTCCCGGTGGGAAAACGAACCCGGCTAGAAGAGTTCGGTCCGATT
 CTGCGAAAGAGGAAGTGAGAGAAAGCGCTACTACCTTCGGTCTAGGCAGCGGAGGCAGCCGCGACCCCCA
 GGAAACCGAGGAAATGAAGACGCGAAGGACTACCCGCTTCAGCAGCAGCACTCAGAGCAGCCTCCGCTA
 CAGCCGCTCCTGTTATGACCAGGAGAGGGCTGCGGGACTCTATTCTCTGAAGAGGATGAAGCATCTT
 CCCAACTGATTTAAGCCAAACGATCTCAAAGAAAAGTGTGAGGAGCATACAAGAGGCTCCAGCAGTGAG
 TGAAGATCTTGAATCAGGTTACGTCGACCCCTCTAAGATACCAAGATATGAAGCCACCAAGTGTCCAA
 CAGAAGGTCAATTTCTCTGAAGAAGGAGAACTGAAGAAGATGATCAAGACAGCTCTCACAGCAGTGTC
 CTAAGTGAAGGCCAGATCCAGGGATTCTGATGAATCTGGAGATAAAACCACCAAGATCATCTAGTCAATA
 TATAGAATCATTTTGGCAGTCATCACAAGTCAAACTTCACAGCTCATGATAAGCAACCTTCAGTGCTA
 AGCTCAGGATATCAAAAACTCCCAGGAATGGGCCCCACAACTGCAAGAATAAGGACCAGGATGCAAA
 ATGACAGCATTCTGAAATCAGAGCTTGGAAACCACTCACCATCAACCTCCAGCCGACAAGTACTGGACA
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 ATCAACTTAAGAATAAGTACCAAGGTCAAGATGAGAAGCTGTGAAAAGGAGCCAAACATTCTTGAAAA
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 GAAGCACTTAGGTGTCTGAGTGAACAAATTGCTGATGCCTATTCTTTCTTTTCGTAGTGCCGTGCCATCC
 GGATTGATGGGACAGATAAAGCTACTCAAGACAGTGATACTGTCAAACTAGAGGTAGACCAAGAAGTGA
 CAATGGATTTAAGAATGGCCAGAATGCAGCTGTGGTACACCGCTTTGAGTCATTTCCCGCAGGCTCTACT
 TTGATCTTCTACAAATATTGTGACCATGAAAACGCGCCTTCAAAGATGTAGCCTTAGTCTGACTGTCT
 TATTGGAGGAAGAGACACTTGAACAAGTCTAGGCCTAAAGGAAGTTGAAGAAAAAGTAAGAGATTTTCT
 TAAAGTCAAGTTCACCAATTCTAACACACCAACTCTACAATCATATGGACCCAGACAACTGAATGGC
 CTCTGGAGCCGTATTTCTCACTTAGTTCTGCCTGTGCAACCTGAAAATGCCCTGAAAAGGGGCATCTGCT
 TA

ACGCGTACGCGGCGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

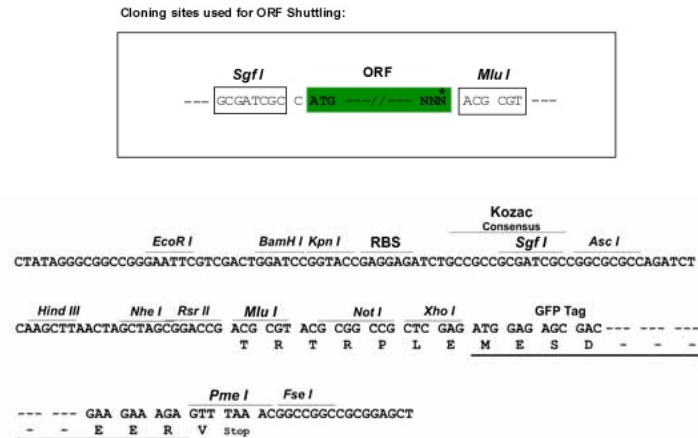
>RG234496 representing NM_001267578
 Red=Cloning site Green=Tags(s)

MAGDGRRAEAVREGWGVYTPRAPIREGRRLAPQNGSSDAPAYRTPPSRQGRREVRFSDPEPEVYGDF
 EPLVAKERSPVGKRTRLEEFRRSDSAKEEVRESAYYLRQRQRPRQETEEEMKTRRTTTLRQQHSEQPPL
 QPSPVMTRRLRDSHSSEDEASSQTDLSQTISKKTVRSIQEAPAVSEDLVIRLRRPPLRYPRYEATSVQ
 QKVNFFSEGETEEDDQSSHSVTTVKARSRDSDESGDKTTRSSQYIESFWQSSQSNFTAHDKQPSVL
 SSGYQKTPQEWAPQTARIRTRMQNDSILKSELGNQSPSTSSRQVTGQPQNASFVKRNRWLLPLIAALAS
 GSFWFFSTPEVETTAVQEFQNMNQLKNKYQGQDEKLWKRSTFLEKHLNSSHPRSQPAILLTAAARDAE
 EALRCLSEQIADAYSSFRSVRAIRIDGTDKATQSDTVKLEVDQELSNFGKNGQNAAVVHRFESFPAGST
 LIFYKYCDHENAAFKDVALVLTVLLLEETLGTSLGLKEVEEKVRDFLKVKFTNSNTPNSYNHMDPKLNG
 LWSRISHLVLPVQPENALKRGICL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001267578

ORF Size: 1752 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_001267578.2](#)

RefSeq Size: 4054 bp

RefSeq ORF: 1755 bp

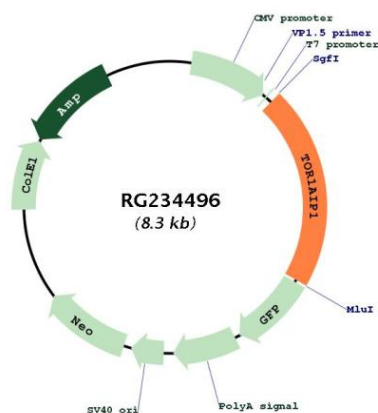
Locus ID: 26092

UniProt ID: [Q5JTV8](#)

Cytogenetics: 1q25.2

Gene Summary:

This gene encodes a type 2 integral membrane protein that binds A- and B-type lamins. The encoded protein localizes to the inner nuclear membrane and may be involved in maintaining the attachment of the nuclear membrane to the nuclear lamina during cell division. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Apr 2016]

Product images:


Circular map for RG234496