

Product datasheet for **RR201031**

Tor1aip1 (NM_145092) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tor1aip1 (NM_145092) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tor1aip1
Synonyms:	Lap1b; Lap1c
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR201031 representing NM_145092
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGCGGGAGAGAGGTGGCGGGCCGAGGGGCTGGGAGAAGGATGGGCCATCTACGTACACCCAGAGCCC
 CCATCCGGGAGGGAAGGCGGAGGCTCGCCACTCAAAATGGCGACGGGAGTGACGCGCCTGCGTACGAAAC
 TCATCCGTCGCGCCACGGACGACGGGAAGTGAGGTTTTTCAGAAGAGCCGCCAGAAGTGACGGCGACTTC
 GAGCCCCGGGCGGCCAAAGAAAGGTCTCCGGGGGAAAGACGAACCCCGCCAGAAAAGTTCGGTTCGGATT
 CTGCGAAAGAGGAAGTGAGAGAAAGCGCTTACAATCTTCGGTCTCGACAACGGAGGCAGCGGGGACCCCA
 GGAAGCCGAGGAGATGAAGACGCGGAGGCTACTCGTCTGGAGCAGCACTCACAGCAGGCGCAGCAGCAG
 CTGTCACCGGCTACGAGCGGGCGAGGATTACGGGACGCTCAGTCCTTAAGTGAGGACCGCGGAGAGGATG
 AACCTTCTTCCCAACCTGTTACAAGCCAAACAGTCTCAAAGAAAAGTGTGAGGACCCAGAGACTTCAGT
 GATGAGTGAAGATCCTATCAGTAACTTATGCAGACCCCAATTAAGAAGCCCAAGACCTGACGCTTCCATT
 GTCCAACACATCAACCCCTTTGAGGAAGGAGAAACCGAAGATGATCTTGAGAGCTTTACAGTATGTCTCA
 CTATCAGGATCAGATCCAGGACTCTGTGAGTCTAGAGATGAAGCCGCAGTAGCAGCCGGTACCATCC
 AGACTCACTGTGGGGTTACCACACAGTCGGGGGACTTCACAGCTCATGAGAATCAACCCTCACTGCTG
 CCCACAGGATGTCAAAAAACCTCAAGAGTGGGTTGAACAAGCTGTGAGAATGAGGACTAGAATGGCAT
 ATAACAACATTGAGAAATCAGACTTTGGAACCAATCTCCATCAACCTCCAGGCAACAAGCAGCTGTACA
 ACCCCCAGATGAGTCTTCTGTCAAGATAAAATGGTGGCTGCTGATACTTGTGCTCTGGCCATGGGA
 ATATATTGGTTCTTTCATACTCCTGTAGTAGAAACCACTGCTGTTCAAGAATTCAGAACCAGATGAAGC
 AGCTCCAGTCTAAGTACCAGAGTCAAGATGAGAACTGTGGAAGAGAGGCACAACATTCCTAGAAAAACA
 TCTGAATAGCTCCCTCCCTCGGCCCCAGCCTGCCATCCTGCTGCTCACTGCAGCTCAGGATGCTGCGGAA
 GTGCTCAAGTGTCTGAGTGAACAGATCGCCGATGCCTACTCTTCTTCCGAGTGTCCGTGCCATCCGGA
 TCGACGGAGCAGGCAAAGCTGCTCAAGACAGTGACCTCGTTAAGCACGAAGTCGATCAGGAAGTACAGAG
 TGGATTTAGAAATGGCCAGAATGCAGCTGTGGTCCACCGCTTCAATCCCTGCCTGCAGGCTCAACCTTG
 ATCTTCTATAAACTGTGACCATGAAACGCAGCCTTCAAAGATGTGGCCCTCGTCTTGACGGTACTGT
 TGGAGGAGCAGACGCTGGAAGCCAGTCTAGGCCTAAAGGAAATTGAGGAGAAAGTGAGGGATTTCTTAA
 AGTCAAGTTCACAGCTCTGACACGGCCAACTCCTACAACCACATGGACCCAGACAAGCTCAATGGACTC
 TGGAGCCGCATCTCCACCTCGTCTGCCCGTGCAGCCTGAGAATGCTCTGAAAGCAGGCAGCTGCTTA

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201031 representing NM_145092
 Red=Cloning site Green=Tags(s)

MAGERWRAEGLGEGWAIYVTPRAPIREGRRRLATQNGDGSAPAYETHPSRHGRREVRFSEEPPEVYGDF
 EPRAAKERSPGERRTPPEKFRSDSAKEEVRESAYNLSRQRRQGPQEAEMKTRRSTRLEQHSQQAQQQ
 LSPATSGRGLRDAQSLSEDRGEDEPSSQPVTSQTVSKTVRTPETSVMSDPIISNLCPPLRSRPRDASI
 VQHINPFEEGETEDDLESSYSDVTIRISRDSVESRDEAAVAAGHHPDSLWGLPHSRGDFTAHENQPSLL
 PTGCQKNPQEWVEQAVRMRTMAYNNIQKSDFGNQSPSTRQQAQVQPPDESSVQIKWLLILVAALAMG
 IYFFFHTPVVETTAVQEFQNMQLQSKYQSQDEKLWKRGTTFLEKHLNSSLPRQPAILLLTAAQDAE
 VLKCLSEQIADAYSSFRSVRAIRIDGAGKAAQSDLVKHEVDQELTDGFRNGQNAAVVHRFESLPAGSTL
 IFYKYCDHENAFAKDVALLVTLVLEEQTLEASLGLKEIEEKVRDFLKVKFTSSDTANSYNHMDPKLNGL
 WSRISHLVLPVQPENALKAGSCL

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_145092

ORF Size: 1749 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_145092.2](#), [NP_659560.2](#)

RefSeq Size: 2730 bp

RefSeq ORF: 1752 bp

Locus ID: 246314

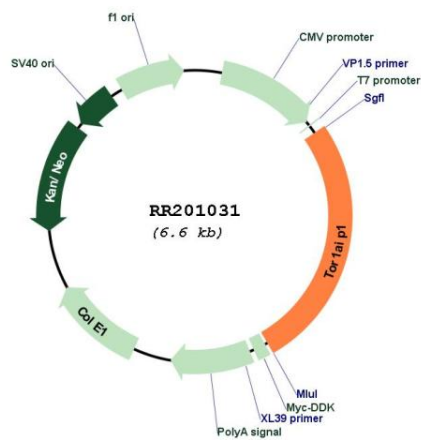
UniProt ID: [Q5PQX1](#)

Cytogenetics: 13q22

MW: 65.6 kDa

Gene Summary: bind lamins and may be involved in membrane attachment and assembly of the nuclear lamina [RGD, Feb 2006]

Product images:



Circular map for RR201031