

Product datasheet for **RR215869**

Tor1aip2 (NM_001165896) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tor1aip2 (NM_001165896) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tor1aip2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215869 representing NM_001165896
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTCTCTGATAATTCACACTGCCCTGATTGTGGCAGCAGTGGTTCCTAGTTAGAACTAGGCCACT
GGTTGTACAACTGAACCTGTTGAAAATGAATGTTACCAAGTGTCTTAGACCGTATTAACAGGGCTGA
TTATTGCCCTGAATGTTACCCCTGACAATCCTGCTAACAGAAGCCTGTTCTGCCTTGGTCTTCCCACT
GAGTGGGCACCTCAGAATCTCACCAGGTGGACCTTTGAGAAAGCTTGCCATCCATTTCTTCTGGGCCTC
CACTGGTTAGAAAAAGATACATGACTCCAGGGTAGCTGGGTTAATCCTGCGTTACAGTTAATCTTGAG
CAGAACAGACAAAACCTTAAACAAGAACTTGCCAAAGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215869 representing NM_001165896
Red=Cloning site Green=Tags(s)

MFSDNSHCPDCGQWFPSLELGHWLYQTELVENECYQVFLDRINRADYCPDNPANRSLVLPWSFPL
EWAPQNLTRWTFEKACHPFLGPPVLRKKIHDSRVAGFNPALQLILSRDKTLNKKLGQSK

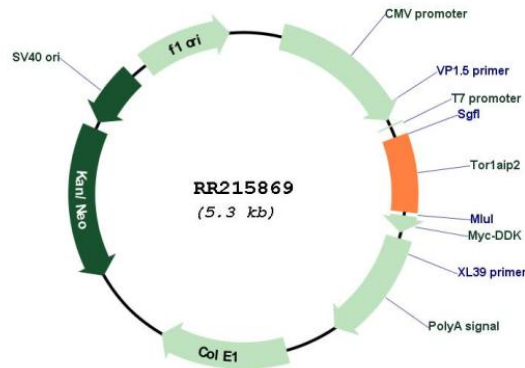
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001165896

ORF Size: 393 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:	<ol style="list-style-type: none">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:	<u>NM_001165896.1, NP_001159368.1</u>
RefSeq Size:	2349 bp
RefSeq ORF:	396 bp
Locus ID:	304881
Cytogenetics:	13q22
MW:	15.3 kDa
Gene Summary:	Required for endoplasmic reticulum integrity. Regulates the distribution of TOR1A between the endoplasmic reticulum and the nuclear envelope as well as induces TOR1A, TOR1B and TOR3A ATPase activity (By similarity).[UniProtKB/Swiss-Prot Function]