

Product datasheet for **RN215869**

Tor1aip2 (NM_001165896) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tor1aip2 (NM_001165896) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tor1aip2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215869 representing NM_001165896 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTCTCTGATAATTCACACTGCCCTGATTGTGGGCAGCAGTGGTTCCTAGTTTAACTAGGCCACT
GGTTGTACCAAAGTGAATGTTGAAAATGAATGTTACCAAGTGTCTTAGACCGTATTAAACAGGGCTGA
TTATTGCCCTGAATGTTACCCCTGACAATCCTGCTAACAGAAGCCTTGTCTGCCTTGGTCTTTCCCACTT
GAGTGGGCACCTCAGAATCTCACCAGGTGGACCTTTGAGAAAGCTTGCATCCATTTCTTCTGGGCCCTC
CACTGGTTAGAAAAAGATACATGACTCCAGGGTAGCTGGGTTTAATCCTGCGTTACAGTTAATCTTGAG
CAGAACAGACAAAACCTTAAACAAGAACTTGGCCAAAGCAAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001165896
Insert Size:	396 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.



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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:	<u>NM_001165896.1, NP_001159368.1</u>
RefSeq Size:	2349 bp
RefSeq ORF:	396 bp
Locus ID:	304881
Cytogenetics:	13q22
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] Transcript Variant: This variant (2) shares a portion of its 5' UTR, but no coding sequence with variant 1. Variant 2 encodes a shorter protein (interferon alpha responsive protein), which is distinct from torsin-1A-interacting protein 2. Variants 2 and 3 encode the same protein, isoform a.