

Product datasheet for **RN214840**

Tor1aip2 (NM_199100) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tor1aip2 (NM_199100) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Tor1aip2
Synonyms:	MGC72610
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN214840 representing NM_199100
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCAAACCTCTGAAGAGCCAGGACACAACATGAGTGACAGTGGCTACAGGGATCCTGTGGAAGACT
 CTCAAAACGTTTTGGGAAATGATCCATCAGTAACTCTCAAGCACAGGACCCCATAGTCACACCGAGTAA
 CACTGTGGAAGCCAGACCCCTACATCCCACATCTGATCTTAAGGAAGACCATCATGAAATAGGGGCCAAA
 GGTGAGGAGCATGCAGACACAGGTGACAGGGCAGAAAAGTTCTGAGGAACCAGCTTTGGAGAAACCTCCAC
 TGGATAAAGCAGAAGTGGAGAGGAGCCCGAGTTCTCAGGACACAGAGCAAAGGCATCACCCCTACTCGGA
 ACATGTGGGCGGAGACACCCTGGTTCTGGATCCTAACTACTCTCAAAGCGACTTGGGAGGAAGAGCGGAT
 GCACACCTGGAGAGCAGCTCTGCAGCCCCACAGAGGGGGCAGGTGAGGGAGGTGAAGCAGGTGCACACC
 TGGAGAGCAGCTGTGCAGCCCTCCAGTGGGAGCAGATGAGGGAGGAAGCGAATGCACACCTGGAGAG
 CAGCTCTGCAGCCCCACAGAGGGGGCAGGTGAGGGAGGTGAAGCAGATGTACACCTAGAAGCAGCTCT
 GCAGTCCCCCAGAGGAGGCCATCTGGAGAGCAGCTCTGCAGCCCCCTCAGAGGGGGCAGGTGAGGGAG
 GTGAAGCAGATGCACACCTGGAGAGCAGCTCTGCAGCCCCCTCAGAGGGGGCAGGTGAGGGAGGTGAAAC
 TGCTCAGAACCTACTTGCTGTAGACTCTACCGATGCCAGAGTCCCTGTCACTCCAGTGCAGGCCAGGG
 AGCCAGGATTCAGTGAAGGAGACTGCCTGTGACAGAGGCTGAAAGGCATGAAGAAGAGACACAGTTGG
 TGACGGAAAAGGAGGAGTGCACAGGAAACATTGAGAAAAGACTGAGAAAAAGAGTCTCTGGACCTATGG
 TTCCATGTTTCTGGCTGCCTGATTGTGGCTGTGGTGAAGCTCTGTCAACAGCTACTATTCCTCCCA
 GCTCAGCAGGTGCCACAGAACCAGCTCTGGAGCCCTCCTGGCTCAGTTAGCCAAGTGAAGGAGAAAT
 TTCCAGTCAAGTGCCTCCTGTGGCAGCGAGGGCGTAAGTTTCTCCAGAAGCACCTCAACGCCCTCAA
 CCCCAGTGAGCCAGCCACCGTCACTTTCACAGCTGCTCGAGAGGGGAAGGAGACCCTCAAGTGCCTGAGC
 TACCACGTGGCCAATGCCTACACCTCTCCAGAAAGTAACTGCCGTCTCCATAGACGGAGCGGAGAGAG
 CCCTGCAGGACAGTGACACAGTCAAGCTGTTGGTTGACTTGGAGCTCAGCTATGGGTTTGAAGTGGCCA
 CAAGGCTGCTGTAGTCCACCCTTGAATCCCTTCTGCGGGCTCCACCCTGATCTTCTACAAGTACTGT
 GACCACGAGAACGCCCTTTAAAGATGTGGCCCTTGTCTGACCGTCTGCTGGAGGAGGAAACGTTAG
 AAGCAAGTGAAGCCCCAGGAAACAGAAGAAAAGTGAAGGATTTGCTCTGGGCCAAGTTCACCGACTC
 CGGAACCTCCAGCTCCTCAGCCACATGGACTCAGACAACTGAGTGGACTCTGGAGCCGTATCTCCAC
 CTCGTGCTGCCCGTGCAGCCCGTCAAGAACATAGAAGAGCGAGGCTGCCTTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_199100
- Insert Size:** 1737 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).
- 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_199100.2](#), [NP_954531.1](#)

RefSeq Size: 5079 bp

RefSeq ORF: 1737 bp

Locus ID: 304881

UniProt ID: [Q6P752](#)

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 (1) represents the longest transcript and encodes the longer protein, isoform b, referred to as torsin-1A-interacting protein 2. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.