

## Product datasheet for **RR215870**

### Tor1aip2 (NM\_001165897) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tor1aip2 (NM\_001165897) 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:** >RR215870 representing NM\_001165897  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTTCTCTGATAATTCACACTGCCCTGATTGTGGCAGCAGTGGTTCCTAGTTAGAACTAGGCCACT  
GGTTGTACCAAAGTGAATGTTGAAAAATGATGTTACCAAGTGTCTTAGACCGTATTAACAGGGCTGA  
TTATTGCCCTGAATGTTACCCCTGACAATCCTGCTAACAGAAGCCTGTTCTGCCTTGGTCTTCCCACT  
GAGTGGGCACCTCAGAATCTCACCAGGTGGACCTTTGAGAAAGCTTGCCATCCATTTCTTCTGGGCCTC  
CACTGGTTAGAAAAAGATACATGACTCCAGGGTAGCTGGGTTAATCCTGCGTTACAGTTAATCTTGAG  
CAGAACAGACAAAACCTTAAACAAGAACTTGCCAAAGCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

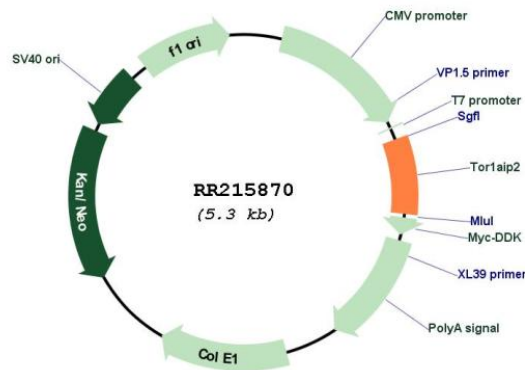
**Protein Sequence:** >RR215870 representing NM\_001165897  
Red=Cloning site Green=Tags(s)  
MFSDNSHCPDCGQWFPSLELGHWLYQTELVENECYQVFLDRINRADYCPDNPANRSLVLPWSFPL  
EWAPQNLTRWTFEKACHPFLGPPVLRKKIHDSRVAGFNPALQLILSRDKTLNKKLGQSK  
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** SgfI-MluI



[View online »](#)

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001165897

**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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001165897.1, NP_001159369.1</u>
<b>RefSeq Size:</b>	2289 bp
<b>RefSeq ORF:</b>	396 bp
<b>Locus ID:</b>	304881
<b>Cytogenetics:</b>	13q22
<b>MW:</b>	15.3 kDa
<b>Gene Summary:</b>	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]