

## Product datasheet for **RR214840**

### Tor1aip2 (NM\_199100) Rat Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>RR214840 representing NM\_199100  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCCAAACCTCTGAAGAGCCAGGACACAACATGAGTGACAGTGGCTACAGGGATCCTGTGGAAGACT  
 CTCAAAACGTTTTGGGAAATGATCCATCAGTAACTCTCAAGCACAGGACCCCATAGTCACACCGAGTAA  
 CACTGTGGAAGCCAGACCCCTACATCCCACATCTGATCTTAAGGAAGACCATCATGAAATAGGGGCCAAA  
 GGTGAGGAGCATGCAGACACAGGTGACAGGGCAGAAAAGTTCTGAGGAACCAGCTTTGAGAAAACCTCCAC  
 TGGATAAAGCAGAAGTGGAGAGGAGCCCGAGTTCTCAGGACACAGAGCAAAGGCATCACCCCTACTCGGA  
 ACATGTGGGCGGAGACACCCTGGTTCTGGATCCTAACTACTCTCAAAGCGACTTGGGAGGAAGAGCGGAT  
 GCACACCTGGAGAGCAGCTCTGCAGCCCCACAGAGGGGGCAGGTGAGGGAGGTGAAGCAGGTGCACACC  
 TGGAGAGCAGCTGTGCAGCCCTCCAGTGGGAGCAGATGAGGGAGGAAGCGAATGCACACCTGGAGAG  
 CAGCTCTGCAGCCCCACAGAGGGGGCAGGTGAGGGAGGTGAAGCAGATGTACACCTAGAAGCAGCTCT  
 GCAGTCCCCCAGAGGAGGCCATCTGGAGAGCAGCTCTGCAGCCCCCTCAGAGGGGGCAGGTGAGGGAG  
 GTGAAGCAGATGCACACCTGGAGAGCAGCTCTGCAGCCCCCTCAGAGGGGGCAGGTGAGGGAGGTGAAAC  
 TGCTCAGAACCTACTTGCTGTAGACTCTACCGATGCCAGAGTCCCTGTCACTCCAGTGCAGGCCAGGG  
 AGCCAGGATTCAGTGGAGAGAAGACTGCCTGTGACAGAGGCTGAAAGGCATGAAGAAGAGACACAGTTGG  
 TGACGGAAAAGGAGGAGTGCACAGGAAACATTGAGAAAAGACTGAGAAAAGAGTCTCTGGACCTATGG  
 TTCCATGTTTCTGGCTGCCTGATTGTGGCTGTGGTGAAGCTCTGTCAACAGCTACTATTCCTCCCCA  
 GCTCAGCAGGTGCCACAGAACCAGCTCTGGAGGCCTTCTGGCTCAGTTAGCCAAGTGAAGGAGAAAT  
 TTCCAGTCCAGTGCCTTCTGTGGCAGCGAGGGCGTAAGTTTCTCCAGAAGCACCTCAACGCCTCAAA  
 CCCCAGTGAGCCAGCCACCGTCATCTTACAGCTGCTCGAGAGGGGAAGGAGACCCTCAAGTGCCTGAGC  
 TACCACGTGGCCAATGCCTACACCTCTCCAGAAAGTAACTGCCGTCTCCATAGACGGAGCGGAGAGAG  
 CCCTGCAGGACAGTGACACAGTCAAGCTGTTGGTTGACTTGGAGCTCAGCTATGGGTTTGAATGGCCA  
 CAAGGCTGCTGTAGTCCACCCTTGAATCCCTTCTGCGGGCTCCACCCTGATCTTCTACAAGTACTGT  
 GACCACGAGAACGCCCTTTAAAGATGTGCCCTTGTCTGACCGTCTGCTGGAGGAGGAAACGTTAG  
 AAGCAAGTGAAGCCCCAGGAAACAGAAGAAAAGTGAAGGATTTGCTCTGGGCCAAGTTCACCGACTC  
 CGGAACCTCCAGCTCCTCAGCCACATGGACTCAGACAACTGAGTGGACTCTGGAGCCGTATCTCCAC  
 CTCGTGCTGCCCGTGCAGCCCGTCAAGAACATAGAAGAGCGAGGCTGCCTTTTG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR214840 representing NM\_199100  
 Red=Cloning site Green=Tags(s)

MSQTLKSDQTNMSDSGYRDPVEDSQNVLGNDPSVNSQAQDPQIVTPSNTVEAQLHPTSDLKEDHHEIGAK  
 GQEHADTDGDAESSEEPALKEPPLDKAELERSPSSQDTEQRHHPYSEHVGGDTLVLPNYSQSDLGGRAD  
 AHLESSSAAPTEGAGEGGEAGAHLESSCAALPVGADGGGRANAHLESSSAAPTEGAGEGGEADVHLESS  
 AVPPEEAHLESSSAAPSEGAGEGGEADAHLESSSAAPSEGAGEGGETAQNLLAVDSTDAQSPCHSSAGPG  
 SQDSLRRRLPVTEAERHEEETQLVTEKEEVAQETLRKTEKSLWYGSMLGCLIVAVVLSVNSYSSP  
 AQQVPQNPALFAFLAQFSQLREKFPQSFLWQRGRKFLQKHLNASNPSEPATVIFTAAREGKETLKCLS  
 YHVANAYTSSQKVTAVSIDGAERALQSDTVKLLVDLELSYGFENGHKAAVVHHFESLPAGSTLIFYKYC  
 DHENAFKDVALLVTLVLEEETLEASVSPRETEEKVRDLLWAKFTDSGTPSSFHMSDKLSGLWSRISH  
 LVLPVQPVKNIIEERGCLL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

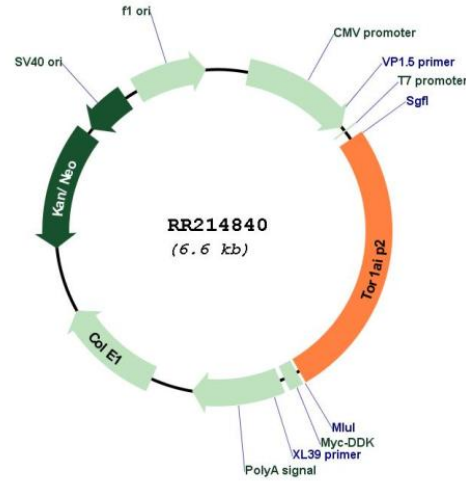
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_199100  
 ORF Size: 1734 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_199100.2</a> , <a href="#">NP_954531.1</a>
<b>RefSeq Size:</b>	5079 bp
<b>RefSeq ORF:</b>	1737 bp
<b>Locus ID:</b>	304881
<b>UniProt ID:</b>	<a href="#">Q6P752</a>
<b>Cytogenetics:</b>	13q22
<b>MW:</b>	61.7 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]