

## Product datasheet for **RG222569**

### TOR2A (NM\_001085347) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TOR2A (NM_001085347) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TOR2A
Synonyms:	TORP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222569 representing NM_001085347 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCTGCGACGCGCGGCTGCCGGCCCTGGGGCTCGCTCCTCGGGCTGCTCGGGCTGGTCTCGGCCG  
CGGCCCGCCTGGGACCTGGCTTCCCTGCGCTGCACCTGGGCGCCTTTTGGGAATGCGACTTCCGGCC  
CGACTTGGCGGTCTGGAGTGTGACCTGGCTCAGCACCTGGCCGCCAGCATCTGGCCAAGGCGCTGGT  
GTGAAGGCGCTGAAGGCCTTTGTGCGGGACCCAGCCCCACCAAGCCGCTGGTCTCTCCCTGCACGGCT  
GGACCGGCACCGCAAATCCTATGTGAGCTCCCTGCTGGCGCACTACCTTCCAGGGCGGCTCCGCAG  
CCCCCGGTGCACCACTTTCTCCCGTCTCCACTTCCCCACCCAGCCACATCGAGCGCTACAAGAAG  
GATCTGAAGAGCTGGGTCCAAGGGAACCTCACTGCCTGTGGCCGCTCCCTCTTCCCTTCGATGAGATGG  
ACAAGATGCCCCAGGCCTGATGGAAGTCTGCGGCCCTTCTGGGCTCCTCCTGGGTGGTATACGGGAC  
CAATTACCGCAAAGCCATCTTCATCTTCATCAGCAACACGGGTGGCGAGCAGATCAACAGGTGGCATTG  
GAGGCGTGGCGCAGCCGGCGGGACCGGAGGAGATCCTCCTGCAGGAGCTGGAGCCGGTCACTCCCGCG  
CGGTGCTGGACAACCCGACCATGGCTTCTCAAACCTCGGCATCATGGAAGAGCGCCTCTAGACGCAGT  
GGTGCCCTTCTCCCGCTCCAGCGGCACCACGTCCGGCACTGCGTGCTCAACGAGCTGGCCAGCTGGGC  
CTGGAGCCAAGGATGAGGTTGTCCAGGCTGTGCTGGACAGCACACCTTCTTCCCTGAAGACGAGCAGC  
TCTTCTCTCCAACGGCTGCAAGACCGTGGCCCTCCCGAATCGCCTTCTTCTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222569 representing NM\_001085347  
 Red=Cloning site Green=Tags(s)

MAAATRGCRPWGSLGLLGLVSAAAAWDLASLRCTLGAFCECFRDLPGLECDLAQHLAQHLAKALV  
 VKALKAFVRDPAPTKPLVLSLHGWTGTGKSYVSSLLAHYLFQGGLRSPRVHHFSPVLHFPHPSHIERYKK  
 DLKSWVQGNLTACGRSLFLFDEMCKMPPGLMEVLRPFLGSSWVVYGTNYRKAIFIFISNTGGEQINQVAL  
 EAWRSRRDREEILLQELEPVISRAVLDPHGHGFSNSGIMEERLLDAVVPFLPLQRHHVHRHCVLNELAQLG  
 LEPRDEVVQAVLDSTTFPEDEQLFSSNGCKTVASRIAFFL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001085347

**ORF Size:** 963 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:**

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\\_001085347.2](#)

**RefSeq Size:** 1531 bp

**RefSeq ORF:** 966 bp

**Locus ID:** 27433

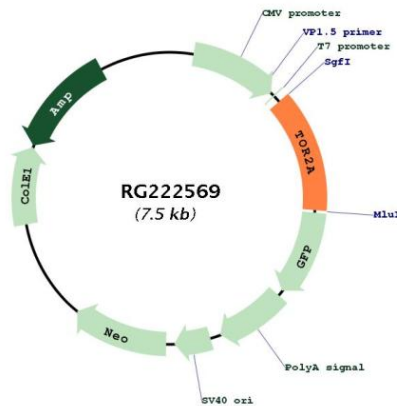
**UniProt ID:** [Q5JU69](#)

**Cytogenetics:** 9q34.11

**Protein Families:** Secreted Protein, Transmembrane

**Gene Summary:** This gene encodes a member of the AAA family of adenosine triphosphatases with similarity to Clp proteases and heat shock proteins. Alternative splicing at this locus results in the translation of multiple isoforms of the encoded protein, some of which contain salusin peptides in the C-terminal region. These peptides may play roles in hypotension, myocardial growth and the induction of mitogenesis, and may also be involved in the pathogenesis of atherosclerosis. The antimicrobial peptide salusin-beta has antibacterial activity. [provided by RefSeq, Nov 2014]

### Product images:



Circular map for RG222569