

Product datasheet for **RG218684**

TOR1AIP2 (NM_022347) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: TOR1AIP2 (NM_022347) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: TOR1AIP2
Synonyms: IFRG15; LULL1; NET9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG218684 representing NM_022347
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTTTCAGATAATTCACATTGCCCTGATTGTGGACAACAGTGGTTCCTAGTTTAGAACTAGGCCACT
 GGTTGTACCAAAGTGAATTGTTGAAAATGAATGTTACCAGGATTCTTAGACCGTATTAACAGAGCTGA
 TTATTGTCCTGAGTGTTATCCTGATAATCCTGCTAATAGAAGCCTGTTCTTCTTGGTCTTTCCCACTT
 GAGTGGGCTCCCCAGAATCTCACCAGATGGACCTTTGAGAAAGCTTGCATCCATTTCTTCTGGGTCCTC
 CACTGGTTAGAAAAAGAATACATGACTCTCGAGTAGCTGGTTTTAACCTGCATTACAGTTAATCTTGAC
 CAGAACAGATAAAACCTTAAACAAAAAACTGGGCCAAAACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG218684 representing NM_022347
 Red=Cloning site Green=Tags(s)

MFSDNSHCPDCGQWFPSELELGHWLYQTELVENECYQVFLDRINRADYCECYPDNPANRSLVLPWSPFL
 EWAPQNLTRWTFEKACHPFLGLPPLVLRKRIHDSRVAGFNPALQLILTRTDKTLNKKLGQNK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_022347

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](#)

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_022347.5](#)

RefSeq Size: 396 bp

RefSeq ORF: 396 bp

Locus ID: 163590

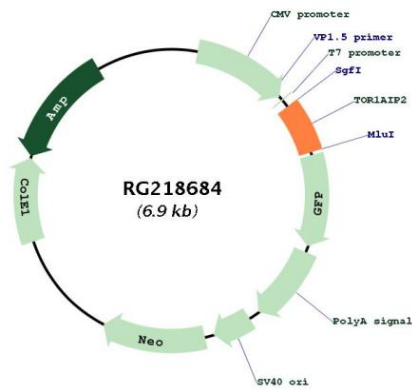
UniProt ID: [Q9H496](#)

Cytogenetics: 1q25.2

Protein Families: Transmembrane

Gene Summary: One of the two protein isoforms encoded by this gene is a type II integral membrane protein found in the endoplasmic reticulum (ER). The encoded protein is a cofactor for the ATPase TorsinA, regulating the amount of TorsinA present in the ER compared to that found in the nuclear envelope. Defects in this protein are a cause of early onset primary dystonia, a neuromuscular disease. The other isoform encoded by this gene is an interferon alpha responsive protein whose cellular role has yet to be determined. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG218684