

Product datasheet for **RG209099**

C7orf59 (LAMTOR4) (NM_001008395) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C7orf59 (LAMTOR4) (NM_001008395) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: C7orf59
Synonyms: C7orf59
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209099 representing NM_001008395
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTCTGCACTGACCCAGGGGCTGGAGCGAATCCCAGACCAGCTCGGCTACCTGGTACTGAGTGAAG
GTGCAGTGCTGGCGTCATCTGGGACCTGGAGAATGATGAGCAGGCAGCCAGTCCATCTCTGAAGTGGT
CAGCACAGCCTGCGGTTCCGGCTGCACCGCGCATGAATGTGCCCTCAAGCGCCTGTCTGTGGTCTTT
GGAGAACACACTGCTGGTGACGGTGTGACGACAGAGGGTGTGGTGAAGAGGCAGAACCAGGTC
GGGAGCCATTGATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209099 representing NM_001008395
Red=Cloning site Green=Tags(s)
MTSALTQGLERIPDQLGYLVLSEGAVLASSGDLENDEQAASAISELVSTACGFRHLHRGMNVPFKRLSVVF
GEHTLLVTYSGQRVVFVKRQNRGREPIDV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001008395

ORF Size: 297 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_001008395.1](#), [NP_001008396.1](#)

RefSeq Size: 673 bp

RefSeq ORF: 300 bp

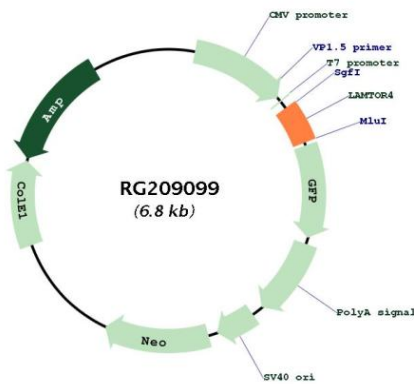
Locus ID: 389541

UniProt ID: [Q0VGL1](#)

Cytogenetics: 7q22.1

Gene Summary: As part of the Ragulator complex it is involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids. Activated by amino acids through a mechanism involving the lysosomal V-ATPase, the Ragulator functions as a guanine nucleotide exchange factor activating the small GTPases Rag. Activated Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209099