

Product datasheet for **MG201510**

Reep6 (BC029741) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Reep6 (BC029741) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Reep6
Synonyms: 0610011M24Rik; Dp111
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201510 representing BC029741
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACGGTCTGCGCCAGCGCTTCAACGTTTTCTGGAACAGAAGAAGCTGGCCACCGAAGCGCTCGGGG
 CGCTCGAAGCAAGGACCGGTGTAGAGAAGCGGTATCTCGCCGGGAGCCCTCGCCCTTCTAGGCCGTGA
 TCTTCTGTTCCGGTTACGGGGCCTCTACTGTGCAATGTCATCGGATTTGTATACCCGCATATGCTTCA
 GTCAAAGCTATCGAGAGCCCAAGCAAGGAAGACGACACTGTGTGGCTAACCTACTGGGTGGTGTACGCC
 TGTTCCGTCTGGTCAATTCTTACGCGATCTACTCCTGTTCTGGTCCCTTTCTACTACGGGGCAAGTG
 CGCCTTCTGTTATTTTGCATGACGCCCGACCCCTGGAACGGGGCATTACTACTATAACCATCGCGTCATA
 AGACCACTCTTTCTAAAGCACCACATGGCTCTAGACAGCGCCGCGAGCCAGCTAAGCGGAAGAGCATTGG
 ACCTAGCAGCTGGGATAACCCGGGACGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201510 representing BC029741
 Red=Cloning site Green=Tags(s)

MDGLRQRFERFLEQKNVATEALGALEARTGVEKRYLAAGALALLGLYLLFGYGASLLCNVIGFVYPAYAS
 VKAIESPSKEDDTVWLYWVYALFGLVEFFSDLLLFWFPFYAGKCAFLLCMTPGPWNGALLLYHRVI
 RPLFLKHHMALDSAASQLSGRALDLAAGITRDAK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: BC029741

ORF Size: 524 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: [BC029741](#), [AAH29741](#)

RefSeq Size: 1949 bp

RefSeq ORF: 524 bp

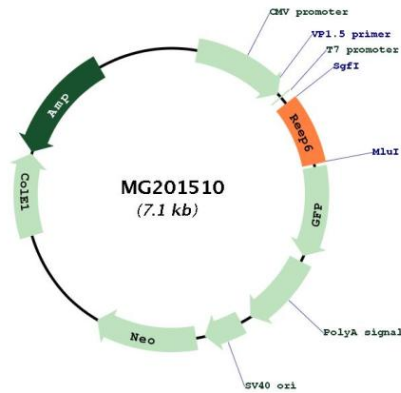
Locus ID: 70335

Cytogenetics: 10 C1

Gene Summary:

Required for correct function and survival of retinal photoreceptors (PubMed:24098485, PubMed:24691551, PubMed:28475715). Required for retinal development (PubMed:28369466). In rod photoreceptors, facilitates stability and/or trafficking of guanylate cyclases and is required to maintain endoplasmic reticulum and mitochondrial homeostasis (PubMed:28475715). May play a role in clathrin-coated intracellular vesicle trafficking of proteins from the endoplasmic reticulum to the retinal rod plasma membrane (PubMed:24098485, PubMed:28369466).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG201510