

Product datasheet for **MG201510**

Reep6 (BC029741) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: Reep6
Synonyms: 061001IM24Rik; 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGGTCTGCGCCAGCGCTTCGAACGTTTTCTGGAACAGAAGAACGTGGCCACCGAAGCGCTCGGGG
CGCTCGAAGCAAGGACCGGTGTAGAGAAGCGGTATCTCGCCGCGGGAGCCCTCGCCCTTCTAGGCCGTGTA
TCTTCTGTTTCGGTACGGGGCCTCTACTGTGCAATGTCAATCGGATTTGTATACCCCGCATATGCTTCA
GTCAAAGCTATCGAGAGCCCAAGCAAGGAAGACGACACTGTGTGGCTAACCTACTGGGTGGTGTACGCC
TGTTCCGGTCTGGTCAATTCTTCAGCGATCTACTCCTGTTCTGGTTCCCTTTCTACTACGCGGGCAAGTG
CGCCTTCTGTTATTTTGCATGACGCCCGACCCTGGAACGGGGCATTACTACTATACCATCGCGTCATA
AGACCACTCTTTCTAAAGCACCACATGGCTCTAGACAGCGCCGCGAGCCAGCTAAGCGGAAGAGCATTGG
ACCTAGCAGCTGGGATAACCCGGGACGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

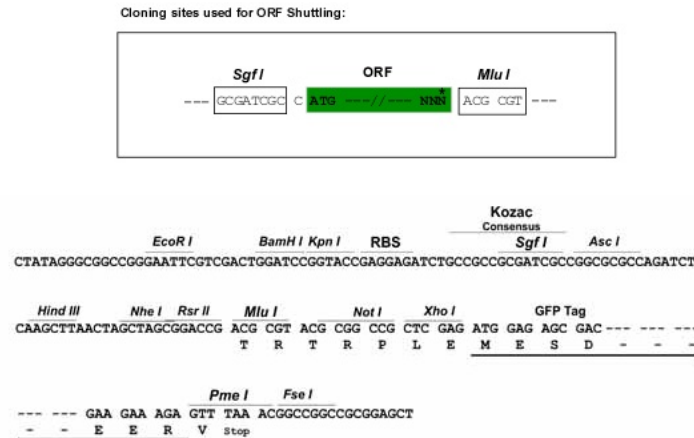
Protein Sequence: >MG201510 representing BC029741
Red=Cloning site Green=Tags(s)

MDGLRQRFERFLEQKNVATEALGALEARTGVEKRYLAAGALALLGLYLLFGYGASLLCNVIGFVYPAYAS
VKAIESPSKEDDTVWLTYWVVYALFGLVEFFSDLLLFWFPFYYAGKCAFLLCMTGPGWNGALLLYHRVI
RPLFLKHHMALDSAASQLSGRALDLAAGITRDAK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:


ACCN: BC029741

ORF Size: 522 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.

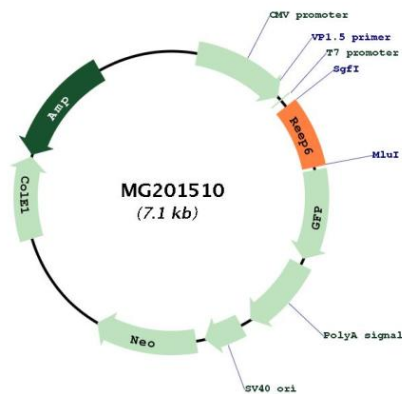
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

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