

## Product datasheet for MR223985

### Reep6 (NM\_139292) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Reep6 (NM\_139292) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Reep6  
**Synonyms:** 0610011M24Rik; Dp111  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR223985 representing NM\_139292  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACGGTCTGCGCCAGCGCTTCAACGTTTTCTGGAACAGAAGAAGCTGGCCACCGAAGCGCTCGGGG  
 CGCTCGAAGCAAGGACCGGTGTAGAGAAGCGGTATCTCGCCGCGGGAGCCCTCGCCCTTCTAGGCCGTGA  
 TCTTCTGTTCCGGTTACGGGGCCTCTACTGTGCAATGTCATCGGATTTGTATACCCCGCATATGCTTCA  
 GTCAAAGCTATCGAGAGCCCAAGCAAGGAAGACGACACTGTGTGGCTAACCTACTGGGTGGTGTACGCC  
 TGTTCCGTCTGGTCAATTCTTCAGCGATCTACTCCTGTTCTGGTCCCTTTCTACTACGCGGGCAAGTG  
 CGCCTTCTGTTATTTTGCATGACGCCCGACCCCTGGAACGGGGCATTACTACTATACCATCGCGTCATA  
 AGACCACTCTTTCTAAAGCACCACATGGCTCTAGACAGCGCCGCGAGCCAGCTAAGCGGAAGAGCATTGG  
 ACCTAGCAGCTGGGATAACCCGGGACGTACTTCAGGCCTTGGCTCGGGGCCGGGCTCTCGTACCCACAG  
 ATCAACATCGGAACCCCGAGCCGCTCTGGAACCTGGACCCCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR223985 representing NM\_139292  
 Red=Cloning site Green=Tags(s)

MDGLRQRFRERFLEQKNVATEALGALEARTGVEKRYLAAGALALLGLYLLFGYGASLLCNVIGFVYPAYAS  
 VKAIESPSKEDDTVWLTYWVYALFGLVEFFSDLLLFWFPPFYAGKCAFLLFCMTPGPWNGALLL YHRVI  
 RPLFLKHHMALDSAASQLSGRALDLAAGITRDVLQALARGRALVTPASTSEPPAALELDPK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV



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**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9030\\_d01.zip](https://cdn.origene.com/chromatograms/mm9030_d01.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_139292

**ORF Size:** 603 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\\_139292.2](#), [NP\\_647453.1](#)

**RefSeq Size:** 2011 bp

**RefSeq ORF:** 606 bp

**Locus ID:** 70335

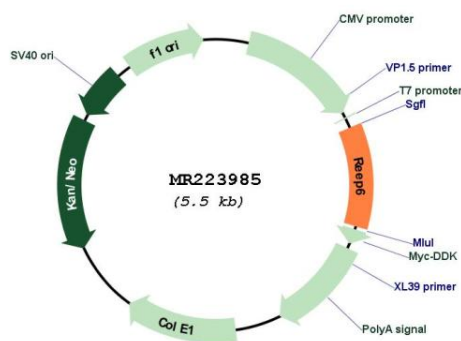
UniProt ID: [Q9JIM62](#)

Cytogenetics: 10 C1

MW: 22.7 kDa

**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 MR223985