

Product datasheet for **MR228283**

Reep6 (NM_001204931) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Reep6
Synonyms:	061001IM24Rik; Dp111
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >MR228283 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACGGTCTGCCAGCGCTTCGAACGTTTTCTGGAACAGAAGAACGTGGCCACCGAAGCGCTCGGGG
CGCTCGAAGCAAGGACCGGTGTAGAGAAGCGGTATCTCGCCGCGGGAGCCCTCGCCCTTCTAGGCCTGTA
TCTTCTGTTTCGGTACGGGGCCTCTCTACTGTGCAATGTCATCGGATTTGTATACCCGCATATGCTTCA
GTCAAAGCTATCGAGAGCCCAAGCAAGGAAGACGACACTGTGTGGCTAACCTACTGGTGGTGTACGCC
TGTTTCGGTCTGGTCAATTCTTCAGCGATCTACTCCTGTTCTGTTCCCTTTCTACTACGCGGCAAGTG
CGCCTTCTGTTATTTTGCATGACGCCCGGACCTGGAACGGGGCATTACTACTATACCATCGCGTCATA
AGACCACTCTTTCTAAAGCACCACATGGCTCTAGACAGCGCCGCGAGCCAGCTAAGCGGAAGAGCATTGG
ACCTAGCAGCTGGGATAACCCGGGACGCCAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228283 protein sequence
Red=Cloning site Green=Tags(s)

MDGLRQRFERFLEQKNVATEALGALEARTGVEKRYLAAGALALLGLYLLFGYGASLLCNVIGFVYPAYAS
VKAIESPSKEDDTVWLTYWVYALFGLVEFFSDLLLFWFPFYAGKCAFLLCMTPGPWNGALLLYHRVI
RPLFLKHHMALDSAASQLSGRALDLAAGITRDAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:



ACCN: NM_001204931

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: [NM_001204931.1](#), [NP_001191860.1](#)

RefSeq Size: 1935 bp

RefSeq ORF: 525 bp

Locus ID: 70335

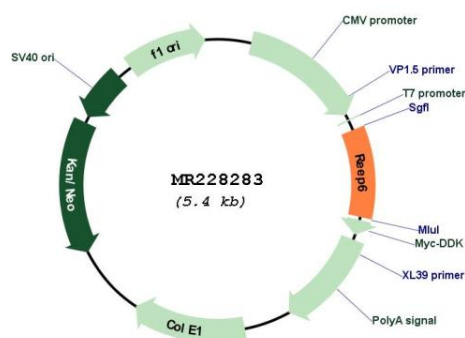
UniProt ID: [Q9JM62](#)

Cytogenetics: 10 C1

MW: 19.4 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 MR228283