

Product datasheet for **MR203308**

Reep4 (NM_180588) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Reep4 (NM_180588) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Reep4
Synonyms:	2700029E10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203308 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGTGTCTGGATGATCTGTCGCTGGTAGTGCTCATATTTGGCATGCTGTATCCTGCGTATGCTTCCT
 ACAAGGCCGTGAAGAGCAAGAACATTCGAGAATATGTACGGTGGATGATGTATTGGATTGTCTTTGCGAT
 CTTTCATGGCAGCAGAAACCTTCACAGACATCTTCATTTCTGGTTCCCGTTTTATTACGAGTTCAAGATG
 GCTTTTGTGCTGTGGCTGCTCTACCTTACACCAAGGGGGCCAGCCTGCTTTACCGAAAGTTTGCCACC
 CATCCCTATCCCGCCATGAGAAGGAGATCGACGCGTGTATCGTGCAGGCAAAGGAGCGCAGCTATGAAAC
 CATGCTCAGTTTTGGGAAGCGGAGCCTCAACATCGCTGCCTCAGCTGCTGTGCAGGCTGTACCAAGAGT
 CAAGGCCTCTAGCTGGAAGGCTGCGGAGTTTCTCTATGCAAGACCTGCGCTCTATCCCTGACACCCCTG
 TCCCCACCTACCAAGATCCCCTCTACCTGGAAGACCAGGTACCCCGACGTAGACCCCTATTGGATACCG
 GCCAGGCGGCTGCAGGGCAGTGACACAGAGGATGAGTGTTGGTCAGACAATGAGATCGTCCCCAGCCA
 CCTGTTTCGGCCCCGAGAGAAGCCTCTAGGCCGAGCCAGAGCCTTCGGGTGGTCAAGAGGAAGCCATTGA
 CTCGAGAGGGCACCTCACGCTCCCTGAAGGTCCGAACCCGAAAAAGGCCATGCCCTCAGACATGGACAG
 C

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA


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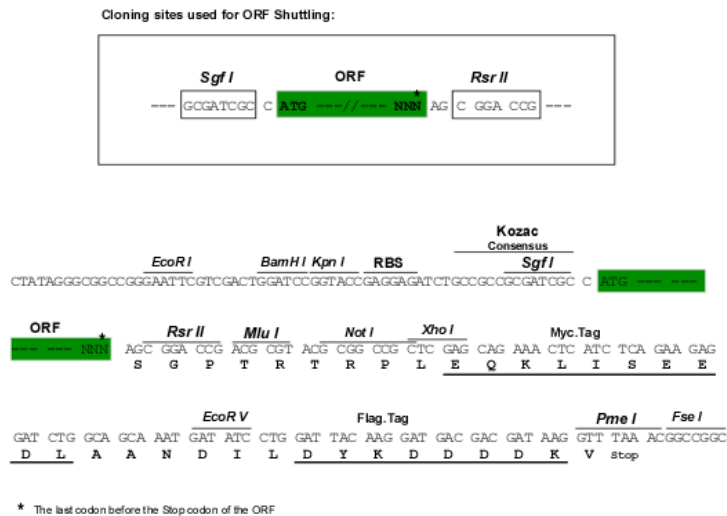
Protein Sequence: >MR203308 protein sequence
 Red=Cloning site Green=Tags(s)

MVSWMICRLVVLIFGMLYPAYASYKAVKSKNIREYVRWMMYWIVFAIFMAAETFTDIFISWFPFYEFKM
 AFVLWLLSPYTKGASLLYRK FVHPSLSRHEKEIDACIVQAKERSYETMLSFGKRSLNIAASA AVQAATKS
 QGALAGRLRSFSMDLRSIPDTPVPTYQDPLYLEDQVPRRRPPIGYRPGGLQGSDEDECSWDNEIVPQP
 PVRPREKPLGRSQSLRVVKRKPLTREGTSRSLKVRTRKKAMPSDMDS

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_180588

ORF Size: 771 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_180588.2](#)

RefSeq Size: 1686 bp

RefSeq ORF: 774 bp

Locus ID: 72549

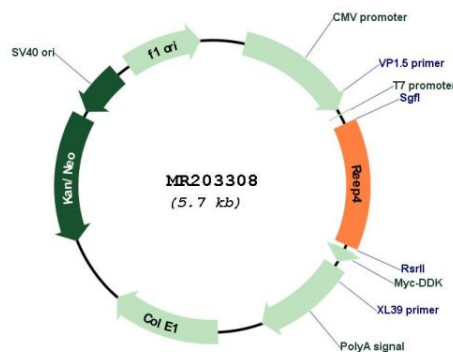
UniProt ID: [Q8K072](#)

Cytogenetics: 14 D2

MW: 29.7 kDa

Gene Summary: Microtubule-binding protein required to ensure proper cell division and nuclear envelope reassembly by sequestering the endoplasmic reticulum away from chromosomes during mitosis. Probably acts by clearing the endoplasmic reticulum membrane from metaphase chromosomes (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203308