

## Product datasheet for **RC208010**

### REM (REM1) (NM\_014012) Human Tagged ORF Clone

#### Product data:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                               |
| Product Name:             | REM (REM1) (NM_014012) Human Tagged ORF Clone                     |
| Tag:                      | Myc-DDK                                                           |
| Symbol:                   | REM                                                               |
| Synonyms:                 | GD:REM; GES                                                       |
| Mammalian Cell Selection: | Neomycin                                                          |
| Vector:                   | pCMV6-Entry (PS100001)                                            |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                              |
| ORF Nucleotide Sequence:  | >RC208010 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGACACTCAACACCGAGCAGGAAGCAAAGACCCCTCTGCACCGGCGAGCCAGCACCCCACTGCCCTGT  
CCCCACGGGGCCACCAGCCTGGCCGCCTGAGCACAGTGCCTTCCACTCAATCCCAGCATCCCCGGCTGGG  
CCAATCAGCCTCCCTCAACCTCCACCCAGAAACCTTCACTGCCCCAGATGATTGGTCTTCTGAATCC  
AGCGACTCTGAAGGCTCCTGGGAGGCTCTTACCGTGTGGTGCTACTTGGAGATCCTGGAGTGGGAAGA  
CCAGCTTGCCAGCCTCTTTCAGGGAAGCAAGAGAGGGACCTCCATGAACAGCTGGGAGAAGATGTATA  
TGAGAGGACCCCTACGGTGGATGGAGAAGACACCACACTGGTGGTCGTGGACACCTGGGAGGCCGAGAAA  
CTGGATAAAAAGCTGGAGCCAGGAGTCATGCCTGCAGGGGGGCACTGCCTATGTCATCGTATACTCCATCG  
CAGACCGAGGCAGCTTTGAGAGTGCCTCTGAGCTCCGCATCCAGCTGCGGCGCACACATCAGGCAGACCA  
TGTGCCCATCATCCTCGTGGGCAACAAGGCAGACTTGGCCCGCTGCCGAGAAGTCTCTGTGGAAGAGGGC  
CGCGCCTGCGCTGTGGTGTTCGACTGTAATTCATCGAGACATCCGCCACGCTGCAGCACAATGTGGCCG  
AGCTCTTCGAGGGCGTGGTGCGCCAACTGCGCTTGCGCCGCCGGGACAGTGCGGCCAAGGAACCCCCAGC  
ACCCGACGGCCGCCAGCCTAGCCAGCGCGCTCGTCGTTCTTGGCACGCTGACAGCCCGCAGCGCA  
CGCCGCCGGGCACTCAAGGCCGCTCCAAGTCTGCCACAATCTGGCCGTGCTC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC208010 protein sequence  
 Red=Cloning site Green=Tags(s)

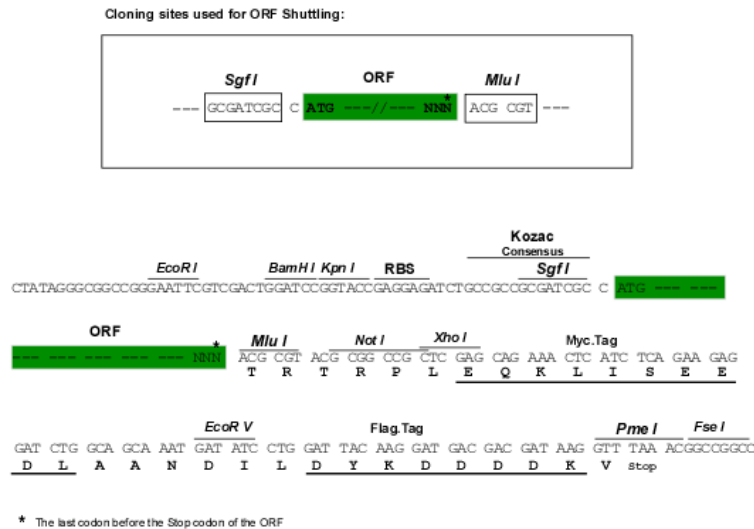
MTLNTEQEAKTPLHRRASTPLPLSPRGHQPGRLSTVPSTQSQHPRLGQSASLNPPTQKPSPAPDDWSSES  
 SDSEGSWEALYRVVLLGDPGVGKTSLSLFAFKQERDLHEQLGEDVYERTLTVDGEDTTLVVVDTWAEK  
 LDKSWSQESCLQGG SAYVIVYSIADRG SFESASELRIQLRRT HQADHVP IILVGNKADLARCRESVVEEG  
 RACAVFDCKFIETSATLQHNVAELFEGVVRQLRLRRRDSAAKEPPAPRRPASLAQRARRFLARLTARSA  
 RRRALKARSKSCHNLAVL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6851\\_e03.zip](https://cdn.origene.com/chromatograms/mk6851_e03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014012

**ORF Size:** 894 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\\_014012.6](#)

**RefSeq Size:** 1689 bp

**RefSeq ORF:** 897 bp

**Locus ID:** 28954

**UniProt ID:** [O75628](#)

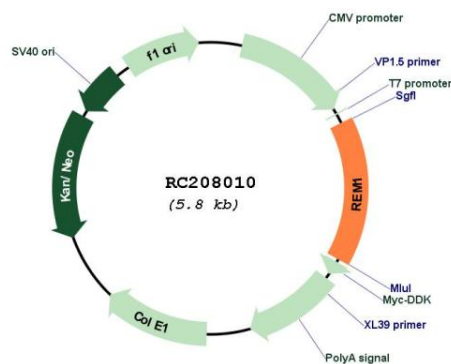
**Cytogenetics:** 20q11.21

**Protein Families:** Druggable Genome

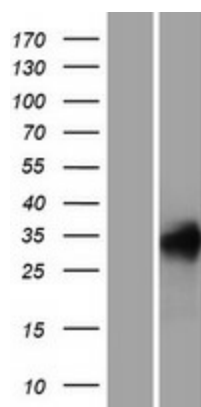
**MW:** 32.9 kDa

**Gene Summary:** The protein encoded by this gene is a GTPase and member of the RAS-like GTP-binding protein family. The encoded protein is expressed in endothelial cells, where it promotes reorganization of the actin cytoskeleton and morphological changes in the cells. [provided by RefSeq, Jul 2008]

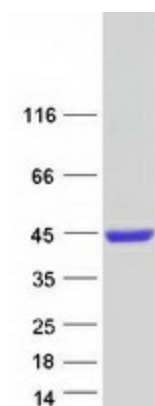
## Product images:



Circular map for RC208010



Western blot validation of overexpression lysate (Cat# [LY415518]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208010 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified REM1 protein (Cat# [TP308010]). The protein was produced from HEK293T cells transfected with REM1 cDNA clone (Cat# RC208010) using MegaTran 2.0 (Cat# [TT210002]).