

Product datasheet for **RG208010**

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:	TurboGFP
Symbol:	REM
Synonyms:	GD:REM; GES
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208010 representing NM_014012 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGACACTCAACACCGAGCAGGAAGCAAAGACCCCTCTGCACCGGCGAGCCAGCACCCCACTGCCCTGT
CCCCACGGGGCCACCAGCCTGGCCGCCTGAGCACAGTGCCTTCCACTCAATCCCAGCATCCCCGGCTGGG
CCAATCAGCCTCCCTCAACCCTCCACCCAGAAACCTTCACTGCCCCAGATGATTGGTCTTCTGAATCC
AGCGACTCTGAAGGCTCCTGGGAGGCTCTCTACCGTGTGGTGCTACTTGGAGATCCTGGAGTGGGAAGA
CCAGCTTGGCCAGCCTCTTTCAGGGAAGCAAGAGAGGGACCTCCATGAACAGCTGGGAGAAGATGTATA
TGAGAGGACCCCTACGGTGGATGGAGAAGACACCACACTGGTGGTCGTGGACACCTGGGAGGCCGAGAAA
CTGGATAAAAAGCTGGAGCCAGGAGTCATGCCTGCAGGGGGGCAGTGCCTATGTCATCGTATACTCCATCG
CAGACCGAGGCAGCTTTGAGAGTGCCTCTGAGCTCCGCATCCAGCTGCGGCGCACACATCAGGCAGACCA
TGTGCCCATCATCCTCGTGGGCAACAAGGCAGACTTGGCCCGCTGCCGAGAAGTCTCTGTGGAAGAGGGC
CGCGCCTGCGCTGTGGTGTTCGACTGTAATTCATCGAGACATCCGCCACGCTGCAGCACAATGTGGCCG
AGCTCTTCGAGGGCGTGGTGCGCCAACTGCGCTTGCGCCGCCGGGACAGTGCGCCAAGGAACCCCCAGC
ACCCCGACGGCCGCCAGCCTAGCCAGCGCGCTCGTCGTTCTTGGCACGCTGACAGCCCGCAGCGCA
CGCCGCCGGGCACTCAAGGCCGCTCCAAGTCTGCCACAATCTGGCCGTGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208010 representing NM_014012
 Red=Cloning site Green=Tags(s)

MTLNTEQEAKTPLHRRASTPLPLSPRGHQPGRLSTVPSTQSQHPRLGQSASLNPPTQKPSAPDDWSSES
 SDSEGSWEALYRVVLLGDPGVGKTSLSLFAKQERDLHEQLGEDVYERTLTVDGEDTTLVVVDTWEAEK
 LDKSWSQESCLQGSAYVIVYSIADRGSFESASELRIQLRRTHQADHVPILVGNKADLARCREVSVVEEG
 RACAVVFDCKFIETSATLQHNVAELFEGVVRQLRLRRRDSAAKEPPAPRRPASLAQRARRFLARLTARSA
 RRRALKARSKSCHNLAVL

TRTRPLE – GFP Tag – V

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.

RefSeq: [NM_014012.6](#)

RefSeq Size: 1675 bp

RefSeq ORF: 897 bp

Locus ID: 28954

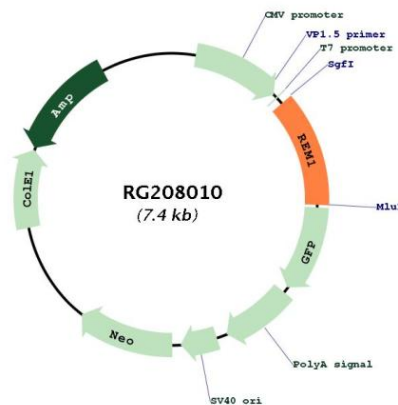
UniProt ID: [O75628](#)

Cytogenetics: 20q11.21

Protein Families: Druggable Genome

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 RG208010