

Product datasheet for **RC207806**

REM2 (NM_173527) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	REM2 (NM_173527) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	REM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207806 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACACAGAAACCACAGCACTCTGCCCTCTGGCAGCCGCCGGGCTCCCTCCAGGGACGCCACAC
 CAGAAGCAGATGCCACGCTACTAAAGAAGTCAGAGAACTGTTGGCAGAGTTGGACCGAGCGGGTTACC
 CTCTGCCCCTGGGGCCCCCAGACGAAGAGGCAGTATGCCTGTCCCTACAAGCACCAGCTCCGGCGGGCC
 CAGGCTGTAGATGAACCTGACTGGCCACCTCAGGCCTCATCTCTGGCTCGTCTGACTCCTTGGGCTCAG
 GGGAGGCAGCCCCTGCTCAAAAGGATGGCATCTTCAAGGTCATGCTAGTGGGGGAGAGCGCGTGGGCAA
 GAGCACCTAGCAGGCACTTTTGGTGGTCTCCAGGGAGACAGTGTACGAACCGGAGAACCAGAGGAT
 ACCTATGAGAGACGCATCATGGTGGATAAGGAGGAAGTGAAGTCTAGTCGTTTATGACATCTGGGAACAGG
 GGGATGCAGGAGGGTGGCTGCGGGACCACTGCCTTCAGACCGGGGACGCCTTTCTCATCGTCTTCTCAGT
 CACCGACCGACGGAGTTTCTCAAAGTTCCAGAGACCCTACTTCGGCTCCGGGCTGGGAGGCCGACCCAC
 GACCTACCGTTATCCTCGTTGGAACAAGAGCGACTTGCCCGCTCCGGGAGGTATCACTGGAGGAGG
 GCCGCCACCTGGCCGGGACGCTGAGCTGCAAGCACATCGAGACGTCGGCCGCACTGCACCACAACACGAG
 GGAGCTCTTCGAGGGCGCGGTGCGCCAGATCCGGCTGCGGCGGGGCCAAACCACGCCGAGGCCAGAGG
 CCCGATCCGGGCAGCCCCGAGGGCCCTGCGCCACCTGCACGCCGAGAGCCTCACCAAGAAAGCCAAGA
 GGTTCCTCGCCAACCTGGTGCCGCGCAACGCCAAGTTCTTCAAGCAGCGCTCCAGGTCGTGTACGACCT
 CTCGGTGCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC207806 protein sequence
Red=Cloning site Green=Tags(s)

MDTETTALCPSGSRRASPPGTPTEADATLLKKSEKLLAELDRSGLPSAPGAPRRRGSMVPVKYHQLRRA
QAVDELDPWPQASSGSSDSLGSGEAAPAQKDGIKFKVMLVGESGVGKSTLAGTFGLQGDSAHEPENPED
TYERRIMVDKKEEVTLVVYDIWEQGDAGGWLDRHCLQTGDAFLIVFSVTDRRRSFKVPETLLRLRAGRPHH
DLPVLLVGNKSDLARREVSLEGRHLAGTLCKHIETSALHHTNRELFEGAVRQIRLRGRNRHAGGQR
PDPGSPGEPAPARRESLTKKAKRFLANLVPNRNKFKORSRSCDL SVL

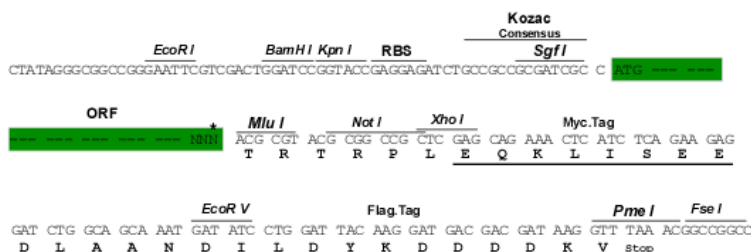
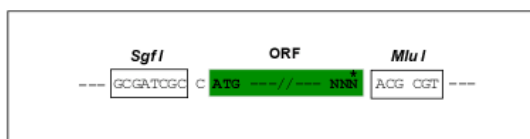
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6021_c07.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 173527

ORF Size: 990 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_173527.1](#), [NP_775798.1](#)

RefSeq Size: 1885 bp

RefSeq ORF: 1023 bp

Locus ID: 161253

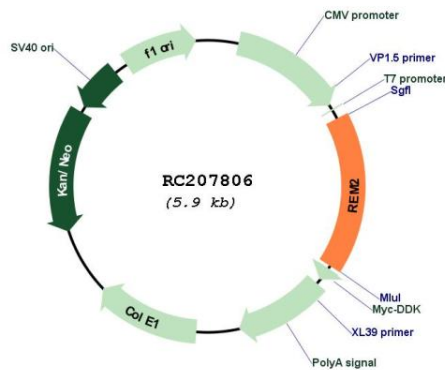
UniProt ID: [Q8IYK8](#)

Cytogenetics: 14q11.2

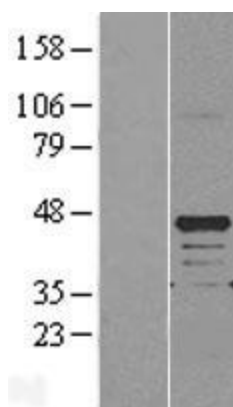
MW: 36 kDa

Gene Summary: Binds GTP saturably and exhibits a low intrinsic rate of GTP hydrolysis.[UniProtKB/Swiss-Prot Function]

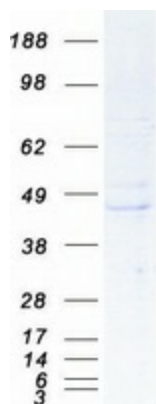
Product images:



Circular map for RC207806



Western blot validation of overexpression lysate (Cat# [LY403560]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207806 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified REM2 protein (Cat# [TP307806]). The protein was produced from HEK293T cells transfected with REM2 cDNA clone (Cat# RC207806) using MegaTran 2.0 (Cat# [TT210002]).