

Product datasheet for **RR208987**

Emd (NM_012948) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Emd (NM_012948) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Emd
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR208987 representing NM_012948
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGACTATGCGTTTTGTCCGATACTGAGCTGGCCGAGTGCTACGCCAGTACAACATCCCGCATG
GGCCTATTCTGGGCTCCACTCGCAAGCTCTACGAAAAGAAAATCTTCGAGTACGAGACCCAGAGAAGGAG
GCTTTCGCCCCCAGCTCGTCATCGTCTTCATTCTCCTATCGGTTCTCAGACTTGGATTCAGCCTCCGTG
GACTCAGACATGTATGATCTGCCAAAAAGGAGGACGCCTTACTTTACCAGAGCAAGGACTATAATGATG
ACTACTATGAGGAGAGCTATTTGACTACCAGGACATACGGGGAGCCCGAGTCTGTGGGCATGTCCAAGAG
CTTCCGCGGCCAGGACCTCACTTGTAGATGCTGATGATACCTTCCATCACCAGGTGCGTGATGACATT
TTCTCTTCTTCAGAAGAGGAAGGCAAGGATAGGGAACGCCCATCTATGGCCGAGACAGTGCCTACCAGA
GCATCGCAGAGTACCGCCCCATTTCCAATGTCTCCAGGAGCTCCCTGGGCTTATCATATTATCCTAGATC
CTCCACCTCTTGTGTCTCTCTTCT
GAAAAGCAGGCCCTACTGCTGCTCTGGCCAGGATCGACAGGTCCCACTCTGGGCCAGCTGTTACTCT
TCCTGGCCTTTGCTACCTTTCTGCTCTTTGTTTACTATTCCATAACAAGCTCAAGAAGGCAACCCCTCTG
GATGGATCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR208987 representing NM_012948
Red=Cloning site Green=Tags(s)

MDDYAVLSDELA AAVLRQYNIPHGPILGSTRKLYEKKIFEYETQRRRLSPSSSSSSFSYRFSDLDSASV
 DSDMYDLPKKEDALLYQSKDYNDYYEESYL TTRTYGEPESVGMKSFRFRPGTSLVADDDTFHHQVRDDI
 FSSSEEGKDRERPIYGRDSAYQSI AEYRPI SNVSRSSLGLSYYPSSSTSVSSSSSSPSSWLTRRAIRP
 EKQAPTAALGQDRQVPLWGQLLLFLAFATFLLFVYYSIQAEQGNPFWMDP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012948

ORF Size: 780 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_012948.1](#), [NP_037080.1](#)

RefSeq Size: 1274 bp

RefSeq ORF: 783 bp

Locus ID: 25437

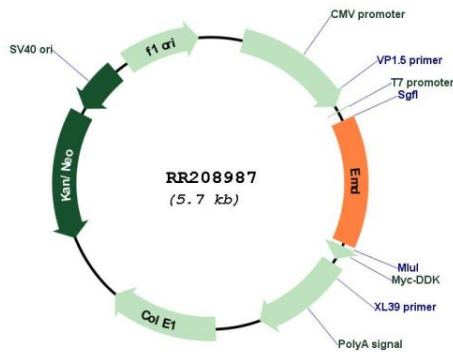
UniProt ID: [Q63190](#)

Cytogenetics: Xq37

MW: 29.7 kDa

Gene Summary: Stabilizes and promotes the formation of a nuclear actin cortical network. Stimulates actin polymerization in vitro by binding and stabilizing the pointed end of growing filaments. Inhibits beta-catenin activity by preventing its accumulation in the nucleus. Acts by influencing the nuclear accumulation of beta-catenin through a CRM1-dependent export pathway. Links centrosomes to the nuclear envelope via a microtubule association. Required for proper localization of non-farnesylated prelamins-A/C (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR208987