

Product datasheet for **RC200815**

RAMAC (NM_031452) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: Myc-DDK
Symbol: RAMAC
Synonyms: C15orf18; FAM103A1; HsT19360; RAM; RAMMET
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC200815 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGACACTGCCGAAGCTGTTCCAAAGTTTGAAGAGATGTTGCTAGTAGATTCACAGAAAATGACA
AGGAGTATCAGGAATACCTGAAACGCCCTCCTGAGTCTCCTCCAATTGTTGAGGAATGGAATAGCAGAGC
TGGTGGGAACCAAAGAACAGAGGCAATCGTTGCAAGACAACAGACAGTTCAGAGGCAGGGACAACAGA
TGGGGGTGGCCAAGTGACAATCGATCCAATCAGTGGCATGGACGATCCTGGGGTAACAACCTACCCGCAAC
ACAGACAAGAACCTTACTATCCCAGCAATATGGACATTATGGTTACAACCAGCGCCTCCTTACGGTTA
CTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200815 protein sequence
Red=Cloning site Green=Tags(s)

MTDTAEAVPKFEEMFASRFTENDKEYQEYLKRPPESPPIVEEWN SRAGGNQRNRGNRLQDNRQFRGRDNR
WGWPSDNRSNQWHGRSWGNNYPQHRQEPYYPQYGHYGYNQRPYPGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6385_b01.zip

Restriction Sites: SgfI-MluI



[View online »](#)

Cloning Scheme:


ACCN: NM_031452

ORF Size: 354 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.

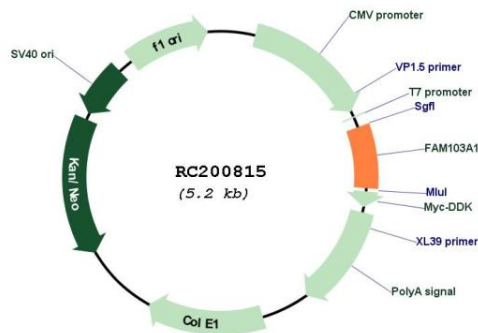
RefSeq: [NM_031452.4](#)

RefSeq Size: 1588 bp

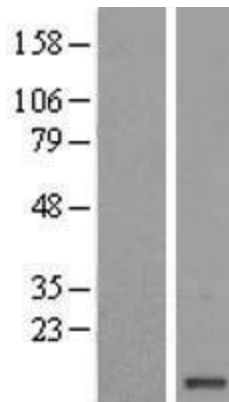
RefSeq ORF: 357 bp
 Locus ID: 83640
 UniProt ID: [Q9BTL3](#)
 Cytogenetics: 15q25.2
 MW: 14.4 kDa

Gene Summary: Regulatory subunit of the mRNA-capping methyltransferase RNMT:RAMAC complex that methylates the N7 position of the added guanosine to the 5'-cap structure of mRNAs (PubMed:22099306, PubMed:27422871). Promotes the recruitment of the methyl donor, S-adenosyl-L-methionine, to RNMT (PubMed:27422871). Regulates RNMT expression by a post-transcriptional stabilizing mechanism (PubMed:22099306). Binds RNA (PubMed:22099306). [UniProtKB/Swiss-Prot Function]

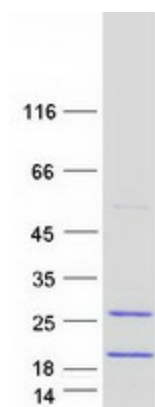
Product images:



Circular map for RC200815



Western blot validation of overexpression lysate (Cat# [LY410524]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200815 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RAMAC protein (Cat# [TP300815]). The protein was produced from HEK293T cells transfected with RAMAC cDNA clone (Cat# RC200815) using MegaTran 2.0 (Cat# [TT210002]).