

Product datasheet for **RC218003**

FAM174B (NM_207446) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: FAM174B (NM_207446) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: FAM174B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC218003 representing NM_207446
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGCGCCGTGCCGCTGCCCGCCCGCTCCTGCCGCTGCTGCTGCTCGCGCTCCTGGCCGCTCCCGCCG
 CCCGCGCCAGCAGAGCCGAGTCCGTCTCCGCGCCGTGGCCGAACCCGAGCGGAGTCCGGCCACCGCC
 CGGCCCGGGCCCGGGAACACCACCCGGTTTGGGTCTGGGGCGGGCGGCAGCGGCAGCTCCAGCTCC
 AACAGCAGTGGCGACGCCTTGGTGACCCGCATTTCCATCCTCCTCCGCGACCTACCCACCCTCAAGGCAG
 CCGTGATCGTGGGTTCGCCTTTACCACCCTCATCGCTGCCTGCTGCTGCGCGTCTTCAGGTCCGGG
 AAAGAGGTTAAAGAAGACACGCAAGTATGATATCATCACCCTCCAGCAGAGCGAGTGGAAATGGCGCCA
 CTAATGAAGAGGATGATGAAGATGAGGACTCCACAGTATTCGACATCAAATACAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC218003 representing NM_207446
 Red=Cloning site Green=Tags(s)

MRAVPLPAPLLPLLLLALLAAPAARASRAESVSAPWPEPERESRPPPGPGNTTRFGSGAAGGSGSSSS
 NSSGDALVTRISILLRDLPTLKAIVAFATLLLIACLLLRVFRSGKRLKTRKYDIITPAERVEMAP
 LNEEDEDSTVFDIKYR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8014_c10.zip

Restriction Sites: SgfI-MluI



[View online >](#)

Cloning Scheme:


ACCN: NM_207446

ORF Size: 477 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_207446.3](#)

RefSeq Size: 2630 bp

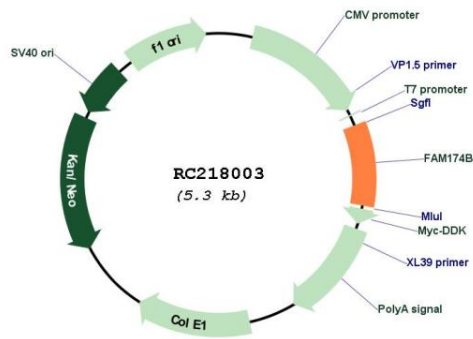
RefSeq ORF: 480 bp

Locus ID: 400451

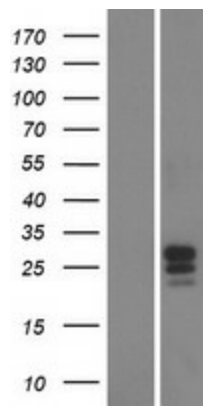
UniProt ID: [Q3ZCQ3](#)

Cytogenetics: 15q26.1
Protein Families: Transmembrane
MW: 16.8 kDa
Gene Summary: Essential for Golgi structural integrity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC218003



Western blot validation of overexpression lysate (Cat# [LY404039]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218003 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).