

Product datasheet for **RC222537**

MVB12B (NM_033446) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MVB12B (NM_033446) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: MVB12B
Synonyms: C9orf28; FAM125B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC222537 representing NM_033446
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAAGCTGCTTCTGCGTGAGACGGAGCCGGGACCCGCCGCCCGCAGCCACCGCCGCCGCCGCC
AGCGGGGAACAGACCAGTCCACCATGCCTGAAGTCAAAGACCTCTCAGAAGCCTTGCCAGAAACGTCAT
GGATCCCATCACGGGAGTCGGGGTGGTGGCTTCTCGGAACCGAGCCCGACAGGCTATGACGTAGTTGCA
CAGACAGCAGATGGTGTGGATGCTGACCTCTGGAAGACGGCTTATTTAAATCCAAGTTACCAGATACC
TGTGTTTCACAAGATCATTTTCAAAGAAAATAGTCATCTGGGGAACGTGTTAGTAGATATGAAGTCAT
TGACATCAAGGACACACTGCCTGTGGGCTTCATCCCAATTCAGGAGACGGTGGACACACAGGAAGTGGCT
TTTAGGAAGAAGAGGCTGTGCATTAATTTATCCACGGGATTCAACGGAAGCTGCGATTTGTGACATTC
GGATCATGGGCCGGACCAAGCAGGCCCGCCTCAGTACACGTTTATTGGGGAACCTGAACAGCATGGGGAT
CTGGTATCGAATGGGCAGAGTACCAAGAAATCATGACTCATCTCAACCCACAACGCTTCCCAGTCATCA
GCTGCCTCACCCAGCCCCAACCTTCCCAGGCATCTCCCTAACACTTCTGCCACCTTCCGAGGCA
GGAACAGCACCCGACGGACTACGAGTACCAGCACTCCAATTTGTATGCCATATCAGCAATGGATGGTGT
GCCTTTTATGATTTAGAGAAGTTTTCTGTGTCCAGAAAGTATGCAGCCCTTTGATCTCTCTGGGAATC
ACCATCAAATCTCTAGCAGAAATCGAAAAGAGTACGAGTACAGCTTCCGCACAGAGCAGAGCGCAGCCG
CCAGGCTCCCGCCAGCCCCACCGGTGTCAGCAGATCCCGCAGTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222537 representing NM_033446
 Red=Cloning site Green=Tags(s)

MRSCFCVRRSRDPPPPQPPPPPPQRTDQSTMPEVKDLSEALPETSMDPITGVGVVASRNRAPTGYDVVA
 QTADGVDADLWKDGLFKSKVTRYLCFTRFSKENSHLGNVLVDMKLIKIDTLPVGFIPQETVDTQEVA
 FRKKRLCIKFIIPRDSTEAACDIRIMGRTKQAPPQYTFIGELNSMGIWYRMGRVPRNHSSQPTTPSQSS
 AASTPAPNLPRIHSLTLPATFRGRNSTRDYEQHSNL YAI SAMDGVPFMISEKFCVPESMQPFDLLGI
 TIKSLAEIEKEYEYSFRTEQSAARLPPSPTRCQQIPQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8051_f02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_033446

ORF Size: 957 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_033446.3](#)

RefSeq Size: 4818 bp

RefSeq ORF: 960 bp

Locus ID: 89853

UniProt ID: [Q9H7P6](#)

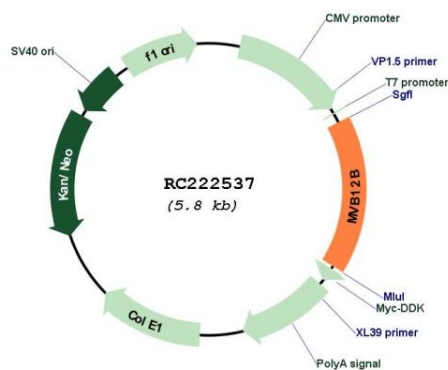
Cytogenetics: 9q33.3

Protein Pathways: Endocytosis

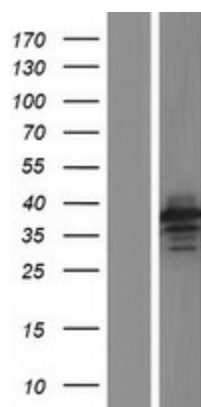
MW: 35.4 kDa

Gene Summary: The protein encoded by this gene is a component of the ESCRT-I complex, a heterotetramer, which mediates the sorting of ubiquitinated cargo protein from the plasma membrane to the endosomal vesicle. ESCRT-I complex plays an essential role in HIV budding and endosomal protein sorting. Depletion and overexpression of this and related protein (MVB12A) inhibit HIV-1 infectivity and induce unusual viral assembly defects, indicating a role for MVB12 subunits in regulating ESCRT-mediated virus budding. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]

Product images:



Circular map for RC222537



Western blot validation of overexpression lysate (Cat# [LY409511]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222537 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).