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Product datasheet for RC205093

MVB12B (NM_001011703) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MVB12B (NM_001011703) 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:

>RC205093 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGAAGCTGCTTCTGCGTGAGACGGAGCCGGGACCCGCCGCCGCCGCAGCCACCGCCGCCGCCGCCCC
AGCGGGGAACAGACCAGTCCACCATGCCTGAAGTCAAAGACCTCTCAGAAGCCTTGCCAGAAACATCAAT
GGATCCCATCACGGGAGTCGGGGTGGTGGCTTCTCGGAACCGAGCCCCGACAGGCTATGACGTAGTTGCA
CAGACAGCAGATGGTGTGGATGCTGACCTCTGGAAAGACGGCTTATTTAAATCCAAGGTTACCAGATACC
TGTGTTTCACAAGATCATTTTCCAAAGAAAATAGTCATCTGGGGAACGTGTTAGTAGATATGAAGCTCAT
TGACATCAAGGACACACTGCCTGTGGGCTTCATCCCAATTCAGGAGACGGTGGACACACAGGAAGTGGCT
TTTAGGAAGAAGAGGCTGTGCATTAAATTTATTCCACGGGATTCAACGGAAGCTGCGATTTGTGACATTC
GGATCATGGGCCGGACCAAGCAGGCCCCGCCTCAGTACACGTTTATTGGGGAACTGAACAGCATGGGGAT
CTGGTATCGAATGGGCAGAGTACCAAGAAATCATGACTCATCTCAACCCACAACGCCTTCCCAGTCATCA
GCTGCCTCCACCCCAGCCCCCAACCTTCCCAGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC205093 protein sequence
Red=Cloning site Green=Tags(s)

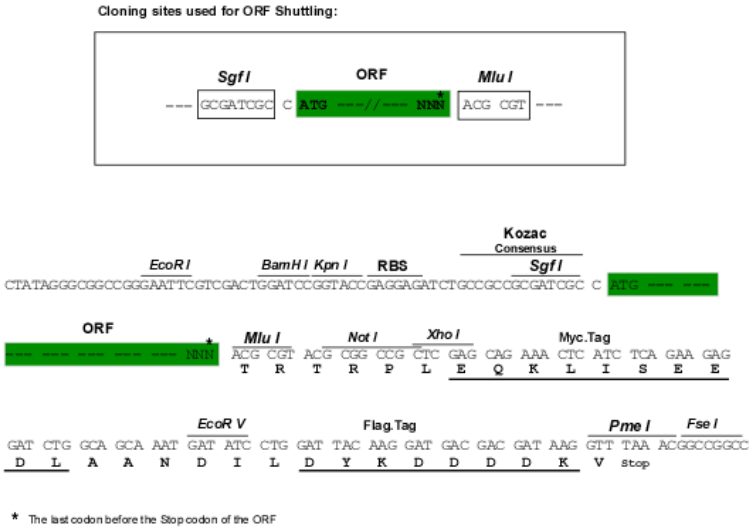
MRSCFCVRRSRDPPPPQPPPPPPQRGTDQSTMPEVKDLSEALPETSMDPITGVGVVASRNRAPTGYDVVA
QTADGVDADLWKDGLFKSKVTRYLCFTRSFSKENSHLGNVLVDMKLIDIKDTLPVGFIPIQETVDTQEVA
FRKKRLCIKFIPRDSTEAAICDIRIMGRTKQAPPQYTFIGELNSMGIWYRMGRVPRNHDSSQPTTPSQSS
AASTPAPNLPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6426_c06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001011703

ORF Size: 663 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_001011703.3

RefSeq Size: 2705 bp

RefSeq ORF: 666 bp

Locus ID: 89853

UniProt ID: Q9H7P6

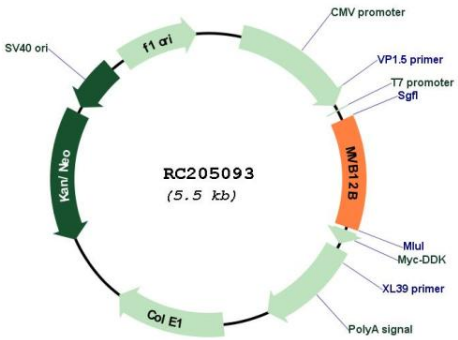
Cytogenetics: 9q33.3

Protein Pathways: Endocytosis

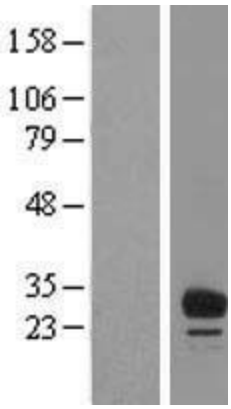
MW: 24.5 kDa

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]

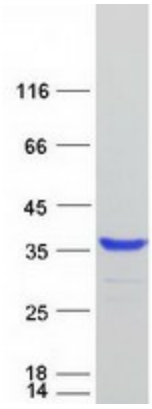
Product images:



Circular map for RC205093



Western blot validation of overexpression lysate (Cat# [LY423295]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205093 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified MVB12B protein (Cat# [TP305093]). The protein was produced from HEK293T cells transfected with MVB12B cDNA clone (Cat# RC205093) using MegaTran 2.0 (Cat# [TT210002]).