

Product datasheet for **RG222537**

MVB12B (NM_033446) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MVB12B (NM_033446) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MVB12B
Synonyms: C9orf28; FAM125B
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222537 representing NM_033446
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGAAGCTGCTTCTGCGTGAGACGGAGCCGGGACCCGCCGCCCGCAGCCACCGCCGCCGCCCC
 AGCGGGGAACAGACCAGTCCACCATGCCTGAAGTCAAAGACCTCTCAGAAGCCTTGCCAGAAACGTCAAT
 GGATCCCATCACGGGAGTCGGGGTGGTGGCTTCTCGGAACCGAGCCCGACAGGCTATGACGTAGTTGCA
 CAGACAGCAGATGGTGTGGATGTGACCTCTGGAAGACGGCTTATTTAAATCCAAGTTACCAGATACC
 TGTGTTTCACAAGATCATTTTCAAAGAAAATAGTCATCTGGGGAACGTGTTAGTAGATATGAAGTCAT
 TGACATCAAGGACACACTGCCTGTGGGCTTCATCCCAATTCAGGAGACGGTGGACACACAGGAAGTGGCT
 TTTAGGAAGAAGAGGCTGTGCATTAATTTATTCACGGGATTCAACGGAAGCTGCGATTTGTGACATTC
 GGATCATGGGCCGGACCAAGCAGGCCCGCCTCAGTACACGTTTATTGGGGAACCTGAACAGCATGGGGAT
 CTGGTATCGAATGGGCAGAGTACCAAGAAATCATGACTCATCTCAACCCACAACGCTTCCCAGTCATCA
 GCTGCCTCACCCAGCCCCAACCTTCCCAGGCATCTCCCTAACCTTCTGCCACCTTCCGAGGCA
 GGAACAGCACCCGACGGACTACGAGTACCAGCACTCCAATTTGTATGCCATATCAGCAATGGATGGTGT
 GCCTTTTATGATTTAGAGAAGTTTTCTGTGTCCAGAAAGTATGCAGCCCTTTGATCTCTCTGGGAATC
 ACCATCAAATCTCTAGCAGAAATCGAAAAGAGTACGAGTACAGCTTCCGCACAGAGCAGAGCGCAGCCG
 CCAGGCTCCCGCCAGCCCCACCGGTGTCAGCAGATCCCGCAGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222537 representing NM_033446
 Red=Cloning site Green=Tags(s)

MRSCFCVRRSRDPPPPQPPPPPPQRGTDQSTMPEVKDLSEALPETSMDPITGVGVVASRNRAPTGYDVVA
 QTADGVDADLWKDGLFKSKVTRYLCFTRFSKENSHLGNVLVDMKLIIDIKDTLPVGFIPIQETVDTQEVA
 FRKKRLCIKFIIPRDSTEAACDIRIMGRTKQAPPQYTFIGELNSMGIWYRMGRVPRNHDSQPTTPSQSS
 AASTPAPNLRHISLTLPATFRGRNSTRDYEQHSNL YAI SAMDGVPFMISEKFSCVPESMQPFDLLGI
 TIKSLAEIEKEYEYSFRTEQSAARLPPSPTRCQQIPQS

TRTRPLE - GFP Tag - V

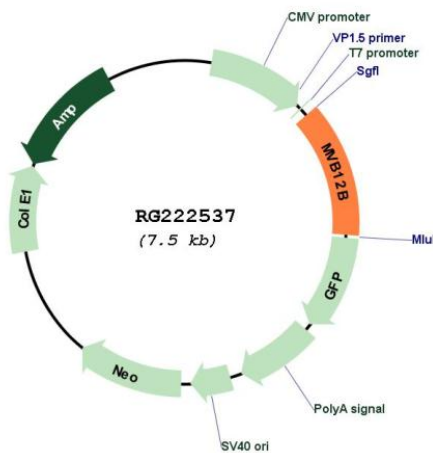
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



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:	<ol style="list-style-type: none">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
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]