

Product datasheet for **RC217387**

ITGB6 (NM_000888) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | ITGB6 (NM_000888) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | ITGB6 |
| Synonyms: | A11H |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC217387 representing NM_000888
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGATTGAACTGCTTTGCCCTGTTCTTTCTATTCTAGGAAGGAATGATCACGTACAAGTGGCTGTG
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 GAATTTTACTCATCCATCTGGAGTTGGCGAAAGGTGTGATACCCAGCAAACCTTTTAGCTAAAGGATGT
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 CGACCATCAGTGAAGAAGAAGATTTCTCAAAGGATGGTTCTGTTTCTGCTCTCTGCAAGGAGAAAAATGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC217387 representing NM_000888
Red=Cloning site Green=Tags(s)

MGIELLCLFFFLGRNDHVQGGCALGGAETCEDCLLIGPQCAWCAQENFTHPSGVGERCDTPANLLAKGC
QLNFIENPVSQVEILKNKPLSVGRQKNSSDIVQIAPQSLILKLRPGGAQTLQVHVRQTEDYPVDLYLMD
LSASMDDLNTIKELGSRLSKEMSKLTSNFRLGFGSFVEKPVSPFVKTTPEEIANPCSSIPYFCLPTFGF
KHILPLTND AERFNEIVKNQKISANIDTPEGGFDAIMQAAVCKEKIGWRNDSLHLLVFDADSHFGMDS
KLAGIVIPNDGLCHLDSKNEYSMTVLEYPTIGQLIDKLVQNNVLLIFAVTQEQVHLYENYAKLIPGATV
GLLQKDSGNILQLIISAYEELRSEVELEVLGDTEGLNLSFTAICNNGTLFQHKKCSHMKVGD TASFSVT
VNIPHCERRSRHIIKPVGLGDALELLVSPECNDCQKEVEVNSSKCHHGNGSFQCGVCACHPGHMGP
RC
ECGEDMLSTDSCKEAPDHPSCSGRGDCYCGQCICHLSPYGNIIYGPYCQDNFSCVRHKGLLCGGNGDCDC
GECVCRSGWTGEYCNCCTTSTDSCVSEDGVLCSGRGDCVCGKCVCTNPGASGPTCERCPTCGDPCNSKRSC
IECHLSAAGQAREECVDKCKLAGATISEEEDFSKDGSVCSLQGENECLITFLITDNEGKTI IHSINEK
DCPKPPNIPMIMLGVSLAILLIGVLLCIWKLLVSFHDRKEVAKFEAERSKAKWQTGTNPLYRGSTSTFK
NVTYKHREKQKVDLSTDC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6166_h02.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_000888

ORF Size: 2364 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_000888.5](#)

RefSeq Size: 2397 bp

RefSeq ORF: 2367 bp

Locus ID: 3694

UniProt ID: [P18564](#)

Cytogenetics: 2q24.2

Domains: INB, PSI

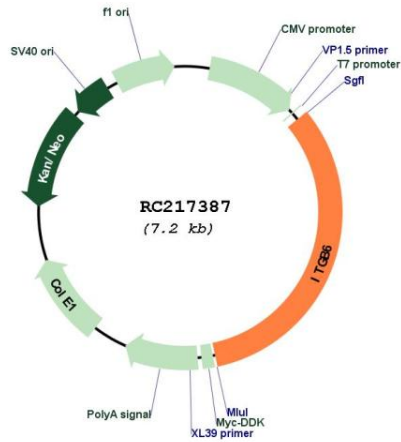
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hypertrophic cardiomyopathy (HCM), Regulation of actin cytoskeleton

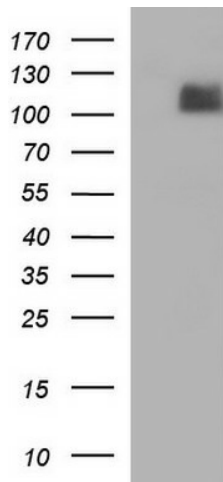
MW: 85.8 kDa

Gene Summary: This gene encodes a protein that is a member of the integrin superfamily. Members of this family are adhesion receptors that function in signaling from the extracellular matrix to the cell. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. The encoded protein forms a dimer with an alpha v chain and this heterodimer can bind to ligands like fibronectin and transforming growth factor beta 1. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]

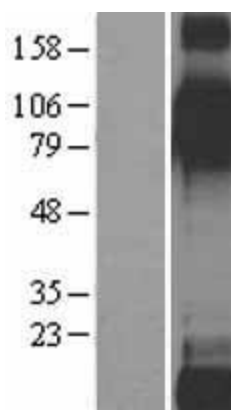
Product images:



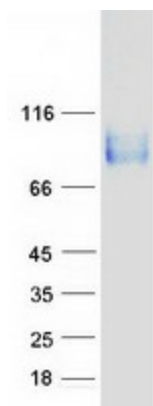
Circular map for RC217387



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ITGB6 (Cat# RC217387, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-ITGB6 (Cat# [TA507354]). Positive lysates [LY400324] (100ug) and [LC400324] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY400324]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217387 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ITGB6 protein (Cat# [TP317387]). The protein was produced from HEK293T cells transfected with ITGB6 cDNA clone (Cat# RC217387) using MegaTran 2.0 (Cat# [TT210002]).