

Product datasheet for **RC239392**

ITGB6 (NM_001282389) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITGB6 (NM_001282389) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ITGB6
Synonyms:	A11H
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide
Sequence:**

>RC239392 representing NM_001282389
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATCACGTACAAGGTGGCTGTGCCCTGGGAGGTGCAGAAACCTGTGAAGACTGCCTGCTTATTGGACC
 TCAGTGTGCCTGGTGTGCTCAGGAGAATTTACTCATCCATCTGGAGTTGGCGAAAGGTGGTGGCAGAC
 TCTGCAGGTGCATGTCCGCCAGACTGAGGACTACCCGGTGGATTTGTATTACCTCATGGACCTCTCCGCC
 TCCATGGATGACGACCTCAACACAATAAAGGAGCTGGGCTCCCGCTTTCCAAAGAGATGTCTAAATTA
 CCAGCAACTTTAGACTGGGCTTCGGATCTTTGTGGAAAACTGTATCCCTTTTGTGAAAAACAACACC
 AGAAGAAATTGCCAACCTTGCAGTAGTATCCATACTTCTGTTTACCTACATTTGGATTCAAGCACATT
 TTGCCATTGACAAATGATGCTGAAAGATTCAATGAAATGTGAAGAATCAGAAAAATTTCTGCTAATATTG
 ACACACCCGAAGGTGGATTTGATGCAATTATGCAAGCTGCTGTGTGAAGAAAAAATTGGCTGGCGGAA
 TGACTCCCTCCACCTCCTGGTCTTTGTGAGTGATGCTGATTCTCATTTTGAATGGACAGCAAACCTAGCA
 GGATCGTCATTCTAATGACGGCTCTGTCACTTGGACAGCAAGAATGAATACTCCATGTCAACTGTCT
 TGGAAATCCAACAATTGGACAACCTATTGATAAACTGGTACAAAAACAACGTGTTATTGATCTTCGCTGT
 AACCCAAGAACAAGTTCATTTATATGAGAATTACGCAAACTTATTCCTGGAGCTACAGTAGGTCTACTT
 CAGAAGGACTCCGGAAACATTCTCCAGCTGATCATCTCAGCTTATGAAGAAGTCCGGTCTGAGGTGGAAC
 TGGAAATATTAGGAGACTGAAGGACTCAACTTGTCACTTACAGCCATCTGTAACAACGGTACCCTCTT
 CCAACACCAAAAGAAATGCTCTCACATGAAAGTGGGAGACACAGCTTCTTCAGCGTGACTGTGAATATC
 CCACACTGCGGAGAGAAGAAGCAGGCACATTATCATAAAGCCTGTGGGGCTGGGGGATGCCCTGGAATTAC
 TTGTCAGCCCAGAATGCAACTGCGACTGTCAGAAAGAAGTGAAGTGAACAGCTCCAATGTCAACACGG
 GAACGGCTCTTTCCAGTGTGGGTGTGCTGCCACCCTGGCCACATGGGGCCTCGCTGTGAGTGTGGC
 GAGGACATGCTGAGCACAGATTCCTGCAAGGAGGCCCCAGATCATCCCTCTGCAGCGGAAGGGGTGACT
 GCTACTGTGGCAGTGTATCTGCCACTTGTCTCCCTATGGAAACATTTATGGGCCTTATTGCCAGTGTGA
 CAATTTCTCCTGCGTGAGACACAAGGGCTGCTCTGCGGAGGTAACGGCGACTGTGACTGTGGTGAATGT
 GTGTGCAGGAGCGGCTGGACTGGCGAGTACTGCAACTGCACCACCAGCACGGACTCCTGCGTCTCTGAAG
 ATGGAGTCTCTGCAGCGGGCGCGGGGACTGTGTTTGTGGCAAGTGTGTTGCACAAACCTGGAGCCTC
 AGGACCAACCTGTGAACGATGTCCTACCTGTGGTGACCCCTGTAACCTCTAACGGAGCTGCATTGAGTGC
 CACCTGTCAGCAGCTGGCCAAGCCGAGAAGAATGTGTGGACAAGTGAACCTAGCTGGTGCACCATCA
 GTGAAGAAGAAGATTTCTCAAAGGATGGTTCTGTTTCTGCTCTCTGCAAGGAGAAAAATGAATGTCTTAT
 TACATTCCTAATAACTACAGATAATGAGGGGAAAACCATCATTACAGCATCAATGAAAAAGATTGTCCG
 AAGCTCCAAACATTCATGATCATGTTAGGGGTTTCCCTGGCTATTCTTCTCATCGGGGTTGTCTTAC
 TGTGATCTGGAAGCTACTGGTGTCAATTCATGATCGTAAAGAAGTTGCCAAATTTGAAGCAGAACGATC
 AAAAGCCAAGTGGCAAACGGGAACCAATCCACTCTACAGAGGATCCACAAGTACTTTAAAAATGTAAC
 TATAAACACAGGGAAAAACAAAAGGTAGACCTTCCACAGATTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC239392 representing NM_001282389
 Red=Cloning site Green=Tags(s)

MITYKVAVPWEVQKPVKTAALLDLVSPGVLRILLIHLELAKGGAQTLQVHVRQTEDYPVDLYLMDLSA
 SMDDDLNTIKELGSRLSKEMSKLTSNFRLGFGSFVEKPVSPFVKTTPEEIANPCSSIPYFCLPTFGFKHI
 LPLTND AERFNEIVKNQKISANIDTPEGGFDAIMQAAVCKEIKIGWRNDSLHLLVFVSDADSHFGMSKLA
 GIVIPNDGLCHLDSKNEYSMSTVLEYPTIGQLIDKLVQNNVLLIFAVTQEQVHL YENYAKLIPGATVGLL
 QKDSGNILQLIISAYEELRSEVELEVLGDTEGLNLSFTAICNNGTLFQHQQKCSHKVGDASFVTVNI
 PHCERRSRHII IKPVGLDALELLVSPECNDCQKEVEVNSSKCHHGNGSFQCGVCAHPGHMGP RCECG
 EDMLSTDSCKEAPDHPSCSGRGDCYCGQCICHLSPYGN IYGPYCQCDNFSCVRHKGLLGGNGDCDCGEC
 VCRSGWTGEYCNC TTTSDSCVSEDGVLCSGRGDCVCGKCVCTNPGASGPTCERCPTCGDPCNSKRSCIEC
 HLSAAGQAREECVDKCKLAGATISEEDFSKDGSVSCSLQGENECLITFLITTDNEGKTIHSINEKDPC
 KPPNIPMIMLVSLAAILLIGVLLCIWKLLVSFHDRKEVAKFEAERSKAKWQTGTNPLYRGSTSTFKNVT
 YKHREKQKVDLSTDC

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

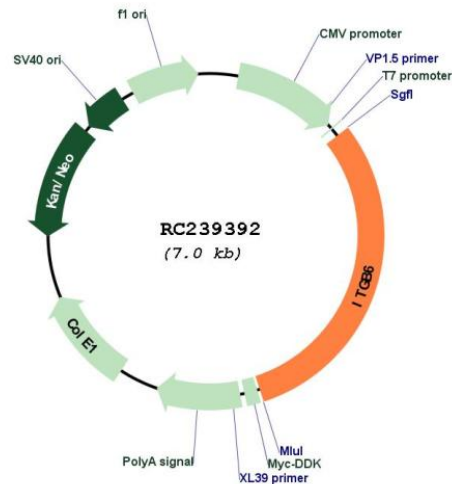
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_001282389

ORF Size: 2145 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_001282389.2](#)

RefSeq Size: 4520 bp

RefSeq ORF: 2148 bp

Locus ID:	3694
Cytogenetics:	2q24.2
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:	78.7 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]