

Product datasheet for **RC239465**

ITGB6 (NM_001282388) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ITGB6 (NM_001282388) 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:

>RC239465 representing NM_001282388
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATCACGTACAAGAATTTTACTCATCCATCTGGAGTTGGCGAAAGGTGTGATACCCAGCAAACCTTT
 TAGCTAAAGGATGTCAATTAACCTTCATCGAAAACCTGTCTCCAAGTAGAAATACTTAAAAAATAGCC
 TCTCAGTGTAGGCAGACAGAAAAATAGTTCTGACATTGTTGAGATTGCGCCTCAAAGCTTGATCCTTAAG
 TTGAGACCAGGTGGTGCAGACTCTGCAGGTGCATGTCCGCCAGACTGAGGACTACCCGGTGGATTGT
 ATTACCTCATGGACCTCTCCGCTCCATGGATGACGACCTCAACACAATAAAGGAGCTGGCTCCCGCT
 TTCCAAAGAGATGTCTAAATTAACCAGCACTTTAGACTGGGCTTCGGATCTTTTGTGAAAAACCTGTA
 TCCCTTTTGTGAAAAACAACACCAGAAGAAATGCCAACCTTGCAGTAGTATCCATACTTCTGTTTAC
 CTACATTTGGATTCAAGCACATTTTCCATTGACAAATGATGCTGAAAGATTCAATGAAATTGTGAAGAA
 TCAGAAAAATTTCTGCTAATATTGACACACCCGAAGGTGGATTTGATGCAATTATGCAAGCTGCTGTGTGT
 AAGGAAAAAATTGGCTGGCGGAATGACTCCCTCCACCTCTGGTCTTTGTGAGTGTGCTGATTCTCATT
 TTGGAATGGACAGCAAACCTAGCAGGCATCGTCATTCTAATGACGGGCTCTGTCACTTGGACAGCAAGAA
 TGAATACTCCAATGCACTGTCTTGAATATCCAACAATTGGACAACCTATTGATAAACTGGTACAAAAC
 AACGTGTTATTGATCTTCGCTGTAAACCAAGAACAAGTTCATTTATAGAGAATTACGAAAACTTATTC
 CTGGAGCTACAGTAGGTCTACTTCAGAAGGACTCCGGAACATTTCCAGCTGATCATCTCAGCTTATGA
 AGAACTGCGGTCTGAGGTGGAAGTATTAGGAGACTGAAGGACTCACTTGTCAATTTACAGCC
 ATCTGTAACAACGGTACCCTCTTCCAACACCAAAAGAAATGCTCTCACATGAAAGTGGGAGACACAGCTT
 CCTTCAGCGTGACTGTGAATATCCCACTGCGAGAGAAGAAGCAGGCACATTATCATAAAGCCTGTGGG
 GCTGGGGGATGCCCTGGAATTAATTGTCAGCCAGAATGCAACTGCGACTGTGAGAAAGAAGTGAAGTG
 AACAGCTCCAATGTACCACGGGAACGGCTCTTCCAGTGTGGGTGTGTGCCTGCCACCTGGCCACA
 TGGGGCTCGCTGTGAGTGTGGCGAGGACATGCTGAGCACAGATTCTGCAAGGAGGCCAGATCATCC
 CTCCTGCAGCGGAAGGGGTGACTGCTACTGTGGGCAGTGTATCTGCCACTTGTCTCCCTATGGAAACATT
 TATGGGCCTTATTGCCAGTGTGACAATTTCTCTGCGTGAGACACAAAGGGCTGCTGCGGAGGTAAAG
 GCGACTGTGACTGTGGTGAATGTGTGTGCAGGAGCGGCTGGACTGGCGAGTACTGCAACTGCACCACCAG
 CACGGACTCCTGCGTCTCTGAAGATGGAGTGTCTGCAGCGGGCGGGGACTGTGTTTGTGGCAAGTGT
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 CTAACCGGAGCTGCATTGAGTGCCACCTGTGAGCAGCTGGCCAAGCCGAGAAGAATGTGTGGACAAGTG
 CAACTAGCTGGTGCACCATCAGTGAAGAAGAAGATTTCTCAAAGGATGGTTCTGTTTCTGCTCTCTG
 CAAGGAGAAAAATGAATGTCTTATTACATTCCTAATAACTACAGATAATGAGGGGAAAACCATCATTACAC
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 GCCAAATTTGAAGCAGAACGATCAAAGCCAAGTGGCAAACGGGAACCAATCCACTCTACAGAGGATCCA
 CAAGTACTTTAAAAATGTAACCTATAAACACAGGGAAAAACAAAAGGTAGACCTTCCACAGATTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATGAGTTTAA

Protein Sequence: >RC239465 representing NM_001282388
 Red=Cloning site Green=Tags(s)

MITYKNFTHPSGVGERCDTPANLLAKGCQLNFIEPNVSQVEILKNKPLSVGRQKNSSDIVQIAPQSLILK
 LRPGGAQTLQVHVRQTEDYPVDLYLMDLSASMDDDLNTIKELGSRLSKEMSKLTSNFRLGFGSFVEKPV
 SPFVKTTPEEIANPCSSIPYFCLPTFFGFKHILPLTND AERFNEIVKNQKISANIDTPEGGFDAIMQA AVC
 KEKIGWRNDSLHLLV FVSDADSHFGMDSKLAGIVIPNDGLCHLDSKNEYSMSTVLEYPTIGQLIDKLVQN
 NVLLIFAVTQE QVHL YENYAKLIPGATVGLLQKDSGNILQLIISAYEELRSEVELEVLGDTEGLNLSFTA
 ICNNGTLFQH QKKCSHMKVGD TASFSVTVNI PHCERRSRHIIKPVGLGDALELLVSPECNDCQKEVEV
 NSSKCHHGNGSFQCGVCA CHPGHMGPRCEGEDMLSTDSCKEAPDHPSCSGRGDCYCGQCICHLSPYGN I
 YGPYCQDNFSCVRHKGLL CGNGDCDCGECVCRSGWTGEYCNC TSTDSVCVSEDGVLCSGRGDCVCGKC
 VCTNPGASGPTCERCPTCGDPCNSKRSCIECHLSAAGQAREECVDKCKLAGATISEEEDFSKDGVSVCSL
 QGENECLITFLITTDNEGKTI IHSINEKDCPKPNIPMIMLGVSLA ILLIGVVLLCIWKLLVSFHDRKEV
 AKFEAERSKAKWQTGTNPLYRGSTSTFKNVTYKHREKQKVDLSTDC

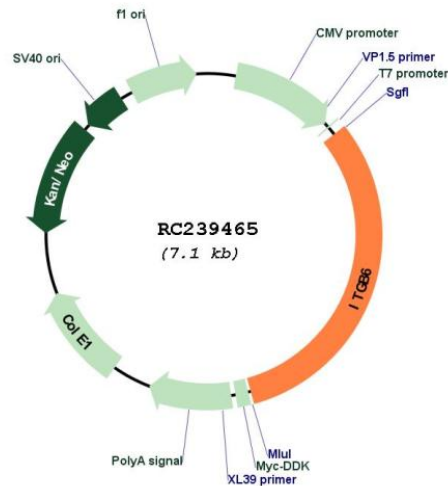
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001282388

ORF Size: 2238 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_001282388.2](#)

RefSeq Size: 4613 bp

RefSeq ORF: 2241 bp

Locus ID: 3694

UniProt ID:	<u>P18564</u>
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:	82 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]