

Product datasheet for **MC221695**

Itgb5 (NM_001145884) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgb5 (NM_001145884) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itgb5
Synonyms:	AA475909; AI874634; beta-5; beta5; ESTM23; [b]-5; [b]5; [b]5A; [b]5B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221695 representing NM_001145884
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCCGGGTGCCCGGACCCCTACGCCTGTCTGCTCGGGCTCTGCGCGCTCGTTCGCGCCTCGCAG
 GGCTCAACATATGCACTAGTGGAAGTGCCACCTCGTGTGAAGAATGCCTGTTGATCCACCCAAAATGTGC
 CTGGTGTCCAAAGAGTACTTTGGCAATCCACGGTCCATCACCTCTCGGTGTGACCTGAAGGCAAACCTC
 ATCCGGAATGGCTGTGAAGGTGAGATTGAGAGTCCAGCCAGCAGCACCCACGTCCTCCGGAACCTACCTC
 TCAGCAGCAAGGGTTCCAGTGCCACGGGCTCTGACGTCATCCAGATGACGCCGAGGAGATTGCAGTGAG
 CCTCCGGCCAGGCGAGCAGACTACGTTCCAGCTGCAGGTGCGCCAGGTGGAGGACTACCCTGTAGACCTG
 TACTACCTGATGGACCTCCTCTCCATGAAGGATGACTTGGAGAACATCCGGAGCCTGGGCACCAAGC
 TTGCGGAGGAAATGAGGAAGCTCACTAGTAACTCCGCTTAGGTTTCGGGTCTTTTGTGACAAGGACAT
 CTCTCCTTTCTCTACACGGCACCGAGATACCAGACCAATCCGTGATTGGTTACAAGTTATCCCAAC
 TGGCTCCCTCCTTCGGGTTCCGGCATCTGCTGCCTCTCACAGACAGAGTCGACAGCTTCAACGAGGAAAG
 TGAGGAAGCAGAGGGTGTCCCGAAACCGAGATGCCCCGAGGGGGGGTTTGTATGCCGTCTCCAGGCTGC
 TGTCTGCAAGGAGAAGATCGGATGGCGAAAAGATGCTCTGCACCTGCTGGTGTTCACAACAGACGATGTG
 CCCACATCGCACTGGATGGAAAACCTGGGTGGCCTGGTCCAGCCCCACGATGGCCAGTGTACCTGAATG
 AAGCCAATGAGTACACAGCCTCTAACAGATGGACTATCCATCGCTTGCCTTGTGGGGAGAAGCTGGC
 AGAGAACAATATCAACCTCATTTTTGCTGTGACGAAGAACCCTATATGCTCTACAAGAATTTTACAGCC
 CTGATACCTGGAACCACTGTGGAGATTTTGCATGGAGATTCAAAAATATTATTCAACTGATTATCAATG
 CGTACAGTAGCATCCGGGCTAAAGTGGAGCTGTCACTGTGGGATCAGCCAGAAGACCTTAATCTCTCTT
 CACTGCCACCTGCCAAGATGGCATATCTTACCCTGGTCAGAGGAAGTGTGAGGGTCTGAAGATTGGGGAC
 ACGGCATCCTTTGAAGTGTCCGTGGAGGCTCGGAGCTGCCCGGAGACAAGCAGCACAGCTTTTACCT
 TGAGGCCCGTGGGCTTCCGGGACAGTCTGCAGGTGGAAGTCGCCTACAATTGCACATGCGCTGTAGCAC
 GGGGCTGGAGCCCAACAGTGCCAGATGCAGTGGGAATGGAACATACACCTGTGGGCTGTGCGAGTGTGAC
 CCCGGCTACCTGGGCACTAGGTGCGAGTGCCAGGAGGGGAGAACCAGAGCGGGTACCAGAACCTGTGCC
 GGGAGGCAGAGGGCAAGCCTCTGTGCAGCGGGCTGGAGAGTGTAGCTGCAACCAGTGTCTCTGCTCGA
 GAGTGAGTTCGGGAGGATCTACGGACCTTCTGCGAGTGTGACAGCTTTTCTGTGCCAGAAACAAGGGC
 GTCTATGCTCAGGCCATGGAGAGTGTCACTGTGGAGAATGCAAATGCCACGCAGTTACATTGGGGACA
 ATTGTAACCTGCTCAACAGACGTCAGCACATGCAGGGCCAAGGATGGGCAGATCTGCAAGTACCGAGGCCG
 TTGTGTCTGTGGGCAAGTGCACAGACCTGGAGCCTTTGGGGAGACGTGTGAGAAGTGCCCAACC
 TGCCCGGATGCTTGCAGCTCTAAGAGAGACTGTGTGCAATGCTTGTACTTACCAGGGGAAACCTGACA
 ACCAGACCTGCCACCACAGTGCAAAGATGAGGTGATCACGTGGGTAGACACCATCGTCAAAGATGACCA
 GGAGGCTGTGCTTTGCTTCTACAAAACCTGCTAAGGACTGCGTTATGATGTTTACAGTACACAGAACTGCC
 AATGGGAGGTCCAACCTTGACGGTCTCCGGGAGCCAGAATGTGGAAGTGGCCCAATGCCATGACCATCC
 TGCTGGCTGTGGTTGGCAGCATCCTCCTGATTGGGATGGCACTCCTGGCCATCTGGAAGCTGCTCGTCAC
 CATCCACGACCGCCGAGAGTTTGGCAAGTTCCAAAGTGAAGGCTCCAGGGCCCGTTATGAAATGGCCTCA
 AACCCCTGTACAGAAAGCCATCTCCACACACTGTCGATTTGCGCTTCAACAAGTTCAACAAATCCT
 ACAATGGCTCAGTGGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001145884
Insert Size: 2400 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001145884.1](#), [NP_001139356.1](#)

RefSeq Size: 3304 bp

RefSeq ORF: 2400 bp

Locus ID: 16419

UniProt ID: [O70309](#)

Cytogenetics: 16 B3

Gene Summary: Integrin alpha-V/beta-5 (ITGAV:ITGB5) is a receptor for fibronectin. It recognizes the sequence R-G-D in its ligand.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (1) represents the predominant transcript, and encodes isoform 1.