

Product datasheet for **MC221469**

Itgb8 (NM_177290) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgb8 (NM_177290) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itgb8
Synonyms:	4832412O06Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221469 representing NM_177290
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGCGGCTCGGCCCTGGCTTTTCTGACTGCTGCACTGCTCTCTGCACAACCTGCCAGCGAGGTCCAG
 CCTTGGTTCTTGGGGCAGCCTGGGTATTTTCACTTGTTCTCGGACTGGGCCAAAGTGAACACAATAGATG
 TGGCTCTGCAAATGTGGTCTCCTGTGCCAGGTGCCTCCAGCTGGGTCCGGAATGCGGATGGTGTGTTCAA
 GAGGATTTTGTTCAGGTGGATCAGGAAGTGAACGTTGTGATACTGTTTCCAGTTTGATAAGCAAAGGCT
 GTCCAGTTGATTCAATAGAAATACCTGTCTGTGCATGTTGTAACGTCAAGTGAAGTGAATCAATACCCA
 GGTGACACCGGGAGAAGTCTCAGTCCAACCTGCATCCAGGAGCTGAAGCTAATTTTATGTTAAAAGTCCGT
 CCTCTGAAGAAATACCCCGTGGATCTTTATTATCTGGTTGATGTGCAGCATCAATGCACAATAATATAG
 AAAAATGAATTCGGTTGAAAATGATTTATCTAAAAAAATGGCCCTTTATTCCTGACTTCCGTCTTGG
 TTTTGGCTCATATGTGGATAAACTGTCTGCCATACATTAGTATCCACCCGAAAGGATCCACAATCAG
 TGCACTGACTACAATTTAGACTGTATGCCTCCCATGGATACATTCATGTGCTGTCTCTGACAGAAAACA
 TCACTGAGTTTGA AAAAGCAGTCCACAGACAAAAGATCTCTGAAAACATAGACACCCCTGAAGGAGGTTT
 TGATGCCATGCTT CAGGCTGCCGTCTGTGAGAGTCATATTGGATGGCGAAAAGAAGCTAAAAGATTGCTG
 CTGGTGATGACAGACCAGACATCACATCTTGTCTTGACAGCAAATGGCAGGCATAGTGGTGCCGAATG
 ACGGAACTGCCATCTCAAAAACAATGTCTACGTCAAATCGACAACCATGGAACATCCGTCATTAGGCCA
 ACTTTCTGAAAAGTTAATAGACAACAACATAAATGTCAATTTTGCAGTTCAAGGAAAGCAGTTTCATTGG
 TACAAGGACCTTCTGCCCTTTTGCCTGGTGCCATTGCTGGTGAATAGAATCCAAGCTGCAAAATCTCA
 ACAATTTAGTAGTAGAAGCCTACAAGAAGATTATCTCAGAAGTAAAAGTGCAGCTGGA AAAACAGGTACA
 CGGTGTCCATTTTAAACATCACTGCCATCTGTCCAGATGGGGCCAGAAAGCCAGGCATAAGTGGGTGTGGA
 AACGTGACAAGCAATGACGAAGTTCTTTTCAATGTAACCTGTTGTGATGAAAACATGTGATATCATGGGAG
 GAAAAAATATGCAATAATCAAGCCTATTGGTTTCAATGAAACCACTAAAAGTCCACATACACAGAAGCTG
 CAGTTGCCAGTGTGAGAACCACAGAGGACTCAAAGGACAGTGTGCGGAAGCTGCCCCAGACCCCAAGTGT
 CCACAGTGTGATGACAGCAGATGTCATTTTGTGAGAACAGTTCCTTCTGAAACTTGAAGCCACAGG
 AGGATCAACCTGTCTGCAGTGGCCGAGGTGTTTGCATCTGTGGGAAATGTTTATGTCACAAAACCAAGCT
 AGGAAGAGTGTATGGCCAGTACTGTGAGAAGGATGACTTCTCCTGTCCCTATCTCCATGGGGATGTGTGT
 GCTGGGCATGGGAGTGTGAAGGTGGCAGATGCCAGTGTCTTGTGGCTGGGAAGGAGATCGGTGTCAGT
 GCCCATCAGCCTCAGCACAGCACTGTGTCAACTCCAAGGGCCAAGTTTGCAGCGGAGAGGCACCTGCGT
 GTGTGGCAGGTGTGAGTGTACTGATCCCAGAAGCATTGGCCGTCTCTGTGAGCACTGCCAACCTGCCAT
 CTCTCCTGCAGTGA AAACTGGAATTGTCTGCAGTGCCTTACCCTCACAACTGTGCTCAGGCTGCCCTTG
 ATCAGTGTAAATCCTCCTGTGCTGTCAATGGAACAGCATCGCATGGACCAAAACATCAGAAATGTTTATCTGG
 CCCAAGCTATCTGCGAATATTTTTCATCATATTCATAGTCACATTCCTTGATCGGGTTGCTTAAAGTTCTT
 ATCATTAGACAAGTGATACTACAATGGAATAATAATAAAAATAAAGTCCTCATCAGATTATAGAATGTCTG
 CTTCTAAAAGGATAAACTGATTCTGCAAAGTGTTCACGAGAGCTGTAACCTACCGACGAGAAAAGCC
 TGAGGAAAATAAAAATGGATATCAGCAAACCTAAAATGCTCAGGAGGCCTTCAGGTGCAACTCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul
ACCN: NM_177290
Insert Size: 2304 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_177290.3](#), [NP_796264.2](#)

RefSeq Size: 3096 bp

RefSeq ORF: 2304 bp

Locus ID: 320910

UniProt ID: [Q0VBD0](#)

Cytogenetics: 12 F2

Gene Summary: Integrin alpha-V:beta-8 (ITGAV:ITGB8) is a receptor for fibronectin (By similarity). It recognizes the sequence R-G-D in its ligands (By similarity). Integrin alpha-V:beta-6 (ITGAV:ITGB6) mediates R-G-D-dependent release of transforming growth factor beta-1 (TGF-beta-1) from regulatory Latency-associated peptide (LAP), thereby playing a key role in TGF-beta-1 activation on the surface of activated regulatory T-cells (Tregs) (PubMed:25127859). Required during vasculogenesis (PubMed:12050137, PubMed:16251442).[UniProtKB/Swiss-Prot Function]