

Product datasheet for **MC221481**

Itgb2 (NM_008404) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgb2 (NM_008404) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itgb2
Synonyms:	2E6; AI528527; Cd18; LAD; LCAMB; Lfa1; MF17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NM_008404.4
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGGCCCACTCACTGCTGCTTGCCTAGCTGGACTGTTCTTCTGGGATCTGCTGTGCCAGG
 AATGCACCAAGTACAAAGTCAGCAGTTGCCGGGACTGTATCCAGTCGGGGCTGGCTGTTCTGGTGCCA
 GAAGCTGAACTTCACTGGACCAGGAGAACCTGACTCCTTGCGCTGTGACACACGGGCACAGCTGCTGCTG
 AAGGGTTGTCCAGCCGATGATATCATGGACCCAGGAGCATCGCTAATCCTGAGTTCGACCAACGGGGG
 AACGGAACAGCTATCTCCAAAAAGTGACACTTTACTTGCAGCAGGACAGGCTGCCGATTCAATGT
 GACTTCCGGCGGGCCAAGGGATACCCATTGATCTGTACTACCTCATGGATCTCTCTACTCCATGCTT
 GATGACCTCAACAACGTCAAGAAGCTGGGCGGGGACTTGTGCAGGCCCTCAACGAGATCACCGAGTCTG
 GCCGATCGGCTTTGGTCTGTTTGGACAAGACGGTGTGCCTTTTGTAAACCCCATCTGAGAAGCT
 GAGGAACCATGTCCCAACAAGGAGAAGGCTGCCAGCCCCATTGCTTTTCGGACGTGCTCAAGTTA
 ACCGACAACCTCAACAGTTTCAGACAGAGGTCGGCAAGCAACTGATTTCCGGAAACCTGGACGCCCTG
 AGGGTGGGCTGGATGCCATAATGCAAGTTGCTGCATGTCCGGAGGAAATTGGCTGGCGCAATGTCACGAG
 GCTGCTGGTGTGGCCACAGACGATGGCTTCCACTTTGCTGGTGTGGCAAACCTGGTGCCATCTGACC
 CCCAATGATGGCCGCTGCCACCTGGAGGATAACATGTACAAGAGGAGCAATGAGTTCGACTACCCATCCG
 TGGGTCAGCTGGCACACAACTTTCCGAGAGCAACATCCAGCCCATCTTTCGGGTGACAAAGAAGATGGT
 GAAAACGTATGAGAACTCACGGAGATCATCCCAAGTCAGCAGTGGGGAACTGTCTGACGACTCCAGC
 AACGTGGTGCAGCTCATCAAGAATGCCTACTATAAACTCTCTCTAGAGTCTTCTGGACCACAGACCC
 TCCCGGACACCCTGAAAGTCACCTATGACTCCTTCTGCAGTAATGGAGCATCGAGTATAGGCAAAATCCCG
 TGGGGACTGTGATGGCGTACAGATCAACAACCCGGTCACCTTCCAGGTAAGGTGATGGCTTCCGAGTGT
 ATCCAGGAGCAGTCTTTGTCATCCGGGCACTGGGTTTACGGATACAGTGACCGTGCAGGTCCGTCGCC
 AGTGTGAGTGTGAGTGCCGGGACAGAGTGGGAGCAGAGTCTGTGGAGGCAAGGGAGTCATGGAGTG
 TGGTATCTGCAGGTGTGAGTCTGGCTACATTGGGAAAACTGTGAGTGCCAGACTCAGGGTCGGAGCAGC
 CAGGAGCTGGAGAGAACTGTGGAAGGACAATAGTTCATCGTGTGCTCAGGGCTTGGGGACTGCATCT
 GTGGGCAGTGTGATGCCATACCAGTGACGTCCCAACAAGAGATCTTGGGCAACTGCGAGTGTGA
 CAATGTCAACTGTGAGAGATATAACAGCCAAGTCTGCGGTGGCTCAGATCGGGTTCCTGCAACTGTGGC
 AAATGTAGTTGCAAGCCCGTTACGAGGGCTCGGCCTGCCAGTGTGAGAGTCCACCACGGGCTGTCTGA
 ATGCACGGCTGGTAGAGTGCAGTGGCCGTGGCCACTGCCAATGCAACAGGTGCATATGTGACGAAGGCTA
 CCAGCCACCGATGTGTGAGGATTGTCCAGCTGTGGCTCGCACTGCAGGGACAACCACACCTCTGTGCC
 GAGTGCCTGAAGTTTGATAAGGGCCCTTTGAGAAGAACTGTAGTGTTCAGTGTGCTGGTATGACGCTGC
 AGACTATCCCTTTGAAGAAAAGCCCTGCAAGGAGAGGGACTCGGAAGGCTGTTGGATAACTTACACTTT
 GCAGCAGAAGGACGGAAGGAACATTTACAACATCCATGTGGAGGACAGTCTAGAGTGTGTGAAAGGGCCC
 AATGTGGCTGCCATCGTAGGGGGCACCGTGGTAGGTGTCGACTGATTGGTGTCTCTCTCTGGTGCATCT
 GGAAGGCCCTGACCCACCTGACTGACCTCAGGGAGTACAGGCGCTTTGAGAAGGAGAACTCAAGTCCCA
 ATGGAACAATGACAACCCCTCTTCAAGAGTGTACGACAACGGTCATGAACCCCAAGTTGCTGAAAGC
 TAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1516_b03.zip

Restriction Sites: SgfI-MluI

ACCN: NM_008404

Insert Size: 2313 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_008404.4 , NP_032430.2
RefSeq Size:	2862 bp
RefSeq ORF:	2313 bp
Locus ID:	16414
UniProt ID:	P11835
Cytogenetics:	10 39.72 cM
Gene Summary:	<p>Integrin ITGAL/ITGB2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. Integrin ITGAL/ITGB2 is also a receptor for the secreted form of ubiquitin-like protein ISG15; the interaction is mediated by ITGAL (By similarity). Integrins ITGAM/ITGB2 and ITGAX/ITGB2 are receptors for the iC3b fragment of the third complement component and for fibrinogen. Integrin ITGAX/ITGB2 recognizes the sequence G-P-R in fibrinogen alpha-chain. Integrin ITGAM/ITGB2 recognizes P1 and P2 peptides of fibrinogen gamma chain. Integrin ITGAM/ITGB2 is also a receptor for factor X. Integrin ITGAD/ITGB2 is a receptor for ICAM3 and VCAM1. Contributes to natural killer cell cytotoxicity (By similarity). Involved in leukocyte adhesion and transmigration of leukocytes including T-cells and neutrophils (By similarity). Triggers neutrophil transmigration during lung injury through PTK2B/PYK2-mediated activation (PubMed:18587400). Integrin ITGAL/ITGB2 in association with ICAM3, contributes to apoptotic neutrophil phagocytosis by macrophages (By similarity). In association with alpha subunit ITGAM/CD11b, required for CD177-PRTN3-mediated activation of TNF primed neutrophils (By similarity). Integrin ITGAM/ITGB2 plays a critical role in mast cell development and in immune complex-mediated glomerulonephritis. Mice expressing a null mutation of the ITGAM subunit gene demonstrate increase in neutrophil accumulation, in response to a impaired degranulation and phagocytosis, events that apparently accelerate apoptosis in neutrophils. These mice develop obesity.[UniProtKB/Swiss-Prot Function]</p>