

Product datasheet for **MR226636**

Itgb2 (NM_008404) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itgb2 (NM_008404) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR226636 representing NM_008404
 Red=Cloning site Blue=ORF Green=Tags(s)

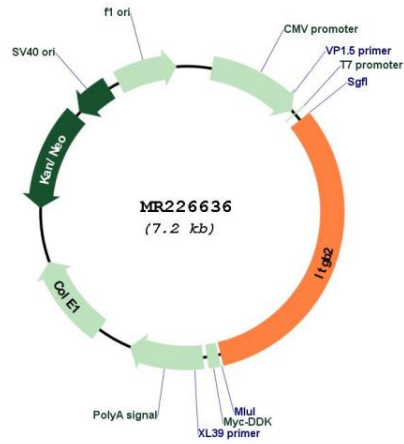
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGGCCCACTCACTGCTGCTTGCCTAGCTGGACTGTTCTTCTGGGATCTGCTGTGCCAGG
 AATGCACCAAGTACAAAGTCAGCAGTTGCCGGGACTGTATCCAGTCGGGGCTGGCTGTTCTGGTGCCA
 GAAGCTGAACTTCACTGGACCAGGAGAACCTGACTCCTTGCGCTGTGACACACGGGCACAGCTGCTGCTG
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 AACGGAACAGCTATCTCCAAAAAGTGACACTTTACTTGCAGCAGGACAGGCTGCCGATTCAATGT
 GACTTTCCGGCGGGCCAAGGGATACCCATTGATCTGTACTACCTCATGGATCTCTCTACTCCATGCTT
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 CCCAATGATGGCCGCTGCCACCTGGAGGATAACATGTACAAGAGGAGCAATGAGTTCGACTACCCATCCG
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 TGGTATCTGCAGGTGTGAGTCTGGCTACATTGGGAAAACTGTGAGTGCCAGACTCAGGGTCCGAGCAGC
 CAGGAGCTGGAGAGAACTGTCGGAAGGACAATAGTTCATCGTGTGCTCAGGGCTTGGGGACTGCATCT
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 ATGCACGGCTGGTAGAGTGCAGTGGCCGTGGCCACTGCCAATGCAACAGGTGCATATGTGACGAAGGCTA
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 GAGTGCCTGAAGTTTGATAAGGGCCCTTTGAGAAGAACTGTAGTGTTCAGTGTGCTGGTATGACGCTGC
 AGACTATCCCTTTGAAGAAAAGCCCTGCAAGGAGAGGGACTCGGAAGGCTGTTGGATAACTTACACTTT
 GCAGCAGAAGGACGGAAGGAACATTTACAACATCCATGTGGAGGACAGTCTAGAGTGTGTGAAGGGCCCC
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 GGAAGGCCCTGACCCACCTGACTGACCTCAGGGAGTACAGGCGCTTTGAGAAGGAGAACTCAAGTCCCA
 ATGGAACAATGACAACCCCTCTTCAAGAGTGTACGACAACGGTTCATGAACCCCAAGTTTGTGAAAGC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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_008404.5
RefSeq Size:	2862 bp
RefSeq ORF:	2313 bp
Locus ID:	16414
UniProt ID:	P11835
Cytogenetics:	10 39.72 cM
MW:	85.3 kDa
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>

Product images:



Circular map for MR226636