

Product datasheet for MR222526

Itga2b (NM_010575) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itga2b (NM_010575) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Itga2b
Synonyms:	A1172977; alpha11b; CD41; CD41B; Gp11b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222526 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGAGCCTCCTGCGCATGGCATTCCCTGTGGCTTCTGCAGTGGACACCACTGTTCTTGGTCCTA
GTGCTGTTCCAGTCTGGGCCTTGAACCTGGACTCTGAGAAGTTCTCCGTCTATGCAGGTCCCAATGG
CAGCCACTTTGGCTTCTCAGTGGACTTTCATAAGGACAAACATGGAAGCGTGTCCATCGTGGTGGGCGCC
CCCAGGGCCCTAAACGCAAGTCAAGAGGAGACTGGAGCCGATTCTGTGCCCTGGAAGCCAATGGTG
GCAAGTGAACCCGTTGCTCTTCGACCTCAGGGATGAGACACGAAACCTAGGCTTCCAAATTTCCAAAC
CTCAAGACCGGGCAAGGACTTGGGGCGTCGGTGTGAGTGAATGACGTATTGTGGCCTGTGCCCC
TGGCAGCACTGGAATGTCTGAAAAGCGCGATGAGGCAGAGAAGACTCCGGTAGGAGGCTGCTTCTTGG
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AGAGAGTTTTCGCGGAGACAAGCGATACTGTGAAGCAGGCTTCAGCTTGGCGGTGACCCAGGCTGGGGAG
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TCTCCAGTACCGCCCGGTACCCTTTGTGGCATGTTTCCAACCAGCGTTCACCTACGACAACAGCAA
CCCAGTGTTTTCGATGGTTACCGGGATATTCGGTAGCCGTGGCGAGTTTGATGGGGATCCGAGCACT
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CGTCAACGGGACGGGAGGCATGACCTACTGGTGGGGCTCCATTGTATATGGAGAGCAGGGCAGACCGC
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CTCTCCTGCTGACTGGCACCCAGCTCTATGGGAGATTTGGATCTGCCATTGCACCCCTGGGTGACCTCAA
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ATGTTCAAGACTCCCTGAATCCAACACTGAAGAAGTGTGTCCTGGATCAGACCAAGACACCAGTCAGCT
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 GCTGCAGCTGGACTTACAGAAGCCCCGTAGGGCCGCCGGTGTCTCTGCTGGCATCCCAACAGGCGAGC
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 TGTACGGTGGTGGAGTGTGAGCTGCGGGAGATGGTGCAGGGCAGCGGGCCATGGTTACTGTGACAGTCA
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 CGTCTCCTCCCTACCTTACTCGGTGCCGGTGGTGTGAGTGTGCCAGTGGCAAGCTCGGGTGCAGACACAG
 CTGCTTCGGCCCTGGAGGAGAGGGCCATTCTGTCTGGTGGTGTGCTGGTGGCGTGTGGGCGGTCTGC
 TGCTGTGACCCCTGCTAGTTTTGGCCATGTGGAAGGCTGGCTTCTCAAGCGGAATCGACCGCTCTGGA
 GAAGATGAAGAGGAAGAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222526 protein sequence
 Red=Cloning site Green=Tags(s)

MARASCAWHSLLWLLQWTPLFLGPSAVPPVWALNLDSEKFSVYAGPNGSHFGFSVDFHKDKHGSVSIIVGA
 PRALNASQEETGAVFLCPWKANGGKCNPLLFDLRDETRNLGFQIFQTFKQGLGASVVSWNDVIVACAP
 WQHWNVLEKRDEAEKTPVGGCFLAQLQSGGRAEYSPCRANTMSSVYAESFRGDKRYCEAGFSLAVTQAGE
 LVLGAPGGYFFLGLLARVPIENISSYRPGTLLWHVSNQRFTYDNSNPVFFDGYRGYSVAVGEFDGDPST
 TEYVSGAPTWSWTLGAVEILDSYYQPLHRLHGEQMASYFGHSVAVTDVNGDGRHDLVGAPLYMESRADR
 KLAEVGRVYFLQPKGPQALSTPTLLL TGTQLYGRFGSAIAPLGDNRDGYNDIAVAAPYGGPSGGQVQL
 IFLQSEGLSPRPSQVLDSPFPSTGSGFGSLRGAVDIDDNGYPDLIVGAYGASKVAVYRAQPVVMTVQL
 MVQDSLNP TLKNCVLDQTKTPVSCFNIMCVGATGHNIPQKLHLKAEQLDLQKPRQGRVLLLASQQAS
 LTLSLDLGGRDKPICHHTGAFRLDEADFRDKLSPIVLSLVSLPPEETGGAPAVVHLHGETHVQEQTRIIL
 DCGEDDLVCPQLRLTATAGDSPLLI GADNVLELKI EAANDGEGAYEAELAVHLPPGAHYMRALSNIEGFE
 RLVCTQK KENESRVALCELGNPMKDKTRIGITMLVSVENLEEAGESVSFQLQVRSKNSQNPNKVVMLPV
 AIQAEATVELRGNSFPASLVVAAEEGDREQEDLDRWVSRL EHTYELHNI GPVTNGLRLLIHIPGQSQPS
 DLLYILDVQPQGLLCSTQPSPKVDWKLSTPSPSSIRPVHHQRERRQAF LQGPKGQQDPVLVSCDGSAS
 CTVVECELREMYRQRAMVTQVMLGLSSLRQRPQEQFVLQSHAWFNVS SLPYSVPVVS LPSGQARVQTQ
 LLRALEERAIPVWVVLVGVLG LLLLLLTLVLAMWKAGFFKRNRP LEEDEEEEE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_010575

ORF Size: 3102 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_010575.2](#), [NP_034705.2](#)

RefSeq Size: 3437 bp

RefSeq ORF: 3102 bp

Locus ID: 16399

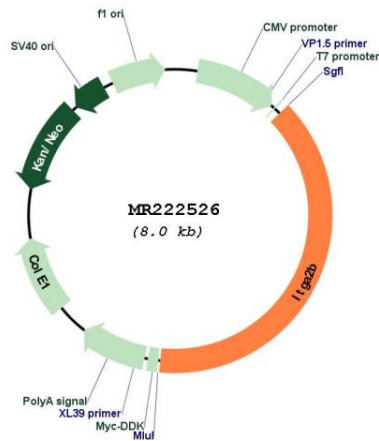
UniProt ID: Q9QUM0

Cytogenetics: 11 66.29 cM

MW: 112.7 kDa

Gene Summary: Integrin alpha-IIb/beta-3 is a receptor for fibronectin, fibrinogen, plasminogen, prothrombin, thrombospondin and vitronectin. It recognizes the sequence R-G-D in a wide array of ligands. It recognizes the sequence H-H-L-G-G-G-A-K-Q-A-G-D-V in fibrinogen gamma chain. Following activation integrin alpha-IIb/beta-3 brings about platelet/platelet interaction through binding of soluble fibrinogen. This step leads to rapid platelet aggregation which physically plugs ruptured endothelial cell surface.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222526