

Product datasheet for **MG222526**

Itga2b (NM_010575) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Itga2b (NM_010575) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Itga2b
Synonyms: A1172977; alpha11b; CD41; CD41B; Gp11b
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222526 representing NM_010575
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGAGCCTCCTGCGCATGGCATTCCCTGTGGCTTCTGCAGTGGACACCACTGTTCTTGGTCCTA
GTGCTGTTCTCCAGTCTGGGCCTTGAACCTGGACTCTGAGAAGTTCTCCGTCTATGCAGGTCCCAATGG
CAGCCACTTTGGCTTCTCAGTGGACTTTCATAAGGACAAACATGGAAGCGTGTCCATCGTGGTGGGCGCC
CCCAGGGCCCTAAACGCAAGTCAAGAGGAGACTGGAGCCGATTCTGTGCCCTGGAAGCCAATGGTG
GCAAGTGAACCCGTTGCTCTTCGACCTCAGGGATGAGACACGAAACCTAGGCTTCCAAATTTCCAAAC
CTCAAGACCGGGCAAGGACTTGGGGCGTCGGTGTGACCTGGAATGACGTATTGTGGCCTGTGCCCC
TGGCAGCACTGGAATGTCTGAAAAGCGCGATGAGGCAGAGAAGACTCCGGTAGGAGGCTGCTTCTTGG
CTCAGCTCCAAAGCGGGGCGCGCAGAGTACTCGCCCTGTGCGCCAACACCATGAGCTCCGTTTACGC
AGAGAGTTTTCGCGGAGACAAGCGATACTGTGAAGCAGGCTTCAGCTTGGCGGTGACCCAGGCTGGGGAG
CTAGTGCTTGGAGCCCTGGAGGCTACTTTTTTTAGGTCTCTGGCTCGCGTCCAATTGAGAATCA
TCTCCAGTACCGCCCGGTACCCTTTGTGGCATGTTTCCAACCAGCGCTTACCTACGACAACAGCAA
CCCAGTGTTTTTCGATGGTTACCGGGATATTCGGTAGCCGTGGCGAGTTTGATGGGGATCCGAGCACT
ACAGGTACGTATCGGGTGCCCACTTGGAGCTGGACCTTGGGAGCGGTGAAAATTTGGACTCCTACT
ACCAGCCCTGCACCGGCTTCATGGAGAACAGATGGCTTCATATTTCCGGCACTCGGTGGCAGTCACTGA
CGTCAACGGGACGGGAGGCATGACCTACTGGTGGGGCTCCATTGTATATGGAGAGCAGGGCAGACCCG
AAGCTGGCCGAGGTGGGCCGCTTATTTGTTTCTGCAGCCTAAGGGCCCCCAAGCTCTGAGCACACCCA
CTCTCCTGCTGACTGGCACCCAGCTCTATGGGAGATTTGGATCTGCCATTGCACCCTGGGTGACCTCAA
CCGAGACGGCTATAATGATATTGCTGTGGCTGCCCTATGGGGTCCCAGTGGTCAGGGCCAAGTGCTG
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GCTCTGGCTTGGCTTCCCTTCGTGGTGTGTAGACATCGATGACAATGGATACCCAGACCTGATTGT
GGGAGCATATGGAGCTAGCAAGGTGGCTGTGTACAGAGCTCAGCTGTGGTGTATGCCACTGTCCAAGT



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ATGTTCAAGACTCCCTGAATCCAACACTGAAGAAGTGTGTCCTGGATCAGACCAAGACACCAGTCAGCT
 GCTTCAACATCCAGATGTGTGTGGGAGCCACAGGACACAACATTCCTCAGAAGCTGCATCTAAAGGCAGA
 GCTGCAGCTGGACTTACAGAAGCCCCGTAGGGCCGCCGGTGTCTCTGCTGGCATCCCAACAGGCGAGC
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 ATGAGGCCGACTCCGGGACAAGCTGAGCCAAATTGTGCTAAGCCTCAACGTGTCGCTGCCCCAGAAGA
 GACTGGAGGACCCCTGCCGTGGTATTGCATGGAGAAACCCATGTCCAGGAGCAGACACGGATCATCCTG
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 AGGCTTGTCTGCACTCAGAAGAAAGAGAATGAGTCCAGGGTGGCCCTCTGTGAGCTGGGCAACCCCATGA
 AAAAGGACACCCGGATAGGAATCACAATGCTGGTGTGAGTGTGGAGAACCTGGAAGAAGCTGGCAGTCCGT
 GTCCTTCCAGCTGCAGGTGAGGACAAGAACAGCCAGAATCCAAACAGTAAGGTCGTGATGTTGCCTGTG
 GCAATCCAAGCTAAGCCACAGTGGAGCTTCGAGGGAATTCCTTCCCTGCCTCCCTGGTGGTGGCAGCAG
 AAGAAGGTGACAGGGAGCAGGAAGACTTGACAGATGGGTCTCCAGGCTGGAGCACCTATGAGCTCCA
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 GATCTGCTCTACATCCTGGATGTGACGCCGAGGGAGGTCTCCTTTGCTCCACACAGCCATCTCCAAGG
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 GGCATTCTGCAGGGGCCAAGCCAGGGCAGCAGGACCCAGTTCTGGTGTGAGTGCAGCGCTCAGCGTCC
 TGTACGGTGGTGGAGTGTGAGCTGCGGGAGATGGTGCAGGGCAGCGGGCCATGGTTACTGTGACAGTCA
 TGCTGGGGCTGTCCAGCCTCCGCCAGAGGCCGAGGAGCAGTTTGTGCTGCAGTCGACCGCTGGTTCAA
 CGTCTCCTCCCTACCTTACTCGGTGCCGGTGGTGTGAGTGGCCAGTGGGCAAGCTCGGGTGCAGACACAG
 CTGCTTCCGGCCCTGGAGGAGAGGGCCATTCTGTCTGGTGGTGTGCTGGTGGGCGTGTGGGCGGTCTGC
 TGCTGTGACCCCTGCTAGTTTTGGCCATGTGGAAGGCTGGCTTCTCAAGCGGAATCGACCGCCTCTGGA
 GAAGATGAAGAGGAAGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222526 representing NM_010575
 Red=Cloning site Green=Tags(s)

MARASCAWHSLLWLTPLFLGPSAVPPVWALNLDSEKFSVYAGPNGSHFGFSVDFHKDKHGSVSIIVGA
 PRALNASQEETGAVFLCPWKANGKCNPLLLFDLRDETRNLGFQIFQTFKQGLGASVVSWVDVIVACAP
 WQHWNVLEKRDEAEKTPVGGCFLAQLQSGGRAEYSPCRANTMSSVYAESFRGDKRYCEAGFSLAVTQAGE
 LVLGAPGGYFFLGLLARVPIENI ISSYRPGTLLWHVSNQRFTYDNSNPVFFDGYRGYSVAVGEFDGDPST
 TEYVSGAPTWSWTLGAVEILDSYYQPLHRLHGEQMASYFGHSVAVTDVNGDGRHDLVGAPLYMESRADR
 KLAEVGRVYFLQPKGPQALSTPTLLL TGTQLYGRFGSAIAPLGDNLNRDGYNDIAVAAPYGGPSQGQVL
 IFLQSEGLSPRPSQVLDSPFP TGSFGFSLRGAVDIDDNGYPDLIVGAYGASKVAVYRAQPVVMTVQL
 MVQDSLNP TLKNCVLDQTKTPVSCFN IQMCVGATGHNIPQKLHLKAEQLDLQKPRQRRVLLLASQQAS
 LTLSLDLGGRDKP ICHTTGAFLRDEADFRDKLSPIVLSLNVSLPPEETGGAPAVVLHGETHVQEETRIIL
 DCGEDDL CVPQLRLTATAGDSPLLI GADNVLELKIEAANDGEGAYEAELAVHLPPGAHYMRALSNIEGFE
 RLVCTQKKENESRVALCELGNPMKKDTRIGITMLVSVENLEEAGESVSFQLQVRSKNSQNPNSKVMLPV
 AIQAEATVELRGNSFPASLVVAAEEGDREQEDLDRWVSRLEHTYELHNI GPVTNGLRLLIHIPGQSQPS
 DLLYILDVQPQGGLLCSTQPSPKVDWKLSTPSPSSIRPVHHQRERRQAF LQGPKPGQDPVLVSCDGSAS
 CTVVECELREMVGRQRAMVTQVMLGLSSLRQRPQEQLVLSHAWFNVS SLPYSVPVVS LPSGQARVQTQ
 LLRALEERAIPVWWWLVGVLGGLLLL TLLV LAMWKAGFFKRNRPPEEDEEEEE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	<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:	<u>NM_010575.2</u> , <u>NP_034705.2</u>
RefSeq Size:	3437 bp
RefSeq ORF:	3102 bp
Locus ID:	16399
UniProt ID:	<u>Q9QUM0</u>
Cytogenetics:	11 66.29 cM
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-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]