

Product datasheet for **MC223813**

Itga2 (NM_008396) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itga2 (NM_008396) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itga2
Synonyms:	CD49B; DX5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223813 representing NM_008396 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGGACCGGGACAGGCAGGGGGCGCGCTCCTGCTGCGGCTGCTAATGCTAGTTC AAGGTATTTGAATT
GTCTGGCGTATAATGTTGGCCTCCAGGAGCGAAAATATTTCCGGCCCTCAAGTGAACAGTTTGGGTA
TTCAGTACAGCAGCTTACGAACCCACAAGGCAACTGGCTACTGGTTGGTTCACCGTGGAGTGGCTCCCT
GAGAACCGAATGGGAGATGTGTACAAGTGCCCTGTGGACCTACCCACTGCCACCTGTGAAAAGCTGAATC
TGCAAAATTCAGCAAGCATCTCAAATGTTACCGAGATAAAGACCAACATGAGCCTGGGATTGACCCTCAC
CAGGAATCCGGGGACCGGAGGCTTTCTAACCTGTGGTCTCTCTGGGCACATCAGTGTGGAAATCAGTAT
TATGCAACTGGGATCTGTTCTGATGTTAGTCCAGACTTTCAGTTCCTTGACCAGCTTTTCACTGCAGTTC
AGGCTTGGCCCTCCCTCGTGGATGTTGTAGTGTATGTGATGAATCAAACAGTATTTATCCTTGGGAAGC
AGTAAAGAACTTTTTGGTAAAGTTTGTGACAGGCCTGGATATAGGACCTAAAAAGACACAGGTGGCGTTA
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AGACTACGCTTATTCACAGACTTCTGGCGGGCGCCGGGTGCTACAAAAGTCATGGTAGTTGTGACCCGAT
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TCGGCATAGCAGTTCCTGGGATTTAAACAGAAATGCTCTTGATACTAAAAATTTAATCAAAGAAATAAA
AGCAATTGCTAGTACTCCAACCGAGAGATACTTTTCAATGTGGCCGACGAAGCGGCTCTTCTGGAGAAG
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AAATGGCACAAGTTGGATTCAGTGCAGATTACGCTCCTCAAATGATATCTGATGTTAGGTGCAGTGGG
GGCTTTTGACTGGAGTGGAACTCTGTCCAGGAGACATCTCACAAGCCCGTGATCTTCTAAACAAGCC
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TAACAAGCAAGGCAATGTGACCGTGATTCACTCTCACAGAGGGGACCAGATTGGCTCCTATTTTGGCAGT
GTGCTGTGCTCAGTTGATGTAGATAAAGACACCATTACAGACGTGCTCCTGGTAGGTGCTCCTACATACA



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TGAACGACCTCAAGAAAGAAGAGGGAAAAGTCTACCTATTTACCATCACAAAGGGCATCTTGAATCAGCA
 CCAGTTTCTTGAAGGGCCAGAAGGCACTGGAAATGCTCGGTTTGGTTTCAGCAATTGCAGCCCTGTGAGAC
 ATCAACATGGATGGCTTTAATGATGTGATTGTCGGTTCACCTGTAGAGAAATGAGAAGCTCTGGAGCTGTGT
 ACATTTACAATGGTCACCAAGGTACCATTTCGCACCAAGTACTCCCAGAAAATCCTTGGGTCCAATGGAGC
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 CTTCAGAGCAGAGTTTAGACCTGCTGGGCAAAACAATCAAGTAGCCATCCTGTTTAAACATGACGCTTGAT
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 AGAATATGGTGGTAAACGAAGTGCAGAAGTGTCTGAGCACCACATTAGCATACAGAAGCCCTCTGATGT
 TGTCAACCCTTTGGATCTGCGTGTGGACATCAGTTTGGAAAACCCAGGCACTAGCCCTGCCCTCGAAGCC
 TATTCTGAAACTGTCAAAGTCTTCAGTATCCCTTTCTATAAGGAGTGTGGCAGCGATGGAATTTGCATCT
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 CAAGAGGTTAACATTTTCAGTCATCCTGAAAAACAGAGGGGAAAGTGCATACAACACTGTGGTCTGGCC
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 TTTTACCATTAACCTTCGACTTTAATCTTCAAACCTCCAGAACCAGGCGGCCATCAATTTCCAAGCCTTC
 AGTGAGAGCCAAGAAAACAAAGCAGACAATTCGGTCAAGTCTCACGATTCTCTCTCTGTATGATGCCG
 AACTTCACTTAACCCGATCCACCAACATCAACTTCTATGAGATCTCTTCGGATGAGAACGCTCCTTCTGT
 CATCAAGAGTGTGGAAGATATTGGTCTAAATTCATCTTCCCTCAAGGTAACAGCCGGAAGTGCCCA
 GTGAGCATGGCATTGGTGACTATCCACATTCTCAGTACACCAAGGAAAAGAACCCTCCTGTATCTGA
 CTGGGATACAAACAGACCAGGCTGGCGACATCAGCTGCACAGCAGAAAATAATCCACTCAAGCTACCACA
 CACCGCCCTTCTGTATCTTTCAAGAATGAAAACCTCCGGCATACGAAAGAATTGGACTGCAGAACCCT
 TCCTGCAGTAACATCACCTGCTGGCTGAAAGACCTTCACATGAAAGCAGAGTACTTCATCAATGTGACAA
 CCAGAGTTTGAACAGGACCTTTGCTGCTTCGACTTTCCAGACTGTGCAGCTGACAGCAGCGGCAGAGAT
 CGATACACATAACCCTCAGCTCTTCGTGATTGAGGAAAATGCTGTACGATTCCCCTCATGATAATGAAA
 CCCACGGAGAAAGCAGAAGTACCAGCAGGGTTATCATAGGCAGCATAATTGCGGGAATCCTTTTGTGT
 TGGCTATGACTGCAGGTTTGTGGAAGCTCGGCTTCTTCAAAGACAATATAAGAAAATGGGCCAAAATCC
 AGATGAGATGGATGAGACCACAGAACTCAACAGCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_008396
- Insert Size:** 3537 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:

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_008396.2](#), [NP_032422.2](#)

RefSeq Size: 4235 bp

RefSeq ORF: 3537 bp

Locus ID: 16398

UniProt ID: [Q62469](#)

Cytogenetics: 13 64.61 cM

Gene Summary: Integrin alpha-2/beta-1 is a collagen receptor, being responsible for adhesion of platelets and other cells to collagens, modulation of collagen and collagenase gene expression, force generation and organization of newly synthesized extracellular matrix. It is also a receptor for laminins, collagen C-propeptides and E-cadherin. Mice homozygous for a null mutation in the alpha-2 die very early in embryogenesis.[UniProtKB/Swiss-Prot Function]