

Product datasheet for **MC223864**

Itga1 (NM_001033228) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Itga1 (NM_001033228) Mouse Untagged Clone
Tag: Tag Free
Symbol: Itga1
Synonyms: CD49A; E130012M19Rik; Vla1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223864 representing NM_001033228
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCCCCAGGCGTCTGCTAGCCTAGAGGTCAGTGTAGCCTGCATCTGGCTTCTCACCGTTATCCTAG
 GCGTCTGCATCTCCTTCAACGTTGATGTCAAAAACCTCCATGAGCTTCAGTGGTCCAGTGGAGGACATGTT
 TGGATACACCGTTCAACAGTATGAAAACGAAGAAGGCAAATGGGTCTTATTGGTTCTCCTTTAGTTGGC
 CAACCCAAAGCAAGAAGTGGAGATGTCTATAAGTGTCCAGTTGGGAGAGAGAGATCAATGCCTTGTGTGA
 AGTTGGATTTACCAAGTTAACACATCGATTCCCTAATGTCACAGAAAATAAGGAAAAACATGACATTTGGATC
 AACTTTAGTCACCAATCCGAAGGGAGGATTTCTGGCATGTGGGCCCTTGTATGCCTATAGATGTGGACAT
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 AAGTGTCACTGCCTTTTTAAACGACCTTCTTAAGAGGATGGACATTGGCCCCAACAGACACAGGTTGGA
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 AGCCTATGACTGGAACGGAAGTGGTTCATGCAGAAGGCTAACCCAGATTGTCATCCCTCATAACACCACC
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 CAAGATGGAGGATGGGGACGTCAACATTCTGCAGACACTCAGTGGAGAGCAGATCGGATCCACTTTGGT
 AGCGTCTTAACCACAATTGACATCGACAAGATTCTTACTGATCTGCTTCTCGTGGGGCTCCCATGT



ATATGGGGACAGAGAAAGAGGAACAGGGCAAGGTGTACGTGTACGCTGTGAATCAGACGAGGTTTGAATA
 TCAAAATGAGCCTGGAACCAATTAAGCAGACCTGCTGTTTCCCTGAAGGATAATTCATGCACAAAAGAA
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 CAGTGGCAAGACCATAAGGAAAGAGTATGCGCAACGCATCCCTCAGGTGGGGATGGGAAGACGCTGAAA
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 CAACAAAGTGAATATTCAAAAGAAAACTGCCGTGTGGAGGGCAAAGAAACAGTATGCATAAATGCTACA
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 CCCTTGATTTCGCTGAGGCAGATATCACGGAGCTTTTTTTCTGGAACCTCAGGAAAGGAGGATTCAAAGAAA
 CCTCACCGTTCGAGAATCCGAATGCATCAGGCACTCCTTCTACATGTTGGATAAGCACGACTTTCAGGAC
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 CAAACTCAGTCCATGGACATATTCCTTTTGCCAAAGACTGTGGGAACAAGGAAAGATGCGTTTCAGACCT
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 AGCCTCACCGTCAAAAACAAGGGAGACAGTGCCTACAACACCCGGACAGTGGTTCAGTATTCCTCAAATC
 TGATTTTTTTCAGGAATTGAGGAGATCCAAAAGATAGCTGCGAATCCAATCAAAAATACAGTGTAGAGT
 TGGATATCCTTTCTGAGGACAGGAGACGTGGTAACTTCAAAAATATATTCAGTTTAAATACATACAT
 CTCTCAGAAAATGCAATTATTCATTTAAGTGCAACAAGTGACAGTGAAGAGCCCCGGAATCCTTTTACG
 ATAATGAAGTAAATATTTCCATCCCCGTAATAATGAAGTCGGACTGCAGTTTTACAGTTCTGCGAGTGA
 ACACCACATTTTCAGTTGCTGCCAATGAGACTGTTCTGAGCTGATTAATCCACCAAGGACATTGGGGAT
 GAAATTAATGTCTTCTACACGATTAGAAAAGAGGGCATTTCCTCAATGCCAGAACTTCGGCTGGCAATTT
 CATTTCCCAATCTGACGTCAGATGGCTATCCTGTACTGTACCCAAGTGGTATGTTCTGATAATGT
 AAAGTGCAGACCTCGAAGCCTTGAGGACCCTTTGGGTATCAACTCTGGGAAGAAAATGACAAATCAAAG
 TCTGAGGTTCTCAAAGAGGGCACAAATCCAGGACTGCAGTACCTGCAAGATTGCTACCATCAGGTGCATC
 TCCTTCCCTCGGATGTGAGTCAAGTGAATGTCTCACTCATCTTGTGGAAACCAACTTTCATAAAAAGCACA
 TTTTTCCAGCTTAAATCTTACCATACGGGGAGAACTTCAGAGTGAAGAACTCATCGCTGACTTTAAGCAGC
 AGCAACCGGAAACGAGAGCTGGCTATTCAGATATCCAAAGACGGGCTCCCAGGCCGAGTGCCGCTGTGGG
 TTATCCTCCTGAGCGCTTTGCGGGACTCCTGCTGTTAATGCTGCTTATATTAGCTCTGTGGAAGATTGG
 ATTCTTCAAAGGCCACTAAAGAAGAAAATGGAGAAATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001033228
- Insert Size:** 3540 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_001033228.3](#), [NP_001028400.2](#)

RefSeq Size: 5984 bp

RefSeq ORF: 3540 bp

Locus ID: 109700

UniProt ID: [Q3V3R4](#)

Cytogenetics: 13 64.61 cM

Gene Summary: Integrin alpha-1/beta-1 is a receptor for laminin and collagen. It recognizes the proline-hydroxylated sequence G-F-P-G-E-R in collagen. Involved in anchorage-dependent, negative regulation of EGF-stimulated cell growth.[UniProtKB/Swiss-Prot Function]