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Product datasheet for MC223447

Itga6 (NM_008397) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itga6 (NM_008397) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Itga6
Synonyms:	5033401O05Rik; AI115430; Cd49f; VLA-6
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC223447 representing NM_008397
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGTCGCGGGCCAGTTGTGCCTGCTCTACCTGTCCGCGGGGCTTCTAGCCCGGCTGGGTACAGCCT
TCAACCTGGACACCCGCGAGGACAACGTGATCCGGAAATCGGGGGATCCCGGGAGCCTCTTCGGCTTCTC
GCTCGCCATGCACTGGCAGTTGCAGCCGGAGGACAAGCGGCTGTTGCTTGTGGGGGCACCTCGGGCAGAA
GCACTCCCGCTGCAGAGGGCGAACAGAACAGGGGGCCTGTACAGCTGTGACATCACCTCCCGGGGACCTT
GTACACGGATTGAATTTGATAATGACGCTGATCCTATGTCAGAAAGCAAGGAAGACCAGTGGATGGGAGT
CACTGTTCAGAGCCAAGGTCCAGGGGGCAAAGTGGTGACGTGTGCACATCGATATGAGAAACGGCAGCAC
GTCAACACGAAGCAGGAGTCGCGGGATATCTTTGGAAGATGTTATGTCCTAAGTCAGAATCTCAGAATTG
AAGATGATATGGACGGAGGAGACTGGAGTTTCTGCGATGGCCGGTTGAGAGGCCATGAAAAGTTTGGCTC
CTGTCAGCAAGGAGTAGCGGCTACTTTCACTAAGGACTTTCATTACATTGTTTTTGGAGCCCCAGGGACT
TACAACTGGAAAGGGATCGTCCGTGTAGAACAAAAGAATAACACTTTTTTTGACATGAACATCTTTGAAG
ATGGGCCCTATGAAGTTGGTGGAGAGACTGATCATGATGAAAGTCTCGTGCCCGTTCCTGCTAACAGTTA
CCTAGGCTTTTCACTGGACTCAGGGAAGGGTATTGTTTCTAAAGATGACATCACTTTTGTGTCTGGTGCT
CCAAGAGCCAATCACAGTGGGGCTGTAGTTTTGCTAAAAAGAGACATGAAGTCCGCGCATCTGCTCCCTG
AGTATATATTTGACGGAGAAGGCCTGGCTTCCTCGTTTGGCTATGATGTGGCAGTGGTGGACCTCAATGC
AGATGGGTGGCAAGACATTGTTATCGGAGCTCCACAGTATTTTGATAGGGATGGTGAAGTCGGGGGTGCA
GTTTACGTCTACATTAACCAGCAAGGCAAATGGAGTAATGTGAAGCCGATTCGTCTAAATGGGACCAAAG
ACTCGATGTTTGGAATCTCTGTGAAAAATATAGGTGATATTAACCAAGATGGCTATCCAGATATTGCTGT
TGGAGCTCCCTATGATGATCTGGGGAAGGTTTTTATCTATCATGGATCCCCGACTGGCATAATTACCAAG
CCAACACAGGTTCTCGAGGGGACATCGCCTTACTTCGGCTATTCAATCGCTGGGAATATGGACCTGGATC
GGAATTCCTACCCCGACCTTGCTGTGGGCTCCCTCTCAGACTCGGTCACTATTTTCAGATCCCGGCCAGT
GATTAACATTCTAAAAACCATCACAGTGACTCCTAACAGAATTGACCTCCGCCAGAAGTCCATGTGTGGC
TCACCTAGCGGGATATGCCTCAAGGTTAAAGCCTGTTTTGAATATACTGCGAAACCTTCCGGTTATAACC

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CTCCAATATCAATTTTGGGTATTCTCGAAGCTGAAAAAGAAAGAAGAAAGTCAGGGTTGTCATCGAGAGT
TCAGTTTCGAAACCAAGGTTCCGAGCCAAAGTATACTCAGGAGCTGACCCTGAATCGGCAGAAGCAGCGG
GCGTGCATGGAGGAGACCCTCTGGCTGCAGGAGAACATCAGAGACAAGCTGCGTCCCATCCCCATCACGG
CTTCTGTGGAGATCCAGGAGCCCAGCTCTCGCCGGCGGGTGAACTCACTCCCCGAAGTTCTTCCCATCCT
GAATTCAAATGAAGCCAAAACGGTCCAGACAGATGTCCACTTCTTAAAGGAAGGATGTGGAGACGACAAT
GTCTGTAACAGCAACCTTAAGCTAGAGTATAAATTTGGTACCCGAGAAGGAAATCAAGACAAATTCTCTT
ACCTTCCAATTCAAAAAGGCATCCCAGAATTAGTCCTAAAAGATCAGAAAGATATAGCTCTGGAAATAAC
GGTGACCAACAGCCCTTCGGATCCAAGGAATCCCCGGAAAGATGGCGACGATGCCCATGAAGCCAAACTC
ATCGCCACGTTTCCAGACACTCTGACATATTCCGCTTACAGAGAACTGAGGGCTTTCCCTGAGAAGCAGC
TGAGCTGTGTGGCCAACCAGAATGGCTCCCAAGCCGACTGTGAGCTCGGAAATCCTTTCAAGAGAAATTC
CAGTGTTACTTTCTATCTGATTTTAAGTACAACCGAGGTCACCTTTGACACCACAGATCTGGATATTAAT
CTGAAGTTGGAAACAACAAGCAATCAGGATAATTTGGCTCCAATTACAGCGAAGGCAAAAGTGGTTATTG
AATTGCTTTTATCGGTCTCCGGAGTCGCTAAGCCTTCGCAGGTGTATTTTGGAGGTACAGTTGTTGGTGA
GCAAGCTATGAAATCTGAAGATGAAGTAGGAAGTTTAATAGAGTATGAATTTAGGGTGATTAACTTAGGC
AAGCCTCTTAAAAACCTCGGCACAGCAACCTTGAATATACAGTGGCCCAAGGAGATTAGCAATGGCAAAT
GGTTGCTTTATTTGATGAAAGTTGAATCCAAAGGTTTGGAGCAGATTGTTTGTGAGCCACACAATGAAAT
AAACTACCTGAAGCTGAAGGAGTCTCACAACTCAAGAAAGAAACGGGAACTTCCTGAAAAACAGATAGAT
GACAGCAGGAAATTTTCTTTATTTCCTGAAAGAAAATACCAGACTCTCAACTGCAGCGTCAACGTGAGGT
GTGTGAACATCAGGTGCCCACTGCGAGGGCTGGACAGCAAGGCCTCTCTCGTTCTTCGTTCCAGGTTGTG
GAACAGCACATTTCTAGAGGAATATTCCAAACTGAACTACTTGGACATTCTCCTGAGGGCTTCCATAGAT
GTCACCGCTGCTGCTCAGAATATCAAGCTCCCTCACGCGGGCACTCAGGTTCGAGTGACGGTGTTTCCCT
CAAAGACTGTAGCTCAGTATTCAGGAGTAGCTTGGTGGATCATCCTCCTGGCTGTTCTTGCCGGGATTCT
GATGCTGGCTCTATTAGTGTTTTTACTGTGGAAGTGTGGCTTCTTCAAGAGAAATAAGAAAGATCATTAC
GATGCCACCTATCACAAGGCTGAGATCCATACTCAGCCGTCTGATAAAGAGAGGCTTACTTCCGATGCAT
AG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_008397

Insert Size: 3222 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_008397.4, NP_032423.2

RefSeq Size:	6018 bp
RefSeq ORF:	3222 bp
Locus ID:	16403
Cytogenetics:	2 42.79 cM
Gene Summary:	This gene encodes a protein that is a member of the integrin superfamily. Integrins are transmembrane receptors involved cell adhesion and signaling, and they are subdivided based on the heterodimer formation of alpha and beta chains. This protein has been shown to heterodimerize with beta 4 to bind laminin and to form the main component of hemidesmosomes, which mediate attachment of epithelia to basement membranes. In mouse, deficiency of this gene is associated with absence of hemidesmosomes, severe skin blistering, and early post-natal death. In humans mutations of this gene are associated with epidermolysis bullosa. Alternative splicing results in multiple transcript variants that encode different protein isoforms. [provided by RefSeq, May 2013] Transcript Variant: This variant (1) represents the longer transcript and encodes the shorter isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.