

Product datasheet for MC229362

Itga6 (NM_001277970) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Itga6 (NM_001277970) 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:	>MC229362 representing NM_001277970 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGTCGCGGGCCAGTTGTGCCTGCTCTACCTGTCCGCGGGGCTTCTAGCCCGGCTGGGTACAGCCT
TCAACCTGGACACCCGCGAGGACAACGTGATCCGGAAATCGGGGATCCCGGAGCCTCTTCGGCTTCTC
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GCACTCCCGCTGCAGAGGGCGAACAAGAAGGGGGCCTGTACAGCTGTGACATCACTCCCGGGACCTT
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CACTGTTCAAGCAAGGTCCAGGGGGCAAAGTGGTACGCTGTGCACATCGATAGAGAAACGGCAGCAC
GTCAACACGAAGCAGGAGTCCGGGATATCTTTGGAAGATGTTATGTCCTAAGTCAGAATCTCAGAATTG
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GATTAACATTCTAAAAACCATCACAGTACTCCTAACAGAATTGACCTCCGCCAGAGTCCATGTGTGGC
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CTCCAATATCAATTTTGGGTATTCTCGAAGCTGAAAAAGAAAGAAGAAAGTCAGGGTTGTCATCGAGAGT
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CAAAGACTGTAGCTCAGTATTCAGGAGTAGCTTGGTGGATCATCTCTGGCTGTTCTTGCCGGGATTCT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001277970
- Insert Size:** 3276 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001277970.1](#), [NP_001264899.1](#)

RefSeq Size: 5888 bp

RefSeq ORF: 3276 bp

Locus ID: 16403

UniProt ID: [Q61739](#)

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 (2) lacks an alternate penultimate exon, compared to variant 1, resulting in a novel 3' coding region and shorter 3' UTR. It encodes isoform 2 which has a distinct C-terminus, compared to 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.