

## Product datasheet for **SC315867**

### Integrin alpha 6 (ITGA6) (NM\_001079818) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin alpha 6 (ITGA6) (NM_001079818) Human Untagged Clone
Tag:	Tag Free
Symbol:	Integrin alpha 6
Synonyms:	CD49f; ITGA6B; VLA-6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_001079818 edited  
 ATGGCCGCGCCGGGCGAGCTGTGCTTGTCTACCTGTGCGGGGGCTCCTGTCCCGGCTC  
 GGCGCAGCCTTCAACTTGGACACTCGGGAGGACAACGTGATCCGGAATATGGAGACCC  
 GGGAGCCTCTTCGGCTTCTCGCTGGCCATGCACTGGCAACTGCAGCCCGAGGACAAGCGG  
 CTGTTGCTCGTGGGGGCCCGCGGGCAGAAGCGCTTCCACTGCAGAGAGCCAACAGAACG  
 GGAGGGCTGTACAGCTGCGACATCACCGCCCGGGGCCATGCACGCGGATCGAGTTTGT  
 AACGATGCTGACCCACGTGAGAAAGCAAGGAAGATCAGTGGATGGGGGTACCGTCCAG  
 AGCCAAGTCCAGGGGCAAGGTCGTGACATGTGCTCACCGATATGAAAAAGGCAGCAT  
 GTTAATACGAAGCAGGAATCCCGAGACATCTTTGGCGGTGTTATGTCCTGAGTCAGAAT  
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 GGCCATGAGAAATTTGGCTCTTGCCAGCAAGGTGTAGCAGCTACTTTACTAAAGACTTT  
 CATTACATTGATTTGGAGCCCCGGTACTTATAACTGGAAGGGATTGTTTCGTGTAGAG  
 CAAAAGAATAACACTTTTTTTGACATGAACATCTTTGAAGATGGGCCATTGAAGTTGGT  
 GGAGAGACTGAGCATGATGAAAGTCTCGTTCCTGTTTCTGCTAACAGTTACTTAGGTTTT  
 TCTTTGGACTCAGGAAAGGTATTGTTTCTAAAGATGAGATCACTTTTGTATCTGGTGCT  
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 CCAACACAGGTTCTCAAGGTATATCACCTATTTTGGATATTCAATTGCTGGAACATG  
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 ATTGACCTCCGCCAGAAAACAGCGTGTGGGGCGCCTAGTGGGATATGCCTCCAGGTTAA  
 TCCTGTTTTGAATATACTGCTAACCCGCTGGTTATAATCCTTCAATATCAATTGTGGCC



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ACACTTGAAGCTGAAAAAGAAAGAAGAAAATCTGGGCTATCCTCAAGAGTTCAGTTTCGA
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AAAGAAGAGCGAGAGATCAAAGATGAAAAGTATATTGATAACCTTGAACAAAACAGTGG
ATCACAAGTGGAACGAAAATGAAAGCTACTCATAG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_001079818
- Insert Size:** 5500 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:** This clone has been fully sequenced and found to be a perfect match to the protein associated with this reference, NM\_001079818.1
- 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\\_001079818.1](#), [NP\\_001073286.1](#)

**RefSeq Size:** 5680 bp

**RefSeq ORF:** 3276 bp

**Locus ID:** 3655

**UniProt ID:** [P23229](#)

**Cytogenetics:** 2q31.1

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

**Protein Pathways:** Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cell adhesion molecules (CAMs), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), Pathways in cancer, Regulation of actin cytoskeleton, Small cell lung cancer

**Gene Summary:** The gene encodes a member of the integrin alpha chain family of proteins. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain that function in cell surface adhesion and signaling. The encoded preproprotein is proteolytically processed to generate light and heavy chains that comprise the alpha 6 subunit. This subunit may associate with a beta 1 or beta 4 subunit to form an integrin that interacts with extracellular matrix proteins including members of the laminin family. The alpha 6 beta 4 integrin may promote tumorigenesis, while the alpha 6 beta 1 integrin may negatively regulate erbB2/HER2 signaling. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]  
Transcript Variant: This variant (1) represents the shorter transcript and encodes the longer isoform (a).