

Product datasheet for **SC120055**

Integrin alpha 6 (ITGA6) (NM_000210) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin alpha 6 (ITGA6) (NM_000210) 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_000210 edited
 GGGCGGCCCGCAATTCGGCACCAGGGCCGCTGCAGTCCCGCTCCCGTGCCT
 CCGCCCATGGCCGCCCGGGCAGCTGTGCTTGTCTACCTGTGCGCGGGGCTCCTGTCC
 CGGCTCGGCGCAGCCTTCAACTTGGACTCGGGAGGACAACGTGATCCGGAAATATGGA
 GACCCCGGGAGCCTCTTGGCTTCTCGCTGGCCATGCACTGGCAACTGCAGCCCGAGGAC
 AAGCGGCTGTTGCTCGTGGGGGCCCGCGGGCAGAAGCGCTTCCACTGCAGAGAGCCAAC
 AGAACGGGAGGGCTGTACAGCTGCGACATCACCGCCCGGGGGCCATGCACGCGGATCGAG
 TTTGATAACGATGCTGACCCACGTGAGAAAGCAAGGAAGATCAGTGGATGGGGTCAAC
 GTCCAGAGCCAAGGTCCAGGGGGCAAGGTCGTGACATGTGCTCACCGATATGAAAAAGG
 CAGCATGTTAATACGAAGCAGGAATCCCGAGACATCTTTGGCGGTGTTATGTCCTGAGT
 CAGAATCTCAGGATTGAAGACGATATGGATGGGGGAGATTGGAGCTTTTGTGATGGCGA
 TTGAGAGGCCATGAGAAATTTGGCTCTTGCCAGCAAGGTGTAGCAGCTACTTTACTAAA
 GACTTTCATTACATTGTATTTGGAGCCCGGGTACTTATAACTGGAAGGGATTGTTGCT
 GTAGAGCAAAAAGAATAACACTTTTTTTGACATGAACATCTTTGAAGATGGGCCTTATGAA
 GTTGGTGGAGAGACTGAGCATGATGAAAGTCTCGTTTCTGTTCTGCTAACAGTACTTA
 GGTTTTTCTTTGGACTCAGGGAAAGGATTTGTTTCTAAAGATGAGATCACTTTTGTATCT
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 GATGTGGCGGTGGTGGACCTCAACAAGGATGGTGGCAAGATATAGTTATTGGAGCCCA
 CAGTATTTTGTAGAGATGGAGAAGTTGGAGGTGCAAGTGTATGTCTACATGAACCAGCAA
 GGCAGATGGAATAATGTGAAGCCAATTCGTCTTAAATGGAACCAAGATTCTATGTTTGGC
 ATTGCAGTAAAAAATATTGGAGATATTAATCAAGATGGCTACCCAGATATTGCAGTTGGA
 GCTCCGTATGATGACTTGGGAAAGGTTTTATCTATCATGGATCTGCAAATGGAATAAAT
 ACCAAACCAACACAGGTTCTCAAGGTATATCACCTATTTTGGATATTCAATTGCTGGA
 AACATGGACCTTGATCGAAATTCCTACCCTGATGTTGCTGTTGGTCCCTCTCAGATTCA
 GTAACATTTTTCAGATCCCGCCTGTGATTAATATTCAGAAAACCATCACAGTAACTCCT
 AACAGAATTGACCTCCGCCAGAAAACAGCGTGTGGGGCGCCTAGTGGGATATGCCTCCAG



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GTAAATCCTGTTTTGAATATACTGCTAACCCCGCTGGTTATAATCCTTCAATATCAATT
 GTGGGCACACTTGAAGCTGAAAAAGAAAGAAAATCTGGGCTATCCTCAAGAGTTCAG
 TTTCGAAACCAAGTTCTGAGCCCAAATATACTCAAGAACTAAGTCTGAAGAGGCAGAAA
 CAGAAAGTGTGCATGGAGGAAACCTGTGGCTACAGGATAATATCAGAGATAAATGCGT
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 TGCCCGCTGCGGGGGCTGGACAGCAAGGCGTCTTTATTTTGGCGTCAAGGTTATGGAAC
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 TGTGGTTTCTTCAAGAGAAAATAAGAAAGATCATTATGATGCCACATATCACAAGGCTGAG
 ATCCATGCTCAGCCATCTGATAAAGAGAGGCTTACTTCTGATGCATAGTATTGATCTACT
 TCTGTAATGTGTGGATTCTTTAAACGCTCTAGGTACGATGACAGTGTTCCTCCGATACCA
 TGCTGTAAGGATCCGAAAGAAGAGCGAGAGATCAAAGATGAAAAGTATATTGATAACCT
 TGAATAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000210 unedited
 TGTGCGAATTTTGAATACGACTCACTATAGGGCGGCCCGCGATTCCGGCACCAGGCCGCT
 GCAGGTCCCGCTCCCCTCCCCTGCGTCCGCCATGGCCGCCCGGGCAGCTGTGCTT
 GCTCTACCTGTCCTCGGGCTCCTGTCCCGCTCGGCGCAGCCTTCAACTTGGACTC
 GGGAGGACAACGTGATCCGGAATATGGAGACCCCGGAGCCTTTCGGCTTCTCGTGG
 CCATGCACTGGCAACTGCAGCCCGAGGACAAGCGGCTGTTGCTCGTGGGGCCCCGCGG
 CAGAAGCGCTTCCACTGCAGAGACCAACAGAACGGGAGGGCTGTACAGCTGCGACTA
 CCGCCCGGGGCTCATGCACGCGGATCGAGTTTGATAACGATGCTGACCCACGTGAGAA
 AGCAAGGAAGATCAGTGGATGGGGTACCGTCCAGAGCCAAGGTCCAGGGGCAAGGTC
 GTGACATGTGCTACCGATATGAAAAAGGCAGCATGTTAATACGAAGCAGGAATCCCGA
 GACATCTTTGGGCGGTGTATGCTCTGAGTCAAGTCTCAGGATTGAAGACGATATGGAT
 GGGGAGATTGGAGCTTTTGTGATGGGCGATTGAGAGGCCATGAGAAAATTTGGCTTTGC
 CAGCAAGGTGTAACAGCTACTTTTACTAAAGACTTTTATTACATTGATTTTGGAGCCCCG
 GTACTTACTACTGAAAAGGGATGTTCTGTAGAGCACAAGAATACCACTTTTTTGCATG
 AACATCTTTTGGATGGGCTTATGAATTTGGTGGAGAGACTGAGCATGATGAAAGTCTC
 GGTCTGTTCTGCTAACAGTACTTAGGTTTTCTTGCCTCAGGCAAGGCATTGTTTCT
 AAAGATGAGACACCTTTTGAATCTGGGGCTCCCAGAACCATCCAGTGCAGC

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000210 unedited</p> <pre> NAACCCCGGGAANAAACCCCAACCATCCCCAAAATNNTTGACTGTGCNCNCCGGCCC GCTATTCTNANGATCGNGTTTTTTTTTTTTTTTTTTAACTTTTATAAAAAATTATTCA CACTTTTATACAAATATCCACAGGTAATTTCTAATCATGAAATAATTTACAATGCTAGT TAGTACAAAAATGTATCAAATGCAAACAGACCAGTGACTTGACTTGAGATGACATTTTA ACAACCATAAATCTAAACACCATAACATCTTTGTTTCTTTGTTGAACCACCCTCCAACA CCCTTTTCAGGACATTCATCTTTTTTTTTTAGCAACACAGGTCTAAAAACACTGTCAAAGTA TCCAGTTCCTTACCAATCTACTAATCTACACCACATTAGGGACACAAGCTCCCCCATCAA GAAACTGACACTTCAAACACTGTTATAAECTGTTTTACCGCACCTCTCGCAAACCATCTA CCTTTCCGACTAATACTTCTACCCTTCTACCCAAACACTCCCTTTGCTTCTTACCCTGCT TTTCATTCCCCGAAATTATAAACCCCTTCTCACTTACCCTTGCTCTCTTCCGCTCC CCTCCCTTCCCATGTTCTCCCCACGTCCTCACCACACCAATTATTCCCCCATTATT TCGCCCTTCCCCCACTCCCCCCCCCTTCCCCCCTTCCCTCACCCCCCCCCC CCTTTTCTCCTATTTTCCCAATTTCCCTCCCTTCCCTATTTTTCCCCCTCCCTTCCCTC CGCTTCCCTTCCCGATTCCCTCTTCGTCTCCATCCCTCACCTCTACCACCTTCTCCA CCACCCCTCGCTCTTACCCACCTATCTTCCCTCCCTCCCCCTCCTCCCTTCTC CTCCCCCTCCCCCTCCCTCCTCCCTATTTCCCTTCCCTTTTTTTCCCTTCTCCTT CGCCCTCCTT </pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_000210
Insert Size:	4730 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:	<ol style="list-style-type: none"> 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:	<u>NM_000210.1</u> , <u>NP_000201.1</u>
RefSeq Size:	5611 bp
RefSeq ORF:	3222 bp
Locus ID:	3655
UniProt ID:	<u>P23229</u>
Cytogenetics:	2q31.1
Domains:	FG-GAP

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:	<p>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]</p> <p>Transcript Variant: This variant (2) contains an alternate coding exon compared to variant 1, which results in a frameshift. The resulting isoform (b) is shorter and has a distinct C-terminus compared to isoform a.</p>