

Product datasheet for **SC119589**

Integrin beta 7 (ITGB7) (NM_000889) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin beta 7 (ITGB7) (NM_000889) Human Untagged Clone
Tag:	Tag Free
Symbol:	Integrin beta 7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_000889 edited
 GAATTCGGCACGAGGCAGAGGAAGGACTGCTCTGCACGCACCTATGTGGAACTAAAGCC
 CAGAGAGAAAGTCTGACTTGCCACAGCCAGTGAGTGACTGCAGCAGCACCAGAATCTG
 GTCTGTTTCTGTTTGGCTCTTACCCTACGGCTTGGGATCTCGGGCATGGTGGCTTT
 GCCAATGGTCCTGTTTTGCTGCTGGTCTGAGCAGAGGTGAGAGTGAATTGGACGCCAA
 GATCCCATCCACAGGGGATGCCACAGAATGGCGGAATCCTCACCTGTCCATGCTGGGGTC
 TGCCAGCCAGCCCCCTCCTGCCAGAAGTGCATCCTCTCACACCCAGCTGTGCATGGTG
 CAAGCAACTGAACCTTACCGCGTCGGGAGAGCGGAGGCCGCGGCCCTGCGCCCGACGAGA
 GGAGCTGCTGGCTCGAGGCTGCCCGCTGGAGGAGCTGGAGGAGCCCCGCGCCAGCAGGA
 GGTGCTGCAGGACCAGCCGCTCAGCCAGGGCGCCCGGAGAGGGTGCCACCCAGCTGGC
 GCCGACGCGGGTCCGGTACGCTGCGGCTGGGGAGCCCCAGCAGCTCCAGGTCGGCTT
 CCTTCGTGCTGAGGGATACCCGGTGGACCTGTACTACCTATGGACTGAGCTACTCCAT
 GAAGGACGACCTGGAACGCTGCGCCAGCTCGGGCAGCTCTGCTGGTCCGGCTGCAGGA
 AGTCACCCATTCTGTGCGCATTGGTTTTGGTTCCTTTGTGGACAAAACGGTGTGCCCTT
 TGTGAGCACAGTACCCTCAAAGTGCGCCACCCCTGCCACCCCGCTGGAGCGTGCCA
 GTCACCATTACAGCTTTCACCATGTGCTGTCCCTGACGGGGGACGACAAGCCTTCGAGCG
 GGAGGTGGGGCGCCAGAGTGTGTCCGGCAATCTGGACTCGCTGAAGGTGGCTTCGATGC
 CATTCTGCAGGCTGCACTCTGCCAGGAGCAGATTGGCTGGAGAAATGTGTCCCGGCTGCT
 GGTGTTCACTTCAGACGACACATTCCATACAGCTGGGGACGGGAAGTTGGGCGCATTTT
 CATGCCAGTGATGGGCACTGCCACTTGGACAGCAATGGCCTCTACAGTCGCAGCACAGA
 GTTTGACTACCCTTCTGTGGTCAAGTAGCCAGGCCCTCTCTGCAGCAAATATCCAGCC
 CATCTTTGCTGTACCAAGTCCGCACTGCCTGTCTACCAGGAGCTGAGTAAACTGATTCC
 TAAGTGCAGTTGGGGAGCTGAGTGAGGACTCCAGCAACGTGGTACAGCTCATCATGGA
 TGCTTATAATAGCCTGTCTCCACCGTGACCCTTGAACACTCTTACTCCCTCCTGGGGT
 CCACATTTCTTACGAATCCCAAGTGTGAGGGTCTGAGAAGAGGGAGGGTAAGGCTGAGGA
 TCGAGGACAGTGAACCCAGTCCGAATCAACCAGACGGTGACTTTCTGGGTTTCTCTCCA
 AGCCACCCACTGCCTCCCAGAGCCCCATCTCTGAGGCTCCGGGCCCTTGGCTTCTCAGA
 GGAGCTGATTGTGGAGTTGCACACGCTGTGTGACTGTAATTGCAGTGACACCCAGCCCCA
 GGCTCCCCACTGCAGTGATGGCCAGGGACACCTACAATGGTGTATGCAGCTGTCCCC
 TGGCCGCTAGGTCGGCTCTGTGAGTGTCTGTGGCAGAGCTGTCTCCCAGACCTGGA
 ATCTGGGTGCCGGCTCCAATGGCACAGGGCCCTGTGCAGTGGAAAGGGTCACTGTCA
 ATGTGGACGCTGCAGCTGCAAGTGGACAGAGCTCTGGGCATCTGTGCGAGTGTGACGATGC
 CAGCTGTGAGCGACATGAGGGCATCCTCTGCGGAGGCTTTGGTCGCTGCCAATGTGGAGT
 ATGTCACTGTGATGCCAACCCGACGGGCAGAGCATGCGAATGCAGTGGGGACATGGACAG
 TTGCATCAGTCCCAGGGAGGGCTCTGCAGTGGGCATGGACGCTGCAAATGCAACCGCTG
 CCAGTGTCTGGACGGCTACTATGGTGTCTATGCGACCAATGCCAGGCTGCAAGACACC
 ATGCGAGAGACACCGGGACTGTGCAGAGTGTGGGGCTTACAGGACTGGCCACTGGCCAC
 CAACTGCAGTACAGCTTGTGCCATACCAATGTGACCTGGCCTTGGCCCTATCTTGA
 TGATGGCTGGTGCAAAGAGCGGACCCTGGACAACCAGCTGTTCTTCTTCTTGGTGGAGGA
 TGACGCCAGAGGCACGGTCGTGCTCAGAGTGAGACCCCAAGAAAAGGGAGCAGACCACAC
 GCAGGCCATTGTGCTGGGCTGCGTAGGGGGCATCGTGGCAGTGGGGCTGGGGCTGGTCTT
 GGCTTACCGGCTCTCGGTGGAATCTATGACCGCCGGAATACAGTCGCTTTGAGAAGGA
 GCAGCAACAACCTCAACTGGAAGCAGGACAGTAATCCTCTCTACAAAAGTGCCATCACGAC
 CACCATCAATCCTCGTTTCAAGAGGCAGACAGTCCCCTCTCTGAAGGAGGGAGGGACA
 CTTACCCAAGGCTCTTCTCCTTGGAGGACAGTGGGAACTGGAGGGTGAAGGAAGGGTGG
 GTCTGTAAGACCTTGGTAGGGACTAATCACTGGCGAGGTGCGGCCACCACCCTACTTC
 ATTTTCAGAGTGACACCCAAGAGGGCTGCTTCCATGCCTGCAACCTTGATCCATCTGG
 GCTACCCACCCAAGTATACAATAAAGTCTTACCTCAGAAAAAAAAAAAAAAAAAAAAAA
 CTCGAC

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_000889 unedited ATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGCAGAGGAAGGACTGCTCTGC ACGCACCTATGTGGAACTAAAGCCCAGAGAGAAAGTCTGACTTGCCCCACAGCCAGTGA GTGACTGCAGCAGCACCAGAATCTGGTCTGTTTCTGTTTGGCTCTTCTACCACTACGGC TTGGGATCTCGGGCATGGTGGCTTTGCCAATGGTCCTTGTGTTTGTGCTGGTCTGAGCA GAGGTGAGAGTGAATTGGACGCCAAGATCCCATCCACAGGGGATGCCACAGAATGGCGGA ATCCTCACCTGTCCATGCTGGGGTCTGCCAGCCAGCCCCCTCCTGCCAGAAGTGCATCC TCTCACACCCCAGCTGTGCATGGTGAAGCAACTGAACTTCACCCGCTCGGGAGAGGCGG AGGCGCGGCGCTGCGCCCCGACGAGAGGAGCTGCTGGCTCGAGGCTGCCCGCTGGAGGAGC TGGAGGAGCCCCGCGCCAGCAGGAGGTGCTGCAGGACCAGCCGCTCAGCCAGGGCGCCC GCGGAGAGGGTGCCACCCAGCTGGCGCCGACGCGGTCCGGGTACGCTGCGGCTGGGG AGCCCCAGCAGCTCCAGGTCCGCTTCTTCGTGCTGAGGGATACCCGGTGGACCTGTA ACTTATGGACCTGAGCTACTCCATGAAGGACGACCTGNAACGCGTGCAGCCAGCTCGGGC ACGCTCTGCTGGTCCGGTGCANGAAGTACCCATTCTGTGCGCATTGGGTTNTGGTTCC TTTGTGGGACAAACGGTCTGNCCTTTGTGAGCACAGTACCCTTCAACTGCGCCACCCTG CCCANCCGGCTGAGCGCTGCCGTACATTCAAGTTCCCATGTGCTGTCCCTGACGGGGA CGCACAGCTTCAACGGGGAGGTGGGCCCNAAATGTGTCCGCATCTGACTNCCCTGAANG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_000889 unedited CGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTCTGAGGTAAGACTTTA TTGTATACTTGGTGGGGTAGCCAGATGGATGCAAGGTTGCAGGCATGGGAAGCAGCCC TCTTGGGTGCTACTCTGAAAATGAAGTAGGGTGGTGGCCGACCTCGCCAGTGAATTAGT CCCTACCAAGGTCTTACAGACCCACCCTTCTCTCACCTCCAGTTCCTACTGTCTCC AAGGAGAAGAGCCTTGGGTAAGTGTCCCTCCCTCCTTCAGAGAGTGGGACTGTCTGCCTC TTGAAAGCGAGGATTGATGGTGGTCTGATGGCACTTTTGTAGAGAGGATTAAGTCTCTG CTTCCAGTTGAGTTGTTGCTGCTCCTTCTCAAAGCGACTGATTTCCCGGCGGTATAGAT TTCCACCGAGAGCCGGTAAGCCAGGACCAGCCCCAGCCCCACTGCCACGATGCCCCCTAC GCAGCCCAGCACAAATGGCCTGCGTGTGGTCTGCTCCCTTTCTTGGGGTCTCACTCTGAG CAGGACCGTGCCTCTGGCGTCACTCCACCAAGAAGAAGAAGCAGCTGGTTGTCCAGGGT CCGCTCTTTGACCAGCCATCATCCAAGATAGGGGCCAAGGCCAGGGTACATTGGTATG GGCACAAGCTGTACTGCATTTGTTGGCCAGTGGGCCAGTCTTGAGGCCCCCACTCTGCA CAGTTCCTGCTCTCTCGCATGGTGTGTTTGCACCCTGCGCCTTGTTCGCATAAAGACCA TATTACCCGTTCAAGCACTCGCAGGGGTTGATTTGGCACGCTCTTGCCTACTGAAAGCC TCCCTCGGGACTGTGGCACCGTTCATGTCCCCTTGATTCGCATGCTTTGCCCTGCGGTT GAATGAAAGGACATACTCACTTGGAGCGACCAAGCTCCGCAAGATGCCCTTTGTGTCAAT TGATATGTACTGCCAA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_000889
Insert Size:	2500 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:	NM_000889.1 , NP_000880.1
RefSeq Size:	2798 bp
RefSeq ORF:	2397 bp
Locus ID:	3695
UniProt ID:	P26010
Cytogenetics:	12q13.13
Domains:	INB, PSI
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Cell adhesion molecules (CAMs), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hypertrophic cardiomyopathy (HCM), Regulation of actin cytoskeleton
Gene Summary:	<p>This gene encodes a protein that is a member of the integrin superfamily. Members of this family are adhesion receptors that function in signaling from the extracellular matrix to the cell. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. The encoded protein forms dimers with an alpha4 chain or an alphaE chain and plays a role in leukocyte adhesion. Dimerization with alpha4 forms a homing receptor for migration of lymphocytes to the intestinal mucosa and Peyer's patches. Dimerization with alphaE permits binding to the ligand epithelial cadherin, a calcium-dependent adhesion molecule. Alternate splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Sep 2013]</p> <p>Transcript Variant: This variant (1) represents the longer transcript.</p>