

## Product datasheet for **SC118751**

### Integrin beta 5 (ITGB5) (NM\_002213) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Integrin beta 5 (ITGB5) (NM_002213) Human Untagged Clone
Tag:	Tag Free
Symbol:	Integrin beta 5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_002213 edited

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GAATTCGGCAGGAGCGCCGCCGCGCCCGCGGAGTGCAGCGACCGCGCCGCCGCTGAG
GGAGGCGCCCCACCATGCCGCGGGCCCCGCGCCGCTGTACGCCCTGCCTCCTGGGCTCT
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GTGAAGAATGTCTGCTAATCCACCCAAAATGTGCCTGGTCTCCAAGAGGACTTCGGAA
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TCGAGAGCGAGTTTGGCAAGATCTATGGGCCTTTCTGTGAGTGGCACAACCTCTCCTGTG  
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 AAACCAAAAAAAAAAAAAAAAAAACTCGAC

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002213 unedited  
 GTAATACGACTCACTATAGGGCGCCGCGAATTCGGCACGAGGCGGCCGCGCCCGCCCGC  
 GGAGTGCAGCGACCGCGCCCGCTGAGGGAGGCGCCCAACATGCCCGGGCCCGCGCG  
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 ATATGCACTAGTGAAGTGCCACCTCATGTGAAGAATGTCTGCTAATCCACCCAAAATGT  
 GCCTGGTGTCCAAAGAGGACTTCGGAAGCCACGGTCCATCACCTCTCGGTGTGATCTG  
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 GGACAGCTTATGGAGGAAAAGTGAACAGAGGGTGTCCCGAACCGAGATGCCCTGNAGG  
 GGGGCTTNGATGCAGTACTCCAGNCAGCGTCTGCAAGGAAAAAATGGCTGGNCGAAGG  
 ATGCACTGCATTGGCTGGNTGTCAACAGAATGAGTGCC

<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_002213 unedited            NNTTTACTTGNACCGCGNCCCATTCTANGATCGAGTTTTTTTTTTTTTTTTTTGGTT            TTAATCTTTACTTCCAATCCCAAACAATCTTGTTCCTTTTCATTATAAAAGTACTAAACA            AACACGGACAGGAGAGGAAACTGACATTTGCAAACGATGTACCTCAACAGGCATCTCAA            CAGCCCCATCACCAACACCTGTGTGCAAGGCATAGCCATCACGCAGAAAAGTCTCAGGAC            TCAGAACTACACCATAAATGCAGGATCTTTTTATTTTCATATAAAAATGATCAATGTGAAA            AAAGCCAACTGTATGCTGGTTTTACAGACTCCGACCTTCCTGACAGTCTTCTGTCTG            GCCAGGCTGGGGGCCAGCATTCTGGAAGGGAGAGACGCCAGCATCTCAGTATTTCA            TTGGGACAACAAGCTGGATGTGGCAGGGAAAGCTGAGAGCGCCAAGTCCCCTTGCTTTA            TCCCAAGCTCGGAGGGACGCAGCCTGGCATGGCTCTGGCCTAGCAGCCAGGTGACATGGC            CAGGCACCTTCTGTACAGGCACTGTGGCTCCTGGCCAGGCTCACTAGAAGGTCTTCT            CTGTGGTGCTACCTAGGGAGCTGTGATCAAGCCGAGCAGCCGTGCAAGGCGTTTCAGTC            TGACCTTTTCATCAGATCCCCGCTCCAGCCCCTCGGAGAAGGAAACATCAGTCCACAGTG            CCATTGTANGATTTGTTGAAGGTGAAGTCCACAGTGTGCGTGGAGATAGGCTTTCTGTAT            ATGGATTTGAAGCCATTCATAGCGGGCCCTGGATCGCTCGCTCTGAACTTTGCANACTC            CCTTCGGTCGTGGATGGTGACAAGCAGCTTTCAGATAGCCAGNAGTGGCAGCCCAACAAG            GNAGATGCTACCGACCACANCCAGGAGATAGTCATGGCGTTGGGGGGTGGTTTCACACTC            T</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002213
<b>Insert Size:</b>	3410 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_002213.3</a> , <a href="#">NP_002204.2</a>

RefSeq Size:	3392 bp
RefSeq ORF:	2400 bp
Locus ID:	3693
UniProt ID:	<a href="#">P18084</a>
Cytogenetics:	3q21.2
Domains:	VWA, INB, PSI, EGF
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, ECM-receptor interaction, Focal adhesion, Hypertrophic cardiomyopathy (HCM), Regulation of actin cytoskeleton
Gene Summary:	<p>This gene encodes a beta subunit of integrin, which can combine with different alpha chains to form a variety of integrin heterodimers. Integrins are integral cell-surface receptors that participate in cell adhesion as well as cell-surface mediated signaling. The alphav beta5 integrin is involved in adhesion to vitronectin. [provided by RefSeq, Aug 2017]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>