

Product datasheet for SC326320

ITGA7 (NM_001144997) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: ITGA7 (NM_001144997) Human Untagged Clone
Tag: Tag Free
Symbol: ITGA7
Vector: pCMV6 series
Fully Sequenced ORF: >NCBI ORF sequence for NM_001144997, the custom clone sequence may differ by one or more nucleotides

```

ATGGCTCCCTTTGCCACTCCCATGGTTCAAGCTTTGACTACAACCAGAATTCAGAGGCAG
GCAGAAGGATCCAGTGTGGAGAGAATGTGGAACAAGGAGATCTCCATTTGAGGGCAAG
GAAACCTGTGCACACCGATATGAGGCAAGGCAGCGAGTGGACCAGATCCTGGAGACGCGG
GATATGATTGGTCGCTGCTTTGTGCTCAGCCAGGACCTGGCCATCCGGGATGAGTTGGAT
GGTGGGGAATGGAAGTTCTGTGAGGGACGCCCCAAGGCCATGAACAATTTGGGTCTGC
CAGCAGGGCACAGCTGCCGCTTCTCCCTGATAGCCACTACCTCCTCTTTGGGGCCCCA
GGAACCTATAATTGGAAGGGCACGCGCCAGGGTGGAGCTCTGTGCACAGGGCTCAGCGGAC
CTGGCACACCTGGACGAGGTTCCCTACGAGGCGGGGGAGAGAAGGAGCAGGACCCCGC
CTCATCCCGTCCCTGCCAACAGCTACTTTGGTTCTCTATTGACTCGGGGAAAGGTCTG
GTGCGTGCAGAAGAGCTGAGCTTTGTGGCTGGAGCCCCCGGCCAACCAAGGGTGT
GTGGTCACTCTGCGCAAGGACAGCGCCAGTGCCTGGTGGCCGAGGTTATGCTGTCTGGG
GAGCGCTGACCTCCGGCTTTGGCTACTCACTGGCTGTGGCTGACCTCAACAGTGTGGC
TGGCCAGACCTGATAGTGGGTGCCCTACTTCTTTGAGCGCCAAGAAGAGCTGGGGGT
GCTGTGTATGTACTTGAACAGGGGGTCACTGGGCTGGGATCTCCCTCTCCGGCTC
TGCGGCTCCCCTGACTCCATGTTCCGGGATCAGCCTGGCTGTCCTGGGGGACCTCAACCA
GATGGCTTTCCAGATATTGCAGTGGGTGCCCTTTGATGGTGTGGAAAGTCTTCATC
TACCATGGGAGCAGCCTGGGGGTTGTGCGCAAACCTTTCACAGGTGCTGGAGGGCGAGGCT
GTGGGCATCAAGAGCTTCGGCTACTCCCTGTGAGGCAGCTTGGATATGGATGGGAACCA
TACCCTGACCTGTGGTGGGCTCCCTGGCTGACACCGCAGTGTCTTCAGGGCCAGACCC
ATCCTCCATGTCTCCATGAGGTCTCTATTGCTCCACGAAGCATCGACCTGGAGCAGCCC
AACTGTGCTGGCGGCCACTCGGTCTGTGTGGACCTAAGGGTCTGTTTCAGCTACATTGCA
GTCCCCAGCAGCTATAGCCCTACTGTGGCCCTGGACTATGTGTTAGATGCGGACACAGAC
CGGAGGCTCCGGGGCCAGGTTCCCGTGTGACGTTCTGAGCCGTAACCTGGAAGAACCC
AAGCACCAAGCCTCGGGACCGTGTGGTGAAGCACCAAGCATGACCGAGTCTGTGGAGAC
GCCATGTTCCAGCTCCAGGAAAATGTCAAAGACAAGCTTCGGGGCATTGTAGTGACCTTG
TCCTACAGTCTCCAGACCCCTCGGCTCCGGCGACAGGCTCCTGGCCAGGGGCTGCCTCCA
GTGGCCCCCATCCTCAATGCCACAGCCAGCCAGCCAGCGGGCAGAGATCCACTTCTG
AAGCAAGGCTGTGGTGAAGACAAGATCTGCCAGAGCAATCTGCAGCTGGTCCGCGCCCGC
TTCTGTACCCGGGTCAGCGACACGGAATTCCAACCTCTGCCATGGATGTGGATGGAACA
ACAGCCCTGTTTGCAGTGTGGCAGCCAGTCAATGGCCTGGAGCTGATGGTACCAAC
CTGCCATCGGACCCAGCCAGCCAGGCTGATGGGGATGATGCCATGAAGCCAGCTC

```



[View online »](#)

```

CTGGTCATGCTTCCTGACTCACTGCACTACTCAGGGGTCCGGGCCCTGGACCCTGCGGAG
AAGCCACTCTGCCTGTCCAATGAGAATGCCTCCCATGTTGAGTGTGAGCTGGGGAACCC
ATGAAGAGAGGTGCCAGGTCACCTTCTACCTCATCCTTAGCACCTCCGGGATCAGCATT
GAGACCACGGAAGTGGAGGTAGAGCTGCTGTTGGCCACGATCAGTGAGCAGGAGCTGCAT
CCAGTCTCTGCACGAGCCGTGTCTTATTGAGCTGCCACTGTCCATTGCAGGAATGGCC
ATTCCTCCAGCAACTCTTCTTCTGTTGTTGGTGGTGGGGGCGAGAGAGCCATGCAGTCTGAG
CGGGATGTGGGCAGCAAGTCAAGTATGAGGTCACGGTTTCCAACCAAGGCCAGTCGCTC
AGAACCCTGGGCTCTGCCTTCTCAACATCATGTGGCCTCATGAGATTGCCAATGGGAAG
TGTTGCTGTACCAATGCAGGTTGAGCTGGAGGGCGGGCAGGGCCTGGGCAGAAAGGG
CTTTGCTCTCCAGGCCAACATCCTCCACCTGGATGTGGACAGTAGGGATAGGAGGCGG
CGGGAGCTGGAGCCACTGAGCAGCAGGAGCCTGGTGGAGCGGCAGGAGCCAGCATGTCC
TGGTGGCCAGTGTCTCTGCTGAGAAGAAGAAAAACATCACCTGGACTGCGCCCGGGC
ACGGCCAACTGTGTGGTGTTCAGCTGCCACTCTACAGCTTTGACCGCGGGCTGTGCTG
CATGTCTGGGGCGTCTCTGGAACAGCACCTTTCTGGAGGAGTACTCAGCTGTGAAGTCC
CTGGAAGTGATTGTCGGGCCAACATCACAGTGAAGTCCATAAAGAATTGATGCTC
CGAGATGCCTCCACAGTATCCAGTGATGGTATACTTGACCCCATGGCTGTGGTGGCA
GAAGGAGTGCCCTGGTGGTGCATCCTCCTGGCTGTACTGGCTGGGCTGCTGGTGTAGCA
CTGCTGGTGTGCTCCTGTGGAAGATGGGATTCTTCAAACGGGCGAAGCACCCCGAGGCC
ACCGTGCCCCAGTACCATGCGGTGAAGATTCTCGGGAAGACCGACAGCAGTTCAAGGAG
GAGAAGACGGGCACCATCCTGAGGAACAAGTGGGGCAGCCCCGGCGGGAGGGCCCGGAT
GCACACCCATCCTGGCTGCTGACGGGCATCCCGAGCTGGGCCCGGATGGGCATCCAGGG
CCAGGCACCGCC
    
```

Restriction Sites:

Please inquire

ACCN:

NM_001144997

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001144997.1](#), [NP_001138469.1](#)
RefSeq Size:

3675 bp

RefSeq ORF:

3135 bp

Locus ID:

3679

UniProt ID:	<u>Q13683</u>
Cytogenetics:	12q13.2
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>The protein encoded by this gene belongs to the integrin alpha chain family. Integrins are heterodimeric integral membrane proteins composed of an alpha chain and a beta chain. They mediate a wide spectrum of cell-cell and cell-matrix interactions, and thus play a role in cell migration, morphologic development, differentiation, and metastasis. This protein functions as a receptor for the basement membrane protein laminin-1. It is mainly expressed in skeletal and cardiac muscles and may be involved in differentiation and migration processes during myogenesis. Defects in this gene are associated with congenital myopathy. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Feb 2009]</p> <p>Transcript Variant: This variant (3) contains few novel in-frame coding exons at the 5' end, and is missing some exons found in transcript variant 1. This results in a shorter isoform (3) with a different N-terminus compared to isoform 1.</p>