

Product datasheet for SC203325

Titin (TTN) (NM_133379) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Titin (TTN) (NM_133379) Human 3' UTR Clone
Symbol:	Titin
Synonyms:	CMD1G; CMH9; CMPD4; EOMFC; HMERF; LGMD2J; LGMDR10; MYLK5; SALMY; TMD
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_133379
Insert Size:	1210 bp
Insert Sequence:	>SC203325 3'UTR clone of NM_133379 The sequence shown below is from the reference sequence of NM_133379. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAACGCATCGCC
GAGAGCTTTGCAGCACTCACCTAACTAAAAATGTAATGTTTTAGTGCCTCAGTAATTATTAGCATTGA
TCTGAGTGCTTTCATATTTTCAAATTATGTGGATCTAATAAACTTCCAAACAGGTCCACCATATTTGA
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ATATTTTGTATCTGAAGTGTGGAAATCATCACTTGTGTCAATCATGCTGTGTAATATCAAACACAATTA
AATCTCTCCTTGGCTACCTAATTGTTTGTACTTCTATTTACCCTCATGCCTCCTCCACAAAGTGTTC
GTGGAATGGACTCTTTTTAGCAGATAAACCATATATGCAAAAAGTACAATGTAAGTGGAGACCATAT
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TTAACCCCTTTGCATCCAAACTCATGTTTATTTACTTTGACTTAGAATAGGCAAAAACAAACAAAAA
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CTTTTGGAGATACCTTATTTTCTCCATTTTGGAGATGACATCAAGTGTAAAATGCAGCAATAATTTAG
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GAATATAGCTTAATAAGCATTCAATTTTTATTGTGATGTTTATGTTTCTAAAGTAACTCTTTAATTTTG
TCTTTTAAAAATTAATAACAGTAAATTAACATACTCCTTAATATCTTACCTATATACTAATGTGGACC
CAAGTCTTCTCATATAAGACTCGACAAATATAAAAAA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG

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Restriction Sites:	Sgfl-Mlul
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_133379.5
Summary:	<p>This gene encodes a large abundant protein of striated muscle. The product of this gene is divided into two regions, a N-terminal I-band and a C-terminal A-band. The I-band, which is the elastic part of the molecule, contains two regions of tandem immunoglobulin domains on either side of a PEVK region that is rich in proline, glutamate, valine and lysine. The A-band, which is thought to act as a protein-ruler, contains a mixture of immunoglobulin and fibronectin repeats, and possesses kinase activity. An N-terminal Z-disc region and a C-terminal M-line region bind to the Z-line and M-line of the sarcomere, respectively, so that a single titin molecule spans half the length of a sarcomere. Titin also contains binding sites for muscle associated proteins so it serves as an adhesion template for the assembly of contractile machinery in muscle cells. It has also been identified as a structural protein for chromosomes. Alternative splicing of this gene results in multiple transcript variants. Considerable variability exists in the I-band, the M-line and the Z-disc regions of titin. Variability in the I-band region contributes to the differences in elasticity of different titin isoforms and, therefore, to the differences in elasticity of different muscle types. Mutations in this gene are associated with familial hypertrophic cardiomyopathy 9, and autoantibodies to titin are produced in patients with the autoimmune disease scleroderma. [provided by RefSeq, Feb 2012]</p>
Locus ID:	7273
MW:	47.2