

## Product datasheet for **SC317121**

### Dystrotelin (DYTN) (NM\_001093730) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrotelin (DYTN) (NM_001093730) Human Untagged Clone
Tag:	Tag Free
Symbol:	Dystrotelin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC317121 representing NM\_001093730.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGATCCAGATAAACAAGATGCTCTTAATAGTATTGAGAATTCATTTATAGAACAGCCTTCAAATTA
CAATCAGTGCAAACCTCTGTGCCAGTTGGACTTGATTGACAGCTCCCTGATTGAGCAGGCTCTACTGCGT
CCAAGTTTCTGGGAAGCTCGCAAGCACTCCCTTTCTGTGACGAACTTTCTCAGGCACTCCAAGAGCTG
TTTCAGAAGGCCAGGGAGGAAAAACCCAGGACAAGTGCATCCCAGAGCTCCGGAATCACTCTGAGCCTT
CTCACGACAATGTACAACAGCAAAGGAACAGGTTTTCTCCAGCTTATGCCTGCGGCCGCTGCCCTAATA
ACCCTCTCAGGAGACAGCCCTCTTTCAAATACCGAGCTCTTTTTCAACTCTATGCAGAAAAATAGCAGG
GGAGGCTATGATTCTGGGCCACGCATGACTCGAAGGGTTTTGAGAAAACACTAACAGATCTACAGCAG
ATCCCAACTTTCTGGGAGAGAGTCGTGCTCTGTGCCCTGTGAAAGTGCACCCCGCAGCTGTTTCAA
GGGTGTTGAGCCAGCAATCAAAGAAGAAAAATCCTGTCTGGGTCCAATCTGAGCCTCCCATCTC
CTGTGGCTCCCGACTGCCACCGGTTATCAGCTGCTGAAAGGGTCACTCACCTGCTCGGTGCACTCTC
TGCAAGACTTTCCAATCACGGGACTCAGATACCGCTGTCTGAAGTGTCTCAACTTTGACATCTGCCAG
ATGTGTTTCTTATCTGGTCTTACAGCAAGTCCCATCAGAAGTCTCATCCTGTCATTGAGCACTGCATT
CAGATGTCAGCAATGCAGAAACAAAACCTCTCTTCCAGGACCCTCAGAAACAACCTTCTTCCAGGGCGC
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CATGCGCAGGCCAGGCTCCTTAAAAACAGTTAAACCAATACAAAGACAAGTTGCAAGCTATATACACC
TCCCAGGAAGAAAGAATTTGTCGATTTGAAACAAGGATTCACAACTCAAACCAACCAGGATAGTCTA
TGGACCAAGCTACAACAGATAAGACGGGACCTACAGGCAAGGTTGCAGCCACCCGGTCTTCATCTTCT
TCCTTTCAAATGTGGGAACAAGGTTGACCATTCTTCAACTGAAAAGGTTCAAAGGGAGGGGATTAT
TTGCAGATCAAGAATGCCACTGAAGATGCTTCAACAGGGGAACCTCTTCCCTAAGCTTGATGAGGTTGAC
AGAAGTACAGAAGTACACAAAATGCAGAGCATGCTCTGCGAAATCCAGAATCACAGAGACCCTTTG
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CAGGAGGGACTGAAGCAGGACATCCCCAAAATGGTTCTGCTGAAATGAGCAGTCTGCTCTGCCAGCC
GTGAAAAGAAAGAGGCAGGTAACATCAAGGAGAGAAAGGATGAGCTGGAGGAAGAGGAACTGCAAGAA
CTATTGTCAAACCTTATGGATGCCTTCAATCTAGAAACGCCATCAGGCCCGGAGTCTTCAAGTAACATG
GACCTGTACAGTGGAGCTCAGCGAGTGTGACGGCCTTCTCTGCCCTTGTGATCAAATTGCCTTGCC
AATTTGAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001093730
- Insert Size:** 1737 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).
- 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\\_001093730.1](#)

**RefSeq Size:** 2051 bp

**RefSeq ORF:** 1737 bp

**Locus ID:** 391475

**UniProt ID:** [A2C106](#)

**Cytogenetics:** 2q33.3

**MW:** 65.3 kDa

**Gene Summary:** This gene belongs to the dystrophin superfamily, which is characterized by the presence of four EF-hand motifs and a ZZ-domain. It is a likely ortholog of the *Drosophila* 'discontinuous actin hexagon' gene. It is noteworthy that the coding region of this gene lacks two coding exons that are found in the mouse ortholog. Human transcripts including these two exons are subject to nonsense-mediated transcript decay (NMD). On the other hand, transcripts skipping the two coding exons are expressed at very low levels. While this gene maintains an intact CDS, it may be an evolving pseudogene. However, after a discussion about this gene within the RefSeq group, as well as in the consensus coding sequence (CCDS) collaboration, it was decided to keep it as a protein-coding gene in the RefSeq, Ensembl-GENCODE and the CCDS sets. [provided by RefSeq, Jul 2019]