

## Product datasheet for SC335764

### Myotilin (MYOT) (NM\_001300911) Human Untagged Clone

#### Product data:

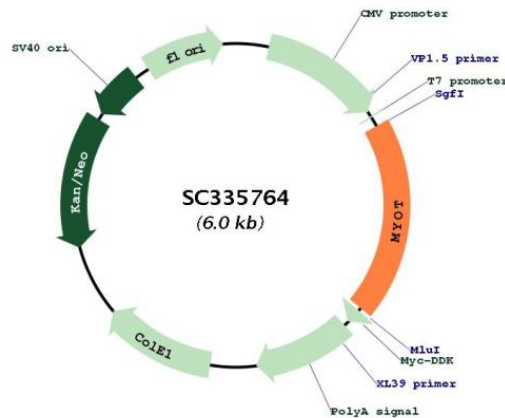
Product Type:	Expression Plasmids
Product Name:	Myotilin (MYOT) (NM_001300911) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYOT
Synonyms:	LGMD1; LGMD1A; MFM3; TTID; TTOD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335764 representing NM_001300911. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATTCCAACATCAACAGTCTCAGCTGGCCAACTATAAATGCAAAGCCATCCCAAATGCAAAT
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CAAGACTCGCAGCAACAACACTCAGAACATGCCGACTGCAAGTTCCTACATCACAAGTAAGAAGTAGA
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AAAAGAGCAACATGTTTATCTACAAACCACAGAGCAAAAAGTTTTAGAGGGAGATTCAAGTAACTA
GAATGCCAGATCTCGGCTATACCTCCACCAAAGCTTTCTGAAAAGAAATAATGAAATGGTACAATTC
AACACTGACCGAATAAGCTTATATCAAGATAAAGCTGGAAGAGTACTTTACTGATAAAAGATGTAAC
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AGCAAAATATTTAGCACTTAATGGGAAAGTTTTGAATGTAACAAGCTTTTAACCCAGAAGGAGAATTT
CAGCGTTTGGCAGCTCAATCTGGACTCTATGAAAGTGAAGAAGCTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001300911

**Insert Size:** 1152 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:**

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\\_001300911.1](#)

**RefSeq Size:** 1939 bp

**RefSeq ORF:** 1152 bp

**Locus ID:** 9499

**UniProt ID:** [Q9UBF9](#)

**Cytogenetics:** 5q31.2

**MW:** 42.9 kDa

**Gene Summary:**

This gene encodes a cytoskeletal protein which plays a significant role in the stability of thin filaments during muscle contraction. This protein binds F-actin, crosslinks actin filaments, and prevents latrunculin A-induced filament disassembly. Mutations in this gene have been associated with limb-girdle muscular dystrophy and myofibrillar myopathies. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.[provided by RefSeq, Oct 2008]

Transcript Variant: This variant (3) lacks an internal segment in the 5' region, which results in translation initiation at a downstream start codon, compared to variant 1. The resulting isoform (c) has a shorter N-terminus, compared to isoform a.