

## Product datasheet for **SC210514**

### smooth muscle Myosin heavy chain 11 (MYH11) (NM\_001040114) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** smooth muscle Myosin heavy chain 11 (MYH11) (NM\_001040114) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** MYH11  
**Synonyms:** AAT4; FAA4; SMHC; SMMHC; VSCM2  
**ACCN:** NM\_001040114  
**Insert Size:** 886 bp  
**Insert Sequence:** >SC210514 3'UTR clone of NM\_001040114

The sequence shown below is from the reference sequence of NM\_001040114. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GACTTCAATGGAACCAAGGCCAGTGAATAGCAACTTTCTACAGTTTTGCACCACGGAAGAAAACCAA
AAACCAAAACAAACAAACAAAAAACCAACAACAACCCAGAACAAGCAAACCCAGCAGACTGTAC
TTAGCATTGTCTAAATCCATTCTCAAATTCCAAATATCACAGACACCCCTCACACAAGGAATATAAAAA
CCACCACCTCCAGCCTGGGCAACGTAGTAAACCTCATCTATACAAGAATTTAAAAATAAGCTGGGCG
TGGTGGTACACACCTGTGGTCCCAGCTACTAGGGAGGCTGAGCCAGGAAGAACGCTCCAGCCAGGACT
TCGAGGCTGCAATGAGCTATAATTGCATCATTGCACTCCAGCCTGGGCAACAGAGACCCTGTCTCAACC
ACCACCACCACCACCCTACTACCCTGTATTCAAGGTAATAAATTGAAGTTTGTATGATGTAAGAG
ATGAGAAAAACCAACAGGAAACACAGACACATCCTCCAGTTCTATCAATGGATTGTGCAGACACTGAG
TTTTTAGAAAAACATATCCACGGTAACCGGTCCTGGCAATTCTGTTTACATGAAATGGGGAGAAAGTC
ACCGAAATGGGTGCCGCCGGCCCCACTCCAATTCATTCCCTAACCTGCAAACCTTTCCAACTTCTCA
CGTCAGGCCTTTGAGAATTTCTTTCCCCCTCCTGGTTTTCCACACCTCAGACACGCACAGTTCACCAAG
TGCCCTTCTGTAGTCACATGAATTGAAAAGGAGACGCTGCTCCACGGAGGGGAGCAGGAATGCTGCACT
GTTTACACCCTGACTGTGCTTAAAAACACTTTCACTAATAAATGGTTATAAATCACAA
ACGCGTAAGCGGCCGCGGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```

**Restriction Sites:** SgfI-MluI

**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).



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<b>Components:</b>	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.
<b>RefSeq:</b>	<a href="#">NM_001040114.2</a>
<b>Summary:</b>	The protein encoded by this gene is a smooth muscle myosin belonging to the myosin heavy chain family. The gene product is a subunit of a hexameric protein that consists of two heavy chain subunits and two pairs of non-identical light chain subunits. It functions as a major contractile protein, converting chemical energy into mechanical energy through the hydrolysis of ATP. The gene encoding a human ortholog of rat NUDE1 is transcribed from the reverse strand of this gene, and its 3' end overlaps with that of the latter. The pericentric inversion of chromosome 16 [inv(16)(p13q22)] produces a chimeric transcript that encodes a protein consisting of the first 165 residues from the N terminus of core-binding factor beta in a fusion with the C-terminal portion of the smooth muscle myosin heavy chain. This chromosomal rearrangement is associated with acute myeloid leukemia of the M4Eo subtype. Alternative splicing generates isoforms that are differentially expressed, with ratios changing during muscle cell maturation. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
<b>Locus ID:</b>	4629
<b>MW:</b>	33.4