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# Product datasheet for SC101772

## MYO5A (AK090859) Human Untagged Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | MYO5A (AK090859) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | MYO5A |
| **Synonyms:** | GS1; MYH12; MYO5; MYR12 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**Fully Sequenced ORF:**

>NCBI ORF sequence for AK090859, the custom clone sequence may differ by one or more nucleotides

ATAGTTACTTGCTATAACTCAGCTTGACTTCTGTCATGAATCAGTGCTCTCTGGGAGGATGCAATACTCT
GTTTGGGCATTAATTGGTAGCAGGTTGTCTCAACCAAAAAGACAGGAAACAGCAAAAGCCTCTCTGAAAT
TAAGAGGAAAGTTACTCTCCCCACACCCATCAGAGTCTTTATTGGAGCCACCAGGTGAGCTGTGCAGCCT
GGACAGGCCTGCAGCTATAGGCCACCTTCCCAGTTTAGGTCCTCAGCACAGGGGAGCCCAAGTCACTGGG
TGCCTTCTGAGGGCTGTCACTGGGCAGGCCATATACAAATCAGTGTGTGCGTGGGCACTGCAGTGTGTGC
ATGCCGTAGGTGTTGATGGGTGCTAGGAGGGGTGTCGTGTGCATGCGCGTTGAAGAGGATCTGTATTGCC
GTGACCTCTGTTCATGGATGAGTGCATTGTAATTTGTTCTCAGGCTGTGCTGTGAGGGCCGCCTTAACCC
TTGCTCCCTTCCCTTCTAGAGCTGCCTTAAGTTCTCCAGAACTTTTCTTCTGTAAAGGATATCTTGCCTG
GAAGGGATATCTTGCCCTGTTTCTCAAGGTTTTGTGAGAGTTTTGACTGGATGTGGCCCTGCATGACCCT
CCTTCTCCTGTACTTCCTCTTTCCTTTCCAAATGGGAATTAGAACTGTGGGGCAGCAACAGTCTCAGAGC
CAGTGAGAGGCCAGCTTAGAGAATGCTTCTGAGTTAGTGGGACTCTGTGTCACAAGTAAGCAAATGAATA
TATGAAAGAAATTATGGAGATAAGTTAGATTCTTGGTAATACTTAAATGTCTTGCTTTCTACTAACCTTT
TGTTACTAAAGGTAAAGGGTATAACTCAAACTTTTTGTGGACATTCTTTTCAAAATTTTTTAAGAACCCT
GTACTATAAAAGGTTGAGTAAAAACAGGAAAGCGTGCTATAAGTTCAAATCTGTTGTATTACCCTAAATT
AGATAAACCAACCTGAATTATAGTAGATTTCTCAATAGATGAGGAACTGAAAAATACTATGTAAAATATC
TTCCAAAATGCTTTTTATACTTTTTTTATTTGTAATTTGGTCTATCTAAAATGTTCGTTAGCTTAACTTA
ATGGGCGTTATTGGATTCATATGACTAACGTTTCCTCAGTATTGTAATGCTTGAAATATTTGAAAGAAAA
AATGTTGTTTTTTAGTTGAAACTGGTATATATAATTCAGTGCTTGGCAGGTTAGTATATTTTTATGCATT
TTTCAGAGTCAGCAGTTTCAAATCTTATTGTTATCATGTTATAAAATTTTAGCCCACATTTCAGGCTCCG
TAAATCATTTGAGCCATTATTTTTTCCCAACAAATGGTGAATTTTTTCTTTAAATGTGGATATATATGTT
GTAATTTATGATTCCTGGTTATGTATTTTTGTGGGATCCTGCAGTAAAATTGACTTTTTTGTGTCTTTGG
GAGATTTAAATTGCGCTAACAGTGTTGCGCAAAAATGAGTTCATGCCATTTAACATATTGTATTTTAATT
ATTAACTGTATTAATTTACTATGAAATGGACATCCTTTTAACTAAAATGGAATTGAACATTGCAGTTTTC
AAATATTTTTCCTTGTTGGGTCTGGAAAAGGAATTCTACTTTGATCTGCATAGAAAATTTTGATACAATT
TTTTGAAAGTTCTTAGGTGAAACATTTACCCATTAAAAAGGAAGCAGAAATACTGAGACATGAAAGGCAT
TATCAACTAACTCTAGACTCTAGAACCCATTCTAGCATATCTCACGTGCAATTTTTAAAAATAAGTTAAT
AATTCATCTCATATCAACAAAAGCCTTTGAAACATGGGTTTTCACTAGATATCACCTAGTGCTAAGATAA
AAACCAAAACAATATCAGAATTACATTTATGCTCTAAATTTGTAGTTGTCCATTGTTGTGCTTAGTAAAT
GTGTGTCATTAAATTAATGCTGTATTCTCCTAGCTATTATGGAAACTTGTTTAAATAAAGATATGGATAT

**5' Read Nucleotide Sequence:**

>OriGene 5' read for AK090859 unedited
GGCGTTCANATTTGTATACGACTCACTATAGGCGGCCGCGATTCGGCACGAGGGTCGCTT
CTACAATCATTTCTGATGATAGCTTGGGAATAGAGATAGGGGCAGTGACTTGCCTGATGT
CGCACAGCCCTCCGGCTGTCCTGCTTTCCCATATGGAGCAGTGGTGGTGTGGGCACCTGT
GATGCAGGAGACTTTAAAAATGTCGTGAGGTCACGTGCTGCCCCTCCTGGTACGTGTGGA
ATGCCCCTGGCCAGCAAGGGGTGCTTTTTTATCAGAGTTGGCAGCTGGCATGTGGGAACC
GAGCAAGTGCTGCGTACCAAGTTACTTGTTTTAAGGAGACCAAGTGCTCAGCGCCAGGTG
GTTTTCTTTTTTGTCATAGTTACTTGCTATAACTCAGCTTGACTTCTGTCATGAATCAGT
GCTCTCTGGGAGGATGCAATACTCTGTTTGGGCATTAATTGGTAGCAGGTTGTCTCAACC
AAAAAGACAGGAAACAGCAAAAGCCTCTCTGAAATTAAGAGGAAAGTTACTCTCCCCACA
CCCATCAGAGTCTTTATTGGAGCCACCAGGTGAGCTGTGCAGCCTGGACAGGCCTGCAGC
TATAGGCCACCTTCCCAGTTTAGGTCCTCAGCACAGGGGAGCCCAAGTCACTGGGTGCCT
TCTGAGGGCTGTCACTGGGCAGGCCATATACAAATCAGTGTGTGCGTGGGCACTGCAGTG
TGTGCATGCCGTANGTGTTGATGGGTGCTANGANGGGNTGTCGTGTGCATGCGCGTTGAA
AAGGATCTGTATTGCCGTGACCTCTGTTCATGGATGAGTGCATTGTAATTTGTTCTCAGG
CTGTGCTGTGGAGGCCGNCTTAACCCTTGCTCCTTNCACTTNCTAGACTGCCTTAAGTTC
TACANAACTTTTACTCTGTCAAGGACTATCTGCCTGGNAAGGGAATATCTTGCCT

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**3' Read Nucleotide Sequence:**

```
>OriGene 3' read for AK090859 unedited
NGGGTATTCTATGNACGCGGCCGCATTCTANNGATCGGTTTTTTTTTTTTTTTTTTTTA
TATCCATATCTTTATTTAAACAAGTTTCCATAATAGCTAGGAGAATACAGCATTAATGAC
ACACATTTACTAAGCACAACAATGGACAACTACAAATTTAGAGCATAAATGTAATTCTGA
TATTGTTTTGGTTTTTATCTTAGCACTAGGTGATATCTAGTGAAAACCCATGTTTCAAAG
GCTTTTGTTGATATGAGATGAATTATTAACTTATTTTTAAAAATTGCACGTGAGATATGC
TAGAATGGGTTCTAGAGTCTAGAGTTAGTTGATAATGCCTTTCATGTCTCAGTATTTCTG
CTTCCTTTTTAATGGGTAAATGTTTCACCTAAGAACTTTCAAAAAATTGTATCAAAATTT
TCTATGCAGATCAAAGTAGAATTCCTTTTCCAGACCCAACAAGGAAAAATATTTGAAAAC
TGCAATGTTCAATTCCATTTTAGTTAAAAGGATGTCCATTTCATAGTAAATTAATACAGT
TAATAATTAAAATACAATATGTTAAATGGCATGAACTCATTTTTGCGCAACACTGTTAGC
GCAATTTAAATCTCCCAAAGACACAAAAAAGTCAATTTTACTGCAGGATCCCACAAAAAT
ACATAACCAGGAATCATAAATTACAACATATATATCCACATTTAAAGAAAAAATTCACCA
TTTGTTGGGAAAAAATAATGGCTCAAATGATTTACGGAGCCTGAAATGTGGGCTAAAATT
TTATAACATGATAACAATAAGATTTGAAACTGCTGACTCTGAAAAATGCTAANAATTACT
AACCTGCCAAGCACTGAATTATATATACCAGTTTCAACTAANAAACACATTTTTTCTTTC
AAATATTCAG
```

**Restriction Sites:** NotI-NotI

**ACCN:** AK090859

**Insert Size:** 2250 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:** AK090859.1

**RefSeq Size:** 2030 bp

**RefSeq ORF:** 2030 bp

**Locus ID:** 4644

**Cytogenetics:** 15q21.2

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**Gene Summary:** This gene is one of three myosin V heavy-chain genes, belonging to the myosin gene superfamily. Myosin V is a class of actin-based motor proteins involved in cytoplasmic vesicle transport and anchorage, spindle-pole alignment and mRNA translocation. The protein encoded by this gene is abundant in melanocytes and nerve cells. Mutations in this gene cause Griscelli syndrome type-1 (GS1), Griscelli syndrome type-3 (GS3) and neuroectodermal melanolysosomal disease, or Elejalde disease. Multiple alternatively spliced transcript variants encoding different isoforms have been reported, but the full-length nature of some variants has not been determined. [provided by RefSeq, Dec 2008]

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