

Product datasheet for MC224687

Sym (NM_201639) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Sym (NM_201639) Mouse Untagged Clone
Tag: Tag Free
Symbol: Sym
Synonyms: 4930412K21Rik; AI852401; Dmn; E130104F11; Syn; Synemin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224687 representing NM_201639
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGTCCTGGCGGCTGCAGACGGCTCTGAAAAGCGGAGCTGCAGGAGCTCAACGCCCGGCTTTACG
 ACTACGTGTGCCGGTGCAGAGCTGGAGCGCAGAACCTGCTACTGGAGGAGGAGTTGCGCAGCCGGCT
 GAGCCGGGAGGACCGCTGGGCTGAGGATCAGGCACTCTACGCCGAGGAGGCGCGCAGCCTACGACAGCAG
 CTAGATGAACTGAACTGGTCCACAGCCCTGGCCGAGGGCGAGCGCGACCGCTGCCGAGGGAACCTGCTGG
 AGCTGCAGCGGGAGGGTGTGGAAGCCGGCACTGCCCGCAGCCGCCTGGATGCCGAGCTGGGAGCGCAACG
 GCGGGAGCTAGAGGAGGCTCTGGGCGCGCGCCGCCCTCGAGGCGCTGCTGGGCGGCTGGAACTGAG
 CGCCGCGACTTGGACGCTGCCCACGAACGCCAAGTGCAGATCTACGAGCCCGCGCTGCCAGCCTACCA
 TGCACTTCGAGCCCGCCACCAGCCCGCCGCGCCCGCCCGCGCTGCGGGACGTGCACGACAGCTA
 CGCCCTGCTGGTGGCCGAGTCGTGGAGGGAGAGCGTGCAGCTGTACGAGGACGAGGTGCGCGAGCTGGAG
 CAGGCGCTGCCCGCGGCAAGAGAGCCGGCTCCAGGCGGAGGACGAGGCGCGGCTGTGCCGACAGGAG
 CAGACCGCTGCCGGAACAGGCGCTGGAGTTGGAGCAGCTGCGCGGAGGCTGGAGGATGAGCTGCTGCG
 GATGCGCGAGGAGTACGGGATGCAGGCGGAGGAGCGCAGAGAGTATTGACAGCCTGGAGGATGAGAAG
 GAAGCCCTTACCTTGGCCATGGCTGACCGGCTGCGGGATTACCAGGAGCTCCTGCAGGTGAAGACTGGAC
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 AGGAAAAATGAGAAAAATCTCTTTCCAAGGCGAAAAACACCTTGGGCGAGCTGTAATCACAGCTCGGCCCT
 CGTATTCTAACTGGCCAGGGCACCTTGACTCACAGACAACCACAGCTGTAGGAAGTGTGCCAGAAGGGG
 TCTCCTGACCTCCCGCCATTCTCCTCAGCTACAACCTCAGGGCAGCAAAAGCCCTGGAGAAAACCATC
 AGCAGCCGAGCAATTTAAGACCGTACGCCAACCCACGGCTTTCTAAGAAACTGATGCTCAAATGA
 AAACACTCCCCATAGATCCAAAGTCGAAGGCACGGGGGACACCCACGCACGGCGGGCTACAGAGTCTGT
 TATTACCAGAGATCATACAGAGTCCACAGGGCCATGTGGCAGCAGGTGCCGTGAGCAGCACTCCGTCA
 AATGAGAGGACTGCATTCTGGGAAAGAAATTAGAAGCGCAAGCCACTAAGAACAAGAAAGGGACAGAT



CAGGGGTCATCAGAATAAAGCCAGAAGAGAAAATGTTTGATTCTAAAGAGAAGGCTTCAGAGGAAAGAAA
 CTTGAGGTGGGAAGAGCTAACCAAGTTAGATAGAGATGCCAGAAAAGAGAGAAAGCCGGCATTGAGGGAT
 GAGGCCAGAGAGAAGGAAGCACTGAAGGAGAGAAGTGTAAAAGAAAGAGAGGTGCCCATCAGTCTAGAAG
 TATCCCGGGGCAGCAGAGCAGAGGTGTCCACCATACACTTGCAGTCACTGGAAGGAAGGACGTTAGCCA
 CAGTGGGGGAAGAGAGCCAGAGACCAAAAGACAAAGGTTCCGGCTGGATACCCAGGACACTGCCAGCTCT
 CTGCAAAGTGACTCAACGACAGAAAACATAGCCGAAAGCATTGTCACCACCATCCTTAAGCAGTTTACCC
 AGTCCAGGTGCCGAGGAGGAGCCACTTCTTTCCCGACACAAAGGTCACCTTATGTGGACAGGAAAGA
 GTTTCCTGGTGATGGGAAAACCAAGACAGAAATCGTTGTGGAGTCGAAGCTGACAGATGTTGTTGATGTT
 TCTGATGAAGCAGGCCTGGACTACCTTCTAAGCAAGGATGTCAAGGAAGTAGGACTGAAGGGGAAGTCAA
 CGGAGACGATGATCGGAGAGATGATCAACCTGGGTCTGAAAGGCAGGGAGGGGAGAGCTAAAGTCGTAAA
 TGTGGAGATTGTGAAGAGCCCATGAGCTACATAGGTGGTGGGAAAATAGACTTTTCTACCCCTTTTCAG
 GTAGAAGAAGTCGACGACGTGTCTCCAGCCCCAAGGGCTTTGTGGAGGAAGAGGATGGTGAAGGAGAGA
 CCCACATGGCATTCTCAATGCGTCCACATCAGACCAACAGCCCCAGGGGACCATCCCTCACGTGGAAGA
 AGTGACGGAGGCGGGGACTCAGAGGGGAGCAGAGCTATTTTGTGTCTACCCAGATGAGTACCCGGG
 GGGCATGACAGAGAAGATGATGGCTCAGTGTATGGGCAGATTATATCGAGGAAGAGTCTACCATCCGGT
 ACTCATGGCAAGACGAAATTGCGCAGGGGACTGGAGAAGGAAAATGAGAGGTGACGTGGGGGAGAGAA
 GCCTGTGAAGGTCTGGAGGTCCAGCACTTCCCTGGGTGGTGTATTGGTTCTGCTCACTTGAAGGAA
 GAAGCCAGTGGTGAACCTCCGTGCTGAACCCACAGTCATTGAGAAAAGAGATCAAAATACCCGATGAATTCC
 ACACCTCCATCAAGGGTGTCTTCTCCAGTGAGCCCCGGCACAGCTGGTGGAGGTGATCGGGCAGCTGGA
 GGAAACATTGCCGAGCGCATGAAGGAGGAGCTGTCTGCCCTGACCAGACAGAGTCAAGGAGAGTCAAGG
 AGCGTTTCTGTGGACGTAAGAAAGTCCAGAGCGCTGCTGGTGGTTCTGTGACTTTGATGGCTGAGGTCA
 ACCTCTCACAGACTGTAGATGCTGATCAGTTGGACCTGGAGCAGTTGAGCAGAGATGAAGCTGGGAAAT
 AGAGAGGGCTGTGGAGTCTGTGGTCAGAGAGAGCTTGGCCAAGCGCTCCAGCCAGTGCCTAGAAGCCCA
 GACAGGGAAGATGGAGAGGAGGTGCCTGCTGGTGGCATTCTCTCAAGCGCTGGGCCACAGGGAGCTGT
 ATAGCCCATCTGGTGAGAGGGATGATGCTGGCCAGGTCTCTCCAGCTCAGATCAGCGTGTATCCAGGG
 CCCAGTGTGAGTACTGTGGAAGTGACCAGCCCAACGGGTTTTGTACAGTCTCATGTGCTGGAGGATGTG
 AGCCAGTCTGTAAGGCATGTTAACTAGGTCCCCTGAAATGTGGAGGACAGAACAGGTGACCTTCGGAG
 GACCCACCGCACAGGTGGTGGAGGTAAGTGGAGACTTCAGCGAGGCAGTCAAGTCTGAGGGAGCCAGCCG
 CTCTGTGAGGCACATTACACTGGTCCCATCAAAGCCAAGTGTCCACAGAAGTCATTTCCGAGGCTCT
 GTGCCACTGCGCAGGAAACAGGAGACACAGAAAAGCCTGGCCAGTGGTACTGTCTGTGGGAGCTGACA
 TCTCAGGGAGCGCAGGATGCCTGGCTCTGAGCGGTCTCACACTGAGAAAAGAAATTCGTTTTCCAGGTCC
 TGTTTTCTGGGACAGCCAGGTTGGTGGTAACTTTGCAACTGAAGAGTCAGTGGGTAGCCAGACTTTTGTA
 AGGAGTCTCCAGTTAGGCCCAAAGAAGGGTTCAGAGAGGAAATCCAGTTCATAGCTCCTATCCAGACA
 AGGTAGGGTGGGAGAAGAGGATTCTGAGCACACCAAAGTGTGCGTAGAGAGGGCTACATCCATCCAGCG
 TATTGACATTGTGCCAGAGGTACCTAGCTTCCAAGCAGATGGCCCCACAGACATTGGAATTCAGGGAC
 TCAGAAGACATGGTTATGGTGAAGGTTTCAGCAGGCACAATCCAGGCCACTCACAATTTACCTCAGATA
 GAGAAATCCTCCAGAACAAGAGAACACATTCCAGAGGGTCATTTCTGGGTCTCCTCCAGACAGTGTGGG
 CGACACGGGAGCAGAGGTGACAGCAAACGTGAGCAGGTCTTTCCGGCACATTCAAATAGGTCCTACAGAG
 GAAGAACCCTCTGAATACTTTGTACCCGGGAGACCCGTATCTAAAACATTTGACTTGATGGTTCCGTGG
 CGTCCCCCTGGGCTGGTTGGGGGAGCAGACGGTGGTAGCACACCGTGTGCGATTGCACTGGGGCCAAAGA
 AACTTCATTTACTTTCCAGATGGATCTGAGCGACACGAGAGCGATCCGCGACTGGACCCGAGACACAGGG
 TCGGAAGTGAAGCTCACGGCGTGTCTACCGTGGTGGCTGGAGAATTGCACACAGTAGGGATGAGCGAG
 TGGCCAGCACTGGCTCTGGGGCTCCCTGGGGATGCACACCAGGCCCTGGAGAGAAAGGCACGGAGCA
 GGCTGGATTTGACAAGACGGTACAGTTGCAGAGAAATGGTAGACCAAGGTCGGTGGCCTCAGATGAGAAG
 AAAGTGGCTCTTCTTTATCTAGACAATGAAGAGGAGGAGGAGGAGGGCGAAGGGTGGTTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_201639

Insert Size:	4686 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:	<ol style="list-style-type: none">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:	<u>NM_201639.2</u> , <u>NP_964001.2</u>
RefSeq Size:	7866 bp
RefSeq ORF:	4686 bp
Locus ID:	233335
UniProt ID:	<u>Q70IV5</u>
Cytogenetics:	7 C
Gene Summary:	<p>Type-VI intermediate filament (IF) which plays an important cytoskeletal role within the muscle cell cytoskeleton. It forms heteropolymeric IFs with desmin and/or vimentin, and via its interaction with cytoskeletal proteins alpha-dystrobrevin, dystrophin, talin-1, utrophin and vinculin, is able to link these heteropolymeric IFs to adherens-type junctions, such as to the costameres, neuromuscular junctions, and myotendinous junctions within striated muscle cells (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (H).</p>