

Product datasheet for MR223367

Sym (NM_183312) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sym (NM_183312) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sym
Synonyms:	4930412K21Rik; AI852401; Dmn; E130104F11; Syn; Synemin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223367 representing NM_183312 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTCCTGGCGGCTGCAGACGGGCTCTGAAAAGGCGGAGCTGCAGGAGCTCAACGCCCGGCTTTACG
ACTACGTGTGCCGGTGCAGAGCTGGAGCGGAGAACCCTGCTACTGGAGGAGGAGTTGCGCAGCCGGCT
GAGCCGGGAGGACCGCTGGGCTGAGGATCAGGCACTCTACGCCGAGGAGGCGCGCAGCCTACGACAGCAG
CTAGATGAACTGAACTGGTCCACAGCCCTGGCCGAGGGCGAGCGGACGCGCTGCGGAGGGAAGTCTGG
AGCTGCAGCGGGAGGGTGTGGAAGCCGGCACTGCCCGCAGCCGCTGGATGCCGAGCTGGGAGCGCAACG
GCGGGAGCTAGAGGAGGCTCTGGGCGCGCGCCGCCCTCGAGGCGCTGCTGGGCCGGCTGAAAAGTGG
CGCCGCGACTTGGACGCTGCCACGAACGCCAAGTGCAGATCTACGAGCCCGCGCTGCCAGCCTACCA
TGCACTTCCGAGCCCGGCCACAGCCCGCCGCGCCCGCGCCTGCGGGACGTGCACGACAGCTA
CGCCCTGCTGGTGGCCGAGTCTGTGGAGGAGAGCGTGCAGCTGTACGAGGACGAGGTGCGCGAGCTGGAG
CAGGCGCTGCGCCGCGGCCAAGAGAGCCGGCTCCAGGCGGAGGACGAGGCGCGGCTGTGCGCGCAGGAGG
CAGACGCGCTGCGGAACAGGCGCTGGAGTTGGAGCAGCTGCGCGGAGGCTGGAGGATGAGCTGCTGCG
GATGCGCGAGGAGTACGGATGCAGGCGGAGGAGCGGCAGAGAGTATTGACAGCCTGGAGGATGAGAAG
GAAGCCCTTACCTTGGCCATGGCTGACCGGCTGCGGGATTACCAGGAGCTCCTGCAGGTGAAGACTGGAC
TCAGCTTGGAGGTAGCCACCTACAGGGCCTTGTGGAAGGAGAAAAGCAATCCGGAGATATTGATCTGGAC
TGAGAACATTGAAAACGTGCCACAAGATGGATCTGAGCGACACGAGAGCGATCCGCGAGCTGGACCCGAGA
CACAGGTCGGAAGTGAAGCTCACGGCTGTCTCACCGTGGTGGCTGGAGAATTGCACACAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR223367 representing NM_183312
Red=Cloning site Green=Tags(s)

MLSWRLQTGSEKAEQLNARLYDYVCRVRELERENLLLEELRSRLSREDRWAEDQALYAEARSRLRQQ
 LDELNWTALAEGERDALRRELLELQREGVEAGTARSRLDAELGAQRRELEALGARAALALLGRLETE
 RRDLDAHERQVRDLRARAASLTMHFRARATSPAAPPRLRDVHDSYALLVAESWRESVQLYEDEVRELE
 QALRRQESRLQAEDEARLCAQEADALRNQALELEQLRARLEDELLRMREEYGMQAEERQQRVIDSLEDEK
 EALTLAMADRLRDYQELLQVKTGLSLEVATYRALLEGESNPEILIWNTENIENVPQDGSERHESDPQLDPR
 HRVGSSSRRVSPWWLENTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9047_b08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_183312

ORF Size: 1113 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_183312.3](#), [NP_899135.3](#)

RefSeq Size: 4513 bp

RefSeq ORF: 1116 bp

Locus ID: 233335

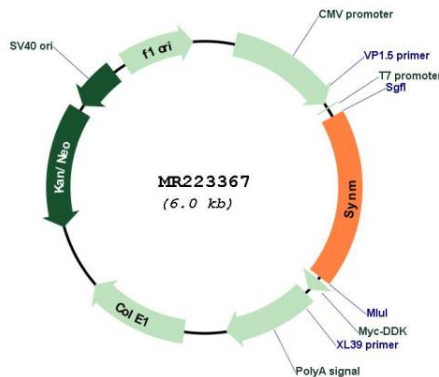
UniProt ID: [Q70IV5](#)

Cytogenetics: 7 C

MW: 43.5 kDa

Gene Summary: 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]

Product images:



Circular map for MR223367