

Product datasheet for **MR215638**

Sync (NM_023485) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sync (NM_023485) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sync
Synonyms:	1110057H03Rik; SNIP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR215638 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGCCCGAACCCCTGCGCGCGGGGACGGCGCCCGGCCCTCGAGGGAACACACACCGAGGAGA
 GTTTTCCTCTTCAGGAGTCAGAATCCCGAAGGAGGCCAAGACCTTTAACCCAGAGGCCACTCTGTCTTT
 GGAGGGGACTGTGAACCTAGAGGACATTCTCTATCTGGGGGCATCGGGGACTTTGAAGAGATTTTTAT
 GAGGAAGAATATGAGAAGCCAGCACAGACACTGTTTATCGACGAATCGAGGCAGCCAGACGAGGCGTGG
 GCCTAGAAGAGCCCGTGCGCCAGAGGAGATGCTGTCTGTGGAGGAATCCGTGACGCCAGATGAGGTGCA
 AATTTAGAGCAGCCTGTGGAGCCAGCTAAGAGCCCACTGCTTGTGAGGGAGAAATGGTGGCCACGGAG
 GGAAGCCTGCCTGCTCAACCGATTCCCAACACCGAGGAGGATCCCCTCAGCGTGGAGGACCTGGAGCGGC
 TGAAGCTCGTTCCAGCAGTGTGTACAAGCCGTGCCAGCTGGAAGAGGAGAGGGACCAGCTAATCCA
 CGAGCTCGTGCTACTCCGGGAGCCAGCCCTGCAGGAGGTGCAGCAAGTCCACCAGGACATCTGGCTGCC
 TACAAGCTCCACGCACAGGCAGAGCTGGAGAGGGACGGGCTCAGGGAGGAGATCCGGACGGTGAAGCAGA
 AGCTGTTCAAGGTGACCAAGGAATGCGTGGCTTACCAATACCAGCTGGAGTGCCGTCAGCAGGATGTGGC
 TCAGTTTGCCGACTGCAGGGAAGCGCTGACCACTCGGGCAGCCCAGCTCTCGGAAGAACTGACCCAGCTC
 CGAGATGCCTGTGAGAAGCAGAAGGAGCAGTTACAGCAACAACCTAGAAGCACCCCGACCCAGAGCGATG
 GGCACCTTCTCCAGGAGAGCCGACGGCTGTGACACAGTTTAAAATCTCATGGCCGAGAGCCGCCAGGG
 CCTGGAGGAGGAGTATGAGCCTCAGTGTCTCCGGCTCTGAAAGGAAAGAGGGCCGGGACCAAAGCTCTA
 CAGGACACCCAGGCGGAGATCCAGGAGATGAGGGAGGCTCTGCGACCCCTGGAAGCAGAGGCCCGGCAGC
 TCCAACCTCAGAACAGGAACCTGGAGGACCAGATCACGCTCGTGAGGCAAAAACGGCATGAAGAGTTCA
 ACAGTACAGGGGAGCAGCTGGAGGAGATGGAGGAGAGACAGAGGCAGTTGCGCAGTGGGGTCAAGTTTCAG
 CAACAGAAGAACAAGGAGATGGAGCGGCTGAGGACGAGCCTTGCTGAAGAGCTTTCCACATATAAGGCTA
 TGCTACCAAGAGTCTGGAACAGGCTGATGCACCACTTCTCAGGCAGGTGGAGTCGAGGCCCAATCCCC
 AGGGACTGTT

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215638 protein sequence
 Red=Cloning site Green=Tags(s)

MASPEPLRGGD GARASREPHTTESFPLQESESPKEAKTFNPEATLSLEGTVNLEDILYLGASGDFEESFY
 EEEYEKPAQTLFIDESRQPDEALGLEEPVRPEEMLSVEESVTPDEVQISEQPVEPAKSPTACEGEMVATE
 GSLPAQIPNTEEDPLSVEDLERLEARFQQCVQAVSQLEEERDQLIHEL VLLREPALQEVQQVHQDILAA
 YKLHAQAE LERDGLREEIRTVKQKLFKVTKECVAYQYQLECRQQDVAQFADCREALTTRAAQLSEELTQL
 RDACQKQKQLQQLEAPPTQSDGHFLQESRRLSTQFENLMAESRQGLEEEYEPQLRLRLERKEAGTKAL
 QDTQAEIQEMREALRPLEAEARQLQLQNRNLEDQITLVRQKRDEEVQQYREQLEEMEERQRLRSVQVQ
 QQKNKEMERLRTSLAEELSTYKAMLPKSLEQADAPTSQAGGVEAQSPGTV

TRTRPLEQ**KL**I**SEEDLA**AND**ILDYK**DDDD**KV**

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_023485

ORF Size: 1413 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_023485.1](#), [NM_023485.2](#), [NM_023485.3](#), [NP_075974.3](#)

RefSeq Size: 2038 bp

RefSeq ORF: 1413 bp

Locus ID: 68828

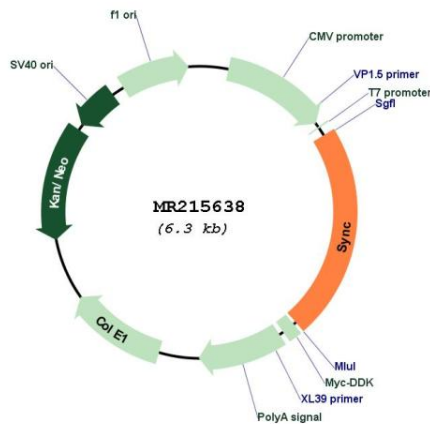
UniProt ID: [Q9EPM5](#)

Cytogenetics: 4 63.26 cM

MW: 53.7 kDa

Gene Summary: Atypical type III intermediate filament (IF) protein that may play a supportive role in the efficient coupling of mechanical stress between the myofibril and fiber exterior. May facilitate lateral force transmission during skeletal muscle contraction. Does not form homofilaments nor heterofilaments with other IF proteins.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215638