

Product datasheet for **RC228394**

SYNC (NM_001161708) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SYNC
Synonyms:	SYNC1; SYNCOILIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >RC228394 representing NM_001161708
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGCCAGCCCGAGCCCCGGCGCGCGGGGACGGCGCCGCCAGGCCGCGAGGAAAAACAAGTAGAGG
 CCAATTCTCTCTTCCAAAGAACTCTGGATCCCTAAATGAGGCAGAAGCCTTGAACCCAGAAGTTACTCT
 ATCTTCAGAGGGTCTTAAACCTCGAAGACATTCTCTACCTGGAGGACACAGGTGACCTTGATGAGACA
 CTCTATGTGAAGAGACTGAGAAGGCAGAGGAGGCCCTGTATATTGAGGAGGCCATGCAGCCAGATGAGG
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 GATACAGTTTGTGGAGGGGCCGTGGAGCCAGGAAAGCCACAAGCCAGAGCACGTTGTTTATGAGGGA
 GAGACAGTCACAAGGGCGGAGAAATCTAACCTGAGGAGAGCCTCAGAGCCGAGCAGAGCCCCAGCGTGG
 AGGAGAACCTGAGCATAGAGGACCTGGAATTGCTAGAGGGGCTTCCAGCAGTGTGTCCAAGCTGTGGC
 CCAGCTGGAAGAGGAGAGGGATCAGCTCATCCATGAGCTTGATTGCTCCGGGAACAGCCCTGCAGGAG
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 GCCTAAGGGAGGAGATCCGGCTGGTCAAGCAGAAGCTTTTCAAAGTGACAAAGGAATGTGTGGCCTACCA
 ATACCAGCTGGAGTGCCGCCAGCAGGACGTGGCTCAGTTTGCCGATTTCCGGGAAGTGCTGACTACAAGG
 GCAACCCAGCTCTCAGAGGAACTGGCCAGCTCCGGGATGCCTATCAGAAGCAGAAGGAGCAGCTGCGGC
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 GTTTGAAAATCTCATGGCAGAGAGCCGCCAGGACCTGGAGGAGGATATGAGCCTCAGTTCTGCGGCTC
 CTAGAGAGGAAAGAAGCTGGGACCAAAGCTCTGCAGAGAACCAGGCTGAGATCCAGGAAATGAAGGAGG
 CTCTGAGACCCCTGCAAGCAGAGGCCCGCAGCTCCGCCTGCAAAACAGGAACCTGGAGGACCAGATCGC
 ACTTGTGAGCAAAAACGAGATGAAGAGGTGCAGCAGTACAGGGAACAGCTGGAGGAAATGGAAGAACGC
 CAGAGGCAGTTAAGAAATGGGGTGCAACTCCAGCAACAGAAGAACAAAGAGATGGAACAGCTAAGGCTCA
 GTCTTGCTGAAGAGCTCTACTTATAAGGGCTGTTTAGAAATATATGGCCAAATCTGTAACCCGGAAAC
 AGCAAAAACTTCTTAGCAAAGGATCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228394 representing NM_001161708
 Red=Cloning site Green=Tags(s)

MASPEPRRGDGAQAARKTRVEANSPLPKNSGSLNEAEALNPEVTLSEGLNLEDILYLEDTGDLDET
 LYVQETEKAEALYIEEAMQPDALHVEEPGNPEETVCVEETTEPDRIQFVEGPVEPGKPTSPHVVYEG
 ETVTRAESNPEESLRAEQSPSVEENLSIEDLELLEGRFQQCVQAVQLEEEERDQLIHELVLREPALQE
 VQQVHQDILAAYKLHAQAELEERDGLREEIRLVKQKLFKVTKECVAYQYQLECRQQDVAFADFREVLTTR
 ATQLSEELAQLRDAYQKQKEQLRQQLAAPPQRDGHFLQESRRLSAQFENLMAESRQDLEEEYEPQFLRL
 LERKEAGTKALQRTQAEIQEMKEALRPLQAEARQLRLQNRNLEDQIALVRQKRDEEVQYREQLEEMEER
 QRQLRNGVQLQQKNKEMEQLRLSLAEELSTYKGCLEIYGQICNPETAKNFLAKDH

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8062_e01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001161708

ORF Size: 1428 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.

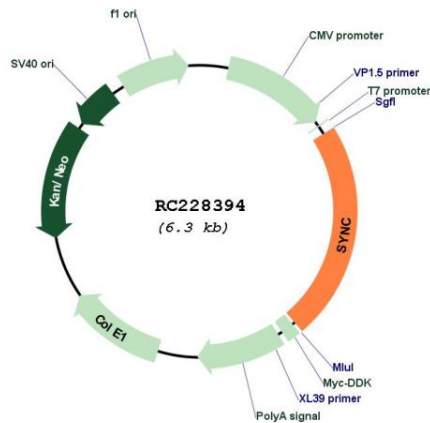
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001161708.1](#), [NP_001155180.1](#)

RefSeq ORF: 1431 bp

Locus ID:	81493
UniProt ID:	Q9H7C4
Cytogenetics:	1p35.1
MW:	54.7 kDa
Gene Summary:	This gene encodes a member of the intermediate filament family which contains an N-terminal head domain, followed by a central coiled-coil region and a short C-terminal tail. The protein is highly expressed in skeletal and cardiac muscle. The protein links the dystrophin associated protein complex (DAPC) to desmin filaments in muscle and may have a structural role in striated muscle. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2009]

Product images:



Circular map for RC228394

Western validation with an anti-DDK antibody
 * L: Control HEK293 lysate R: Over-expression lysate