

## Product datasheet for **RG228394**

### **SYNC (NM\_001161708) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SYNC (NM_001161708) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYNC
Synonyms:	SYNC1; SYNCOILIN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG228394 representing NM\_001161708  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCAGCCCGAGCCCGCGCGCGGGACGCGCCGCCAGGCCGCGAGGAAAACAAGAGTAGAGG  
 CCAATTCTCTCTTCCAAGAAGCTCTGGATCCCTAAATGAGGCAGAAGCCTTGAACCCAGAAGTTACTCT  
 ATCTTCAGAGGGGTCTTAAACCTCGAAGACATTCTCTACCTGGAGGACACAGGTGACCTTGATGAGACA  
 CTCTATGTGCAAGAGACTGAGAAGGCAGAGGAGGCCCTGTATATTGAGGAGGCCATGCAGCCAGATGAGG  
 CTCTGCATGTGGAGGAGCCTGGGAATCCAGAGGAGACAGTGTGTGTGGAGGAAACCACGGAGCCAGATCG  
 GATACAGTTTGTGGAGGGCCCGTGGAGCCAGGAAAGCCACAAGCCAGAGCACGTTGTTTATGAGGGA  
 GAGACAGTCACAAGGGCGGAGAAATCTAACCTGAGGAGAGCCTCAGAGCCGAGCAGAGCCCGAGCGTGG  
 AGGAGAACCTGAGCATAGAGGACCTGGAATTGCTAGAGGGCGTTTCCAGCAGTGTGTCCAAGCTGTGGC  
 CCAGCTGGAAGAGGAGAGGGATCAGCTCATCCATGAGCTTGTATTGCTCCGGGAACAGCCCTGCAGGAG  
 GTACAGCAAGTCCATCAAGACATCCTGGCTGCCTACAAGCTCCATGCCCAAGCAGAGCTGGAGAGAGATG  
 GCCTAAGGGAGGAGATCCGGCTGGTCAAGCAGAAGCTTTTCAAAGTGACAAGGAATGTGTGGCCTACCA  
 ATACCAGCTGGAGTGCCGCCAGCAGGACGTGGCTCAGTTTGCCGATTTCCGGGAAGTGCTGACTACAAGG  
 GCAACCCAGCTCTCAGAGGAAGTGGCCAGCTCCGGGATGCCTATCAGAAGCAGAAGGAGCAGCTGCGGC  
 ACAACTAGAAGCCCTCCAAGCCAGAGGGATGGGCACCTTCTCCAGGAAAGCCGGCGACTCTCTGCCCA  
 GTTTGAAAATCTCATGGCAGAGAGCCGCCAGGACCTGGAGGAGGAGTATGAGCCTCAGTTCTGCGGCTC  
 CTAGAGAGGAAAGAAGCTGGGACCAAAGCTCTGCAGAGAACCAGGCTGAGATCCAGGAAATGAAGGAGG  
 CTCTGAGACCCCTGCAAGCAGAGGCCCGCAGCTCCGCCTGCAAAACAGGAACCTGGAGGACCAGATCGC  
 ACTTGTGAGGCAAAAACGAGATGAAGAGGTGCAGCAGTACAGGGAACAGCTGGAGGAAATGGAAGAACGC  
 CAGAGGAGTAAAGAAATGGGGTCAACTCCAGCAACAGAAGAACAAGAGATGGAACAGCTAAGGCTCA  
 GTCTTGCTGAAGAGCTCTACTTATAAGGGCTGTTTAGAAATATATGGCCAAATCTGTAACCCGGAAAC  
 AGCAAAAACCTCTTAGCAAAGGATCAC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG228394 representing NM\_001161708  
 Red=Cloning site Green=Tags(s)

MASPEPRRGDGAQAARKTRVEANSPLPKNSGSLNEAEALNPEVTLSEGLNLEDILYLEDTGDLDET  
 LYVQETEKAEALYIEEAMQPDEALHVEEPGNPEETVCVEETTEPDRIQFVEGPVEPGKPTSPEHVYEG  
 ETVTRAEKSNPEESLRAEQSPSVEENLSIEDLELLEGRFQQCVQVAQLEEERDQLIHEL VLLREPALQE  
 VQQVHQDILAAYKLHAQAE LERDGLREE IRLVKQKLFKVTKECVAYQYQLECRQQDVAQFADFREVLTTR  
 ATQLSEELAQLRDAYQKQKQLRQQLEAPPSQRDGHFLQESRRLSAQFENLMAESRQDLEEEYEPQFLRL  
 LERKEAGTKALQRTQAEIQEMKEALRPLQAEARQLRLQNRNLEDQIALVRQKRDEEVQQYREQLEEMEER  
 QRQLRNGVQLQQQKNKEMEQLRLSLAEELSTYKGCLEIYGQICNPETAKNFLAKDH

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-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.

**RefSeq:** [NM\\_001161708.1](#), [NP\\_001155180.1](#)

**RefSeq Size:** 3413 bp

**RefSeq ORF:** 1431 bp

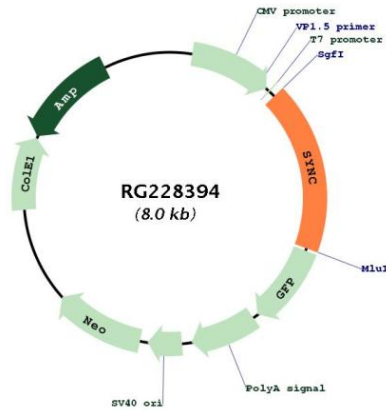
**Locus ID:** 81493

**UniProt ID:** [Q9H7C4](#)

**Cytogenetics:** 1p35.1

**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 RG228394