

Product datasheet for **SC321564**

SFXN3 (NM_030971) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SFXN3 (NM_030971) Human Untagged Clone
Tag:	Tag Free
Symbol:	SFXN3
Synonyms:	BA108L7.2; SFX3; SLC56A3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_030971.3
GGAGGGCCCGCGGCGACAGCGGAGGCAGAGAGGAAGCGGTTCTGAGAGCTTCAGAGAG
CGATGGAAAGCAAATGGGTGAATTGCCTTTAGACATCAACATCCAGGAACCTCGCTGGG
ACCAAAGTACTTTCTGGGCAGAGCCCGGCACTTTTCACTGTTACTGATCTCGAAATC
TGCTGTGTCCGGGGCACAGCTGGAAGCTTCTCGGAACATCGTGCAGAACTACAGGGCCG
CCGTGGTGACCCAGGGATCACCAGGACCAGCTGTGGAGGGCCAAGTATGTGTATGACT
CCGCCTTCCATCCGGACACAGGGGAGAAGGTGGTCTGATTGGCCGCATGTCAGCCAGG
TGCCCATGAACATGACCATCACTGGCTGCATGCTCACATTCTACAGGAAGACCCCAACCG
TGGTGTCTGGCAGTGGGTGAATCAGTCCTTCAATGCCATTGTTAACTACTCCAACCGCA
GTGGTGACACTCCCATCACTGTGAGGCAGCTGGGGACAGCCTATGTGAGTGCCACCACTG
GAGCTGTGGCCACGGCCCTGGGACTCAAATCCCTACCAAGCACCTGCCCCCTTGGTGC
GCAGATTTGTGCCCTTTCAGCAGTGGCAGCTGCCAACTGCATCAACATCCCCTGATGA
GGCAGAGAGAGCTGCAGGTGGGCATCCCGGTGGCTGATGAGGCAGGTGAGAGGCTTGGCT
ACTCGGTGACTGCAGCAAGCAGGGAATCTCCAGGTGGTGATTTCAAGAATCTGCATGG
CGATTCCTGCCATGGCCATCCCACCACTGATCATGGACACTCTGGAGAAGAAAGACTTCC
TGAAGCGCCGCCCTGGCTGGGGGCACCCCTGCAGGTGGGACTGGTGGGCTTCTGCCTGG
TATTTGCAACCCCTGTGCTGTGCCCTATTCCTCCAGAAAGAGCTCCATACACATAAGCA
ACCTGGAACCAGAGCTGAGAGCTCAGATCCATGAGCAAAACCCAGCGTTGAAGTGGTCT
ACTACAACAAGGGGCTTTGAGGAGGGTCAGCCTCTGTCCCTCCCTCACTTCTTGGGCT
GCTGCTTAGTGGAGTCAATGTCACCCCTACCACTTGGCTATCTGCCTAGCACTGGGCAGG
GGCCTTGGTGGGCAGATGGCAATTGAGGGTAGCAACCTATTAGGGTGGGGGAGGGACCTC
ATAAGGCTTTTCTCCCTTCTCTGGTTTCAAAGATCAGAGCACATAACCCCTCCTGTGC
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AGCTAGAAGCAGGCATGCTAGCCTAGTATGTTCTGACATCTGGCTTCCCTTCTCAGCCTC
ATGTCCACCTGCCTGCCAGCCAGGCTACAGGTGTGACTTCTTCTCTAAACTGTTACACC
AGCCAAGTTATTTTTGATGGCACCTCATCCCTTAGAAAATAGGAGGAGCCCAAGGATCT
CAGGACAGAGACTTATAGACACTAGTAGGACAAAGCGGGCTGAATCCTTCAGGTTTCTGA
TACCTAGCTCCCAAGCTGACTGGGCTGGCAGAGGAGAACATGTTGAGACAAGGGAGGCA
GGGACTTATGCATCCCTCAGTGCCATCCCTTGTATCCTGGAATAGCTCCATTTCCCTC
CTCCTCTCTACCAGACAAAGGAGTGCCTGTGCCTGTACTGCCCTCGCTGTCTCCCCAC
CACCTACTTGACAGCGTGGGCATCTTCAGGCACAGCCTTGGGAGTTCCCTGGTGTCTCT
GACATCATGACCTCAAATCTAAATCCTCCAATCCAACCTCCCTTCCCAACAAAAGGCC
ACAGAGGCAGAGCAAGCATTCCCTTTAAGAGCTTCCACTGCACCCCTCCCAAGGGACA
CAGCGGTAGGAATGGTGTAAACTCCACAGGTATCAGAGAGGGTGAAGTAGGACATCC
TCAAGGGCAGCTAGGCCCGAATGTACAATGTTAAGACAGGGAATTTTGTGTCCATTGA
CTTTTTTTTTTTTTTAAATGGAGTTTCACTATTTTGGCCAGGCTGGAGTGCATGGTGC
GATCTTGGCTCACTGCAACCTCTGCCTCCTGGGTTCAAGTGATTCTTGCCTCAGTCTC
CCGAGTAGTGGAAATACAGGTGTGTGCTACCACATCTGCTAGTTTTGTATTTTAGCA
GAGATGGGGGTTTCAACATGTTGGCCAGGCTAGTCTCGAACTCCTGACCTCAGGTGATCC
ACCTGCCTTGGCCTCCCAAGCACTGGGATTACAAGCATGAGCCACTGTGCCAGCCTGT
TCCACTGACATTTCTTAGACATTAGCAAAAACCCACCTTAACCTCTTTTCTTTCTTGA
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CAGTGGCTAGTCAAATAAAATATGGGCTTGGGGATGGAATGGTGGTGGTAAAGTTCACA
GAGTGTAGTTAGATCCCAACTCCATGACCTCTGGCTCAGTGGTGGTGGGCGAGGGCA
GATGAAAGGGCTTCAAGTGGAACTCTGAGAGCATTTTCTGTTCCCTATCAACCGCC
CCCAGTGATAACATCTGTGAAGCCAGCCATTACTCAATAAACTGCAAACCTGTCTAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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Restriction Sites:

Please inquire

ACCN:

NM_030971

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_030971.3</u> , <u>NP_112233.2</u>
RefSeq Size:	3129 bp
RefSeq ORF:	978 bp
Locus ID:	81855
UniProt ID:	<u>Q9BWM7</u>
Cytogenetics:	10q24.31
Domains:	Mtc
Protein Families:	Transmembrane
Gene Summary:	Mitochondrial serine transporter that mediates transport of serine into mitochondria, an important step of the one-carbon metabolism pathway (PubMed:30442778). Mitochondrial serine is converted to glycine and formate, which then exits to the cytosol where it is used to generate the charged folates that serve as one-carbon donors (PubMed:30442778). [UniProtKB/Swiss-Prot Function]