

## Product datasheet for **SC100260**

### **SRXN1 (NM\_080725) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SRXN1 (NM_080725) Human Untagged Clone
Tag:	Tag Free
Symbol:	SRXN1
Synonyms:	C20orf139; Npn3; SRX; SRX1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_080725, the custom clone sequence may differ by one or more nucleotides

```
ATGGGGCTGCGTGCAGGAGGAACGCTGGGCAGGGCCGGCGGGTCTGGGGGGCGCCGAGGGGCCGGGC  
CGAGCGGGCGCGCAGGGCGGCAGCATCCACTCGGGCCGCATCGCCGGTGCACAACGTGCCGCTGAG  
CGTGCTCATCCGGCCGCTGCCGTCCTGTTGGACCCCGCCAAGGTGCAGAGCCTCGTGGACACGATCCGG  
GAGGACCCAGACAGCGTGCCCCCATCGATGTCCTCTGGATCAAAGGGGGCCAGGGAGGTGACTTCT  
ACTCCTTTGGGGGCTGCCACCGCTACGCGGCCTACCAGCAACTGCAGCGAGAGACCATCCCCGCAAGCT  
TGTCAGTCCACTCTCTCAGACCTAAGGGTGTACCTGGGAGCATCCACACCAGACTTGCAGTAG
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_080725 unedited  
 TCAAAATATTGTAATACGACTTCACTATAGGGCGGCCGGAATTCGCACCAGGCAGGAGG  
 AACGCTGGGCAGGGCCGGCGCGGGTTCGGGGGGCGCCGAGGGGCCGGCCGAGCGGCGG  
 CGCGCAGGGCGGCAGCATCCACTCGGGCCGCATCGCCCGGTGCACAACGTGCCGCTGAG  
 CGTGCTCATCCGGCCGCTGCCGTCCGTGTTGGACCCGCCAAGGTGCAGAGCCTCGTGGA  
 CACGATCCGGGAGGACCCAGACAGCGTGCCCCCATCGATGTCTCTGGATCAAAGGGGC  
 CCAGGGAGGTGACTACTTCTACTCCTTTGGGGGCTGCCACCGCTACGCGGCCTACCAGCA  
 ACTGCAGCGAGAGACCATCCCCGCAAGCTTGTCCAGTCCACTCTCTCAGACCTAAGGGT  
 GTACCTGGGAGCATCCACACCAGACTTGCAGTAGCAGCCTCCTTGGCACCTGCTGCCACC  
 TTCAAGAGCCCAGAAGACACACCTGGCCTCCAGCAGGCTGGGCCATGCAGAAGGGATAGC  
 AGGGGTGCATTCTTTGCACCTGGCGAGAGGGTCTGACTCTGGGCACCCCTCTCACCGG  
 CTACAAGCCTTGGACTCACTGTACAGTGTGGGAGCCCCAGTTCCCACCTCTGTGACAAT  
 AGGATCATGGCCTTACCCTTGAAGCATTACCGAGAAGGAGAACAGAGATGGGCTTGAAGA  
 GCCACGTGCTGCCGGCTCAAATTTCCAAGGACAAGGATCCCTCTGCATTTTTGTCTATG  
 TAACCTCTTATATGGACTACATTAGCTGCANGAAAGGAAACCTTGATTGCAGTGGTTT  
 AAACAACAGAAGATGNTTTTACATAGCATGGATCTGGAGATGGGTGGCTATGGTATTGT  
 TTTCACTCACGAGTAGGGGTACGTCTGGATCTTTTGTNATTCATG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_080725 unedited  
 TTTATGGACCGCGCCGATTCTAGATCGAGTTTTTTTTTTTTTTTTTTTAAATTAATAAA  
 CTTTTATTTTGAATGATACTAGATTTACAGAGAAGTTCAGAGATAGTACAAAGAGTTC  
 CTGTATACCTTACCCAGCCTACCCCAAGGTCAACATTTACATCACCATGGTACATCT  
 GTCAAAACCAAGAGACTGAAATTGGTATATTAATAAAATTCAGACTTTTTTTCAGATTTT  
 CAATTTTCCCACTAATGTCTGTTTTTGTCCAAGACCAATCCAGGATGCCACATTGCA  
 CTGAAGACACTCTCCCTTTTCAATTCTATTACTGGTCACCTCAGTCAACTTTCCCGGGGA  
 AAGAGAATGCATGGGAAAAGCTCTTGTCTTATTATTGAACTGGAGAACTGAGGCTTAA  
 AAGTGCCGAGTGACCAAGTTCCCTTAGAGGGCAGTGAGAACAAAGGCCTGCCTTACTCTGT  
 TCCCTTTCCCAAGGACTCTTGGTTTTTTCAGAAGCCCTCTGGAATGTCTACCTGGCCTA  
 ACCCCATACCAGCAGTGCAGACAAGGAGGCACTCCTACTACAGTGGTCCAGCCCATGGA  
 GAGACTCACTTCTGCCCAACACCTCTTCCCCTAGACCCTGAGGGCCAGGACAATGTCT  
 TAGTGCCTTCCAACTTGGCAGAGTGAGGCCCATGAGACAGAGAGAAAGGGGGAAGAGGG  
 AAATACCCTTATCCAAATNAATACCCATCCAAAATTTTGTGATAGGTGAAAAATGGCC  
 ACNAGCTCTTTGTGGNTCCCTCATCAAGACATGTAGTCTGTTTCTCATCCCTTGAATCT  
 GGGTAAAGCCTTGTGATTTGCTCTGACCAAGAAGTCTAGCAGAAGTGACACTGTCCTAGT  
 CCCAGTTCAGCCNAGAAGTCAAGAGTCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_080725

**Insert Size:**

2650 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_080725.1</a> , <a href="#">NP_542763.1</a>
<b>RefSeq Size:</b>	2580 bp
<b>RefSeq ORF:</b>	414 bp
<b>Locus ID:</b>	140809
<b>UniProt ID:</b>	<a href="#">Q9BYN0</a>
<b>Cytogenetics:</b>	20p13
<b>Gene Summary:</b>	Contributes to oxidative stress resistance by reducing cysteine-sulfinic acid formed under exposure to oxidants in the peroxiredoxins PRDX1, PRDX2, PRDX3 and PRDX4. Does not act on PRDX5 or PRDX6. May catalyze the reduction in a multi-step process by acting both as a specific phosphotransferase and a thioltransferase.[UniProtKB/Swiss-Prot Function]