

## Product datasheet for **SC120336**

### **SORCS1 (NM\_052918) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SORCS1 (NM_052918) Human Untagged Clone
Tag:	Tag Free
Symbol:	SORCS1
Synonyms:	hSorCS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_052918, the custom clone sequence may differ by one or more nucleotides

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ATGGGAAAAGTTGGCGCCGGCGGGCTCCCAAGCCGGCTGAGCGCGCTCCTCGCCGGCGGGGCTCT
TGATCCTCTGCGCCCCGGGCGTCTGCGCGGGCGGCTCCTGCTGCCCTCGCCGCACCCAGCTCCGCTCC
ACGCTCGGCTCGACCCCTAGGGGCTTTTCCACCAGGGGCGGCCAGGCAGGGCTCCTGCCACGCCCTG
CCCCTCGTAGTGCCTCCCTGTTCTCAGTGGCCCCGGGGACCGAGCGCTATCCTGGAGCGGGCTCGG
GCACTGGGCATCCATGGCGTTGCTGCACGCTCCGGCCGGAGGAGAGCGGAGCGGATCAGGAGAA
GGCAGAACGGGGAGAGGGCGGAGTCCGAGCCCCGGGGAGTGTAAAGATGGAGGGCAGCAGGAGCCT
GGGACTCGGGAGCGGGACCCGGACAAAGCCACCCGCTTCCGGATGGAGGAGCTGAGACTGACCAGACCA
CGTTTGCCTGACGGGAGACTCAGCACACAACCAAGCCATGGTCCACTGGTCTGGCCACAACAGCAGCGT
GATTCTCATTTTGACAAAGCTCTATGACTATAACCTGGGGAGCATCACAGAGAGCTCGCTTTGGAGGTCA
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ATGTGTGCTCTACCAACAAGCGTAAGATAATGTTACTCACAGACCCGGAGATTGAGAGCAGTTTATTGAT
CAGCTCAGATGAAGGGCAACTTATCAAAGTACCGGCTGAACTTCTACATTCAAAGCTTGTCTTTTTCAC
CCCAAACAAGAAGACTGGATTCTGGCATACAGTCAAGACCAAAAGTTATACAGCTCTGTGAATTTGGGA
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TGCATTTGCCAAATGAAGCTTCCGAAATATGCTTTGCCAAGGACATGCATGTTATCAGACCCGATGAG
AATCAGGTGTTTCGAGCGGTCCAAGAAATGGAACCAAGAAATGACACGTACAACCTCTACATCTCAGACACAC
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CGACCTCTATGAGGTAGCAGGGATAAAGGGAATGTTCTTGCTAACAAGAAGATTGACAACCAAGTGAAG
ACTTTTCATACATATAACAAAGGCAGAGACTGGCGTTTGTGTCAGGCGCCGGACACGGATCTAAGGGGGG
ACCCCGTGCAGTCTTGTGCCCTATTGCTCACTACACCTTACCTGAAGGTCTCTGAGAATCCCTACAC
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ATCAGGGATCATTGCCAGCAAAGACACAGCTCCAAGCATCATAGTGGCATCAGGTAATATAGGTTCTGAA
TTGTCCAGACACTGACATCAGCATGTTTGTCTCTTCAGATGCAGGGAACACCTGGAGACAGATCTTTGAAG
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TTTGTGGATGGGTTCTGGGTGAGCCTGGAGAAGAGACTCTCATCATGACAGTGTGGACACTTCAGCC
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TTGTCTTTTTCTCAAACCTGGATGACTACAACCCGGACATCCCTGAGTGGAGGAGGGACATCGGTGCG
TCATCAAAAAATCCCTGGTGAAGCCACAGGGTTCAGGCCAGCACATCCTGGTGGCGGTGCTCCCTGG
CTTACCCACCACTGTGAACTCTTTGTCTACCCTATCAGGATCCAGCTGGAGAAAACAAAAGGTCAACT
GATGACTGGAGCAGATATCAGAATTGCTGATCCACACGCTCAACCAAACACTCAGTACACTTCGAGCTGA
AGCCAGGAGTCCGAGTCTTGTCCATGCTCACTTAAACAGCGGCCCCCTGGTGGACCTCACTCAAC
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AAGTTTAAAAGGAGAGTAGCTTTACCCTCCCCTCCCTCCCCTTCTACTCAACCTGGTACTCATCTCTCC
GATTGCAAAGAGCAAGACACGCCACTCCGCCTTCAACGCCAAAGCGGGATCTGTGGGGCACAGTATGC
AATTTAA
    
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**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_052918 unedited
GCTGCACCAATTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACGAGGCAGAGCTC
GTGCCGCCACCTTCGTTCTGGGACCCCTCTCTCCGCTGCTCTTCGCTCCCAGATGGGAA
AAGTTGGCGCCGGCGGGCTCCCAAGCCGACTGAGCGCGCTCTCGCCGGCGCGGGGC
TCTTGATCCTCTGCGCCCCGGCGTCTGCGGGCGGGCTCCTGCTGCCCCCGCCGACC
CCAGCTCCGCTCCAGCTCGGCCTCGACCCTAGGGGCTTTTCCACCAGGGGCGGCCAG
GCAGGGCTCCTGCCACGCCCTGCCCTCGTAGTGGTCCCCTGTTCTCAGTGGCCCCCG
GGGACCGAGCGCTATCCCTGGAGCGGGCTCGGGGCACTGGGGCATCCATGGCGGTTGCTG
CACGCTCCGGCCGAGGAGACGGAGCGGAGCGGATCAGGAGAAGCAGAACGGGGAGAGG
GCGCGAGTCGGAGCCCCCGGGGAGTGCTAAGAGATGGAGGGCAGCAGGAGCCTGNGACTC
GGGAGCGGGACCCGGACAAGCCACCCGCTTCCGGATGGAGGAGCTGAGACTGACCAGCA
CCACGTTTGCCTGACGGGAGACTCAGCACACAACCAAGCCATGGTCCACTGGTCTGGCC
ACAACAGCAGCGTGATTCTATTNTGACAAAGCTCTATGACTATAACCTGNGGAGCATCA
CAGAGAGCTCGCTTTGAAAGTCAACCGATTATGGAACAACCTATGAGAAGCTGAATGATN
AAGTTGGTTTAAAACATTTTGTGAGCTATCTCTATGTGTGTCCTACCAACAGCGTNAGA
TAATGTTACTCACAGACCCCGAGATTGAGAGCAGTTNATTGATCAGCTCANATGAAGGGN
CACTCATCACAAAGTACCGGCTG
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_052918 unedited GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTACTGGCG TCCTCCATTCAAACATTTACATAGGTAGGGATTCTTTTGTGCTTTGATTCTCAGCAACT ATGGAAATACTTCTGGCAAAATAGGAAACAGAACAAAGGAAAGAAAAAACACAA AGTTAGTGGTCATGAAGGATGATGACTTGACAAGAGCGAAATCTTTCTGATCAGCAG GTCGCCTGTAGCCTTTGGGGTTTTCTTAAATTGCATACTGTGCCCCAGCAGATCCCCG CTTTGGCGTTGAAGCGGAGTGGCGTGTCTTGTCTTTGCAATCGGAGAGATGAGTCACC AGGTTGAGTAGAAGGGGAGGGAGGGTAAAGCTACTCTCTTTTAACTTGTAGAT GACGAACACTGCCAGCCCCACAAACACCACTGAGAGCAGCATCAGCATGGCAGATCCACT GTGGGTTGGAGTGAGGTCCACCAGGGGGCCGCTGTTAAGTGAGCAGCATGGACAAGGAC TCGGACTCTGGCTTCAGCTCGAAATGTACTGAGTTTTGGTTGAGCGTGTGGATCAAGCA TTCTGATATCTGCTCCAGGTCATCAGGTGACCTTTTGTCTCCAGCTGGATCCTGATA GGGTAGGACCAAGAGTTCACCCATGGTGGGTAACCAGGGAGCACCGGCCACGAATGT GCTGGCTGGAACCCCTGTGGCCTTACCAGGGATTTTTGAGACATACCGAGTTCCT CCTCCCTCGGGGAGGCCGGTGTATCATCCCGTTTGGAGAAAAGGACAGCCAAAAA ACCGGGATTCCCAAATCTGCGAAGGGCTTTGGGGCTTGAGAGGCCATTCCCGCTGAAACC TGCTGGGGGATTATTCCTTCGAAAAAACGAAGAATCTTCTCCAAGGAGCAAGGCTC CGGTGTTCTCCCCACAATGAGGGTCCCATTTGTTGGCA
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_052918
<b>Insert Size:</b>	4500 bp
<b>OTI Disclaimer:</b>	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).
<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_052918.3</a> , <a href="#">NP_443150.3</a>
<b>RefSeq Size:</b>	7272 bp
<b>RefSeq ORF:</b>	3507 bp
<b>Locus ID:</b>	114815
<b>UniProt ID:</b>	<a href="#">Q8WY21</a>
<b>Cytogenetics:</b>	10q25.1
<b>Domains:</b>	PKD, BNR, VPS10

**Protein Families:** Druggable Genome, Transmembrane

**Gene Summary:** This gene encodes one family member of vacuolar protein sorting 10 (VPS10) domain-containing receptor proteins. The VPS10 domain name comes from the yeast carboxypeptidase Y sorting receptor Vps10 protein. Members of this gene family are large with many exons but the CDS lengths are usually less than 3700 nt. Very large introns typically separate the exons encoding the VPS10 domain; the remaining exons are separated by much smaller-sized introns. These genes are strongly expressed in the central nervous system. Two of the five family members (sortilin and sortilin-related receptor) are synthesized as preproteins; it is not yet known if this encoded protein is also a preproprotein. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) differs in the 3' UTR and coding sequence compared to variant 2. The resulting isoform (a) has a shorter and distinct C-terminus compared to isoform b. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.