

## Product datasheet for **SC118300**

### Sortilin (SORT1) (NM\_002959) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Sortilin (SORT1) (NM_002959) Human Untagged Clone
Tag:	Tag Free
Symbol:	Sortilin
Synonyms:	Gp95; LDLCQ6; NT3; NTR3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_002959 edited  
 GGCGGGCGCGCCGGGCGGCAGGTGTCGGCGTCGGCGGCATTTCGGCGGCGATGGAGCGGCC  
 CTGGGGAGCTGCGGACGGCCTCTCGCGCTGGCCCCATGGCCTCGGCCTCCTCCTCCTCT  
 GCAGCTGCTGCCGCGCTGACCCCTACGCCAGGACCGGCTGGACGCGCCGCCGCCGCCGC  
 TGCGCCGCTGCCGCGTGGTCTGGCCCCATCGGGTGAGCTGGGGGTGCGGGCGGCCGC  
 AGCCGGGGGCGGTTTCCCGCGCGCGCTTGGCGTCGCAGCGCGCCGGGCGAGGACGA  
 GGAGTCCGGCCGGTCCGGGACTTCGTGCCAAGCTGGCCAACAACACGCACAGCATGT  
 GTTTGATGATCTCAGAGGCTCAGTATCCTTGTCTGGTGGAGATAGCACTGGGTTCAT  
 TCTAGTCTTGACTACCTTCCATGTACCACTGGTAATTATGACTTTTGGACAGTCCAAGCT  
 ATATCGAAGTGAGGATTATGGGAAGAACTTAAAGGATATTACAGATCTCATCAATAACAC  
 CTTTATTCGGACTGAATTTGGCATGGCTATTGGTCTGAGAAGTCTGAAAGGTGGTGT  
 AACAGCAGAGGTGTCTGGAGGAAGTCGTGGAGGAAGAATCTTCAGATCATCAGATTTTGC  
 GAAGAATTTGTGCAACAGATCTCCCTTTTCATCCTCTCACTCAGATGATGATAGCCC  
 TCAGAATCTGATTATCTTTAGCTCTCAGCACTGAAAAATGGCCTGTGGGTGTCCAAGAA  
 TTTTGGGGAAAAATGGGAAGAAATCCACAAAGCAGTATGTTTGGCCAAATGGGGATCAGA  
 CAACACCATCTTCTTTACAACTATGCAAAATGGCTCTGCAAAGCTGACCTTGGGCTCT  
 GGAATTATGGAGAACTTCAAGCTTGGGAAAAAGCTTCAAAACTATTGGTGTGAAAATCTA  
 CTCATTTGGTCTTGGGGACGTTTCTTTTTGCCTCTGTGATGGCTGATAAGGATACCAC  
 AAGAAGGATCCACGTTTCAACAGATCAAGGGGACACATGGAGCATGGCCAGCTCCCTC  
 CGTGGGACAGGAACAGTTCTATTCTATTCTGGCAGCAATGATGACATGGTATTCATGCA  
 TGTAGATGAACCTGGAGACACTGGGTTTGGCACAATCTTACCTCAGATGATCGAGGCAT  
 TGCTATTCCAAGTCTTTGGACCGACATCTCTACACTACCACAGGCGGAGAGACGGACTT  
 TACCAAGTGACCTCCCTCCGCGCGTCTACATAACAAGCGTGCTCTCGAAGATAATTC  
 TATCCAGACCATGATCACTTTTACCAAGGAGGAAGGTGGACGACCTGAGGAAGCCTGA  
 AAACAGTGAATGTGATGCTACAGCAAAAAACAAGAATGAGTGCAGCCTTCATATTCATGC  
 TTCCTACAGCATCTCCAGAACTGAATGTTCCAATGGCCCACTCTCAGAGCCGAATGC  
 CGTAGGCATTGCTATTGCTCATGGTAGCGTGGGGATGCCATCTCAGTATGGTTCAGAG  
 TGTGTACATCTCAGATGATGGGGTTACTCTGGACAAAGATGCTGGAAGGACCCCACTA  
 TTACACCATCCTGGATTCTGGAGGCATCATTGTGGCCATTGAGCACAGCAGCCGCTCAT  
 CAATGTGATTAAGTTCTCCACAGACGAAGTCAATGCTGGCAAACCTACACGTTACCAG  
 GGACCCCATCTATTTCACTGGCCTAGCTTCAGAACCTGGAGCTAGGTCCATGAATATCAG  
 CATTTGGGGCTTACAGAACTTTTCTGACCAGCAGTGGGTCTCTACACCATTGATTT  
 TAAAGATATCCTTGAAAGGAACTGTGAAGAGAAGGACTATACCATATGGCTGGCACACTC  
 CACAGACCCTGAAGATTATGAAGATGGCTGCATTTTGGGCTACAAAGAACAGTTTCTGCG  
 GCTACGCAAGTCAATCCGTGTGTCAGAAATGGTTCGAGACTATGTTGTGACCAAGCAGCCCTC  
 CATCTGCCTCTGTTCCCTGGAGGACTTTCTCTGTGATTTTGGCTACTACCGTCCAGAAAA  
 TGACTCCAAGTGTGTGGAACAGCCAGAAGTGAAGGGCCACGACCTGGAGTTTTGTCTGTA  
 CGGAAGAGAAGAACACCTAACAAACAATGGGTACCGAAAAATTCAGGGGACAAATGCCA  
 GGGTGGGGTAAATCCAGTTCGAGAAGTAAAAGACTTGAAAAAGAAATGCACAAGCAACTT  
 TTTGAGTCCGGAAAAACAGAAATCCAAGTCAAATCTGTTCCAATTATCCTGGCCATCGT  
 GGGATTGATGCTGGTACAGTCGTAGCAGGAGTCTCATTGTGAAGAAATATGTCTGTGG  
 GGAAGGTTCTGGTGCATCGATACTCTGTGCTGCAGCAGCATGCAGAGGCCAATGGTGT  
 GGATGGTGTGGATGCTTTGGACACAGCCTCCACACTAATAAAAGTGGTTATCATGATGA  
 CTCAGATGAGGACCTTTGGAATAGCTCTTCAGAGGAGCTGGACCAGCATGGATGGTGG  
 AACACAGTACCTTTACACTCCCTGTGGCTCCAAGTTCAGGAAATAAATTTCCATTGCG  
 GAGGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_002959

**Insert Size:** 2700 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>OTI Annotation:</b>	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_002959.4.
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_002959.4</a> , <a href="#">NP_002950.3</a>
<b>RefSeq Size:</b>	7018 bp
<b>RefSeq ORF:</b>	2496 bp
<b>Locus ID:</b>	6272
<b>UniProt ID:</b>	<a href="#">Q99523</a>
<b>Cytogenetics:</b>	1p21.3-p13.1
<b>Domains:</b>	BNR, VPS10
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Lysosome, Neurotrophin signaling pathway

**Gene Summary:**

This gene encodes a member of the VPS10-related sortilin family of proteins. The encoded preproprotein is proteolytically processed by furin to generate the mature receptor. This receptor plays a role in the trafficking of different proteins to either the cell surface, or subcellular compartments such as lysosomes and endosomes. Expression levels of this gene may influence the risk of myocardial infarction in human patients. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). 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.