

Product datasheet for **RC234732**

Sortilin (SORT1) (NM_001205228) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sortilin (SORT1) (NM_001205228) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sortilin
Synonyms:	Gp95; LDLCQ6; NT3; NTR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC234732 representing NM_001205228
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTTTTGGACAGTCCAAGCTATATCGAAGTGAGGATTATGGGAAGAACTTTAAGGATATTACAGATC
TCATCAATAACACCTTTATTTCGGACTGAATTTGGCATGGCTATTGGTCTGAGAAGCTCTGGAAAGGTGGT
GTTAACAGCAGAGGTGTCTGGAGGAAGTCGTGGAGGAAGAATCTTTAGATCATCAGATTTTGCGAAGAAT
TTTGTGCAAAACAGATCTCCCTTTTCATCTCTCACTCAGATGATGATAGCCCTCAGAATTTCTGATTATC
TTTTAGCTCTCAGCACTGAAAAATGGCTGTGGGTGTCCAAGAATTTTGGGGGAAAAATGGGAAGAAATCCA
CAAAGCAGTATGTTTGGCCAAATGGGGATCAGACAACACCATCTTCTTTACAACCTATGCAAATGGCTCC
TGCACTGACCTTGGGGCTCTGGAATTATGGAGAAGCTTCAGACTTGGGAAAAAGCTTCAAACCTATTGGTG
TGAAAATCTACTATTTGGTCTTGGGGGACGTTTCTTTTGCCTCTGTGATGGTGATAAGGATACAAC
AAGAAGGATCCAGTTTTCAACAGATCAAGGGGACACATGGAGCATGGCCAGCTCCCTCCGTGGGACAG
GAACAGTTCTATTCTATTCTGGCAGCAAATGATGACATGGTATTGATGATGATGATGATGATGATGATGAT
CTGGGTTTGGCACAATCTTTACCTCAGATGATCGAGGCATTGTCTATTCCAAGTCTTTGGACCGACATCT
CTACACTACCACAGGCGGAGAGACGGACTTTACCAACGTGACCTCCCTCCGCGGGCTCTACATAACAAGC
GTGCTCTCCGAAGATAATTCTATCCAGACCATGATCACTTTTGACCAAGGAGGAAGGTGGACGCACCTGA
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TTCCTACAGCATCTCCAGAAAATGAATGTTCCAATGGCCCACTCTCAGAGCCGAATGCCGTAGGCATT
GTCATTGCTCATGGTAGCGTGGGGATGCCATCTCAGTGTGGTCCAGATGTGTACATCTCAGATGATG
GGGTTACTCTGGACAAAGATGCTGGAAGGACCCCACTATTACACCATCTGGATTCTGGAGGCATCAT
TGTGGCCATTGAGCACAGCAGCCGCTCTATCAATGTGATTAAGTTCTCCACAGACGAAGGTCAATGCTGG
CAAACCTACACGTTACACAGGGACCCCATCTATTTCACTGGCCTAGCTTCAGAACCTGGAGCTAGGTCCA
TGAATATCAGCATTTGGGGCTTACAGAAATCTTTCTGACCAGCCAGTGGGTCTCCTACACCATTGATTT
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GTCAGAATGGTCGAGACTATGTTGTGACCAAGCAGCCCTCCATCTGCCTCTGTTCCCTGGAGGACTTCT
CTGTGATTTTGGCTACTACCGTCCAGAAAATGACTCCAAGTGTGTGGAACAGCCAGAAGTGAAGGGCCAC
GACCTGGAGTTTTGTCTGTACGGAAGAGAAGAACACCTAACAAACAAATGGGTACCGGAAAATTCAGGGG
ACAAATGCCAGGGTGGGGTAAATCCAGTTCGAGAAGTAAAAGACTTGA AAAAGAAATGCACAAGCAACTT
TTTGAGTCCGGAAAAACAGAATTCAAAGTCAAATCTGTTCCAATTATCCTGGCCATCGTGGGATTGATG
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GATACTCTGTGCTGCAGCAGCATGCAGAGGCCAATGGTGTGGATGGTGTGGATGCTTTGGACACAGCCTC
CCACACTAATAAAAGTGGTTATCATGATGACTCAGATGAGGACCTCTTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234732 representing NM_001205228
Red=Cloning site Green=Tags(s)

MTFGQSKLYRSEDYGKNFKDITDLINNTFIRTEFGMAIGPENSGKVVLTAEVSGGSRGGRIFRSSDFAKN
 FVQTDLPFHPLTQMMYSPQNSDYLLALSTENGLWVSKNFGGKWEIHKAVCLAKWGSNDNTIFFTTYANGS
 CTDLGALELWRTSDLGKSFKTIQVVIYFGLGGRFLFASVMADKDTTRRIHVSTQDGTWSMAQLPSVGQ
 EQFYSLAANDDMVFMHVDEPGDTGFGTIFTSDDRGIVYKSLDRHLYTTTGGETDFTNVTSLRGVYITS
 VLSIEDNSIQMTITFDQGGRWHLRKPENSECDATAKNKNECSLHIHASYSISQKLNVPMAPLSEPNVGI
 VIAHGSVGDIAISVMPDVIYISDDGGYSWTKMLEGPHYTYILDSSGIIVAIEHSSRPINVIKIFSTDEGQCW
 QTYFTTRDPIYFTGLASEPGARSMNISIWGFTEFLTSQWVSYTIDFKDILERNCEEKDYIWLAHSTDP
 EDYEDGCILGYKEQFLRLRKSSVCQNGRDYVVTQPSICLCSLEDFLCDFGYRPNEDSKVEQPELKGH
 DLEFCLYGREEHLTTNGYRKIPGDKCQGGVNPVREVKDLKKKCTSNFLSPEKQNSKNSVPIILAIVGLM
 LVTVVAGVLIVKKYVCGGRFLVHRYSVLQQHAEANGVDGVDALDTASHTNKGHYHDDSDLELLE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001205228

ORF Size: 2082 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_001205228.1](#), [NP_001192157.1](#)

RefSeq Size: 7007 bp

RefSeq ORF: 2085 bp

Locus ID: 6272

UniProt ID: [Q99523](#)

Cytogenetics: 1p21.3-p13.1

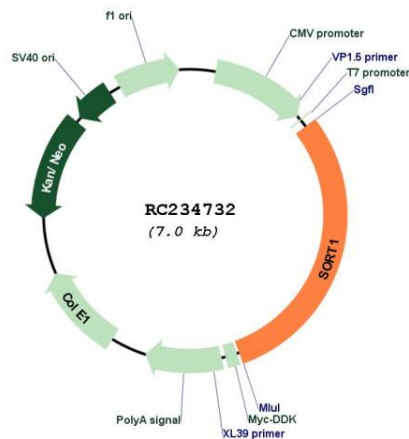
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Lysosome, Neurotrophin signaling pathway

MW: 77.8 kDa

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]

Product images:



Circular map for RC234732