

Product datasheet for **RG203429**

Sortilin (SORT1) (NM_002959) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sortilin (SORT1) (NM_002959) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sortilin
Synonyms:	Gp95; LDLCQ6; NT3; NTR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>RG203429 representing NM_002959
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCGGCCCTGGGGAGCTGCGGACGGCCTCTCGCGCTGGCCCATGGCCTCGGCCTCCTCCTCTCC
TGCAGCTGCTGCCGCCGTGACCCCTCAGCCAGGACCGGCTGGACGCGCCGCCGCCCGCTGCGCCGCT
GCCGCGCTGGTCTGGCCCATCGGGGTGAGCTGGGGGCTGCGGGCGGCCGAGCCGGGGCGCGTTTCCC
CGCGGGCGCCGTTGGCGTCGAGCGCGCCGGGCGAGGACGAGGAGTGGCCGGGTCCGGGACTTCGTCG
CCAAGCTGGCCAACAACACGCACCAGCATGTGTTTGTATCTCAGAGGCTCAGTATCCTTGTCTGGGT
TGGAGATAGCACTGGGGTCACTTAGTCTTGACTACCTTCCATGTACCACTGGTAATTATGACTTTTGA
CAGTCCAAGCTATATCGAAGTGAGGATTATGGGAAGAAGTTAAGGATATTACAGATCTCATCAATAACA
CCTTTATTCGGACTGAATTTGGCATGGCTATTGGTCTGAGAAGTCTGAAAAGTGGTGTAAACAGCAGA
GGTGTCTGGAGGAAGTCTGGAGGAAGAATCTTCAGATCATCAGATTTTGGGAAGATTTTGTGCAACA
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GCACTGAAAATGGCCTGTGGGTGTCCAAGAATTTTGGGGGAAAATGGGAAGAAAATCCACAAGCAGTATG
TTTGGCCAAATGGGGATCAGACAACACCATCTTCTTACAACCTATGCAATGGCTCCTGCAAAAGCTGAC
CTTGGGGCTCTGGAAATTATGGGAACTTCAGACTTGGGAAAAGCTTCAAACTATTGGTGTGAAAATCT
ACTCATTTGGTCTTGGGGACGTTTCTTTTGGCTCTGTGATGGCTGATAAGGATACCACAAGAAGGAT
CCACGTTTCAACAGATCAAGGGGACACATGGAGCATGGCCAGCTCCCTCCGTGGGACAGGAACAGTTC
TATTCTATTCTGGCAGCAAAATGATGACATGGTATTTCATGCATGTAGATGAACCTGGAGACTGGGTTTG
GCACAATCTTACCTCAGATGATCGAGGCATTGTCTATTCCAAGTCTTTGGACCGACTCTACACTAC
CACAGGGCGGAGAGACGGACTTTACCAACGTGACCTCCCTCCGCGCGCTTACATAACAAGCGTGCTCTCC
GAAGATAATTCTATCCAGACCATGATCACTTTTGACCAAGGAGGAAGGTGGACGCACCTGAGGAAGCCTG
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CATCTCCAGAAAATGAATGTTCCAATGGCCCACTCTCAGAGCCGAATGCCGTAGGCATTGTCTATTGCT
CATGGTAGCGTGGGGATGCCATCTCAGTATGGTTCAGATGTGTACATCTCAGATGATGGGGTTACT
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ACGTTCCACAGGGACCCATCTATTTCACTGGCCTAGCTTCAGAACCTGGAGCTAGTCCATGAATATCA
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CCTTGAAGGAAGTGTGAAGAGAAGGACTATACCATATGGCTGGCACACTCCACAGACCCGAAAGATTAT
GAAGATGGCTGCATTTTGGGCTACAAGAAGAGTTTCTGCGGCTACGCAAGTCAATCCGTGTGTCAGAATG
GTCGAGACTATGTTGTGACCAAGCAGCCCTCCATCTGCCTCTGTTCCCTGGAGGACTTTCTCTGTGATTT
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AGGGTGGGGTAAATCCAGTTCGAGAAGTAAAAGACTTGAAAAGAAAATGCACAAGCAACTTTTGTAGTCC
GGAAAACAGAAATCCAAGTCAAATCTGTTCCAATTATCCTGGCCATCGTGGGATTGATGCTGGTCACA
GTCGTAGCAGGAGTGCTCATTGTGAAGAAAATATGTCTGTGGGGGAAGTTCTGGTGCATCGATACTCTG
TGCTGCAGCAGCATGCAGAGCCAAATGGTGTGGATGGTGTGGATGCTTTGGACACAGCCTCCACACTAA
TAAAAGTGGTTATCATGATGACTCAGATGAGGACCTCTTGAA

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG203429 representing NM_002959
Red=Cloning site Green=Tags(s)

MERPWGAADGLSRWPHGLGLLLLLQLLPPSTLSQDRLDAPPPPAAPLPRWSGPIGVSWGLRAAAAGGAFP
RGGRRRSAPGEDEECGRVDFVAKLANNTHQHVFDL RGSVLSWVG DSTGVILVLTTFHVPLVIMTFG
QSKLYRSEYDGKNFKDITDLINNTFIRTEFGMAIGPENSGKVVLTAEVSGGSRGGRIFRSSDFAKNFVQT
DLPFHPLTQMMYSPQNSDYLLALSTENGLWVSKNFGGKWEIHKAVCLAKWGS DNTIFFTTYANGSCKAD
LGALELWRTSDLGKSFKTIGVKIYSFGLGGRFLFASVMADKDTTRRIHVSTDQGD TWSMAQLPSVGQE QF
YSILAANDDMVMHVDEPGDTGFGTIFTSDDRGIYYSKSLDRHLYTTTGGETDFTNV TSLRGVYITSVLS
EDNSIQTMITFDQGGRWTHLRKPENSECDATAKNKNECSLHIHASYSISQKLNVP MAPLSEPNVAVGIVIA
HGSVGD AISVMVPDVIYISDDGGYSWTKMLEGPHYTYILD SGGIIVAI EHS SRPINVIKFSTDEGQCWQTY
TFTRDPIYFTGLASEPGARSMNISIWGFTE SFLTSQWVSYTIDFKDILERNCEEKDYTIWLAHSTDPEDY
EDGCILGYKEQFLRLRKSSVCQNGRDYVVT KQPSICLCSLEDFLCDFGYR PENDSKCV EQPELKGHDLE
FCLYGREEHLTTNGYRKIPGDKCQGGVNPVREVKDLKKKCTSNFLSPEKQNSKSN SVPIILAIVGLMLVT
VVAGVLIVKKYVCGGRFLVHRYSVLQQHAEANGVDGVDALDTASHTNKSGYHDDSDEDLLE

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_002959

ORF Size: 2493 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_002959.4](#), [NP_002950.3](#)

RefSeq Size: 7018 bp

RefSeq ORF: 2496 bp

Locus ID: 6272

UniProt ID: [Q99523](#)

Cytogenetics: 1p21.3-p13.1

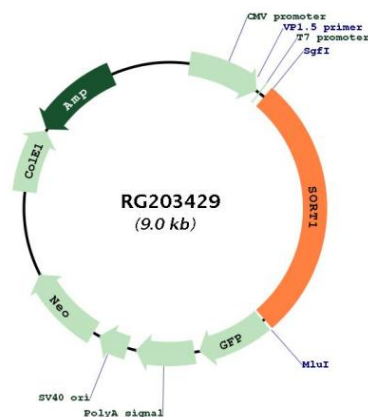
Domains: BNR, VPS10

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: 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]

Product images:



Circular map for RG203429