

Product datasheet for **RG235179**

SORCS1 (NM_001206570) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: SORCS1 (NM_001206570) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: SORCS1
Synonyms: hSorCS
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235179 representing NM_001206570
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGAAAAGTTGGCGCCGGCGGGCTCCCAAGCCGGCTGAGCGCGCTCCTCGCCGGCGGGGCTCT
 TGATCCTCTGCGCCCCGGCGTCTGCGCGGGCTCCTGCTGCCCTCGCCGACCCAGCTCCGCTCC
 ACGCTCGGCTCGACCCCTAGGGCTTTTCCCACAGGGCGGCCAGGCAGGGCTCCTGCCAGCCCTG
 CCCCTCGTAGTGGTCCCCTGTTCTCAGTGGCCCCGGGACCGAGCGCTATCCCTGGAGCGGGCTCGG
 GCACTGGGGCATCCATGGCGTTGCTGCACGCTCCGGCCGGAGGAGACGGAGCGGAGCGGATCAGGAGAA
 GGCAAGACGGGGAGAGGGCGGAGTCCGAGCCCCGGGAGTGCTAAGAGATGGAGGGCAGCAGGAGCCT
 GGGACTCGGGAGCGGGACCCGGACAAAGCCACCCGCTTCCGGATGGAGGAGCTGAGACTGACCAGACCA
 CGTTTGGCTGACGGGAGACTCAGCACACAACCAAGCCATGGTCCACTGGTCTGGCCACAACAGCAGCGT
 GATTCTCATTTTGACAAAGCTCTATGACTATAACCTGGGAGCATCACAGAGAGCTCGCTTTGGAGGTCA
 ACCGATTATGGAACAACCTATGAGAAGCTGAATGATAAAGTTGGTTTAAAACCATTTTGAGCTATCTCT
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 GAAGATGGCAGCTTATCCAAGAAGGGTGTACCAACAGGTTCTACTGGTCTGTGATGGGGTCAAATAA
 AGAACCAGACCTTGTGCATCTTGGAGCCAGAAGTGGATGGTCACTTACATTATCTAAGTGGCGAATG
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 AGGATCATTATGTGTTTGTTCAGCTGACATCAGGAGGGCGCCACATTACTACGTGCTCCTACCGAAGGAA
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 AATCAGGTGTTCCGAGCGGTCCAAGAATGGAACCAAGATGACACGTACAACCTCTACATCTCAGACACAC
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ACTTTCATCACATATAACAAAGGCAGAGACTGGCGTTTGTCTGCAGGCGCCGGACACGGATCTAAGGGGG
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 AGCCAGGAGTCCGAGTCTTGTCCATGCTGCTCACTTAACAGCGGCCCCCTGGTGGACCTCACTCCAAC
 CCACAGTGGATCTGCCATGCTGATGCTGCTCAGTGGTGTGTTGGGGCTGGCAGTGTTCGTCATCTAC
 AAGTTTAAAGGAAGTATTTCCATAGTTGC

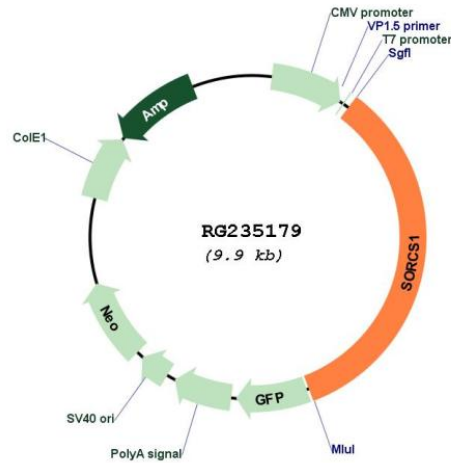
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG235179 representing NM_001206570
 Red=Cloning site Green=Tags(s)

MGKVGAGGGSQARLSALLAGAGLLILCAPGVCGGGSCCPSHPSSAPRSASTPRGFHQGRPRGRAPATPL
 PLVVRPLFSVAPGDRALSLERARGTGASMAVAARSGRRRRSGADQEKAEREGEGASRSPRGVLRDGGQPEP
 GTRERDPDKATRFMEELRLTSTTFALTGSAHNQAMVHWSGHNSVILILTKLYDYNLGSITESSLWRS
 TDYGTTYEKLNDKVGLKILSYLYVCPTNKRKIMLLTDPEIESSLLISSDEGATYQKYRLNFYIQSLLFH
 PKQEDWILAYSQDQKLYSSAEFGRRWQLIQEGVVPNRFYWSVMGSNKEPDLVHLEARTVDGSHYLTCRM
 QNCTEANRNQPPFGYIDPDSLIVQDHYVYVQLTSGGRPHYVYSYRRNAFAQMKLPKYALPKDMHVI
 STDENQVFAAVQEWNQNDYNYLISDTRGVYFTLALENVQSSRGPENIMIDLVEVAGIKGMFLANKKIDNQVK
 TFIITYNKGRDWRLLQAPDIDLGRDPVHCLLPYCSLHLHLKVSSENPTSGIIASKDTAPSIIVASGNIGSE
 LSDTDISMVSSDAGNTWRQIFEEHLSVLYLDQGGVLVAMKHTSLPIRHLWLSFDEGRSWSKYSFTSIPL
 FVDGVLGEPGEETLIMTVFGHFHRSEWQLVKVDYKSIIDRRCAEEDYRPWQLHSQGEACIMGAKRIYK
 RKSERKCMQKYGAMESEPCVCTEADFDCDYGERHSNGQCLPAFWFNPSLSDKCSLGSYLNSTGYR
 KVVSNCTDGVREQYTAQPKQKCPGKAPRGLRIVTADGKLTAEQGHNVTLMVQLEEGDVQRTLIQVDFGDG
 IAVSYVNLSSMEDGIKHVYQNVGIFRVTVQVDNSLGSDSAVALYLHVTCPLHVLHSLPFVTTKNKEVNAT
 AVLWPSQVGTLYVWYGNNTPELITLEGISFRFTSEGMENTITVQVSAGNAILQDTKTIAVYEEFRSLR
 LSFSPNLDDYNDIPEWRRDIGRVIKSLVEATGVPQGHILVAVLPGLPTTAELFVLPYQDPAGENKRST
 DDLEQISELLIHTLNQNSVHFELKPGVRVLVHAAHLTAAPLVDLTPTHSGSAMLMLLSVVFVGLAVFVIY
 KFKRKYFHSC

TRTRPLE - GFP Tag - V

Plasmid Map:


ACCN: NM_001206570

ORF Size: 3390 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_001206570.2](#)

RefSeq Size: 7192 bp

RefSeq ORF: 3393 bp

Locus ID: 114815

UniProt ID: [Q8WY21](#)

Cytogenetics: 10q25.1

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]