

Product datasheet for RG219030

SORCS1 (NM_052918) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SORCS1
Synonyms:	hSorCS
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG219030 representing NM_052918
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGGAAAAGTTGGCGCCGGCGGGCTCCCAAGCCCGGCTGAGCGCGCTCCTCGCCGGCGGGGCTCT
TGATCCTCTGCGCCCCGGGCGTCTGCGCGGGCGGCTCCTGCTGCCCTCGCCGACCCAGCTCCGCTCC
ACGCTCGGCCCTCGACCCCTAGGGGCTTTTCCACAGGGGCGGCCAGGCAGGGCTCCTGCCACGCCCTG
CCCCTCGTAGTGCTCCCTGTTCTCAGTGGCCCCGGGGACCGAGCGCTATCCCTGGAGCGGGCTCGGG
GCACTGGGGCATCCATGGCGGTTGCTGCACGCTCCGGCCGGAGGAGAGCGAGCGGAGCGGATCAGGAGAA
GGCAGAACGGGAGAGGGCGCGAGTCGGAGCCCCGGGGAGTGCTAAGAGATGGAGGGCAGCAGGAGCCT
GGGACTCGGGAGCGGGACCCGACAAAGCCACCCGCTTCCGGATGGAGGAGCTGAGACTGACCAGCACCA
CGTTTGGCGTGACGGGAGACTCAGCACACAACCAAGCCATGGTCCACTGGTCTGGCCACAACAGCAGCGT
GATTCTCATTTTGACAAAGCTCTATGACTATAACCTGGGGAGCATCACAGAGAGCTCGCTTTGGAGGTCA
ACCGATTATGGAACAACCTATGAGAAGCTGAATGATAAAGTTGGTTTGAACCATTTTGAGCTATCTCT
ATGTGTGTCCTACCAACAAGCGTAAGATAATGTTACTCACAGACCCGGAGATTGAGAGCAGTTTATTGAT
CAGCTCAGATGAAGGGGCACTTATCAAAAGTACCGGCTGAAGTTTACATTCAAAGCTTGCTTTTTCAC
CCCAACAAGAAGACTGGATTCTGGCATACAGTCAAGACCAAAAGTTATACAGCTCTGCTGAATTTGGGA
GAAGATGGCAGCTTATCCAAGAAGGGTTGTACAAACAGGTTCTACTGGTCTGTGATGGGGTCAAATAA
AGAACCAGACCTTGTGCATCTTGAGGCCAGAACTGTGGATGGTCATTACATTATCTAACTTGCCGAATG
CAGAACTGTACAGAGGCCAACAGGAATCAGCCTTTTCCAGGCTACATTGACCCAGACTCTTTGATTGTT
AGGATCATTATGTGTTTGTTCAGCTGACATCAGGAGGGCGGCCACATTACTACGTGTCCTACCGAAGGAA
TGCAATTTGCCAAATGAAGCTTCCGAAATATGCTTTGCCCAAGGACATGCATGTTATCAGCACCGATGAG
AATCAGGTGTTTCGAGCGGTCCAAGATGGAACCAAGATGACACGTACAACCTCTACATCTCAGACACAC
GTGGTGTCTACTTCACCTGGCCTTGGAAGATGTCCAGAGCAGCAGAGGCCCTGAGGGCAACATCATGAT
CGACCTCTATGAGGTAGCAGGGATAAAGGGAATGTTCTTGGCTAACAAAGAGATTGACAACCAAGTGAAG
ACTTTCATCATATAACAAGGCAGAGACTGGCGTTTGTGCAGGCGCCGGACACGGATCTAAGGGGGG



ACCCCGTGCCTGCTTGTGCCCTATTGCTCACTACACCTTCACCTGAAGGTCTCTGAGAATCCCTACAC
ATCAGGGATCATTGCCAGCAAGACACAGCTCCAAGCATCATAGTGGCATCAGGTAATATAGGTTCTGAA
TTGTGACAGACTGACATCAGCATGTTTGTCTTTCAGATGCAGGGAACACCTGGAGACAGATCTTTGAAG
AAGAGCACAGTGTTTTGTACCTGGATCAAGGTGGAGTCTGGTTGCTATGAAACACACATCTCTCCCAAT
TCGACATCTTTGGTTGAGTTTTGATGAAGGGAGATCTTGGAGCAAATACAGTTTACATCTATTCCACTT
TTTGTGGATGGGGTTCTGGGTGAGCCTGGAGAAGAGACTCTCATCATGACAGTGTGGACACTTCAGCC
ACCGCTCTGAATGGCAGCTGGTCAAAGTAGATTACAAGTCCATTTTGTATAGACGGTGTGCCGAAGAGGA
CTACAGACCTTGGCAGCTGCACAGCCAGGGGAAGCATGTATCATGGGAGCAAAAAGGATATATAAGAAG
CGAAAAATCAGAGCGGAAGTGTATGCAAGGAAAATATGCAGGAGCTATGGAATCTGAACCCTGTGTCTGCA
CTGAGGCTGATTTTGTATGCGACTATGGTTATGAGCGACACAGCAATGGCCAGTGCCTGCCGGCATTTTG
GTTCAATCCATCCTCTCTGTCAAAGGATTGCAGCTTGGGACAGAGTTACCTCAATAGTACTGGGTACAGG
AAGGTGGTTTTCCAATAATTGCACTGATGGCGTAAGGGAACAGTACACTGCCAAACCGCAGAAGTGGCCAG
GGAAAGCCCCGCGGGGCTGCGGATAGTCACGGCTGATGGAAGCTGACAGCGGAACAGGACACAACGT
CACTCTCATGGTCAATTAGAAGAGGGTGTGTTACGCGGACACTCATCAAGTGGACTTTGGCGATGGT
ATCGCGGTGTCTTACGTCAATCTCAGCTCCATGGAAGATGGGATCAAACACGTCTATCAGAACGTGGGCA
TTTTCCGTGTGACCGTGCAGGTGGACAACAGTCTGGGTTCTGACAGCGCCGTCTGTACTTACATGTAAC
TTGTCCCTTGGAGCACGTGCACCTGTCTCTTCCCTTTGTACCACAAAAGAAAGAGGTCAATGCGACG
GCAGTGTGTGGCCAGCAAGTGGGCACCCTCACTTACGTGTGGTGGTACGGAACAAACAGGAGCCTT
TGATCACCTTGGAGGGAAGCATATCCTTCAGATTTACTTCAGAAGGAATGAATACCATCACAGTGCAGGT
CTCAGCTGGGAATGCCATCCTACAAGACAAAAGACCATCGCAGTATATGAGGAATCCGGTCTCTTCGC
TTGTCTTTTCTCAAACCTGGATGACTACAACCCGGACATCCCTGAGTGGAGGAGGACATCGGTGCGAG
TCATCAAAAAATCCCTGGTGAAGCCACAGGGGTTCCAGGCCAGCACATCCTGGTGGCGGTGCTCCCTGG
CTTACCCCACTGCTGAACTCTTTGTCTACCCTATCAGGATCCAGCTGGAGAAAAAAAGGTCAACT
GATGACCTGGAGCAGATATCAGAAATGCTGATCCACACGCTCAACCAAACTCAGTACACTTCGAGCTGA
AGCCAGGAGTCCGAGTCTTGTCCATGCTGCTCACTTAACAGCGGCCCCCTGGTGGACCTCACTCCAAC
CCACAGTGGATCTGCCATGCTGATGCTGCTCAGTGGTGTGTTGTGGGGCTGGCAGTGTTCGTATCTAC
AAGTTTAAAGGAGAGTAGCTTTACCCTCCCCTCCCTCCCCTTCTACTCAACCTGGTGAATCATCTCC
GATTGCAAGAGCAAGACACGCCACTCCGCCTTCAACGCCAAAGCGGGGATCTGCTGGGCGACAGTATGC
AATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG219030 representing NM_052918
Red=Cloning site Green=Tags(s)

MKLVGAGGGSQARLSALLAGALLILCAPGVCGGSGCCPSHPSSAPRSASTPRGFHQGRPRGRAPATPL
PLVVRPLFSVAPGDRALSLEARGTGASMAVAARSRRRRSGADQEKAERGEGASRSPRGVLRDGGQEP
GTRERDPDKATFRMEELRLTSTTFALTGDSAHNQAMVHWSGHNSVILILTKLYDYNLGSITESLWRS
TDYGTTYEKLNDKVGLKTIISLYVCPTNKRKIMLLTDPEIESSLLISSDEGATYQKYRLNFYIQSLLFH
PKQEDWILAYSQDKLYSSAEFGRRWQLIQEGVVPNRFYWSVMGSNKEPDLVHLEARTVDGHSHYLCRM
QNCTEANRNQPFPGYIDPDSLIVQDHYVVFQLTSGGRPHYVVSYRRNAFAQMKLPKYALPKDMHIVSTDE
NQVFAAVQEWQNDTYNLYISDTRGVYFTLALENVQSSRGPEGNIMIDLVEVAGIKGMFLANKKIDNQVK
TFITYNKGRDWRLLQAPDLDLRGDPVHCLLPYCSLHLHLKVSENPYTSGIASKDTAPSIIIVASGNIGSE
LSDTDISMVSSDAGNTWRQIFEEHESVLVDQGGVLVAMKHTSLPIRHLWLSFDEGRWSKYSFTSIPL
FVDGVLGEPGEETLIMTVFGHFSHRSEWQLVKVDYKSIIFDRRCAEEDYRPWQLHSQGEACIMGAKRIYK
RKSERKCMQKYGAMESEPCVCTEADFCDYGERHSNGQCLPAFWFNPSSLKDCSLGQSYLNSTGYR
KVVSNNCTDGVREQYTAQPKCPGKAPRGLRIVTADGKLTAEQGHNVTLMVQLEEGDVQRTLIQVDFGDG
IAVSYNLSSMEDGIKHVYQNVGIFRVTQVDNSLGSASVLYLHVTCPLHVLHSLPFVTTKNKEVNAT
AVLWPSQVGTLYVWYGNTEPLITLEGSISFRFTSEGMNTITVQVSAGNAILQDTKTIIVYEEFRSLR
LSFSPNLDDYNPDIPWRRDIGRVIKSLVEATGVPGQHILVAVLPGLPTTAELFVLPYQDPAGENKRST
DDLEQISELLIHTLNQNSVHFELKPGVRVLVHAHLTAAPLVDLTPTHSGSAMLMLSVVFVGLAVFVIY
KFKRRVALPSPSPSTQPGDSSLRLQRRHATPPSTPKRGSAGAQAIAI

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

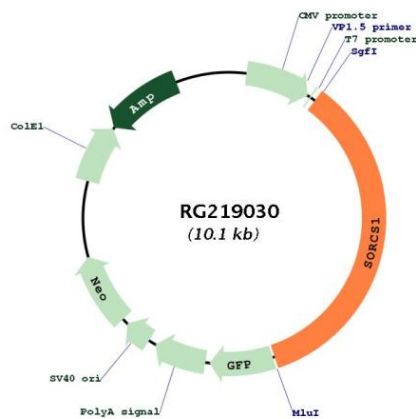
Cloning Scheme:



ACCN:	NM_052918
ORF Size:	3504 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_052918.5

RefSeq Size:	7272 bp
RefSeq ORF:	3507 bp
Locus ID:	114815
UniProt ID:	Q8WY21
Cytogenetics:	10q25.1
Domains:	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 preprotein. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG219030