OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC229412

SORCS2 (NM_020777) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SORCS2 (NM_020777) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SORCS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

```
>RC229412 representing NM_020777
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCACCGGGGGCCCTCGCGCGCCTCGAAGGGCCCCGGCCCCACCGCCCGAGCCCCGAGCCCCGGGG
CTCCGCCGCCGCCGCGCTCGCCGCGCTCGCGGCCGCTCCTGCTGCTGCTGCTGCTGCTGGGCGCCTGCGG
GGCGGCGGGGCGCTCCCCTGAGCCCGGGCGCCTGGGTCCTCACGCCCAACTGACCCGGGTGCCGCGGAGC
CCTCCCGCGGGGCGCGCGGAGCCCGGTGGCGGCGAGGACCGGCAGGCGCGCGGCACGGAGCCAGGCGCCC
CGGGTCCGAGTCCCGGTCCCGCTCCTGGTCCCGGCGAGGACGGCGCCCCCGCCGCGGGCTACCGGCGCTG
GGAGCGGGCGGCGCCGCTGGCCGGAGTGGCTTCGCGGGCGCAGGTCTCGCTCATCAGCACGTCGTTCGTG
CTCAAGGGGGACGCGACGCACAACCAGGCGATGGTGCACTGGACGGGCGAGAACAGCAGCGTGATCTTGA
TCCTGACGAAGTACTACCACGCAGACATGGGGAAGGTTCTGGAAAGTTCTCTGTGGCGGTCATCAGATTT
CGGGACGTCCTACACCAAGCTCACCCTCCAGCCTGGTGTCACCACCGTCATCGACAATTTCTACATCTGC
CCGACCAACAAGAGGAAGGTCATCCTTGTCAGCTCCTCACTCAGTGACCGGGACCAGAGCCTATTCCTCA
GCGCAGACGAAGGCGCCACCTTTCAGAAGCAGCCCATTCCCTTCTTCGTGGAAACTCTGATTTTCCACCC
TAAGGAGGAGGACAAGGTCCTCGCCTACACAAAGGAGAGCAAGCTCTACGTGTCATCTGACTTGGGGAAA
AAGTGGACACTTCTGCAAGAGCGAGTGACCAAAGACCACGTGTTCTGGTCTGTGTCTGGGGTGGACGCTG
ACCCTGACTTGGTCCACGTGGAAGCCCAAGACCTCGGTGGAGATTTTCGGTACGTCACCTGCGCAATCCA
CAATTGCTCCGAGAAGATGCTGACAGCCCCATTCGCAGGCCCCATTGACCACGGGTCTCTGACCGTGCAG
GACGATTACATCTTCTTTAAGGCAACATCAGCAAACCAGACAAAATACTACGTCTCTTATCGTCGAAATG
AATTTGTCCTGATGAAGCTGCCGAAGTATGCATTGCCAAAGGATCTGCAGATCATCAGCACGGACGAGAG
TCAGGTGTTCGTGGCGGTGCAGGAGTGGTACCAGATGGACACCTACAACCTGTACCAGTCGGACCCACGG
GGCGTGCGCTACGCGCTGGTGCTGCAGGACGTGCGCAGCTCACGGCAGGCGGAGGAGAGCGTGCTCATCG
ACATCCTGGAGGTCAGAGGGGTGAAAGGAGTCTTCCTGGCAAACCAAAAAATTGATGGGAAAGTGATGAC
GCTTATAACCTACAACAAGGGCCGCGACTGGGATTACCTGAGGCCACCCAGCATGGACATGAATGGAAAA
CCAACCAACTGCAAGCCTCCAGACTGCCACCTGCACCTGCACCTGCGCTGGGCAGACAACCCCTACGTAT
CAGGCACCGTGCACACCAAGGACACCGCCCCAGGCCTCATCATGGGTGCAGGTAACCTGGGCTCACAGCT
```

View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

GGTGGAATATAAAGAAGAAATGTACATCACGTCAGACTGTGGTCACACCTGGCGGCAGGTGTTTGAGGAA
GAGCATCACATCCTGTACCTGGACCACGGCGGCGTGATCGTGGCCATCAAAGACACCTCCATCCCTTTGA
AGATCCTCAAGTTCAGTGTGGACGAGGGCCTCACCTGGAGCACGCACAACTTCACCAGCACCTCGGTGTT
TGTGGACGGGCTGCTGAGTGAGCCAGGGGACGAGACGCTGGTCATGACGGTCTTTGGCCACATCAGCTTC
CGCTCCGATTGGGAGCTGGTCAAGGTGGACTTCCGGCCCTCATTCTCCAGGCAGTGCGGCGAGGAGGACT
ACAGCTCCTGGGAGCTCTCCAACCTGCAGGGCGACCGCTGTATCATGGGCCAGCAGAGAAGTTTCCGGAA
AAGAAAGTCCACGTCCTGGTGCATCAAGGGGAGGAGCTTCACGTCGGCGCTCACGTCCCGCGTGTGCGAG
TGCCGGGACTCGGACTTCCTGTGCGACTACGGATTTGAGCGCTCCTCCTCCTCAGAGTCCAGCACCAACA
AGTGCTCTGCCAACTTCTGGTTTAACCCATTGTCCCCGCCTGACGACTGTGCCCTGGGCCAGACCTACAC
CAGCAGCCTTGGGTACCGGAAAGTGGTGTCCAACGTGTGTGAGGGTGGGGTGGACATGCAGCAGAGTCAG
GTGCAGCTGCAGTGCCCCCTCACGCCGCCCCGGGGCCTGCAGGTCAGCATTCAAGGCGAGGCGGTGGCCG
TGCGGCCTGGAGAGGACGTCCTGTTTGTGGTGCGGCAGGAGCAGGGTGATGTCCTGACTACCAAGTACCA
GGTAGACCTTGGGGACGGCTTCAAGGCCATGTACGTGAACCTTACACTGACCGGGGAGCCCATCCGGCAC
CGCTACGAGAGCCCCGGCATCTACCGCGTGTCCGTCAGGGCAGAGAACACGGCAGGCCACGATGAGGCGG
TGCTCTTTGTCCAGGTCAACTCCCCCCTGCAGGCCCTCTACCTGGAGGTGGTTCCTGTCATTGGCCTCAA
CCAGGAGGTGAACCTCACAGCTGTGCTGCTTCCCTTGAACCCTAACCTCACCGTCTTCTACTGGTGGATC
GGCCACAGCCTGCAGCCCCTCCTTTCCCTGGATAATTCTGTGACAACGCGGTTTTCGGACACGGGCGACG
TGCGTGTGACGGTGCAGGCCGCCTGTGGGAACTCGGTGCTGCAGGACTCCAGGGTCCTCCGTGTGCTGGA
TCAATTTCAAGTCATGCCTCTGCAGTTTTCCAAGGAGCTGGATGCCTACAACCCCAACACCCCTGAGTGG
AGGGAAGACGTGGGCCTGGTGGTCACCCGGCTGCTCTCCAAGGAGACCAGCGTCCCTCAGGAGCTTCTGG
TGACTGTGGTGAAGCCGGGGCTGCCCACTTTGGCCGATCTGTACGTGCTCCTGCCCCCTCCCAGGCCCAC
AAGGAAGAGGAGCCTCTCGAGTGATAAGAGGCTCGCCGCCATCCAGCAGGTGCTGAACGCACAGAAGATC
AGCTTCCTCCTGCGAGGCGGAGTCCGGGTCCTGGTGGCCCTGCGGGACACAGGCACAGGTGCTGAGCAGC
TGGGCGGCGGTGGCGGCTACTGGGCGGTAGTGGTGCTGTTTGTCATCGGGCTCTTCGCAGCGGGAGCCTT
CATCCTCTACAAGTTCAAAAGGAAACGGCCAGGCAGGACCGTGTACGCCCAAATGCACAACGAGAAGGAG
CAGGAGATGACCAGCCCTGTGAGTCACAGTGAGGACGTCCAGGGCGCTGTCCAGGGCAACCACTCAGGCG
TGGTCCTGAGCATCAACTCCCGAGAGATGCACAGCTACCTGGTGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229412 representing NM_020777
Red=Cloning site Green=Tags(s)

MAHRGPSRASKGPGPTARAPSPGAPPPPRSPRSRPLLLLLLLLGACGAAGRSPEPGRLGPHAQLTRVPRS
PPAGRAEPGGGEDRQARGTEPGAPGPSPGPAPGPGEDGAPAAGYRRWERAAPLAGVASRAQVSLISTSFV
LKGDATHNQAMVHWTGENSSVILILTKYYHADMGKVLESSLWRSSDFGTSYTKLTLQPGVTTVIDNFYIC
PTNKRKVILVSSSLSDRDQSLFLSADEGATFQKQPIPFFVETLIFHPKEEDKVLAYTKESKLYVSSDLGK
KWTLLQERVTKDHVFWSVSGVDADPDLVHVEAQDLGGDFRYVTCAIHNCSEKMLTAPFAGPIDHGSLTVQ
DDYIFFKATSANQTKYYVSYRRNEFVLMKLPKYALPKDLQIISTDESQVFVAVQEWYQMDTYNLYQSDPR
GVRYALVLQDVRSSRQAEESVLIDILEVRGVKGVFLANQKIDGKVMTLITYNKGRDWDYLRPPSMDMNGK
PTNCKPPDCHLHLHLRWADNPYVSGTVHTKDTAPGLIMGAGNLGSQLVEYKEEMYITSDCGHTWRQVFEE
EHHILYLDHGGVIVAIKDTSIPLKILKFSVDEGLTWSTHNFTSTSVFVDGLLSEPGDETLVMTVFGHISF
RSDWELVKVDFRPSFSRQCGEEDYSSWELSNLQGDRCIMGQQRSFRKRKSTSWCIKGRSFTSALTSRVCE
CRDSDFLCDYGFERSSSSESSTNKCSANFWFNPLSPPDDCALGQTYTSSLGYRKVVSNVCEGGVDMQQSQ
VQLQCPLTPPRGLQVSIQGEAVAVRPGEDVLFVVRQEQGDVLTTKYQVDLGDGFKAMYVNLTLTGEPIRH
RYESPGIYRVSVRAENTAGHDEAVLFVQVNSPLQALYLEVVPVIGLNQEVNLTAVLLPLNPNLTVFYWWI
GHSLQPLLSLDNSVTTRFSDTGDVRVTVQAACGNSVLQDSRVLRVLDQFQVMPLQFSKELDAYNPNTPEW
REDVGLVVTRLLSKETSVPQELLVTVVKPGLPTLADLYVLLPPPRPTRKRSLSSDKRLAAIQQVLNAQKI
SFLLRGGVRVLVALRDTGTGAEQLGGGGGYWAVVVLFVIGLFAAGAFILYKFKRKRPGRTVYAQMHNEKE
QEMTSPVSHSEDVQGAVQGNHSGVVLSINSREMHSYLVS

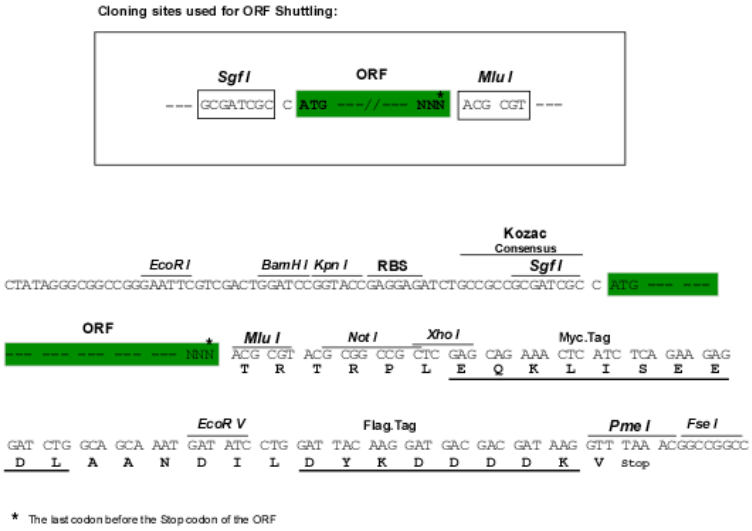
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Chromatograms: https://cdn.origene.com/chromatograms/mk8010_d07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020777

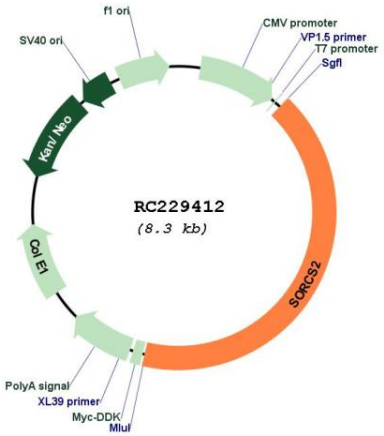
ORF Size: 3477 bp

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

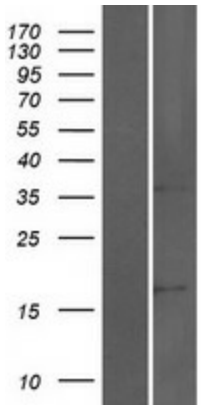
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_020777.3
RefSeq ORF:	3480 bp
Locus ID:	57537
UniProt ID:	Q96PQ0
Cytogenetics:	4p16.1
Protein Families:	Druggable Genome, Transmembrane
MW:	128 kDa
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. [provided by RefSeq, Jul 2008]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Product images:



Circular map for RC229412



Western blot validation of overexpression lysate (Cat# [LY432421]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC229412 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US