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Product datasheet for RC235179

SORCS1 (NM_001206570) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SORCS1 (NM_001206570) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SORCS1
Synonyms:	hSorCS
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC235179 representing NM_001206570 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGAAAAGTTGGCGCCGGCGGCGGCTCCCAAGCCCGGCTGAGCGCGCTCCTCGCCGGCGCGGGGCTCT TGATCCTCTGCGCCCCGGGCGTCTGCGGCGGCGGCTCCTGCTGCCCCTCGCCGCACCCCAGCTCCGCTCC ACGCTCGGCCTCGACCCCTAGGGGCTTTTCCCACCAGGGGCGGCCAGGCAGGGCTCCTGCCACGCCCCTG CCCCTCGTAGTGCGTCCCCTGTTCTCAGTGGCCCCCGGGGACCGAGCGCTATCCCTGGAGCGGGCTCGGG GCACTGGGGCATCCATGGCGGTTGCTGCACGCTCCGGCCGGAGGAGACGGAGCGGAGCGGATCAGGAGAA GGCAGAACGGGGAGAGGGCGCGAGTCGGAGCCCCCGGGGAGTGCTAAGAGATGGAGGGCAGCAGGAGCCT GGGACTCGGGAGCGGGACCCGGACAAAGCCACCCGCTTCCGGATGGAGGAGCTGAGACTGACCAGCACCA CGTTTGCGCTGACGGGAGACTCAGCACACAACCAAGCCATGGTCCACTGGTCTGGCCACAACAGCAGCGT GATTCTCATTTTGACAAAGCTCTATGACTATAACCTGGGGAGCATCACAGAGAGCTCGCTTTGGAGGTCA ACCGATTATGGAACAACCTATGAGAAGCTGAATGATAAAGTTGGTTTGAAAACCATTTTGAGCTATCTCT ATGTGTGTCCTACCAACAAGCGTAAGATAATGTTACTCACAGACCCGGAGATTGAGAGCAGTTTATTGAT CAGCTCAGATGAAGGGGCAACTTATCAAAAGTACCGGCTGAACTTCTACATTCAAAGCTTGCTTTTTCAC CCCAAACAAGAAGACTGGATTCTGGCATACAGTCAAGACCAAAAGTTATACAGCTCTGCTGAATTTGGGA GAAGATGGCAGCTTATCCAAGAAGGGGTTGTACCAAACAGGTTCTACTGGTCTGTGATGGGGTCAAATAA AGAACCAGACCTTGTGCATCTTGAGGCCAGAACTGTGGATGGTCATTCACATTATCTAACTTGCCGAATG CAGAACTGTACAGAGGCCAACAGGAATCAGCCTTTTCCAGGCTACATTGACCCAGACTCTTTGATTGTTC AGGATCATTATGTGTTTGTTCAGCTGACATCAGGAGGGCGGCCACATTACTACGTGTCCTACCGAAGGAA TGCATTTGCCCAAATGAAGCTTCCGAAATATGCTTTGCCCAAGGACATGCATGTTATCAGCACCGATGAG AATCAGGTGTTCGCAGCGGTCCAAGAATGGAACCAGAATGACACGTACAACCTCTACATCTCAGACACAC GTGGTGTCTACTTCACCCTGGCCTTGGAGAATGTCCAGAGCAGCAGAGGCCCTGAGGGCAACATCATGAT CGACCTCTATGAGGTAGCAGGGATAAAGGGAATGTTCTTGGCTAACAAGAAGATTGACAACCAAGTGAAG ACTTTCATCACATATAACAAAGGCAGAGACTGGCGTTTGCTGCAGGCGCCGGACACGGATCTAAGGGGGG

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Protein Sequence:

>RC235179 representing NM_001206570
Red=Cloning site Green=Tags(s)

MGKVGAGGGSQARLSALLAGAGLLILCAPGVCGGGSCCPSPHPSSAPRSASTPRGFSHQGRPGRAPATPL
PLVVRPLFSVAPGDRALSLERARGTGASMAVAARSGRRRRSGADQEKAERGEGASRSPRGVLRDGGQQEP
GTRERDPDKATRFRMEELRLTSTTFALTGDSAHNQAMVHWSGHNSSVILILTKLYDYNLGSITESSLWRS
TDYGTTYEKLNDKVGLKTILSYLYVCPTNKRKIMLLTDPEIESSLLISSDEGATYQKYRLNFYIQSLLFH
PKQEDWILAYSQDQKLYSSAEFGRRWQLIQEGVVPNRFYWSVMGSNKEPDLVHLEARTVDGHSHYLTCRM
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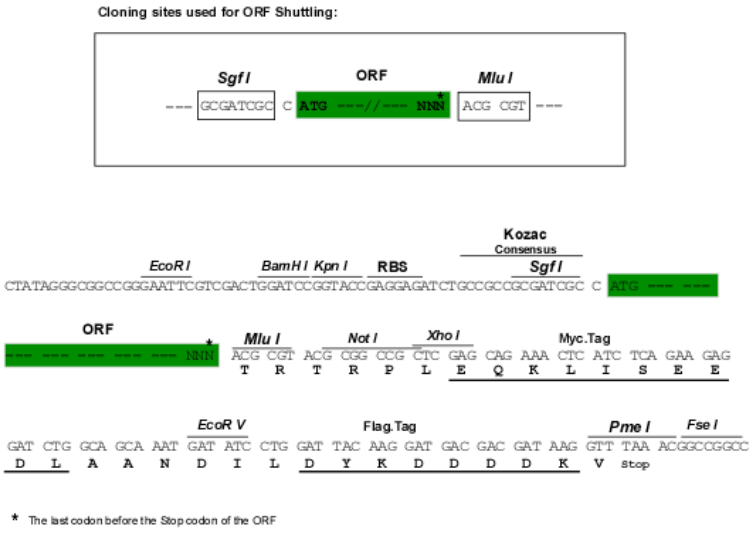
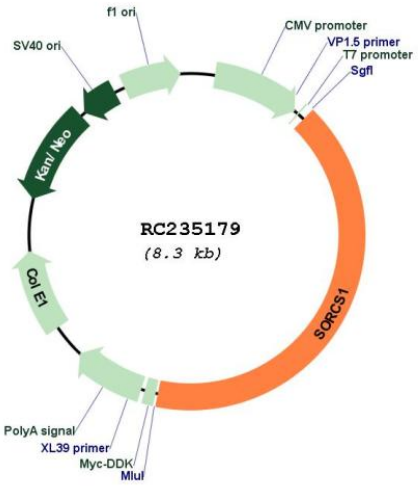
Restriction Sites: SgfI-MluI

Cloning Scheme:



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

MW: 126.3 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. Two of the five family members (sortilin and sortilin-related receptor) are synthesized as preproproteins; 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]