

Product datasheet for RC219094

Sacsin (SACS) (NM_014363) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sacsin (SACS) (NM_014363) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Sacsin
Synonyms:	ARSACS; DNAJC29; PPP1R138; SPAX6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219094 representing NM_014363 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC219094 representing NM_014363
 Red=Cloning site Green=Tags(s)

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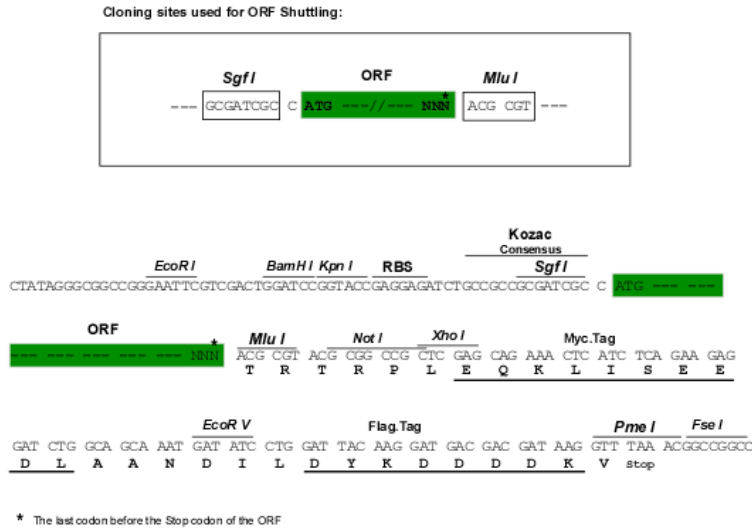
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 YNNQPFTEDDVRGIQNLGKGTKEGNPYKTGQYIGGFNSVYHITDCPSFISGNDILCIFDPHARYAPGATS
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 LPLSLETGLPFHVNGHFALDSARRNLWRDDNGVGRSDWNNSLMTALIAPAYVELLIQLKKRYFPGSDPT
 LSVLQNTPIHVVKD TLKFLSFFPVNRLDLQPDLYCLVKALYNCIHEDMKRLLPVVRAPNIDGSDLHSAV
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 VLPREYKTKSCTKWKNDFASESWLKNAWHFI SEVSVKEDQEETKPTFDI VVDTLKWALLPGTKFTVSA
 NQLVVEGDVLLPLSLMHIAVFPNAQSDKV FHALMKAGCIQLALNKICSKDSAFVPLL SCHANTANIESPTS
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 SAEKREFRFLRGVAFVMVEDGWKLLKPEEVINLEYESDFKPYLYKLPLELGT FHQLFKHLGTEDIIST
 KQYVEVLSRIFKNSEKQLDPNEMRTVKRVVSGLFRSLQND SVKVRSDLENVRDLALYLP SQDGRLVKSS
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 RIGEKDLSLGVKYSSEPSKLEL PMPGTPIPAEIHYTLLMDPMNVFYPGEYVGYLVDAEGGDIYGSYQPT
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 TKLALIAADYAVRGKSDKDVKPTALAQKIEEYSQLEGLTNDVHTLEAYGVDSLKTRYPDLLFPFPQIPND
 RFTSEVAMRVMECTACII IKLENFMQQKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_014363

ORF Size: 13737 bp

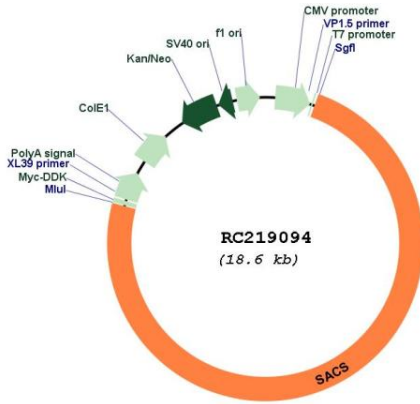
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none">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_014363.6
RefSeq Size:	15639 bp
RefSeq ORF:	13740 bp
Locus ID:	26278
UniProt ID:	Q9NZJ4
Cytogenetics:	13q12.12
Protein Families:	Druggable Genome
MW:	521.1 kDa
Gene Summary:	<p>This gene encodes the saccin protein, which includes a Ubl domain at the N-terminus, a Dnaj domain, and a HEPN domain at the C-terminus. The gene is highly expressed in the central nervous system, also found in skin, skeletal muscles and at low levels in the pancreas. This gene includes a very large exon spanning more than 12.8 kb. Mutations in this gene result in autosomal recessive spastic ataxia of Charlevoix-Saguenay (ARSACS), a neurodegenerative disorder characterized by early-onset cerebellar ataxia with spasticity and peripheral neuropathy. The authors of a publication on the effects of siRNA-mediated saccin knockdown concluded that saccin protects against mutant ataxin-1 and suggest that "the large multi-domain saccin protein is able to recruit Hsp70 chaperone action and has the potential to regulate the effects of other ataxia proteins" (Parfitt et al., PubMed: 19208651). A pseudogene associated with this gene is located on chromosome 11. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, May 2013]</p>

Product images:



Circular map for RC219094