

Product datasheet for **SC213858**

Sacsin (SACS) (NM_014363) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	Sacsin (SACS) (NM_014363) Human 3' UTR Clone
Symbol:	Sacsin
Synonyms:	ARSACS; DNAJC29; PPP1R138; SPAX6
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_014363
Insert Size:	1336 bp



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Insert Sequence: >SC213858 3'UTR clone of NM_014363
 The sequence shown below is from the reference sequence of NM_014363. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAGCGATCGCC
CTTGAAAATTTTATGCAACAAAAAGTGTGAAGATATTTAACGAAAAAAGGTAGATCTTGAATGTGTT
GTAGCACGAATAAATTGCTGTACTTCATTAAAGCTTCATTGCCAATTAGCTAGGAATTGTTAAGCACATT
GCAGATTGTTCTTGGAGAATTCTGGAGTTGTTATGAACATGAATACCAACGAAAAACCTTAAGTGAATC
TAAAGAAAACTATTTGAAGATGGTGGTGGAGCTGCAAAATAGCTGGATGGATTGAAATGATTGGGATG
ATACATCATTGAACTGCACTTTATATAACCAAAGCTTAGCAGTTTGTAGATAAGAGTCTATGTATGTC
TCTGGTTAGGATGAAGTTAATTTTATGTTTTAACATGGTATTTTGAAGGAGCTAATGAAACACTGGA
CATATAATTGGTTTAAACATAAGGGGAATTAAGTCTTTGTAGTCTGTCATTTTTTAAAGTGGATCCTCT
TGGATGCGTTATTTTCTCATCAGCTGGCTCTGATCATGAATTTGTTGTAATTTTATGTTGTAAGTCTG
CATTTAAGAAATGGTAGAGTATTTAATCCTATTACTTGACTAAGAGTGTGAAGGTAGTACTTTTAGA
GTGCACTGAGTGAAGTTTACATCTTTATTTAAATTTTTTTTAAACATCTTATGTTTACAGGCTTCCTGT
TTGATGAAGATAGCAACGAAAACTCAAATGGTGGCAGTTCTTATTACAGTTGTTAGTATTGTTTCT
GGAAACTGCTTGCCAAGACAACATTTATTAAGTGTGTTGAACAGGATGCAATCTTTGTTGTCTAAAGGTGCTG
CAGTAAAAAACAACCTTTTCTTTCAATATGGCATGTAGTGGAGTTTTTAACTTTAAAAACAT
CAAAAATTGTTAAATCATTGTGTTATCTAGTAGTTTATAATTATCGGCTTATTTCCCATGAATGA
TCAGAACTGACATTTAATTCATGTTGTCTCGCCATGCTTCTTTACTTTAACATATTTCTTTGCAGAA
TGTAAGGTAATGATAATTAGTTTATATAAGTGTACTGGCTGTAATGATGCTAAATATACTTTATGC
AATTAAGGCTTACAGAACATGTTGAACTTTTTTACTTTTATTGGAATAAGGAATGTTGCACCTC
CACATTTTATTGCTTCTGGATGTGAAATCATGTAATTATTTCTGCTGTTATATAAAGTGCCATCTTT
AATAAGGAAATGTACATATGAAA
ACGCGTAAGCGGCCGCGCATCTAGATTCGAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: NM_014363.6

Summary:

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]

Locus ID:

26278

MW:

52