

Product datasheet for **SC308907**

Senataxin (SETX) (NM_015046) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Senataxin (SETX) (NM_015046) Human Untagged Clone
Tag:	Tag Free
Symbol:	SETX
Synonyms:	ALS4; AOA2; bA479K20.2; SCAN2; SCAR1; Sen1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_015046, the custom clone sequence may differ by one or more nucleotides

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ATGAGCACATGTTGTTGGTGTACGCCAGGTGGTCTCCACCATTGACTTCTAAAGCGC
TATGCTTCCAACACTCCGTCCGGTGAATTTCAAACAGCCGACGAAGACCTCTGCTACTGC
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 GGGGAGCAGGAGAAGTGTGGTCCGAGACCCATCACACCAGGAGAACTTAGGTGGGAC

AAGAGGACACTGGAGCAGGAGGACAGCAGTTCCAAGAAAAGAAAGCTTTTATAG

Restriction Sites:

Please inquire

ACCN:

NM_015046

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_015046.4](#), [NP_055861.2](#)

RefSeq Size:

8583 bp

RefSeq ORF:

8034 bp

Locus ID:

23064

UniProt ID:

[Q7Z333](#)

Cytogenetics:

9q34.13

Gene Summary:

This gene encodes a protein named for its homology to the Sen1p protein of fungi which has RNA helicase activity encoded by a domain at the C-terminal end of the protein. The protein encoded by this gene contains a DNA/RNA helicase domain at its C-terminal end which suggests that it may be involved in both DNA and RNA processing. Mutations in this gene have been associated with ataxia-ocular apraxia-2 (AOA2) and an autosomal dominant form of juvenile amyotrophic lateral sclerosis (ALS4). [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) represents the shortest transcript and encodes the shorter isoform (1). Variants 1 and 2 encode the same isoform (1).