

Product datasheet for RR201073

Stn1 (NM_001011943) Rat Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	Stn1 (NM_001011943) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stn1
Synonyms:	Obfc1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	<pre>>RR201073 representing NM_001011943 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCG

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC<mark>GCGATCGC</mark>C

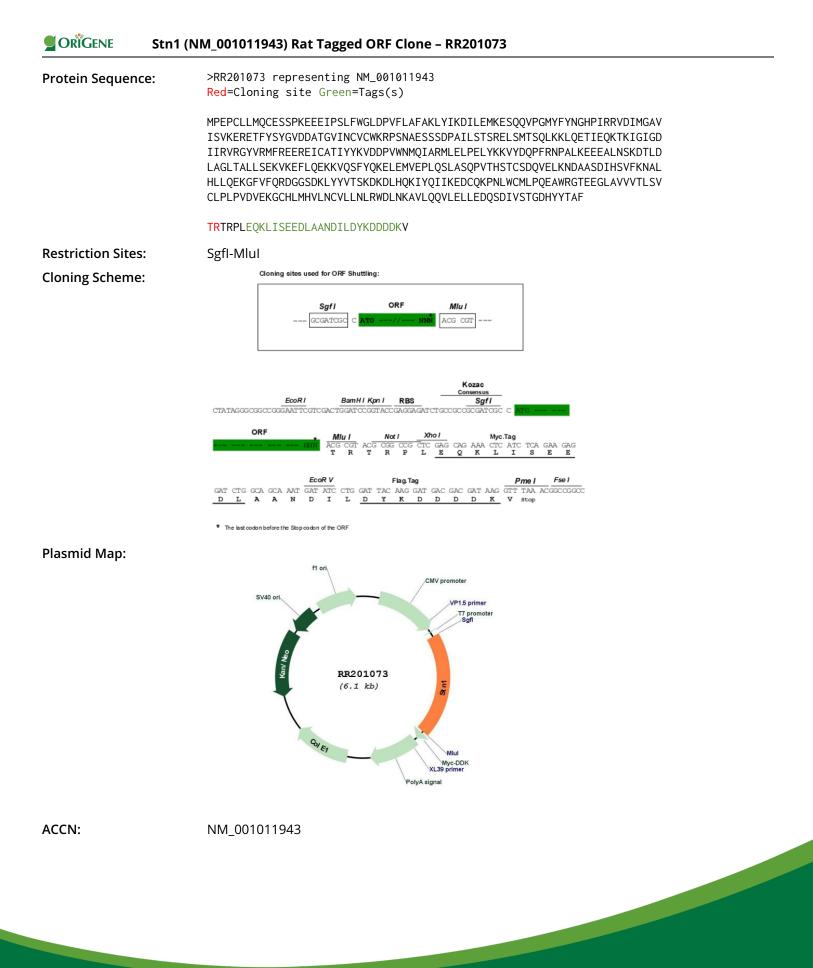
ATGCCAGAACCTTGCCTTTTGATGCAGTGCGAATCCAGTCCAAAAGAAGAGGAGATCCCGTCCCTCTTT GGGGTCTGGATCCCGTGTTTCTAGCCTTTGCAAAACTCTACATCAAGGACATCCTGGAGATGAAGGAGTC CCAACAAGTGCCAGGCATGTATTTTTACAATGGACATCCAATAAGACGGGTGGATATCATGGGAGCTGTC ATCAGTGTGAAAGAGAGAGAGAGACTTTCTACAGCTATGGAGTGGATGACGCCACAGGGGTTATAAACTGTG TGTGCTGGAAAAGGCCAAGCAATGCCGAGTCTTCATCAGACCCAGCTATTCTGAGCACTTCGAGAGAACT CAGCATGACCTCACAGCTTAAGAAACTGCAGGAGACCATTGAGCAGAAAACCAAGATCGGGATTGGGGAT ATCATCCGAGTCCGAGGCTACGTGCGTATGTTCCGAGAAGAGCGAGAGATCTGTGCCACCATTTATTATA AGGTGGACGATCCAGTGTGGAACATGCAAATTGCAAGGATGCTTGAGCTGCCAGAGCTCTACAAGAAGGT GTATGACCAGCCCTTCCGGAACCCAGCCCTAAAGGAGGAAGAGGCACTAAACAGTAAAGACACTTTGGAT CTCGCTGGCCTCACGGCTTTGTTGAGTGAGAAAGTTAAAGAATTTCTCCAGGAGAAGAAAGTGCAAAGCT TCTACCAGAAGGAGCTGGAAATGGTGGAGCCCTTGCAGTCTCTGGCCAGTCAGCCCGTGACCCACAGCAC GTGCTCGGACCAAGTGGAGTTAAAGAACGACGCCGCTTCTGACATACACAGTGTGTTTAAGAATGCTCTG CACCTGCTTCAGGAAAAGGGGTTCGTGTTCCAGAGAGACGGTGGCTCCGATAAGCTGTACTATGTTACCA GTAAGGACAAAGACCTGCACCAGAAGATCTACCAGATCATTAAGGAAGACTGTCAGAAACCAAATCTGTG GTGCATGCTGCCTCAGGAGGCCTGGAGAGGGACTGAGGAAGGCCTGGCCGTCGTGGTCACACTTAGTGTC TGCCTGCCCTTGCCCGTAGATGTGGAGAAGGGCTGCCACTTGATGCACGTCCTGAACTGCGTGCTCCTCA ACCTCCGCTGGGACCTGAACAAGGCTGTGCTGCAGCAGGTGCTGGAGGCTCCTGGAGGACCAGAGCGACAT TGTGAGTACTGGAGACCACTACTACACGGCCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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GRIGENE Stn1 (NM_001011943) Rat Tagged ORF Clone – RR201073

ORF Size:	1224 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 001011943.1, NP 001011943.1</u>
RefSeq Size:	1555 bp
RefSeq ORF:	1227 bp
Locus ID:	294025
UniProt ID:	Q6AYD2
Cytogenetics:	1q54
MW:	46.8 kDa

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CRIGENE Stn1 (NM_001011943) Rat Tagged ORF Clone – RR201073

Component of the CST complex proposed to act as a specialized replication factor promoting Gene Summary: DNA replication under conditions of replication stress or natural replication barriers such as the telomere duplex. The CST complex binds single-stranded DNA with high affinity in a sequence-independent manner, while isolated subunits bind DNA with low affinity by themselves. Initially the CST complex has been proposed to protect telomeres from DNA degradation. However, the CST complex has been shown to be involved in several aspects of telomere replication. The CST complex inhibits telomerase and is involved in telomere length homeostasis; it is proposed to bind to newly telomerase-synthesized 3' overhangs and to terminate telomerase action implicating the association with the ACD:POT1 complex thus interfering with its telomerase stimulation activity. The CST complex is also proposed to be involved in fill-in synthesis of the telomeric C-strand probably implicating recruitment and activation of DNA polymerase alpha. The CST complex facilitates recovery from many forms of exogenous DNA damage; seems to be involved in the re-initiation of DNA replication at repaired forks and/or dormant origins. Required for efficicient replication of the duplex region of the telomere. Promotes efficient replication of lagging-strand telomeres. Promotes general replication start following replication-fork stalling implicating new origin firing. May be in involved in C-strand fill-in during late S/G2 phase independent of its role in telomere duplex replication (By similarity).[UniProtKB/Swiss-Prot Function]

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