

Product datasheet for TP505901

Stn1 (NM_175360) Mouse Recombinant Protein

Product data:

OriGene Technologies, Inc.

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Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse STN1, CST complex subunit (Stn1), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR205901 protein sequence Red=Cloning site Green=Tags(s)
	MECESSPREEEIPPLFWGLDPVFLAFAKLYIKDILEMKESQQVPGTYFYNGHPIRRVDIMGAVISVKERE TFYSYGVDDATGVINCVCWKKLSNAESSSDPAILSTARELSMTSQLKKLQETIEQKTRIGIGDIIRVRGS VRMFREEREICANIYYKVDDPVWNMQIARMLELPKLYQKVYDQPFRNPALQEEEALNNKDNLDLAGLTSL LSEKIKEFLQEKKMQSFYQQELETVESLQSLASRPVTHSTGSDQVELKDSGTSGVAQRVFKNALQLLQEK GLVFQRDSGSDKLYYVTTKDKDLQQKIYHIIKEDCQKPNHMEKGCHLLHILKCVHLNLRWDLSKAVLQRV LELLEDQSDIVSTADHYYAAF
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	42.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP 780569</u>
Locus ID:	108689
UniProt ID:	<u>Q8K2X3</u>



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	Stn1 (NM_175360) Mouse Recombinant Protein – TP505901
RefSeq Size:	1878
Cytogenetics:	19 C3
RefSeq ORF:	1113
Synonyms:	0610009H20Rik; 2310057J23Rik; AAF-44; AAF44; Al413458; Obfc1; RPA-32
Summary:	Component of the CST complex proposed to act as a specialized replication factor promoting 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 (PubMed:19854130). However, the CST complex has been shown to be involved in several aspects of telomere replication. The CST complex has been shown to be involved in several aspects of telomere replication. The CST complex inhibits 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 (PubMed:22748632). 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 efficient 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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