

Product datasheet for TP505901

Stn1 (NM_175360) Mouse Recombinant Protein

Product data:

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)
	MECESSPREEEIPPLFWGLDPVFLAFKLYIKDILEMKESQQVPGTYFYNGHPIRRVDIMGAVISVKERE TFYSYGVDDATGVINCVCWKKLSNAESSSDPAILSTARELSMTSQLKKLQETIEQKTRIGIGDIIRVRGS VRMFREEREICANIYYKVDDPVWNMQIARMLLEPKLYQKVYDQPFNPALQEEEEALNNKDNLDLAGLTSL LSEKIKEFLQEKKMQSFYQQELETVESLQSLASRPVTHSTGSDQVELKDSGTSGVAQRVFNALQLLQEK GLVFQRDSGSDKLYYVTTKDKDLQKQIYHIIKEDCQKPNHMEKGCHLLHILKCVHLNLRWDLKAVLQVR LELLEDQSDIVSTADHYAAAF
	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:	NP_780569
Locus ID:	108689
UniProt ID:	Q8K2X3



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RefSeq Size:	1878
Cytogenetics:	19 C3
RefSeq ORF:	1116
Synonyms:	0610009H20Rik; 2310057J23Rik; AAF-44; AAF44; AI413458; Obfc1; RPA-32
Summary:	<p>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 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 (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]</p>