

Product datasheet for **TP520183**

Sars (NM_011319) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse seryl-aminoacyl-tRNA synthetase (Sars), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR220183 representing NM_011319 Red =Cloning site Green =Tags(s)

MVLDDLFRVDKGGDPALIRETQEKRFKDPGLVDQLVKADSEWRRRCFRADNLNKLNLCSTIGEKMKK
KEAVGDDESPENVLNFDDLADALAALKVSIKKVRLIDEAIQKCDGERVKLEAERFENLREIGNLLH
PSVPISNDEADNKVERIWGDCTVRKKYSHVDLVMVDGFEGEKGAVVAGSRGYFLKGPLVFLEQALIQY
ALRTLGSRGYTPITYPPFFMRKEVMQEAQLSQFDEELYKVIKVGSEKSDDNSYDEKYLIATSEQPIAALH
RDEWLRPEDLPIKYAGLSTCFRQEVGSHGRDTRGIFRVHQFEKIEQFVYSSPHDNKSWEMFDEMIATAEE
FYQSLGIPYHIVNIVSGSLNHAASKKLDLEAWFPGSGAFRELVSCSNCTDYQARRLRIRYGTCKMMDDKK
KNNLRFSTQNKLKAMSSLFSPKKVEFVHMLNATMCATTRTICAIENYQAEKGIAPVEKPLREFMPPGLQE
LIPFVKPAPIDQEPSKKQKKQHEGSKKKAKEVPLENQLQSMEVTEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	61.2 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_035449



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Locus ID: 20226

UniProt ID: [Q8C483](#)

RefSeq Size: 3704

Cytogenetics: 3 47.08 cM

RefSeq ORF: 1608

Synonyms: Sars1; serRS; Strs

Summary: Catalyzes the attachment of serine to tRNA(Ser) in a two-step reaction: serine is first activated by ATP to form Ser-AMP and then transferred to the acceptor end of tRNA(Ser). Is probably also able to aminoacylate tRNA(Sec) with serine, to form the misacylated tRNA L-seryl-tRNA(Sec), which will be further converted into selenocysteinyl-tRNA(Sec). In the nucleus, binds to the VEGFA core promoter and prevents MYC binding and transcriptional activation by MYC. Recruits SIRT2 to the VEGFA promoter, promoting deacetylation of histone H4 at 'Lys-16' (H4K16). Thereby, inhibits the production of VEGFA and sprouting angiogenesis mediated by VEGFA.[UniProtKB/Swiss-Prot Function]