

Product datasheet for TP515628

Gemin5 (NM_001166669) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse gem nuclear organelle associated protein 5 (Gemin5), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR215628 protein sequence Red=Cloning site Green=Tags(s)

MKPEPRTLPPSPNWYCSRCSDAAPGGIFGFAARTSVFLVRVGPAGASPGAPPFRVVGELVGHTERVSGF
TFSHHPGQYNLCATSSDDGTVKVWDVETKTWTEHTLHQHTISALHWSPTVKDLIVSGDEKGVVFCYWLN
RNDSQLHFTPEPTIFCLTCSPHHENLVAIGYKDGIVIIDISKKGEVIHRLRGHDDEIHSIAWCPLSGED
CLISISQEENSEEPDIPNGKLIETPITKGCYLATGSKDQTIRIWSCSRGRGVMVLKLPFLKRRSGGVDPT
VKERLWLTLHWPKNQPTQLVSSCFGGELLWDLTQSWRRKYTLFSTSAEGHNHSRIVFNLCSLKTEDGKQ
LLLSTSMDRDVKCWDMATLECCWTLPSLGGFAYSALFSPVDVGSALIGVGDGMIRVWNTLSIKNNYDVK
FWQGVKSKVTALCWHPNKEGCLAFGTDDGKVGLYDTC SNKPPQISSTYHKKTVYRLAWGPPVPPMSLGGE
GDRPSLTLYSCGGEGVVLQHNPWKLSGEAFDINKLVRDNTSIRYKLPVHTEISWKGDGKVLALGNEDGSI
EIFQVPNLRLCTIQHHKLVNAIWHHEHGSRPPELSCLLASGSNNAVIYVHNLKAVLESNPDPITITE
PYRTLSGHTAKITSLAWSPHHDGRLVSACYDGTAAQVWDALREEPLFNFRGHRGRLLCVAWSPVDPECIYS
GADDFCVYRWLTSMQDHSRPPQGKKCIELEKKRLSQFKPKLKKKKKPTLRLPVKQDSSVGNEDSVKENS
GPAENGLSDQDGEEEAQEPPELPPSPVVCVEPVSTDISSGFEKSKVTVSSKATSLKKEPPKEKPEALLKK
RKARSMLPLSTSLDHRKEELHRDCLVLATATHAKAELNEDVSADLEERFHLGLFTDRATLYRMMETEGK
GHLESGHPELFHQLMLWKGDLDKGVLQAAAERGELTDSLAVAVPVAGYSVWLWAVEAFKQLCFQDQYVKA
ASYLLSIHKVYEAVELLKSNHLYREAI AVAKARLPEDPVKELYLSWGSILERDGHYIAIAAKCYLGATS
AYDAAKVLARKGDAASLR TAAELAAIAGEHELAASLALRCAQELLLVKNWVGAQEALGLHESLQGQRLVF
CALLELLCRHLEEKQPLEVRGPSSYHQWATGSEGLVQRTGVWRSFVSDTPEQCQAALQKLQDVKYPS
ATSNTPFQRLLLHVCHDLTLAMLSQQA AWEEAVPALLQAVVRSYTSGNFTLMQEIYSAFLPGGCDHLRD
KLGDLSPAMAAYKSLEAFCIYGQLYEVWWSLCPGPPESSVWVLSAESTVSDKQSKPEDSAGAEDMEQPPG
PGPRLSAESERLLSACKELFSERHASLQTSQRTVAEVQETLAEMIRQH QKSQ LCKATTNGPSRDEPSRDE
PSQEAERAPSQPPSPTEERNAPVSLPELTRRLTEANERIAEFPETVKAWPFPDVLECCLVLLHIGSQCPD
AVDPEMQQAQELLHKYGHTRAYRRHCQSRHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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Tag:	C-MYC/DDK
Predicted MW:	166.5 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_001160141
Locus ID:	216766
UniProt ID:	Q8BX17 , E9PUU4 , Q3TR97
RefSeq Size:	6229
Cytogenetics:	11 B1.3
RefSeq ORF:	4509
Synonyms:	AA407055; AA407208; AI451603; BB194447; C330013N08
Summary:	Required for the assembly of the SMN complex that plays a catalyst role in the assembly of small nuclear ribonucleoproteins (snRNPs), the building blocks of the spliceosome. Thereby, plays an important role in the splicing of cellular pre-mRNAs. Most spliceosomal snRNPs contain a common set of Sm proteins SNRPB, SNRPD1, SNRPD2, SNRPD3, SNRPE, SNRPF and SNRPG that assemble in a heptameric protein ring on the Sm site of the small nuclear RNA to form the core snRNP. In the cytosol, the Sm proteins SNRPD1, SNRPD2, SNRPE, SNRPF and SNRPG are trapped in an inactive 6S pICln-Sm complex by the chaperone CLNS1A that controls the assembly of the core snRNP. Dissociation by the SMN complex of CLNS1A from the trapped Sm proteins and their transfer to an SMN-Sm complex triggers the assembly of core snRNPs and their transport to the nucleus. GEMIN5 acts as the snRNA-binding protein of the SMN complex. Binds to the 7-methylguanosine cap of RNA molecules (By similarity). Binds to the 3' UTR of SMN1 mRNA and regulates its translation; does not affect mRNA stability (PubMed:25911097). May play a role in the regulation of protein synthesis via its interaction with ribosomes (By similarity).[UniProtKB/Swiss-Prot Function]