Recombinant Mouse Polymerase I and transcript release factor (Ptrf)

Product Code	CSB-EP019070MO
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O54724
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	MEDVTLHIVE RPYSGFPDAS SEGPEPTQGE ARATEEPSGT GSDELIKSDQ VNGVLVLSLL DKIIGAVDQI QLTQAQLEER QAEMEGAVQS IQGELSKLGK AHATTSNTVS KLLEKVRKVS VNVKTVRGSL ERQAGQIKKL EVNEAELLRR RNFKVMIYQD EVKLPAKLSV SKSLKESEAL PEKEGDELGE GERPEDDTAA IELSSDEAVE VEEVIEESRA ERIKRSGLRR VDDFKKAFSK EKMEKTKVRT RENLEKTRLK TKENLEKTRH TLEKRMNKLG TRLVPVERRE KLKTSRDKLR KSFTPDHVVY ARSKTAVYKV PPFTFHVKKI REGEVEVLKA TEMVEVGPED DEVGAERGEA TDLLRGSSPD VHTLLEITEE SDAVLVDKSD SD
Source	E.coli
Target Names	Cavin1
Protein Names	Recommended name: Polymerase I and transcript release factor Alternative name(s): Cav-p60 Cavin-1
Expression Region	1-392
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full length protein
Target Details	This gene encodes a protein that enables the dissociation of paused ternary polymerase I transcription complexes from the 3 end of pre-rRNA transcripts. This protein regulates rRNA transcription by promoting the dissociation of transcription complexes and the reinitiation of polymerase I on nascent rRNA transcripts. This protein also localizes to caveolae at the plasma membrane and is thought to play a critical role in the formation of caveolae and the stabilization of caveolins. This protein translocates from caveolae to the cytoplasm after insulin stimulation. Caveolae contain truncated forms of this protein and may be the site of phosphorylation-dependent proteolysis. This protein is also thought to modify lipid metabolism and insulin-regulated gene expression. Mutations in this gene result in a disorder characterized by generalized lipodystrophy and muscular dystrophy.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a

	concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.