

Product datasheet for **TP507572**

Unc84b (BC098208) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse unc-84 homolog B (<i>C. elegans</i>) (cDNA clone MGC:106463 IMAGE:6827666), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR207572 protein sequence Red =Cloning site Green =Tags(s)

MSRRSQRLLTRYSQDDNDGGSSSSGASSVAGSQGTVFKDSPLRTLKRKSSNMKHLSPAPQLGPSSDSHTSY
YSESVRESYIGSPRAVSLARSALLDDHLHSEPYWSGDLRGRRRRGTGGSESSKANGLTAESKASEDFFG
SSSGYSSDDL LAGYTDSDQHSSGSRLRSAASRAGSFVWTLVTFPGRLFGLLYWWIGTTWYRLTTAASLLD
VFLTRHFSLNLKSFLWFLLLLLLLTGLTYGAWHFYPLGLQTLQPAVSWWAAKESRKQPEVWESRDASQ
HFQAEQRVLSRVHSLERRLEALAADFSSNWQKEAIRLERLELRQGAAGHGGSSLSHEDALSLEGLVSR
REATLKEDLRRDVAHIQEELATLRAEHHQDSEDLFKKIVQASQSEARVQQLKTEWKSMTQEAFQESSV
KELGRLEAQLASLRQELAALTLKQNSVADEVGLLPQKIQAARADVSGKYPEPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	52.6 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.
Locus ID:	223697



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UniProt ID: [Q8BJS4](#)

RefSeq Size: 4142

Cytogenetics: 15 E1

RefSeq ORF: 1419

Synonyms: SUN2, C030011B15

Summary: As a component of the LINC (LIinker of Nucleoskeleton and Cytoskeleton) complex, involved in the connection between the nuclear lamina and the cytoskeleton. The nucleocytoplasmic interactions established by the LINC complex play an important role in the transmission of mechanical forces across the nuclear envelope and in nuclear movement and positioning. Specifically, SYNE2 and SUN2 assemble in arrays of transmembrane actin-associated nuclear (TAN) lines which are bound to F-actin cables and couple the nucleus to retrograde actin flow during actin-dependent nuclear movement. Required for interkinetic nuclear migration (INM) and essential for nucleokinesis and centrosome-nucleus coupling during radial neuronal migration in the cerebral cortex and during glial migration. Required for nuclear migration in retinal photoreceptor progenitors implicating association with cytoplasmic dynein-dynactin and kinesin motor complexes, and probably B-type lamins; SUN1 and SUN2 seem to act redundantly. The SUN1/2:KASH5 LINC complex couples telomeres to microtubules during meiosis; SUN1 and SUN2 seem to act at least partial redundantly. Anchors chromosome movement in the prophase of meiosis and is involved in selective gene expression of coding and non-coding RNAs needed for gametogenesis. Required for telomere attachment to nuclear envelope and gametogenesis. May also function on endocytic vesicles as a receptor for Rab5-GDP and participate in the activation of Rab5.[UniProtKB/Swiss-Prot Function]