

Product datasheet for **MR207572**

Unc84b (BC098208) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Unc84b (BC098208) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Unc84b |
| Synonyms: | SUN2, C030011B15 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>MR207572 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGAGACGAAGCCAGCGCCTACTCGCTACTCTCAGGATGATAACGATGGCGGCAGCAGCAGCAGT
 GTGCGAGCTCCGTGGCAGGAAGCCAGGGCACCGTGTAAAGACAGTCCCTCAGACTTTGAAGAGGAA
 ATCCAGCAACATGAAGCACCTGTCCCAGCTCCACAGCTGGGCCCTCCTCTGACTCCCACACCTCTAC
 TACAGCGAGTCTGTGGTTCGAGAGTCTACATCGGCAGCCCCGGGCTGTGTCCCTCGCCAGGAGTGCC
 TCCTGGATGACCACCTACACAGTGAAGCCACTGGAGCGGGACCTCGGGGAGGAGGAGAGGAAC
 AGGTGGTCTGAGAGCAGCAAGGCCAATGGGCTCACCGCGGAGCAAGGCCTCAGAAGACTTTTCGGA
 TCTTCTCAGGCTATTCTCAGAGGATGACCTTGCAAGGCTACACGGACTCAGACCAGCACAGCTCGGGT
 CCAGGTTAAGGAGTGCAGCATCTCGGGCCGGCTCTTTGTCTGGACTCTGGTCACTTTCCAGGCCGCT
 CTTTGGTCTTCTACTGGTGGATTGGCACCACTGGTACCGCTGACAAGTCTGCTCCCTCCTGGAT
 GTCTTCGCTCAACCAGGCACTTCTCGCTGAACCTGAAGAGTTTTCTGTGGTTCTTCTGCTCTGTCTAC
 TCCTGACTGGTCTGACCTACGGTCTTGGCATTATACCCCTTAGGGCTGCAGACATTGCAACCCGCTGT
 GGTCTCCTGGTGGGCAGCAAGAGAGCAGGAAGCAGCCAGAGGTGTGGGAATCCAGAGACGCTCCAG
 CACTTCCAGGCTGAGCAGCGCTTCTCTCCCGGTTCACTCTCTGGAGCGGCTGTGGAAGCCCTTGCTG
 CAGACTTTTCTCCAAGTGGCAGAAGGAGGCCATACGGCTGGAACGCCTGGAGCTGCGGCAGGGGCTGC
 TGGCAATGGAGGAGCAGTAGCCTGAGCCATGAAGATGCCCTGTCTCTCCTAGAAGGTTGGTGAGCCG
 CGCGAGGCTACCTGAAGGAGACTTGCAGGGACACAGTGGCTCATATCCAGGAAGAATTGGTACCC
 TGAGGGCAGAGCATCACAAGACTCGGAAGATCTTTCAAGAAGATCGTCCAGGCCTCAGGAGTCCGA
 AGCCCGAGTCCAGCAGCTGAAGACAGAATGGAAGAGCATGACCCAGGAGGCTTCCAGGAGACTCTGTG
 AAGGAGCTGGGACGGCTGGAAGCCAGCTGGCCAGCCTGCGGCAGGAGCTGGCTGCCCTGACTCTGAAGC
 AGAACTCGGTGGCAGATGAAGTGGCCTGCTGCCACAGAAGATCCAGGCTGCCAGGGCTGATGTGAGCG
 GAAGTACCCAGAGCCCTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207572 protein sequence
 Red=Cloning site Green=Tags(s)

MSRRSQRLTRYSDNDGGSSSSGASSVAGSQGTVFKDSPLRTLKRKSSNMKHLSPAPQLGPSSDSHTSY
 YSESVVRESYIGSPRAVSLARSALLDDHLHSEPYWSDLRGRRRRGTGGSESSKANGLTAEKASEDFFG
 SSSGYSEDDLAGYTDSQHSRSLRASAASRAGSFVWTLVTFPGRLFGLLYWWIGTTWYRLTTAASLLD
 VFLVLRHFSNLKSLWFLLLLLLLTGLTYGAWHFYPLGLQLQPAVVSWWAAKESRKQPEVWESRDASQ
 HFQAEQVLSRVHSLERRLEALAADFSSNWQKEAIRLERLELRQGAAGHGGSSLSHEDALSLLEGLVSR
 REATLKEDLRRDVAHIQEELATLRAEHHQDSEDLFKKIVQASQSEARVQQLKTEWKSMTQEAFQESSV
 KELGRLEAQLASLRQELAAALTLKQNSVADEVGLLPQKIQAARADVSGKYPEPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: BC098208

ORF Size: 1419 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [BC098208](#), [AAH98208](#)
RefSeq Size: 4142 bp

RefSeq ORF: 1421 bp

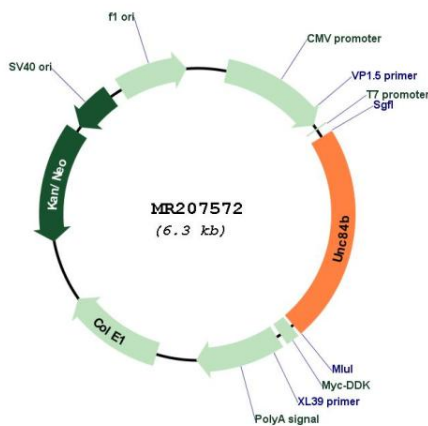
Locus ID: 223697

Cytogenetics: 15 E1

MW: 52.6 kDa

Gene Summary: As a component of the LINC (Linker 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]

Product images:



Circular map for MR207572