

Product datasheet for **MC205392**

Pafah1b1 (NM_013625) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pafah1b1 (NM_013625) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pafah1b1
Synonyms:	LIS-1; Lis1; Mdsh; MMS10-U; Ms10u; Pafaha
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC014831
 GCGGAGTCCGGCCGCGAGATAGCGAGTGAGGGAGCGAAGGAGCAGCGAGCCGAGAGTCCAGGGAGCGAG
 GAGGACCCGGAGGGGAGCGCTCAGGCGCGAGCGAGAGGACGAGCGAACGCTGGGCTAGGGCTCGAGCCCC
 GGAACGGCCGAGGAGCCCGCCGCGGCCCTCCCCCTCCCCCTCCCCGGGACCGGGCCAGCGCGCCATCCT
 CCCCCTCCCTCCCTCCCTCCCTCCTTCCCTCCCTCCCTCCCTCCCCCTCCCCGCTGGTGGATGGGAG
 TGAAGGACGGAAGAGGCCCTGCGGAGGCGGTGGTGCAGCGCTCCGGTGAATGAACCTTACTTGTGACT
 GGTTGCTGATTGGATTCACCTGAAAAAAGAATCATTTTTCCCTCTGTGGAAGCCACATAGTGGCATATT
 TAATTCAAATCCAGGGATCAACAATTTTGATTTTTCTGGAGGGACATACCACTATATCAAATAAGCTTGA
 CATTACAGCCAAAATGGTGTGTCCAGAGACAACGAGATGAACTAAATCGAGCTATAGCAGATTATCTT
 CGTTCAAATGGCTATGAAGAGGCATATTCGGTTTTTAAAAAGGAAGCTGAACTAGATATGAATGAAGAAT
 TAGATAAGAAATGCTGGTCTTTTGGAAAAAATGGACATCTGTTATTAGATTACAAAAAAGGTAAT
 GGAATTAGAATCAAACTAAATGAAGCAAAAGAAGATTTACGTCGGGTGGTCTCTTGGTCAGAAACGG
 GACCCAAAAGAATGGATCCCGTCCACCTGAGAAATACGCATTGAGTGGTCATAGGAGTCCAGTACTC
 GAGTCATTTTCCATCCTGTGTTCACTGTTATGGTCTCTGCTTACAGAGGATGCTACAATTAAGGTGTGGGA
 TTATGAGACTGGAGATTTTGGAGCAACTCTCAAGGGCCATACAGACTCTGTACAGGACATTTCTTTGAC
 CACAGTGGCAAGCTTCTGGCTTCTGTTACGAGATATGACGATTAATTAATGGGATTTTCAAGGTTTTG
 AATGCATCAGAACCATGCACGGTACGATCACAATGTCTTTCAGTAGCCATCATGCCTAATGGAGATCA
 TATAGTGTCTGCCTCAAGGGATAAACTATAAAGATGTGGGAAGTGCAAAGTGGCTACTGTGTGAAGACA
 TTCACAGGACACAGAGAAATGGGTACGTATGGTGCAGCAAAATCAGGATGGCACTCTGATAGCCAGCTGTT
 CCAATGACCAGACTGTGCGTGTGTGGGTGTAGCAACAAAGGAATGCAAGGCTGAGCTCCGAGAACATGA
 ACATGTGGTGGAAATGCATTTCTGGGCTCCAGAAAGTTCATATTCTTCCATCTCTGAAGCAACAGGATCT
 GAGACTAAAAAAGTGGCAAGCCTGGACCTTCTTGTCTATCTGGTCCAGAGACAAAATTAAGATGT
 GGGACCTCAGTACTGGCATGTGCCTTATGACTCTTGTGGGTGATGATAACTGGGTACGTGGAGTTCTGTT
 CCATTCTGGGGGAAGTTTATTTTGGAGTTGTGCTGATGACAAGACCCTCCGTGTATGGGATTATAAGAAC
 AAGCGATGCATGAAGACCCTCAATGCGCATGAACACTTTGTTACCTCCTTGGATTCCATAAGACGGCAC
 CCTATGTGGTTACTGGCAGTGTAGATCAAAAGTAAAGGTGTGGGAGTCCGTTGATTGAGTCACATTTG
 GTTCTTCTCCCTTTTTTCTCTGGATGCACTCTGATGATACCATGGTTACCCCATTTGAGCTCTGTTTA
 AATAAATATTGCTTTTTCATGTAATTTCTGGATGTAGATTGAACTTATTAATGTTACACACAAAGT
 ATTCATGCATGGTGAATCCAAATTTGATACTGTAATTTACATATGTTGTCTAGAAGTACCATAGGGTTT
 AAAAACCTGGGCTGGCATTGGTCACACCAGGCCTACAAGGGCAGAAGTTAAATAAATTGAACTAGGGCAC
 TAAACTGAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_013625

Insert Size: 1233 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC014831](#), [AAH14831](#)

RefSeq Size: 2052 bp

RefSeq ORF: 1233 bp

Locus ID: 18472

UniProt ID: [P63005](#)

Cytogenetics: 11 45.76 cM

Gene Summary: Positively regulates the activity of the minus-end directed microtubule motor protein dynein. May enhance dynein-mediated microtubule sliding by targeting dynein to the microtubule plus end. Required for several dynein- and microtubule-dependent processes such as the maintenance of Golgi integrity, the peripheral transport of microtubule fragments and the coupling of the nucleus and centrosome. Required during brain development for the proliferation of neuronal precursors and the migration of newly formed neurons from the ventricular/subventricular zone toward the cortical plate. Neuronal migration involves a process called nucleokinesis, whereby migrating cells extend an anterior process into which the nucleus subsequently translocates. During nucleokinesis dynein at the nuclear surface may translocate the nucleus towards the centrosome by exerting force on centrosomal microtubules. Also required for proper activation of Rho GTPases and actin polymerization at the leading edge of locomoting cerebellar neurons and postmigratory hippocampal neurons in response to calcium influx triggered via NMDA receptors. May also play a role in other forms of cell locomotion including the migration of fibroblasts during wound healing. Non-catalytic subunit of an acetylhydrolase complex which inactivates platelet-activating factor (PAF) by removing the acetyl group at the SN-2 position. Required for dynein recruitment to microtubule plus ends and BICD2-bound cargos (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) encodes a functional protein.