

Product datasheet for **MG206439**

Pafah1b1 (BC026141) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pafah1b1 (BC026141) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pafah1b1
Synonyms:	Lis1, LIS-1, MGC25297, MMS10-U, Ms10u
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206439 representing BC026141 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGTGTCCAGAGACAACGAGATGAACTAAATCGAGCTATAGCAGATTATCTTCGTTCAAATGGCT
ATGAAGAGGCATATTCGGTTTTTAAAAAGGAAGCTGAACTAGATATGAATGAAGAATTAGATAAGAAGTA
TGCTGGTCTTTTGGAAAAAATGGACATCTGTTATTAGATTACAAAAAAGGTAATGGAATTAGAATCA
AACTAAATGAAGCAAAGAAGAATTTACGTCGGGTGGTCTCTTGGTCAGAAACGGGACCCAAAAGAAT
GGATCCCGTCCACCTGAGAAATACGCATTGAGTGGTCATAGGAGTCCAGTTACTCGAGTCATTTTCCA
TCCTGTGTTCAAGTGTATGGTCTCTGCTTCAGAGGATGCTACAATTAAGGTGTGGGATTATGAGACTGGA
GATTTTGAGCGAACTCTCAAGGGCCATACAGACTCTGTACAGGACATTTCTTTGACCACAGTGGCAAGC
TTCTGGCTTCTGTTTCAGCAGATATGACGATTAATTAATGGGATTTTCAGGGTTTTGAATGCATCAGAAC
CATGCACGGTCACGATCACAATGTCTTTCAGTAGCCATCATGCCTAATGGAGATCATATAGTGTCTGCC
TCAAGGGATAAACTATAAAGATGTGGGAAGTGCAAACTGGTACTGTGTGAAGACATTCACAGGACACA
GAGAATGGGTACGTATGGTGCAGCAAAATCAGGATGGCACTCTGATAGCCAGCTGTTCCAATGACCAGAC
TGTGCGTGTGGGTTGTAGCAACAAAGGAATGCAAGGCTGAGCTCCGAGAACATGAACATGTGGTGGAA
TGCAATTTCTGGCTCCAGAAAGTTCATATTCTTCCATCTTGAAGCAACAGGATCTGAGACTAAAAAAA
GTGGCAAGCCTGGACCTTCTTGCTATCTGGTTCCAGAGACAAAATTAAGATGTGGGACGTCAGTAC
TGGCATGTGCCTTATGACTCTTGTGGGTATGATAAAGTGGTACGTGGAGTTCTGTTCCATTCTGGGGG
AAGTTTATTTGAGTTGTGCTGATGACAAGACCCTCCGTGTATGGGATTATAAGAACAAGCGATGCATGA
AGACCCTCAATGCGCATGAACACTTTGTTACCTCCTTGGATTTCCATAAGACGGCACCTATGTGGTTAC
TGGCAGTGTAGATCAAACAGTAAAGGTGTGGGAGTGCCGT

ACGGTACGGCGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206439 representing BC026141
 Red=Cloning site Green=Tags(s)

MVLSQRQRDELNRAIADYLRSNGYEEAYSVFKKEAELDMNEELDKKYAGLLEKKWTSVIRLQKKVMELES
 KLNEAKEEFTSGGPLGQKRDPKEWIPRPPEKYALSGHRSPVTRVIFHPVFSVMVSASEDATIKVWDYETG
 DFERTLKGHTDSVQDISFDHSGKLLASCSADMTIKLWDFQGFECIRTMHGHDHNVSVAIMPNGDHIVSA
 SRDKTIKMWEVQTGYCVKFTFGHREWVRMVRPNQDGLIASCSNDQTVRVVVVATKECKAELREHEHVVE
 CISWAPESSYSSISEATGSETKKSGKPGPFLLSGSRDKTIKMWDVSTGMCLMTLVGHDNWVRGVLFHSGG
 KFILSCADDKTLRWVDYKNKRCMKTLNAHEHFVTSLDFHKTAPYVVTGSVDQTVKWECR

TRTRPLE - GFP Tag - V

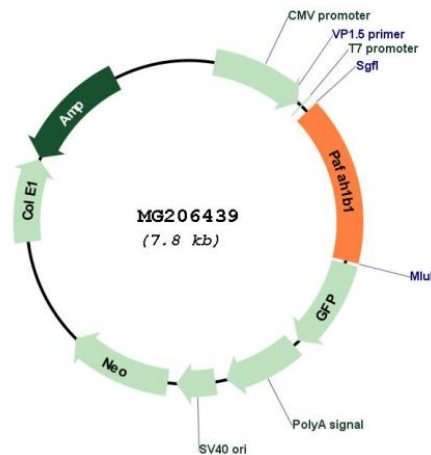
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

BC026141

ORF Size:	1232 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:	<ol style="list-style-type: none">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:	BC026141 , AAH26141
RefSeq Size:	1935 bp
RefSeq ORF:	1232 bp
Locus ID:	18472
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]