

## Product datasheet for **MG216370**

### Plekhm2 (NM\_001033150) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Plekhm2 (NM_001033150) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plekhm2
Synonyms:	2310034J19Rik; AI854247; mKIAA0842
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG216370 representing NM_001033150 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCCCGGGAGGTGAAGGACCGAATCCTGGAGAACATCTCGCTGTCGGTGAAGAAGCTGCAGAGCT  
ACTTTGCAGCATGTGAGGACGAGACCCCTGCCATCCGGAACCACGACAAGGTCTGCAGCGCCTGTGTGA  
GCACCTGGACCACGCCCTGCTGTACGGTTGCAAGACTTGTCTCTGGCTACTGGGTGCTCGTGGTCCAT  
TTTACCCGAGAGAGGCCATCAGGCAAATTGAGGTGCTACAGCATGTAGCCACCAACCTGGGGCGAAGCC  
GAGCCTGGCTCTACCTGGCCCTCAATGAGAATTCCTTGGAGAGCTACCTGCGTCTGTTCCAGGAGAACCT  
GGGCTGTACAGAAGTACTATGTCAGGAACGCCCTGGTCTGCAGCCACGATCACCTGACTCTTTCCTG  
ACCTTGGTGTCTGGGTTGGAGTTTATTCGGTTCGACCTGGATCTGGACGCCCCGTAAGACTTGGCTC  
CGTACATGCCTGACTATTATAAACCTCAGTACCTGCTGGACTTTGAAGACCGCCTTCTAGCTCAGTCCA  
CGGTTACAGACAGCCTCTCCCTAACTCCTTCAATTCTGTACCTCCACCAACCTGGAATGGGACGACAGT  
GCAATTGCCCCATCTAGCGAGGATTATGATTTGGAGATGTGTTCCAGCAGTGCCGTCTGTACCCAGCA  
CAGACTGGGAAGATGGAGACCTCACGGACACCATCAGTGGTCCGCGTTCCACTGCTTCAGACCTGACCAG  
TAGCAAGACATCCACCAAGAGACCCACCCAGCGTCATAACCCCTTCAATGAGGAGCAAGCAGAGACTGCA  
TCATCCGACACCCCTGTGCACACTACCTCTCAGGAGAAGGAGGAGGCCAGGCCAGACAGCCAG  
ACGCTTGTACAGAGCTTGAAGTTATCAGGGTCACCAAGAAGAAGATTGGCAAGAAGAAAAAGACCAA  
GCTGGACGAGGATGCAAGCCCACTGCACCCACCTCTAGTCAGCAGAAATGTGGCCAGCAGGGGGAAGGT  
GATGGACTTGTGGCACCCAGGCTGGCGAGGGACCTTCGGACACTGTACTTGCTTCCCTCAGGAGC  
AAGGGGAAGGACTCAGCAGTACGGCTGGGAGCAGCGAGCTCTCCGAGCTCAGCCAGATGGCTTGTCTAT  
CCCCGAGATGAAGGACACCTCCATGGAGTGCTAGGACAGCCTCTGAGCAAGGTCAATGACAACTCCAC  
GGCCAGCTGGACCCTAGCACCTGGTGTCCCATGCCGATCCTCCGAGCAGTCTTTCGGGCCGGCTCTC  
CGGGGAGGCCCGGAGAAACCACCATTTTGCAGCTTTAGTGAGGGGCTCCAGCCCCATGGACTTCTA  
CCGGTTTACAGTCGAGAGTCCAAGTACTGTTGCACCAGGTGGCGCCACCATGACCTCCAGGGCCTAGC



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CAACCGCTGCATGTTCCCTGGTAGCCCTGCGGCTGCTCTCCAAGAAGAAGAAGAAGGAGGAGGAAGAGGAG  
 AGGGACAGACATCTCAGCCCCTAGAAGACCAGGCAAGGAGAGGAGATTGAGGAGCCAGAGCCTCAGGAACC  
 GGACAGCCAGTTGCCACTGGTCAGCCAGGAGCCCGTGCCCGAACCTGTGTCCCAGCCTGAACCTGGAACC  
 CACGAGGCTCTTTGCAAGCTCAAGCAGACCAGCCAGTCTTGTCTGAGCAGTGTGAGGACTCCGGGG  
 TAGAGGAGGGCCAGGGTAGCCCTCAGAGATGACGCACCCTCAGAGTTCAGAGTAGACAACAACCACTT  
 GCTCCTCTCATGATTCACGTCTTTGAGAAAAACGAAGAGCAGTTGTTCAAATGATCCGGATGAGCACA  
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 AAGGGGCCACAGAAAAGCCATACCTGGTGAAGAGGCTGTTTCTACAATGAACTTGACTATGTGTGCGT  
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 GACGTGGCCCTGGCTGAGCTCTTCTTGGCGTCTCTGAAGTCAGCCATGATCAAAGTTGCGCGGAACAC  
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 GCCCTGGGCCCTGTTCCCTGCCAGTGTACCCGCTGAGGGCACCATACCAAAGAAGGCATGCTGCACT  
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 GGTGGCTGCCGGAGATCCAACACCACGGATCGGCCCCACGCTTCCAGGTCATTCTGGCTGACCGGCCCT  
 GCCTGGAGCTAAGCGCCGACAGCGAGGCTGAGATGGCTGACTGGATGCAACATCTCTGCCAGGCCGTGTC  
 CAAAGGAGTCATACCCAGGGCATAGCTCCCAGCCCCTGTATCCCTTGTGCTGGTGTGATCACAGAGGAC  
 CGCCTTTCACCTGCCACGAGGATTGCCAAACCAGCTTCTTTCGCTCCCTGGGCACAGCCAGGCTGGCAG  
 ACATCACTGCCATCTCCACGGAGCTGGGCAAGGAATACTGTGTCTGGAGTTCTCCCAGGATAGCCACA  
 GCTGCTCCAGCCTTGGGTATCTACCTGAGCTGCACCTCCGAGCTGGACCGGTTCTGACTGCCCTGAGC  
 TCTGGGTGAAAGCCATCTACCAGGTAGACCTTCTACAAGGCCATCCATGAAGCTTCCATCAAGCAGA  
 AATTTGAAGACGCCCTGAGCCTCATCCACAGCGCTGGCAGCGGAGCGACAGTCTCTGCCCGGCAGGGC  
 CTCCCAGGACCCCTGGTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG216370 representing NM\_001033150  
 Red=Cloning site Green=Tags(s)

MEPREVKDRILENISLSVKKLQSYFAACEDETPAIRNHDKVLQRLCEHLDHALLYGLQDLSSGYWVLVH  
 FTRREAIRQIEVLQHVATNLGRSRAWLYLALNENSLESYLRLFQENLGLLQKYYVRNALVCSHDHLTLFL  
 TLVSGLEFIRFDLDDLAPYLDLAPYMPDYKPYLLDFEDRLPSSVHGSDSLSLNSFNSVTSTNLEWDDS  
 AIAPSSSEDYDFGDVFPVPSVPSDWDGDLDTISGPRSTASDLTSSKTSTKSPTQRHNPFNEEQAETA  
 SSDDTPVHTTSQEKEEAQAPDQPDACTELEVIRVTKKKKIGKKKTKLDEASPLHPTSSQQKCGQGEG  
 DGLVGTPGLARDPSDTVLASPQEQGEGLSSTAGSSELSELQMGILLIPEMKDTSMECLGQPLSKVIDKLH  
 GQLDPSTWCSHADPPEQSFRAAGSPGEAPEKPPFCDFSEGLPAPMDFYRFVTEPSTVAPGGGHHDPGPGS  
 QPLHVPGPSAAALQEEEEGGGRGEGTSQLPDRQGEIEQEPEPQEPDQLPLVSQEPVPEPVSQPEPGT  
 HEALCKLKRDPSPCLSSAEDSGVEEGQSPSEMTHPSEFRVDNHHLLLLMIHVFRENEEQLFKMI RMST  
 GHMEGNLQLLYVLLTDCYVYLLRKGATEKPYLVEEAVSYNELDYVSVGLDQQTVKLVCTNRRKQFLLDTA  
 DVALAELFLASLKSAMIKGREPPYPSILDTATMEKLALAKFVAQESKCEASAVTVHFYGLVHWEDPME  
 ALGPVPCQCSPAEGTITKEGMLHYKASTSYLGEHWKACFVVLNGLIYQYPRDTRDVIPLLSVNMGGEQC  
 GGRRSNTTDRPHAFQVILADRPCLELSADSEAEADWMQHLCAVSKGVIPQGIAPSPCIPCLVITED  
 RLFTCHEDCQTSFFRSLGTARLADITAI STELGKEYCVLEFSQDSPQLLPWVIYLSCTSELDRFLTALS  
 SGWKAIYQVLDLPHKAIHEASIKQKFEDALSLIHSWQRSDSLCRGRASRD PWC

TRTRPLE - GFP Tag - V

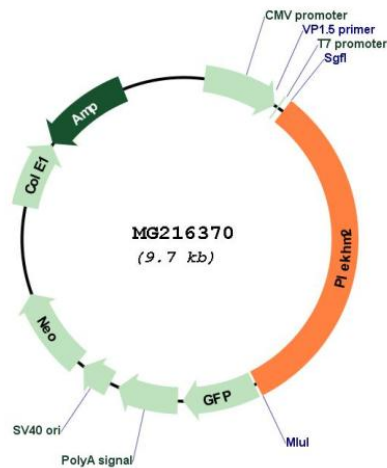
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001033150

ORF Size: 3099 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001033150.2</u>
<b>RefSeq Size:</b>	4178 bp
<b>RefSeq ORF:</b>	3102 bp
<b>Locus ID:</b>	69582
<b>UniProt ID:</b>	<u>Q80TQ5</u>
<b>Cytogenetics:</b>	4 E1
<b>Gene Summary:</b>	May play a role in the regulation of conventional kinesin activity. Required for maintenance of the Golgi apparatus organization. May play a role in membrane tubulation. May play a role in lysosomes movement and localization at the cell periphery.[UniProtKB/Swiss-Prot Function]