

Product datasheet for MR216370

Plekhm2 (NM_001033150) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plekhm2 (NM_001033150) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plekhm2
Synonyms:	2310034J19Rik; AI854247; mKIAA0842
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216370 representing NM_001033150 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCCGGGAGGTGAAGGACCGAATCCTGGAGAACATCTCGCTGTCGGTGAAGAAGCTGCAGAGCT
ACTTTGCAGCATGTGAGGACGAGACCCCTGCCATCCGGAACCACGACAAGGTCTGCAGCGCCTGTGTGA
GCACCTGGACCACGCCCTGCTGTACGGTTGCAAGACTTGTCTCTGGCTACTGGGTGCTCGTGGTCCAT
TTTACCCGACAGAGGCCATCAGGCAAATTGAGGTGCTACAGCATGTAGCCACCAACCTGGGGCGAAGCC
GAGCCTGGCTCTACCTGGCCCTCAATGAGAATTCCTTGGAGAGCTACCTGCGTCTGTTCCAGGAGAACCT
GGGCTGTACAGAAGTACTATGTCAGGAACGCCCTGGTCTGCAGCCACGATCACCTGACTCTTTCCTG
ACCTTGGTGTCTGGGTTGGAGTTTATTCGGTTCGACCTGGATCTGGACGCCCCGTAAGACTTGGCTC
CGTACATGCCTGACTATTATAAACCTCAGTACCTGCTGGACTTTGAAGACCGCCTTCTAGCTCAGTCCA
CGGTTACAGACAGCCTCTCCCTAACTCCTTCAATTCTGTACCTCCACCAACCTGGAATGGGACGACAGT
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CAGACTGGGAAGATGGAGACCTCACGGACACCATCAGTGGTCCGCTTCCACTGCTTCAGACCTGACCAG
TAGCAAGACATCCACCAAGAGACCCACCCAGCGTCATAACCCCTCAATGAGGAGCAAGCAGAGACTGCA
TCATCCGACACCCCTGTGCACACTACCTCTCAGGAGAAGGAGGAGGCCACAGCCAGACGACCCAG
ACGCTTGTACAGAGCTTGAAGTTATCAGGGTCACCAAGAAGAAGATTGGCAAGAAGAAAAAGACCAA
GCTGGACGAGGATGCAAGCCCACTGCACCCACCTCTAGTCAGCAGAAATGTGGCCAGCAGGGGGAAGGT
GATGGACTTGTGGCACCCAGGCTGGCGAGGGACCTTCGGACACTGTAAGTCTCCCTCAGGAGC
AAGGGGAAGGACTCAGCAGTACGGCTGGGAGCAGCGAGCTCTCCGAGCTCAGCCAGATGGCTTGTCTAT
CCCCGAGATGAAGGACACCTCCATGGAGTGCCTAGGACAGCCTCTGAGCAAGGTCAATTGACAAATCCAC
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CGGGGAGGCCCGGAGAAACCACCATTTTGCAGCTTTAGTGAGGGGCTCCAGCCCCATGGACTTCTA
CCGGTTTACAGTCGAGAGTCCAAGTACTGTTGCACCAGGTGGCGCCACCATGACCTCCAGGGCCTAGC



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CAACCGCTGCATGTTCTGGTAGCCCTGCGGCTGCTCTCCAAGAAGAAGAAGGAGGAGGAAGAGGAG
 AGGGACAGACATCTCAGCCCCTAGAAGACCGGCAAGGAGAGGAGATTGAGGAGCCAGAGCCTCAGGAACC
 GGACAGCCAGTTGCCACTGGTCAGCCAGGAGCCCGTGCCCGAACCTGTGTCCCAGCCTGAACCTGGAACC
 CACGAGGCTCTTTGCAAGCTCAAGCGAGACCAGCCAGTCTTGTCTGAGCAGTGTGAGGACTCCGGGG
 TAGAGGAGGGCCAGGGTAGCCCTCAGAGATGACGCACCCCTCAGAGTTCAGAGTAGACAACAACCACTT
 GCTCCTCTCATGATTCACGTCTTTCGAGAAAACGAAGAGCAGTTGTTCAAATGATCCGGATGAGCACA
 GGGCACATGGAGGTAATCTGCAACTGCTACTGTGCTACTCACAGACTGCTATGTCTACCTGTCTCGGA
 AAGGGGCCACAGAAAAGCCATACCTGGTGAAGAGGCTGTTTCTACAATGAACTTGACTATGTGTGCGGT
 TGGCCTCGACCAACAGACTGTCAAGCTGGTGTGCACCAACCGCAGGAAGCAGTTTCTGCTGGACACAGCC
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 CCTACCCAGCATCTGACTGATGCCACCATGGAGAAGCTGGCGTTGGCGAAATTTGTCGCCAGGAGTC
 CAAATGTGAGGCATCCGCGTGACCGTGCATTTCTATGGGCTTGTGACTGGGAGACCCCATGGAAGAG
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 CAAAGGAGTCATACCCAGGGCATAGCTCCCAGCCCCTGTATCCCTTGTCTGCCTGGTGTACAGAGGAC
 CGCCTTTCACCTGCCACGAGGATTGCCAAACCAGCTTCTTTCGCTCCCTGGGCACAGCCAGGCTGGCAG
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 GCTGTCCAGCCTTGGGTATCTACCTGAGCTGCACCTCCGAGCTGGACCGGTTCTGACTGCCCTGAGC
 TCTGGGTGAAAGCCATCTACCAGGTAGACCTTCTCACAAGGCCATCCATGAAGCTTCCATCAAGCAGA
 AATTTGAAGACGCCCTGAGCCTCATCCACAGCGCTGGCAGCGGAGCGACAGTCTCTGCCCGGCAGGGC
 CTCCCAGGACCCCTGGTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216370 representing NM_001033150

Red=Cloning site Green=Tags(s)

MEPREVKDRILENISLSVKKLQSYFAACEDETPAIRNHDKVLQRLCEHLDHALLYGLQDLSSGYWVLVHH
 FTRREAIRQIEVLQHVATNLGRRAWLYLALNENSLESYLRFLQENLGLLQKYVVRNALVCSHDHLTLFL
 TLVSGLEFIRFDLIDLAPYLDLAPYMPDYKPYLLDFEDRLPSSVHGSDSLNLNSFNSVTSTNLEWDDS
 AIAPSSSEDYDFGDVFPVAVPSVPSTDWEDGDLDTISGPRSTASDLTSSKTSTKSPTQRHNPFNEEQAETA
 SSDTTPVHTTSQEKEEAQAPDQPDACTELEVIRVTKKKKIGKKKKTKLDEDASPLHPTSSQKCGQGGEG
 DGLVGTPLARDPSDTVLASPQEQEGLSSTAGSSELSELQMGILLIPEMKDTSMECLGQPLSKVIDKLH
 GQLDPSTWCSHADPPEQSFRAQSPGEAPEKPPFCDFSEGLPAPMDFYRFTVEESPSTVAPGGGHHDPGPGS
 QPLHVPGPSAAALQEEEEGGGRGEGQTSQPLEDRQEEIQEPEPEPDSQLPLVSEQPEVPEVPSQPEPGT
 HEALCKLKRDPSPCLSSAEDSGVEEGQSPSEMTHPSEFRVDNHHLLLLMIHVFRENEEQLFKMIRMST
 GHMEGNLQLLYVLLTDCYVYLLRKGATEKPYLVEEAVSYNELDYVSVGLDQQTVKLVCTNRRKQFLLDTA
 DVALAELFLASLKSAMIKGCREPPYPSILTDATMEKLALAKFVAQESKCEASAVTVHFYGLVHWEDPMEE
 ALGVPVQCQSPAEGITKEGMLHYKASTSYLGKEHWKACFVVLNNGILYQYPRDTRDVIPLLSVNMGGEQC
 GGRRSNTTDRPHAFQVILADRPCLELSADSEAEADWMQHLCAVSKGVIPQGIAPSPCIPCLVITED
 RLFTCHEDCQTSFFRSLGTARLADITAIISTELGKEYCVLEFSQDPSQLLPWVIYLSCTSELDRFLTALS
 SGWKAIYQVDLPHKAIHEASIKQKFEDALSLIHSWQRSDSLCRGRASRDPCW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9096_a06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


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](#)

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: [NM_001033150.2](#)

RefSeq Size: 4178 bp

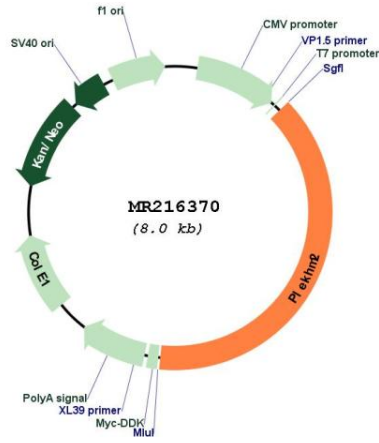
RefSeq ORF: 3102 bp

Locus ID: 69582

UniProt ID: [Q80TQ5](#)

Cytogenetics: 4 E1
MW: 114.4 kDa
Gene Summary: 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]

Product images:



Circular map for MR216370