

Product datasheet for RC220299

PLEKHM2 (NM_015164) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLEKHM2 (NM_015164) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLEKHM2
Synonyms:	SKIP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC220299 representing NM_015164 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCCGGGGAGGTGAAGGACCGGATCCTGGAGAACATCTCGCTGTCGGTGAAGAAGTTGCAGAGCT
ATTTTGTGCATGTGAGGATGAGATCCCTGCCATCCGGAACCATGACAAGGTCTACAGCGTCTGTGTGA
GCACCTGGACCACGCCCTGCTGTACGGACTGCAAGACCTCTCTCTGGCTACTGGGTGCTCGTGGTGCAT
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GTGCCTGGCTGTACCTGGCCCTCAACGAGAACTCCTTGGAGAGCTACCTGCGGTTGTTCCAGGAGAACCT
GGGCTGCTGCATAAGTACTACGTCAAGAATGCCCTGGTCTGCAGCCACGATCACCTGACGCTCTTCCTG
ACCTTGGTGTCCGGGCTAGAGTTCATTCGTTTCGAGCTGGATCTGGATGCCCTTACCTAGACCTGGCCC
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CAGACTGGGAAGATGGAGACCTCACAGACACGGTCAGTGGTCCCCGCTCCACAGCCTCCGACCTGACCAG
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CTGCATGTTCTAGTAGCCCTGAGGCTGCTGGCCAAGAAGAAGAGGGAGGAGGAGAGGGACAGACGC
 CTCGGCCCTAGAGGATACCACGAGGGAGGCTCAGGAGCTGGAGGCCAGCTGTCCCTGGTCAGGGAGGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC220299 representing NM_015164
 Red=Cloning site Green=Tags(s)

MEPGEVKDRILENISLSVKKLQSYFAACEDEIPAIRNHDKVLQRLCEHLDHALLYGLQDLSSGYWVLVWH
 FTRREAIKQIEVLQHVATNLGRSRAWLYLALNENSLESLRFLQENLGLLHKYYVKNALVCSHDHLTLFL
 TLVSGLEFIRFELDLAPYLDLAPYMPDYKPYLLDFEDRLPSSVHGSDSLNLNSFNSVTSTNLEWDDS
 AIAPSSSEDYDFGDVFPVAVPSVPSTDWEDGDLTDVSGPRSTASDLTSSKASTRSPTQRQNPNEEPAETV
 SSSDTPVHTTSQEKEEAQALDPPDACTELEVIRVTKKKKIGKKKRSRDEEASPLHPACSQKCAKQGD
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 LHPVSSPEAAGQEEEGGGEGQTPRPLEDTTREAQLEAQLSLVREGPVSEPEPGTQEVLCQLKRDQPSP
 CLSSAEDSGVDEGQGSPEMVHSEFRVDNHLHLLMIHVFRENEEQLFKMIRMSTGHMEGNLQLLYVLL
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 AMIKGCREPPYPSILTDATMEKLALAKFVAQESKCEASAVTVRFYGLVHWEDPTDESLGPTPCHCSPEEG
 TITKEGMLHYKAGTSYLKHEHWKTCFVVLNNGILYQYPRDTRDVIPLLSVNMGGEQCGGRRANTDRPHA
 FQVILSDRPCLELSAESEAEMAEWMQHLCAVSKGVIPQGVAPSPCIPCLLVTDDRLFTCHEDCQTSFF
 RSLGTAKLGDISAVSTEPGKEYCVLEFSQDSQQLLPPWVIYLSCTSELDRLLSALNSGWKTIYQVDLPH
 AIQEASNKKKFEDALSLIHSWQRSDSLCRGRASRDPWC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8019_g04.zip

Restriction Sites:

Sgfl-Mlul

UniProt ID: [Q8IWE5](#)

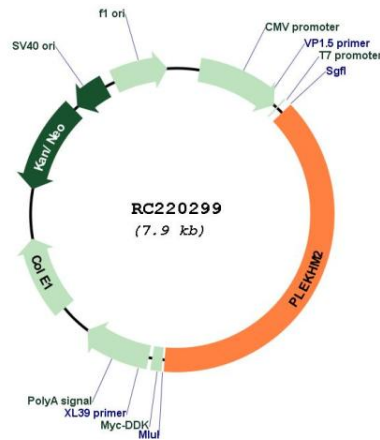
Cytogenetics: 1p36.21

Protein Families: Druggable Genome

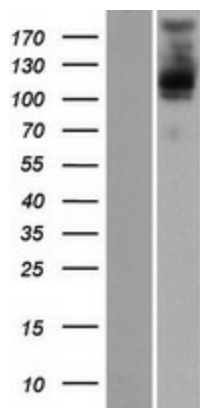
MW: 112.6 kDa

Gene Summary: This gene encodes a protein that binds the plus-end directed microtubule motor protein kinesin, together with the lysosomal GTPase Arl8, and is required for lysosomes to distribute away from the microtubule-organizing center. The encoded protein belongs to the multisubunit BLOC-one-related complex that regulates lysosome positioning. It binds a Salmonella effector protein called Salmonella induced filament A and is a critical host determinant in Salmonella pathogenesis. It has a domain architecture consisting of an N-terminal RPIP8, UNC-14, and NESCA (RUN) domain that binds kinesin-1 as well as the lysosomal GTPase Arl8, and a C-terminal pleckstrin homology domain that binds the Salmonella induced filament A effector protein. Naturally occurring mutations in this gene lead to abnormal localization of lysosomes, impaired autophagy flux and are associated with recessive dilated cardiomyopathy and left ventricular noncompaction. [provided by RefSeq, Feb 2017]

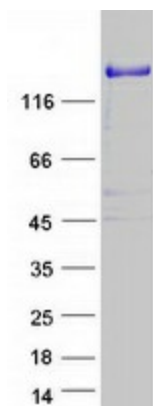
Product images:



Circular map for RC220299



Western blot validation of overexpression lysate (Cat# [LY414756]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220299 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PLEKHM2 protein (Cat# [TP320299]). The protein was produced from HEK293T cells transfected with PLEKHM2 cDNA clone (Cat# RC220299) using MegaTran 2.0 (Cat# [TT210002]).