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Product datasheet for MG224671

Plekho1 (NM_023320) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plekho1 (NM_023320) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Plekho1
Synonyms:	2810052M02Rik; CKIP-1; Ckip1; JZA-20; Jza2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG224671 representing NM_023320
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGAAGAGCGGCTCCGGCAAGCGGGGGCCTCCGGATGGAAACCATCAGTCTGCGGCGCCCGAGAAGG
TCGGCTGGGTCCGGAAATTCTGCGGGAAAGGGATTTTCAGGGAGATTTGGAAAAACCGCTATGTGGTGCT
GAAAGGCGACCAGCTCTACGTCTCCGAGAAGGAGGTAAAAGATGAGAAAAACAGTCAGGAGGTGTTTGAC
CTGAGTGACTATGAGAAGTGCGAAGAGCTCCGGAAATCCAAGAGCAGGAGCAAGAAAAATCACAGCAAGT
TCACCCTGGCCCGGTGCAGACAGCCGGGCACCACGGCACCCAACCTCATCTTCCTGGCCGTGAGTCCTGA
AGAGAAGGAGTCATGGATCAACGCCCTGAGTTCTGCCATTACCAGAGCTAAAAACCGTATCTTGGATGAG
GTCACCGTTGAGGAGGACAGCTATCTTGCCCACCCTACTCGAGACAGAGCAAAAATCCAACACTCCCGCC
GTCCTCCAACCCGGGGACACCTCATGGCTGTGGCTTCGACCTCTACCTCAGATGGGATGCTAACATTAGA
CCTGATCCAAGAGGAAGACCCTTCCCCTGAGGAGCCAGCCTCTTGTGCTGAGAGCTTCCGGGTCGATCTG
GACAAGTCTGTGGCCCAGCTGGCTGGCAGTCGACGGAGAGCGGACTCAGACAGGATCCAGCCCTCTTCGC
AGCGGGCAAGCAGCCTTTCTCGGCCTTGGGAAAAACCAGACAAGGGAGCCCCCTACACCCCACAAGCACT
GAAGAAGTTCCCCAGTACAGAGAAGAGCCGATGTGCCTCCCTGGAGGAGATCCTATCCCAGAGGGACACT
GCCCCAGCCCGCCCCCTTCACCTTCAAGCTGAGGAATCCCTACCCCCTGTCCCTGCCCAGCCAGGGCAGC
TGTCCCGGATCCAGGACCTGGTAGCAAGGAAACTGGAGAAGACTCAGGAGCTGCTGGCAGAGGTTCAGGG
ACTGGGTGACGGCAAGCGGAAGGCCAAGGACCCCCCACAGTCTCCACCCGACTCGGAGTCGGAGCAGCTG
CTGCTGGAGACAGAGAGGCTGCTGGGAGAGGCTTCCTCCAACTGGAGCCAGGCAAAGAGAGTGCTGCAGG
AAGTCCGGGAGCTGAGAGACCTGTACAGGCAGATGGACCTGCAGACCCCGGACTCCCACCTCAGACAGAC
CTCCCAGCACAGTCAATACCGGAAGAGCCTGATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

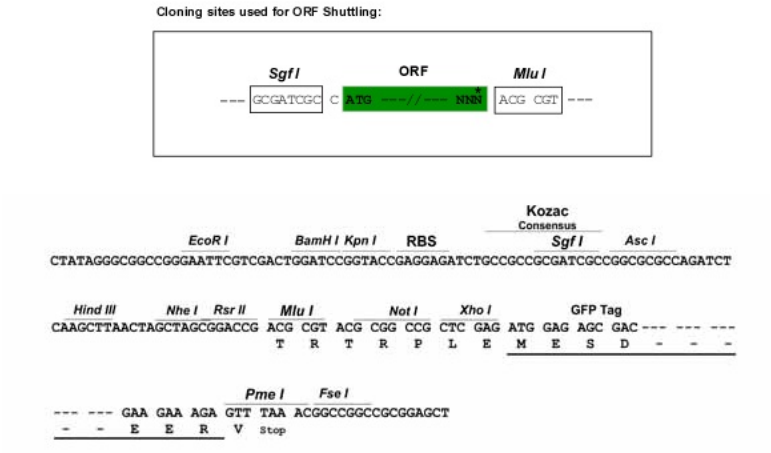
>MG224671 representing NM_023320
Red=Cloning site Green=Tags(s)

MKKSGSGKRGPPDGNHQSAAPEKVGWVRKFCGKGIFREIWKNRYVVLKGDQLYVSEKEVKDEKNSQEVFD
LSDYEKCEELRKSKSRSKKNHSKFTLARCRQPGTTAPNLIFLAVSPEEKESWINALSSAITRAKNRILDE
VTVEEDSYLAHPTRDRAKIQHSRRPPTRGHLMAVASTSTSDGMLTLDLIQEEDPSPEEPASCAESFRVDL
DKSVAQLAGSRRRADSDRIQPSSQRASSLSRPWEKPDKGAPYTPQALKKFPSTEKSRCASLEEILSQRDT
APARPLHLQAEESLPPVPAQPGQLSRIQDLVARKLEKTQELLAEVQGLGDGKRKAKDPPQSPPDSESEQL
LLETERLLGEASSNWSQAKRVLQEVRELRDLYRQMDLQTPDSHLRQTSQHSQYRKSLM

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_023320

ORF Size: 1224 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_023320.2, NP_075809.1

RefSeq Size: 1370 bp

RefSeq ORF: 1227 bp

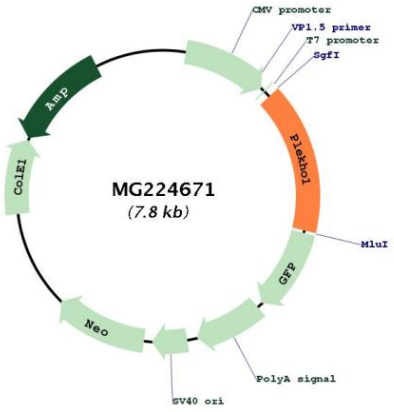
Locus ID: 67220

UniProt ID: Q9JIY0

Cytogenetics: 3 F2.1

Gene Summary: Plays a role in the regulation of the actin cytoskeleton through its interactions with actin capping protein (CP). May function to target CK2 to the plasma membrane thereby serving as an adapter to facilitate the phosphorylation of CP by protein kinase 2 (CK2). Appears to target ATM to the plasma membrane. Appears to also inhibit tumor cell growth by inhibiting AKT-mediated cell-survival. Also implicated in PI3K-regulated muscle differentiation, the regulation of AP-1 activity (plasma membrane bound AP-1 regulator that translocates to the nucleus) and the promotion of apoptosis induced by tumor necrosis factor TNF. When bound to PKB, it inhibits it probably by decreasing PKB level of phosphorylation (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG224671