

Product datasheet for MR225284

Pkn2 (NM_178654) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pkn2 (NM_178654) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pkn2
Synonyms:	6030436C20Rik; AI507382; PRK2; Prkcl2; Stk7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR225284 representing NM_178654 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGTCCAACCCCGACCGGGGGGAGATCCTCCTCACCGAGCTGCAGGGAGATCCCGGACTCTTCCAT
TTTCTGAGAATGTGAGTGTCTGTTTCAGAAATTAGACTTTTCAGATACAATGGTGAACAGAAATTGGACGA
CATCAAGGATCGAATAAGAGAGAAAATAAGGAAAGAACTGAAAAATCAAAGAAGGAGCTGAAAACCTGAGG
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TGAGTCCACGGCAGAGCATGCTGTCCACGAGAACCAGTATAGCACACTGTCCAAGCCAGCGGCGCTAAC
CGGTACTTTGGAAGTTCGTCTTATGGGGTGCCAAGATATCCTAGAGAATGTACCTGGACGGTCAAAAAGCA
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CAAAAGAAAATTTTTCAAACAACAAGGCAAAACATTTCTCAGAGCTCCTCAGATGAATATTAATATTG
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Protein Sequence:

>MR225284 representing NM_178654
Red=Cloning site Green=Tags(s)

MASNPDRGEILLTELQDSRTPFSENVSAVQKLDLDFSDTMVQKLDLDDIKDRIKREIRKELKIKEGAENLR
 KVTTDDKNLAYVDNILLKSNKLEELHHKLQELNAHIVVSDPEDSTDCPRTPDTPNSDSRSSTSNRLMA
 LQKQLDIELKVKQGAENMIQMYNSGSSKDRKLHGTAQQLLQDSKTKIEVIRMQILQAVQTNELAFDNAKP
 VISPLELRMEELRHHFKIEFAVAEGAKNVMKLLGSGKVTDRKALSEAQARFNESSQKLDLLKYSLEQRLN
 ELPRNHPKSSVVEELSLVASPTLSPRQSMLSTQNQYSTLSKPAALTGTLEVRLMGCQDILENVGRSKA
 TSVALPGWSPDNRSSFSRSTSKSKSGSSRNLLKTDDLSDNVCVAVLKLNTVVGQTSWPKISNQSWDQKF
 TLELDRSRELEISVYWRDWRSLCAVKFLRLEDFLDNQRHGMCLYLEPQGLFAEVTFFNPVIERRPKLQR
 QKKIFSKQQKTFLRAPQMNINIATWGRLVRRAIPTVNHSGETFSPQTPVPATVPVVDARIPDLAPPASDS
 TVTKLDFDLEPEPPPAPPRASSLGETDESSELRLVDIPGQGETVFNIENDRNLRPKSKSEYELSIPLDS
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 LMCEKRIFETVNSVRHPFLVNLFACFQTKHEVCFVMEYAAGDLMMHHTDVFSEPRAVFYAACVVLGLQ
 YLHEHKIVYRDLKLDNLLDTEGFVKIADFGLCKEGMGYGDRSTFCGTPPEFLAPEVL TETSYTRAVDWW
 GLGVL IYEMLVGESPFPGDDEEVEFDSI V NDEVRYPRFLSTEAI SIMRLLLRNPERRLGAGEKDAEDVK
 KHPFFRLTDWSALMDKKVPPFVPTIRGREDVSNFDFDEF TSEAPILTPPREPRILLEEVEQEMFHDFDYVA
 DWC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9009_c11.zip

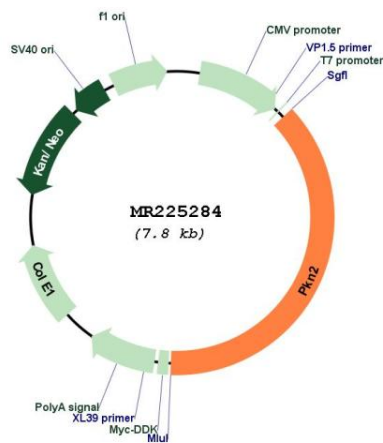
Restriction Sites:

Sgfl-Mlul

Locus ID: 109333
UniProt ID: [Q8BWW9](#)
Cytogenetics: 3 66.69 cM
MW: 112.1 kDa

Gene Summary: PKC-related serine/threonine-protein kinase and Rho/Rac effector protein that participates in specific signal transduction responses in the cell. Plays a role in the regulation of cell cycle progression, actin cytoskeleton assembly, cell migration, cell adhesion, tumor cell invasion and transcription activation signaling processes. Phosphorylates CTTN in hyaluronan-induced astrocytes and hence decreases CTTN ability to associate with filamentous actin. Phosphorylates HDAC5, therefore lead to impair HDAC5 import. Direct RhoA target required for the regulation of the maturation of primordial junctions into apical junction formation in bronchial epithelial cells. Required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner. Stimulates FYN kinase activity that is required for establishment of skin cell-cell adhesion during keratinocytes differentiation. Regulates epithelial bladder cells speed and direction of movement during cell migration and tumor cell invasion. Inhibits Akt pro-survival-induced kinase activity. Mediates Rho protein-induced transcriptional activation via the c-fos serum response factor (SRF). Involved in the negative regulation of ciliogenesis (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225284