

Product datasheet for **MR209234**

Pak4 (NM_027470) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pak4 (NM_027470) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pak4
Synonyms:	5730488L07Rik; AW555722; mKIAA1142
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209234 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTTGGAAAGAAGAAGACGGGTGGAGATCTCAGCCCATCCAACCTCGAGCACCGTGTACACACAG
 GCTTTGATCAGCATGAGCAGAAGTTCACAGGGCTGCCCCGCCAGTGGCAGAGCCTGATTGAGGAATCAGC
 ACGCAGACCCAAGCCCTGATCGACCCTGCCTGCATCAGTCCATCCAGCCTGGAGCCCCAAGACCATC
 GTTCGGGGCAGCAAAGGTGCCAAGGATGGGGCTCTCACTCTGCTGCTTACGAATTTGAGAACATGTCGG
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 CAGCGGGCCACTGCTGCCGAGCTGCTGAAGCACCCGTTCTCACCAAGGGGGGCCACCAGCCAGCATCG
 TGCCCTGATGCGCCAGCACCGAACCAAGG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209234 protein sequence
 Red=Cloning site Green=Tags(s)

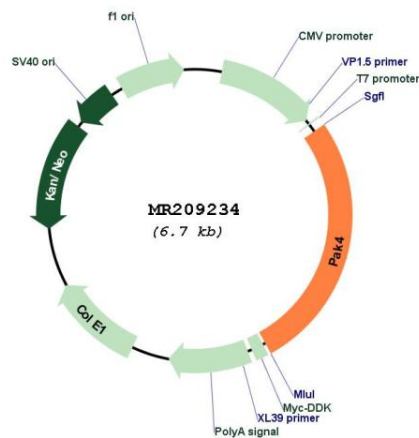
MFGKKKKRVEISAPSNFEHRVHTGFDQHEQKFTGLPRQWQSLIEESARRPKPLIDPACITSIQPGAPKTI
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 HSEAGSGSGDRRRVGPVKRPRKSSRDGPGGPQEAASRDKRPLSGPDVSTPQPGSLTSGTKLAAGRPFNTYPR
 ADTDHPPRGAQGEPTMAPNGPSATGLAAPQSSSSSRPPTRARGAPSPGVLGPHASEPQLAPPARALAAP
 AVPPAPGPPGPRSPQREPQVRSHEQFRAALQLVVDPGDPRSYLDNF IKIGEGSTGIVCIATVRSSGKLV
 VKKMDLRKQQRRELLFNEVVIMRDYRHENVVEMYNSYL VGDELWVMEFLEGGALTDIVTHTRMNEEQIA
 AVCLAVLQALAVLHAQGV IHRDIKSDSILLTHDGRVKLSDFGFAQVSKVPRRSLVGTPTPYWMAPELIS
 RLPYGPEVDIWSLGVMIEMVDGEPYFNEPPLKAMKMI RDNLPPRLKNLHKASPSLKGFLDRLLVRDPA
 QRATAAELLKHPFLTKAGPPASIVPLMRQHRTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cytogenetics:	7 B1
MW:	64.6 kDa
Gene Summary:	<p>Serine/threonine protein kinase that plays a role in a variety of different signaling pathways including cytoskeleton regulation, cell migration, growth, proliferation or cell survival. Activation by various effectors including growth factor receptors or active CDC42 and RAC1 results in a conformational change and a subsequent autophosphorylation on several serine and/or threonine residues. Phosphorylates and inactivates the protein phosphatase SSH1, leading to increased inhibitory phosphorylation of the actin binding/depolymerizing factor cofilin. Decreased cofilin activity may lead to stabilization of actin filaments. Phosphorylates LIMK1, a kinase that also inhibits the activity of cofilin. Phosphorylates integrin beta5/ITGB5 and thus regulates cell motility. Phosphorylates ARHGEF2 and activates the downstream target RHOA that plays a role in the regulation of assembly of focal adhesions and actin stress fibers. Stimulates cell survival by phosphorylating the BCL2 antagonist of cell death BAD. Alternatively, inhibits apoptosis by preventing caspase-8 binding to death domain receptors in a kinase independent manner. Plays a role in cell-cycle progression by controlling levels of the cell-cycle regulatory protein CDKN1A and by phosphorylating RAN.[UniProtKB/Swiss-Prot Function]</p>

Product images:


Circular map for MR209234