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Product datasheet for MR210567

Kifap3 (NM_010629) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kifap3 (NM_010629) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kifap3
Synonyms:	KA; KAP-3; KAP3; SMAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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ORF Nucleotide Sequence:

>MR210567 representing NM_010629
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCAAGGCGAGGACGCCAGATACCTCAAAAGGAAAGTTAAAGGGGGGAATATTGATGTACATCCATCAG
AAAAAGCTCTCATTGTTCAGTATGAAGTGGAAGCTACCATTCTTGGAGAAATGGGAGATCCCATGTTGGG
AGAACGAAAGGAATGCCAAAAAATCATCCGTCTGAAGAGTCTCAATGCTAACACAGACATCACCTCTCTG
GCCCGGAAGGTGGTTGAGGAATGTAAGCTCATCCATCCCTCAAAGCTAAGCGAGGTGGAGCAGCTTTTGT
ACTATCTACAGAACCGCCGAGACTCATTGCCGGGAAAAGAAAAAAAAGAAAAATCAAGCAAGCCTAAAGA
CCCACCTCCTTTTGAAGGGATGGAGATTGACGAAGTGGCCAACATTAATGACATGGACGAATACATTGAG
CTCTTGTATGAAGACATTCCAGATAAGGTTCGGGGTTCTGCCTTGATCCTACAGCTTGCTCGAAATCCTG
ATAACCTGGAAGAGCTATTATTAAATGAAACTGCCCTGGGTGCGCTAGCAAGAGTCCTGAGAGAAGACTG
GAAACAAAGTGTTGAGTTAGCTACAAACATCATTTATATCTTCTTTTGCTTTTCTAGCTTTTCTCATTTT
CATGGACTCATCACTCACTACAAAATTGGAGCACTGTGTATGAATATCATTGATCATGAGTTAAAAAGAC
ACGAGCTTTGGCAAGAAGAACTCTCTAAGAAGAAGAAAGCTGTTGATGAAGACCTTGAAAATCAAACATT
GAGAAAGGATTATGACAAAACCTTTAAAAAATACCAAGGACTTGTGGTAAAACAAGAGCAGCTACTGAGA
GTTGCTCTCTACTTGCTTTTGAATCTTGCGGAGGACACACGTACAGAACTGAAGATGAGGAACAAGAATA
TCGTTCACATGTTGGTGAAGGCTCTTGATCGGGACAATTTTGAGCTGCTGATTCTGGTCGTGTCATTCTT
AAAGAAACTGAGTATTTTTATGGAGAATAAAAATGACATGGTAGAGATGGATATTGTTGAAAAACTGGTA
AAAATGATACCCTGTGAGCATGAAGATCTCCTGAATATCACCCTCCGGCTCCTCTTAAACCTCTCGTTTG
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AAACTACAAACAAATAGCAATGTGTGTGCTTTACCATATAAGCATGGATGACCGCTTTAAGTCAATGTTT
GCATATACTGACTGCATACCACAGTTAATGAAGATGCTCTTTGAATGTTCAGATGAACGAATTGACTTGG
AGCTGATTTCTTTCTGCATTAATCTTGCTGCTAACAAGAGAAATGTCCAGCTCATCTGTGAAGGAAATGG
GCTGAAAATGCTCATGAAAAGAGCTCTGAAGCTCAAGGACCCACTGCTGATGAAGATGATCAGAAACATC
TCCCAGCATGATGGGCCCACTAAGAATTTGTTCATTGATTATGTTGGGGACCTTGCAGCCCAGATTTCCA
GTGATGAAGAGGAGGAGTTTGTAATCGAGTGTTTGGGAACGCTGGCAAATCTGACAATCCCAGATCTAGA
CTGGGAACTGGTCCTGAAGGAGTACAAGCTGGTTCCATTCCTCAAAGACAAACTAAAGCCAGGTGCCGCA
GAGGATGACCTTGTTTTAGAAGTGGTTATCATGATTGGGACGGTGTCTATGGATGACTCTTGTGCTGCCC
TACTGGCCAAATCTGGGATAATCCCAGCCCTCATCGAGCTGCTGAACGCTCAACAAGAAGATGATGAATT
TGTGTGTCAAATAATCTATGTCTTCTACCAGATGGTGTTCCATCAGGCCACAAGAGATGTCATAATCAAG
GAAACACAAGCTCCAGCATATCTCATTGACCTGATGCATGATAAAAATAATGAAATCCGGAAAGTCTGTG
ATAACACATTAGATATCATCGCAGAGTATGATGAAGAGTGGGCCAAGAAAATTCAGAGTGAGAAGTTTCG
CTGGCATAACTCTCAGTGGCTGGAGATGGTGGAGAGCCGTCAGCTGGATGAGAGCGAGCAGTACTTGTAT
GGTGATGATCGCATTGAGCCGTACATCCATGAAGGGGACATTCTTGAAAGGCCTGACCTTTTCTACAACT
CAGACGGACTAATTACCTCTGAAGGAGCCATAAGTCCAGACTTCTTCAATGATTTTCACCTCCAGAATGG
AGATGTGGTGGGGCAACACGCATTTCCTGGCAGCACTGTCCATCCAAGGATTTCAAAGTGCTTTGCAAGT
GTGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>MR210567 representing NM_010629
Red=Cloning site Green=Tags(s)

MQGEDARYLKRKVKGGNIDVHPSEKALIVQYEVEATILGEMGDPMLGERKECQKIIRLKSLNANTDITSL
ARKVVEECKLIHPSKLSEVEQLLYYLQNRRDSLPGKEKKEKSSKPKDPPPFEGMEIDEVANINDMDEYIE
LLYEDIPDKVRGSALILQLARNPDNLEELLLNETALGALARVLREDWKQSVELATNIIYIFFCFSSFSHF
HGLITHYKIGALCMNIIDHELKRHELWQEELSKKKKAVDEDLENQTLRKDYDKTFKKYQGLVVKQEQLLR
VALYLLLNLAEDTRTELKMRNKNIVHMLVKALDRDNFELLILVVSFLKKLSIFMENKNDMVEMDIVEKLV
KMIPCEHEDLLNITLRLLLNLSFDTGLRNKMVQVGLLPKLTALLGNENYKQIAMCVLYHISMDDRFKSMF
AYTDCIPQLMKMLFECSDERIDLELISFCINLAANKRNVQLICEGNGLKMLMKRALKLKDPLLMKMIRNI
SQHDGPTKNLFIDYVGDLAAQISSDEEEEFVIECLGTLANLTIPDLDWELVLKEYKLVPFLKDKLKPGAA
EDDLVLEVVIMIGTVSMDDSCAALLAKSGIIPALIELLNAQQEDDEFVCQIIYVFYQMVFHQATRDVIIK
ETQAPAYLIDLMHDKNNEIRKVCDNTLDIIAEYDEEWAKKIQSEKFRWHNSQWLEMVESRQLDESEQYLY
GDDRIEPYIHEGDILERPDLFYNSDGLITSEGAISPDFFNDFHLQNGDVVGQHAFPGSTVHPRISKCFAS
VH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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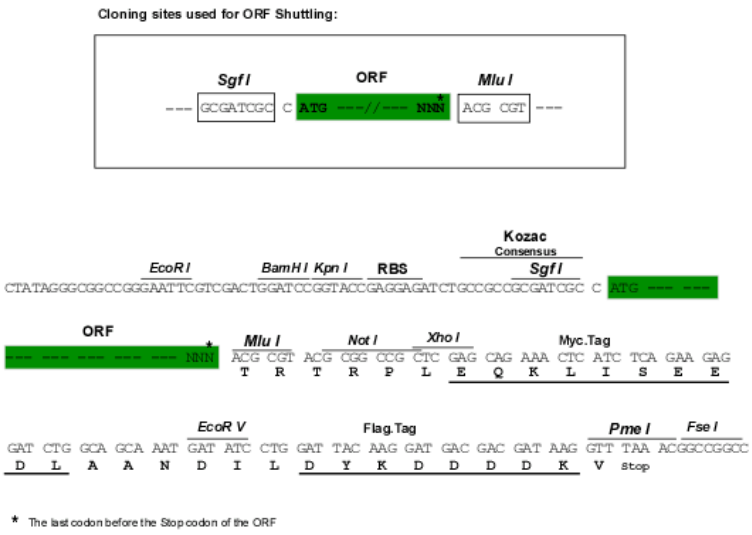
Cloning Scheme:



ACCN:	NM_010629
ORF Size:	2316 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).

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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_010629.3, NP_034759.1

RefSeq Size: 3907 bp

RefSeq ORF: 2319 bp

Locus ID: 16579

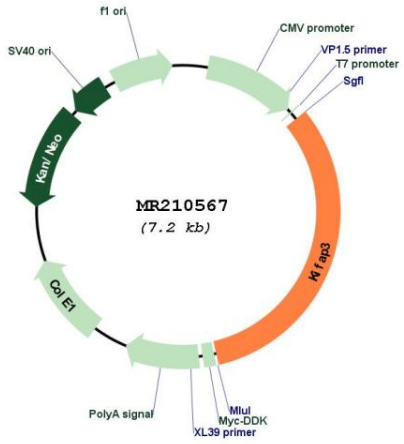
UniProt ID: P70188

Cytogenetics: 1 H2.1

MW: 89.5 kDa

Gene Summary: The protein encoded by this gene is the non-motor subunit of kinesin-2 complex, and forms a heterotrimer with two members of the kinesin superfamily of proteins that together form a microtubule plus-end directed translocator that plays an important role in intracellular transport, mitosis, and cell-cell adhesion. This protein contains multiple armadillo repeats involved in protein binding, and may serve as an adaptor to regulate binding of cargo with the motor proteins. Conditional disruption of this gene in mouse neural precursor cells caused a tumor-like phenotype and defective organization of the neuroepithelium thought to be the result of altered N-cadherin subcellular localization. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2015]

Product images:



Circular map for MR210567

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