

Product datasheet for **RR215059**

Kif22 (NM_001009645) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif22 (NM_001009645) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kif22
Synonyms:	MGC95045
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR215059 representing NM_001009645
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACGTTAGGGCTAAGAAAAAGCCGAGCAACGGGAGATGGCGTCGGCCAGCTCAGGACCCAGTCGCT
 CTCTAAGCAAGGGAGGAGTCAGCAGACGCTCCTCCTCTAGCTCGAGTAAGGGTGGCCGTGCGACTGCGCCC
 ATTTATGGATGAAGCAAAGGAACACCCTGTGTGCGAGGCATAGACAGCTGCTCTTTGAAGTAGCCAAC
 TGGAGGAAATACCAGGAGACTCTAAAATATCAGTTTGATGCTTTCTATGGAGAGAAGAGCACTCAGCAAG
 ATGTCTATGTGGGTTTCACTACAGCCATTCTCAGGCACCTGCTGGAAGGGCAGAAATGCCAGTGTACTTGC
 CTATGGGCTACTGGGCGAGGGAAGACACACACAATGCTGGGTAGCCAGAACAGCCTGGAGTGATTCTCT
 CGGGCTCATGGACCTCTGCAACTAACAGGGAAGAGAGTGTGAGGGCCGGCCCTGGGACATTTCTG
 TTGCTATGTCCTATTTGGAGATCTACCAGGAAAAGGTATTAGACCTCTTGATCTGCATCAGGAGACCT
 AGTGATCCGAGAGGACTGTCGAGGGAACATCCTGATTCCAGGCCTCACTCAGAAGCCCATCACTAGCTTC
 TCTGAGTTCGAGCAGCACTTCTTCCAGCCAGTAGAAATCGAGTCGTAGGAGCTACCCGGCTTAACCAAGC
 GCTCTTCCCGCAGTCATGCGGTGCTCTTGGTCAAGGTAGAACAGCGTGAACGTTTGACTCCATTTGCGCA
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 ATTCGGCTAAAAGAGAGTGGAGCCATCAACACCTCCCTCTTTGTATTGGGCAAAGTGGTGGATGCATTAA
 ACCAGGGCCTCCCTCGTATACCATACCGGGACAGCAAGCTCACTCGTCTGCTGCAGGACTCTCTGGGAGG
 TTCAGCTCATAGCATCCTCATTGCCAACATCGCTCCTGAAAGGCGTTTTTACCAGGATACGATCTCAGCA
 TTGAACTTCACTGCGAGGTCCAAGGAGGTGATTAACCGGCCTTTCACCAATGAGAGCCTACAGCCTCATG
 CCTTGGCACCTGTTAAGCTGCCTCAGAAAGAAGTGTAGGCCATCAGAGGCAAAGAAAGCCAAAGGCC
 TGAAGAAGAATCAACTGGGAGCCCTGAGTCTACAGCAGCTCCAGCATCTGCCTCCAGAAATTAAGCCTC
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 CCCAGGGGAGCCAAGGGATACCTCTACTGAATACCCCAAAGCGAGAGCGAATGGTACTCATTAAAGACAGT
 GGAGGAAAAGAAGCTTAGAGATTGAGAGGCTTAAGATGAAGCAAAAAGAAGTGGAAAGCAAGGTGCTGGCC
 CAGGAGGCACTGGATCCAAGGAAAAAGAGAAGCACTCCACAATTCTCCAGCCCTCTTCTCTGTAGTG
 GCTCAGTGGCTAAGCCCCTGAAAAGGCTGTGGTGTGATGCCCTGCAACGGATTGAGAAGCAGTCAGAGTC
 CTCAAACAAGATCCACCTCCTGAAGAAAGGCCACAAAAGGAAGCTGGAGTCATCACATGAGTCAGAAGCT
 GTGAAAAGGATGAGGACTACTGGGAGATACAAATTAGCCAGAGTTACTGGCACGGGGCGCAAAAAAT
 TATTGCATCTGCTGAATGAAGGCTCAGCTCGGGATCTGCGAAGCCTGCAGCGAATTGGCCAGAAGAAGGC
 CCAGCTCATTGTGGGCTGGAGGGAGCTGCATGGCCCTTAATGAGGTGGAGGACCTGGAACAGGTGGAA
 GGCATCTCTGGGAAGCAGGTAGAGTCTTCTGAAAGGCGAATCTCTTGAGCTTGGCTGCCAGCCAGCAC
 GTGGTCCCTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215059 representing NM_001009645
Red=Cloning site Green=Tags(s)

MNVRAKKKPQQREMASASSGSPRSLSKGGVSRPPLARVRVAVRLRPFMDEAKEPPCVRGIDSCSLEVAN
 WRKYQETLKYQFADFYGEKSTQQDVYVGSVQPILRHLLLEGQNASVLAYGPTGAGKTHTMLGSPEQPGVIP
 RALMDLLQLTREESAEGRPWDISVAMSYLEIYQEKVLDLLDPASGDLVIREDCRGNILIPGLTQKPITSF
 SEFEQHFLPASRNRVVGATRLNQSRSSRHAVLLVKVEQRERLTPFRQREGKLYLIDLAGSEDNRRTGNQG
 IRLKESGAINSTLFLVGLKVVLDALNQGLPRIPYRDSKLTRLLQDSLGGSAHSILIANIAPERRFYQDTISA
 LNFTARSKEVINRPFNTESLQPHALAPVKLPQKELLGPSEAKKAKGPEEESTGSPESTAAPASASQKLSL
 LQKLSNMDPAMLENLLSMERLLGSQSGIPLLNTPKRERMLIKTVEEKNLEIERLKMKQKELEAKVLA
 QEALDPKEKENTPTILQPSSSCSGVAKPLKAVVMPLQRIQKQSESSNKIHLKKGHKRKLESSHESEA
 VEKDEDYWEIQISPELLARGRKKLLHLLNEGSARDLRSLQRIGQKKAQLIVGWRELHGPFNEVEDLEQVE
 GISGKQVESFLKANLLSLAASQHSGPS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001009645

ORF Size: 1971 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.

RefSeq: [NM_001009645.1](#), [NP_001009645.1](#)

RefSeq Size: 2098 bp

RefSeq ORF: 1974 bp

Locus ID: 293502

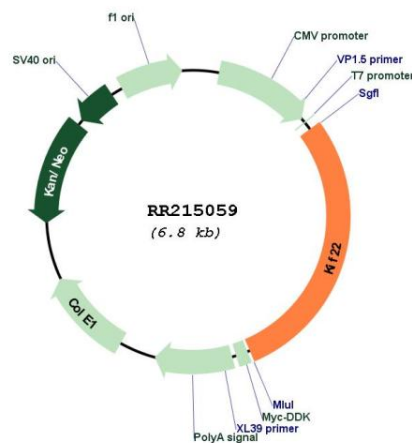
UniProt ID: [Q5I0E8](#)

Cytogenetics: 1q37

MW: 73.1 kDa

Gene Summary: Kinesin family member that is involved in spindle formation and the movements of chromosomes during mitosis and meiosis. Binds to microtubules and to DNA. Plays a role in congression of laterally attached chromosomes in NDC80-depleted cells.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR215059