

Product datasheet for **RN215059**

Kif22 (NM_001009645) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN215059 representing NM_001009645
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACGTTAGGGCTAAGAAAAAGCCGAGCAACGGGAGATGGCGTCGGCCAGCTCAGGACCCAGTCGCT
 CTCTAAGCAAGGGAGGAGTCAGCAGACGTCCTCCTCTAGCTCGAGTAAGGGTGGCCGTGCGACTGCGCCC
 ATTTATGGATGAAGCAAAGGAACACCCTGTGTGCGAGGCATAGACAGCTGCTCTTTGAAAGTAGCCAAC
 TGGAGGAAATACCAGGAGACTCTAAAATATCAGTTTGTGCTTTCTATGGAGAGAAGAGCACTCAGCAAG
 ATGTCTATGTGGGTTTCAGTACAGCCATTCTCAGGCACCTGCTGGAAGGGCAGAAATGCCAGTGTACTTGC
 CTATGGGCTACTGGGCGAGGAAGACACACACAATGCTGGGTAGCCAGAACAGCCTGGAGTGATTCTCT
 CGGGCTCATGGACCTCTGCAACTAACAGGGAAGAGAGTGTGAGGGCCGGCCCTGGGACATTTCTG
 TTGCTATGTCCTATTTGGAGATCTACCAGGAAAAGGTATTAGACCTCTTGATCTGCATCAGGAGACCT
 AGTGATCCGAGAGGACTGTCGAGGGAACATCCTGATTCCAGGCCTCACTCAGAAGCCCATCACTAGCTTC
 TCTGAGTTCGAGCAGCACTTCTTCCAGCCAGTAGAAATCGAGTCGTAGGAGCTACCCGGCTTAACCAAGC
 GCTCTTCCCGCAGTCATGCGGTGCTCTTGGTCAAGGTAGAACAGCGTGAACGTTTGACTCCATTTGCCA
 GCGGGAAGGAAAACCTACCTTATTGATTTGGCTGGTTCAGAGGACAACCGTTCGCACAGGCAACCAAGGGA
 ATTCGGCTAAAAGAGAGTGGAGCCATCAACACCTCCCTCTTTGTATTGGGCAAAGTGGTGGATGCATTAA
 ACCAGGGCCTCCCTCGTATACCATACCGGGACAGCAAGCTCACTCGTCTGCTGCAGGACTCTCTGGGAGG
 TTCAGCTCATAGCATCCTCATTGCCAACATCGCTCCTGAAAGGCGTTTTTACCAGGATACGATCTCAGCA
 TTGAACCTCACTGCGAGGTCCAAGGAGGTGATTAACCGGCCTTTCACCAATGAGAGCCTACAGCCTCATG
 CCTTGGCACCTGTTAAGCTGCCTCAGAAAGAAGTGTAGGCCATCAGAGGCAAAGAAAGCCAAAGGCC
 TGAAGAAGAATCAACTGGGAGCCCTGAGTCTACAGCAGCTCCAGCATCTGCCTCCAGAAATTAAGCCTC
 TTACAGAAGCTAAGCAATATGGATCCAGCCATGTTGGAGAACCTCCTGAGTATGGAACGTTTGCTGGGTT
 CCCAGGGGAGCCAAGGGATACCTCTACTGAATACCCCAAAGCGAGAGCGAATGGTACTCATTAAAGCAGT
 GGAGGAAAAGAAGCTTAGAGATTGAGAGGCTTAAGATGAAGCAAAAAGAAGCTGGAAGCCAAGGTGCTGGCC
 CAGGAGGCACTGGATCCAAAGGAAAAAGAGAAGCACTCCACAATTCTCCAGCCCTCTTCTCTGTAGTG
 GCTCAGTGGCTAAGCCCCTGAAAAGGCTGTGGTGTGATGCCCTGCAACGGATTGAGAAGCAGTCAGAGTC
 CTCAAACAAGATCCACCTCCTGAAGAAAGGCCACAAAAGGAAGCTGGAGTCATCACATGAGTCAGAAGCT
 GTGAAAAGGATGAGGACTACTGGGAGATACAAATTAGCCAGAGTTACTGGCACGGGGGCGCAAAAAAT
 TATTGCATCTGCTGAATGAAGGCTCAGCTCGGGATCTGCGAAGCCTGCAGCGAATTGGCCAGAAGAAGGC
 CCAGCTCATTGTGGGCTGGAGGGAGCTGCATGGCCCTTAATGAGGTGGAGGACCTGGAACAGGTGGAA
 GGCATCTCTGGGAAGCAGGTAGAGTCTTCTGAAAGGCGAATCTCTTGAGCTTGGCTGCCAGCCAGCAC
 GTGGTCCCTCT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001009645
- Insert Size:** 1974 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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

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]