

## Product datasheet for **RR207518**

### **Kifc1 (NM\_001005878) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kifc1 (NM_001005878) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kifc1
Synonyms:	MGC94918
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR207518 representing NM\_001005878  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**C

ATGAGAGGACCGGGTCTCGGGACACCGCACCCAGTCTGCTGCCTTTGCATCCCCTCCTGTGCGGACCA  
 CCGTGGACATGCAGGCACAGAGGGCCCCTTTGATGGAAGTGAAGAGGAACCTGGAGCTGAGCACAACCCCT  
 GGTCAAGTCTCCTCCCGCTGCCCTACCAGGAAGCAGGCTCAAGAGGGTCTGACCAGATGGAGGAT  
 GGCCTGGAGCCTGCAAAGAAACGAACACGAGGCATGGGCACAGTGACAAAGTTGACACATCCCGCCGA  
 GAGGGCCACCCCTCAGCGCAGTGTCCACTGCAGCTCAGAAAGGCCCTAGGAAGACTGGACCTCGAGGGTG  
 CTCTGCTGTCGGTCCAGTGTGAGGAACAGAAGCCAGCTCCCGCTGCTCCTGCCAGAAGCCAGGCACA  
 TCCACTGCTCCTGCGGTGGCAGGAAAGAAACCTGGCAAGCGTCTGCCTGGGACTGAAGGGCCAGTTGT  
 GTGACCTCCATGAAGAGTTGAAACAGTATCGGGAGAAGACTCAGACACTGGACCGTGAGAACCAGGGGCT  
 CCGAGAGCAACTCAGAGAGGTTAGGAGCAGGCCACGACCTGGGACAGAGCGGAACACCCCTGGAGGAG  
 GAGCTGGCCAGTGTACCGAGCGAGCTGAGCAGAGCCAGCAGAAGCTGGAGACTCTGGGTGCCCGGCTCT  
 TGGAGCTGGAGGAATGTCTGGGTACCAAGGAAAGGCTGGTTTCAGGAGCTTCAGACAGAGCGGCTGAATT  
 GCAGGAGGAACGCAGTACACTGAGCACCCAGCTGGAGGAGCGGGAGAGGGAGTTTCAGGCCTCAGAAGCA  
 GCTCTGTCAAGCAGCCGAGCAGAGGTAAGTGTCTTCGGCAGAAGACTGCAGCCAGGTGACCTTACTGG  
 CCGAGCAGGGAGACCGGCTCTATGGGCTAGAGATGGAGCGCCGTCGACTCCACAACCAGCTGCAGGAACT  
 GAAGGGCAACATCCGGGCTTTCTGCCGGTGGCCCTGTCTTGAGGGGGAGTCCACTCCATCTCCTGGC  
 TTCCTTGTATTCCTCCTGGCCCTGCTGGACCTCTGACCCCAACTCGCCTTTGCCTCTCTCGGTCTG  
 ATGACCGCGCTCCACCCTGACAAGGGCACCAGCAGCTGCTACCCGCCATGACTTCTCCTTTGATCGGGT  
 GTTCCCACAGGAAGCAAGCAGGAGGAGGTGTTTGAGGAGATCTCCATGCTTGTCCAGTCAGCACTGGAT  
 GGCTACCTGTGTGCATCTTTGCCTATGGACAGACAGGCAGCGGCAAGACCTTCACCATGGAGGGCGGGC  
 CTCGGGGAGACCCCAAGTTGGAGGGGCTGATCCCCGGGCCATGCGGCATCTGTTCTCTGTGGCCAGGA  
 GATGAGTGGCCAGGGCTGGACTTACAGTTTTGTGGCCAGTTACGTAGAGATCTACAATGAGACCGTCCGA  
 GACCTGTAGCTACAGGGACCCGAAGGGACAAGGGGGCGACTGTGAGATTGTCGGGCAGGCCAGGGA  
 GTGAGGAACTTACTGTCACCAATGCACGATATGTCCTGTTTCTGTGAGAAAGAGGTGGAGGCTCTGCT  
 CCATTTGGCCAGCAGAATCGGGCTGTGGCCCGCACTGCCAGAATGAGAGATCATCACGCACCCACAGT  
 GTGTTCCAGCTACAGATCTCTGGAGAGCATGCTGCCCGGGCCTGCAGTGTGGTGTCCCCTCAACCTGG  
 TGGACCTGGCTGGGAGTGAGCGGCTTGACCCTGGCTTAACCCTAGGCCCTGGAGAGCGGGATCGTCTTCG  
 GAAACACAAGCCATTAACAGCAGTCTGTCTACACTGGGACTGGTCATAATGGCCCTGAGCAATAAGGAG  
 TCCCACGTGCCTTACCGAAATAGCAAGCTTACCTACCTGCTGCAGAACTCTCTGGGTGGCAGTGCCAAGA  
 TGCTCATGTTCTGTAACATTTCTCCTCTGGAAGAGAATGTCTCCGAGTCTCTGAATTCACCTCCGCTTTGC  
 TTCCAAGGTGAACCAGTGCGTGATCGGCACTGCTCAGGCTAATAAGAAA

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR207518 representing NM\_001005878  
Red=Cloning site Green=Tags(s)

```
MRGRGSRDTGTQSAAFASRPVRTTVDMQAQRAPLMEVKRNLELSTTLVKSSSRLPLPGSRLKRGPDQMED
GLEPAKKRTRGMGTVTKVDTSRPRGPPLSAVSTAAQKGPRKTGPRGCSAVGPVLRNQKPAPAAPAQKPGT
STAPAVAGKKPGKRPAWDLKGQLCDLHEELKQYREKTQTLDRNQGLREQLREVQEQATTLGTERNTLEE
ELASVRRRAEQSQKLETLGARVLELEELGTGERLVQELQTERLQLQEERSTLSTQLEEREREFQASEA
ALSSSRAEVLCLRQKTAQVTLAEQGDRLYGLEMERRRLHNQLQELKGNIRVFCRVRPVLEGESTPSPG
FLVFPPGPAGPSDPPTRLCLSRSDRRSTLTRAPAAATHDFSFDRVFPFGSKQEEVFEEISMLVQSALD
GYPVCIFAYGQTGSGKFTMEGGPRGDPQLEGLIPRAMRHLFSVAQEMSGQGWYTSFVASYVEIYNETVR
DLLATGTRKGGQDCEIRRAGPGSEELTVTNARYVPVSCKEVEALLHLAQNRVAVARTAQNERSRSHS
VFQLQISGEHAARGLQCGAPLNLVDLAGSERLDPGLTLGPGERDRLRETQAINSSLSTLGLVIMALSNKE
SHVPHYNSKLTYLLQNSLGGSAKMLMFVNI SPLEENVSELSNLSLRFASKVNQCIVGTAQANKK
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001005878

**ORF Size:** 2079 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\\_001005878.1](#), [NP\\_001005878.1](#)

**RefSeq Size:** 2316 bp

**RefSeq ORF:** 2082 bp

**Locus ID:** 294286

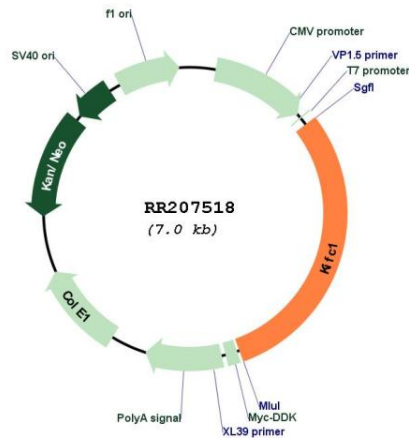
**UniProt ID:** [Q5X163](#)

**Cytogenetics:** 20p12

**MW:** 76.1 kDa

**Gene Summary:** Minus end-directed microtubule-dependent motor required for bipolar spindle formation. May contribute to movement of early endocytic vesicles. Regulates cilium formation and structure.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RR207518