

Product datasheet for **RN217073**

Kif2b (NM_001005874) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif2b (NM_001005874) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kif2b
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN217073 representing NM_001005874
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCAGCCAGTTCTGCCTTCTCTGGCCCCACGCCCTCTCACCCCTTAACCTCTGAAATCCCCTTCA
 CAGACTTCCAGGTGGGCATCTGTGTGGCGATCCAGCGCAGTGACAAACGGATTCTCTGGCTGTGGTCAC
 AGAGATCAACCGAGAAAACCTCTGGGTCACGGTAGAGTGGTTGAGAAAAGGAGTCAAAAAAGGAAAAG
 ATTGAACTGGAGACTGTACTTCTGTTGAACCTGCTTTGGCTTCTACTGAACACCAACGGTCACGTAGAC
 CCCTGCGCCAGTGTCTGTAATACCCGCTACTGCCATTGGAGACCAGCGAACAGCCACCAATGGATTGC
 GATGATCCACACAGAAATGAAACACCCTCAGGGGACAGCCAAACCCTGGTGATCCCCAGCAACCCTTGT
 CTGATGAAGCGGAAAAATCCCCCTGCCTACGGGAAATGAAAAGCTGCAGAAGCAGAGAGAGAAGCGCC
 GACGACTGCAGCTAGAGATCCGAGCTAGACGAGCCCTTGACATCAACACTGGAAATCCAACTTTGAGAC
 TATGCGCATGATTGAGGAGTACCGCAGGCATCTAGACAGCAGCAAGATGTCCCGCTGGAGCCCCAGAA
 GACCACCGCATCTGTGTGTGTGTGAGGAAGCGCCCTTAATGAGAGGGAGACCACCATGAAGGACTTAG
 ATATCATCACTATTCCCTCGCACAAATGTGGTCATGGTACACGAGTCTAAACAAAAGGTGGACCTGACCCG
 CTACTTGGAAAACCGACCTTCTGTTTTGACCATGCCTTTGATGACACGGCATCTAATGAATTAGTTTAC
 CAGTTCACCGCCCGCCCTTGTGGAGTCCATCTTCCGGAAGGGCATGGCCACTTGCTTTGCCTATGGGC
 AGACTGGCAGTGGAAAAACCCACACAATGGGTGGAGCCTTTTCAGGAAAGGCCAAAGAGTGTCTAAAGG
 GATTTATGCCCTGGTAGCTCAGGATGTCTTCTCCTCCTAAGAACCCTGCCTATGAGAAATGGAGCTC
 AAAGTCTACGGGACCTTTTTGAGATCTATGGTGGCAAAGTGTACGATCTGCTAACTGGAAGAAGAAGC
 TGCAAGTCTGGAGGATGAAATCAGCAATACAAGTGGTAGGACTGCAGGAGCAGGAGGTGGCTGTGT
 GGAGGAAGTCTGAATCTGGTGGAGCTCGGAAACAGCTGTCGGACTTCCGGTCAGACCTCTGTCAACGCC
 CACTCATCCAGGACCCAGCTGTGTTCCAGCTCATTCTCAAGTGCAGGAGGAAAAGTGCACGGCAAGTTTT
 CCCTCGTTGACTTAGCTGGGAACGAAAGGGGAGCAGATACTGCCAAGGCTACCCGGAAGAGGCAGCTGGA
 AGGGGCTGAGATAAATAAAGTCTGCTAGCTCTAAAAGAGTGCATCAGGGCTTTGGGTAAGAACAAGTCT
 CATACCCATTCCAGAGCAGCAAACTCACACAGGTACTCCGGGACTCCTTCATAGGGCAGAACTCCTATA
 CTTGCATGATCGTACAATCTCGCCGGGATGACTTCTGTGAAAACACCCTCAATACTTTAAGATATGC
 AAACAGAGTCAAAGAATTGGCTTTAGAAGCAAGGCCTTACCCTCAACTGACCATGAAATGCCACTAACG
 TTAGAAAACGGCAATACAAATTCGAAAAGTCCCTTCAGAAGGATGACATCATTCAAATACCAACTGTAC
 AGAAAGAGGAAGAGAAAGAAAGCGATGAACTCACATCAACAAAGGAGCCAGCAGCTTCATGGAGCAGGTC
 CGGTCCATGGTGGGAGGCCATCCAGGAAACGGCTGAGGGAGTTAACTGTGATGTGGATTTTGCATTGCG
 CAGTCTTTGTCCATTTTGGAGCAGAAAATGGTGTGCTGACTGAGATCCAAAAGAAGCTCCAATTGCTAC
 GAGATGACCTCCAAAAGAAAAGCCAAGCTGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001005874

Insert Size: 1995 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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:	<ol style="list-style-type: none">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:	<u>NM_001005874.2</u> , <u>NP_001005874.2</u>
RefSeq Size:	2240 bp
RefSeq ORF:	1995 bp
Locus ID:	287624
UniProt ID:	<u>Q5XI51</u>
Cytogenetics:	10q26
Gene Summary:	Plus end-directed microtubule-dependent motor required for spindle assembly and chromosome movement. Has microtubule depolymerization activity. Plays a role in chromosome congression.[UniProtKB/Swiss-Prot Function]