

Product datasheet for **RN212904**

Kif21b (NM_001105990) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kif21b (NM_001105990) Rat Untagged Clone
Tag: Tag Free
Symbol: Kif21b
Synonyms: MGC189181
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN212904 representing NM_001105990
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGGTCAGGGCGACTGCTGCGTCAAAGTGGCCGTCAGGATCCGGCCCCAGCTATCAAAGGAGAAGA
TTGAAGGCTGTACATCTGTACCTCCGTTACCCCTGGGGAGCCCCAGGTCCTGCTGGGGAAGGACAAGGC
CTTCACCTATGACTTTGTCTTTGACCTGGACACCTGGCAAGAACAATCTATTCGACCTGCGTGAGCAAA
CTCATCGAAGGCTGCTTTGAGGGCTATAACGCCACGACTGGCCTATGGACAGACAGGGGCTGGGAAGA
CATACTATGGGCACCGGCTTTGACACAGTGACGTCAGAAGAGGAGCAGGGCATCATCCCAAGGGCCAT
TGCGCATCTCTTCAGGGGCATCGACGAACGCAAGCGTCGGGCGCAGGAGCAGGGTGTGACTGGGCCTGAG
TTCAAAGTCAGTGCCCAATTCCTGGAGCTCTACAACGAAGAGATCCTTGACCTGTTTGACAGCACCCGCG
ACCCTGATGCCCGCCACCGCAGGTCCAACATCAAGATCCACGAGGATGCCAATGGCGGCATCTACACCAC
AGGGGTCACTTCTCGCCTCATCAACTCCCAGGAGGAGCTGATCCAGTGCCTGAAGCAGGGCGCCCTGTCA
CGAACCACGGCCAGCACCCAGATGAACGTTCAAAGTCCCAGTCCCACGCCATCTTCACCATTCACCTGT
GCCAGATGCGCGTGTGTGCCAGCCTGACCTGGTGAATGAGACAGTGACTGGGCTCCGGATGGAACGCGC
CCCCACGGGCACTGAGTATGAGACGCTCACTGCTAAGTTCACCTTTGTGGACTTGGCGGGCTCAGAGCGG
CTGAAACGGACAGGGGCCACCGGTGAACGAGCCAAAGAGGGCATCTCCATCAACTGTGGTCTGCTGGCCT
TGGGCAATGTGATCAGTGCCTTGGGAGATCAGAGCAAGAAAGTCGTGCACGTGCCCTACAGGGACTCCAA
GCTCACTCGGCTGCTCCAGGACTCTCTTGGAGGCAACAGCCAGACCATCATGATCGCCTGTGTGAGCCCC
TCAGATCGGGACTTCATGGAGACGCTCAACTCTCAAATATGCCAATCGGGCTCGAAACATCAAAAACA
AAGTGGTAGTGAACCAGGACAAGACCAGCCAGCAGATCAGCGCGCTGCGAGCCGAGATCGCACGCCCTGCA
GATGGAGTTGATGGAATAAAGGCGGGCAAGCGAGTGATTGGGGAGGACGGTGCAGAGGGCTACAGCGAC
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GGCTGGGGATGGCAACGAGGCCATTGGCGCTCTGATCCAGAACTACATCCGGGAGATTGAGGAGCTTCG
ACGAAGCTTCTGGAGAGTGAGGCTATGAATGAGTCCCTCCGAAGGAGCCTCTCCGGGCTTCCGCTCGGA



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ACCCTACTCCCTGGGAGCATCTCCAGCAGGTCCAGCCTTTGGGGCAGCCCGGCCAGCTCCATGGAAGA
 TGCTTCTGAAGTGATCCGCAGGGCCAAGCAAGACCTGGAGCGGCTGAAAAAGAAAGAGGTGAGGCAGCGG
 AGGAAGAGCCCGGAGAAAGAAGCCTTAAAAAGAGGGCAAACCTCCAGCAGGAAAACAGTGAGGAGACGG
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 CTCGGGCAGTGAAGAGAGCCTGGTGGACTCGGACTCCGACCCTGAGGAAAAGGAAGTCAACTCCAGGCA
 GACCTGGCGGACCTGACCTGTGAGATTGAGATCAAGCAGAAGCTGATCGACGAGCTGGAGAACAGCCAGC
 GGCGGCTACAGACGCTCAAGCACCAGTACGAGGAGAAGCTCATTCTGCTGCAGAACAAGATCCGAGACAC
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 GGAGCGCTGCAAGCTGAGAGCCCGGAGGAGGAGAAGGGACTACAGGAACTGGCTGAGGAGATCGAAGTG
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 AAACCAAGGAGGAGCTGGATTGACAGACACATCGGTGGTATTAGTTCTGCTCTCTGGCTGAAGCCCG
 CCTACTGTAGACAACTTCTCAAGGCATCCATTGACAAGGGACTCAAGTAGCACAGAAGGAGGCCCCAG
 ATCCGGCTGCTGGAAGGACGCTCAGACAAACAGACATGACAGGCTTCTCCAGAACCACCTGCTCTAG
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 AAAGGCTCCACCAGCCATGATGACTTCAAGTTCAAGGGTGAAGCCAAAGCTGTCCGCACAAATGAAGGCCG
 TGTCTGCGGAGTGCCTAGGACCCCACTGGACAGCTCCACCAAGAACATCACCAAGTCCCTGGCCTCCCT
 CGTTGAGATCAAAGAGGATGGGGTGGGCTTCTCTATCCGGGACCCATACTACCGAGACAAGGTCTCACGC
 ACCGTGAGCTGCCACCCGGGGCAGCACTTCCCTCGGCAGTCTCGAGGTGCCACGGATACATCCCTC
 TGACCCGACGAAAGTCTTATGACCGGGGACAGCCATCAGATCAACAGACATAGGATTACACCTCCCTC
 ATCACCTCCCACTCGGCCCGCAACGACCGCAATGTCTTTCTCGCCTCACCAGCAATCAGAGCCAGGGC
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 TTGGCGGAGCAAAGGGAGCGCGGACGGCCCGTTGCAAGTGTGTCTCCATGGCCGAGGGCCACACCAAGCC
 CATCTCTGCCTGGATGCCACCGATGAATTACTTTTCACTGGATCCAAAGACCGTAGTGAAGATGTGG
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 GCAGCCACTCAGGCTGGTGTCTGTGTCCAGCTCTACGTCAAGGTGTGGGACATCCGGGACTCAGC
 CAAGTGCATCCGACGCTCAGTCTCAGGCCAGGTGATCTCAGGAGATGCTTGCATGGCCACATCCACC
 CGTGCCATCACCAGTCCCAGGGAGAGCATCAGATTAACCAGATGGCCCTCAGCCCTCGGGCACCATGT
 TATATGTTGCCTCCGGCAACGCTGTCCGATCTGGGAGCTCAACAGGTTCCAGCCATTGGCAAACCTGAC
 CGGCCACATTGGCCAGTGTGCTGACAGTCAACCAGACTTCAAACCAGCATGACCTCGTGGTGTGACT
 GGCTCAAAGGACCACTATGTGAAGATGTTCCAGCTGGGCGACTGTGTAACGGGCACCATTGGCCAAACC
 ACAACTTTGAGCCCCCTCACTATGACGGTATCGAATGCCTGGCCATCCAAGGAGATATACTGTTCAAGTGG
 TTCCAGAGACAATGGCATCAAGAAGTGGGACCTGGATCAGCAGGAGCTCATTGAGCAATCCCAACGCT
 CACAAGGACTGGGTGTGCGCCCTGGCCTTTGTACCCGGCCGGCCATGTTACTGAGCGCTGCCGGGCGAG
 GCTTCATCAAGGTCTGGAATGTGGACAACCTCACGCCATTGGTGTGAGATCAAGGGCCATGACAGCCCAT
 CAATGCCATCTGCACCAACAGCAAGCACATCTTACGGCCTCCAGTACTGCCGGTAAAGCTGTGGAAT
 TACGTCCTGGACTACCCCTGCCTTCTCGACGAGTCTGGCCATAAAGGGCCGCGCCACCACCTGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001105990
Insert Size:	4905 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:	<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_001105990.1</u> , <u>NP_001099460.1</u>
RefSeq Size:	5387 bp
RefSeq ORF:	4905 bp
Locus ID:	289397
UniProt ID:	<u>F1M5N7</u>
Cytogenetics:	13q13
Gene Summary:	Plus-end directed microtubule-dependent motor protein which displays processive activity. Is involved in regulation of microtubule dynamics, synapse function and neuronal morphology, including dendritic tree branching and spine formation. Plays a role in learning and memory. Involved in delivery of gamma-aminobutyric acid (GABA(A)) receptor to cell surface. [UniProtKB/Swiss-Prot Function]