

Product datasheet for **RR212904**

Kif21b (NM_001105990) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kif21b (NM_001105990) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kif21b
Synonyms: MGC189181
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR212904 representing NM_001105990
 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RR212904 representing NM_001105990
 Red=Cloning site Green=Tags(s)

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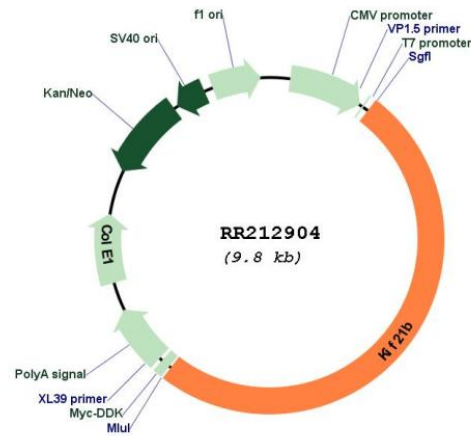
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001105990

ORF Size: 4902 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_001105990.1](#), [NP_001099460.1](#)

RefSeq Size: 5387 bp

RefSeq ORF: 4905 bp

Locus ID: 289397

UniProt ID: [F1M5N7](#)

Cytogenetics: 13q13

MW: 182.6 kDa

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]