

Product datasheet for **RR205902**

Kif5a (NM_212523) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kif5a (NM_212523) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kif5a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205902 representing NM_212523
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGAGACCAATAACGAATGCAGCATCAAGGTGCTTTGCCGATTTTCGGCCCTGAACCAGGCCGAGA
TCCTGCGGGGGACAAGTTCATCCCATTTTCCAAGGGGACGACGCGTCATTATGGGGAAAGCCATA
TGCTTTCGACCGTGTATCCCCCAACAGACTCAGGAGCAGGTTTACCACGCTGTGCCATGCAGATC
GTCAAAGACGTCCTTGCTGGCTACAACGGCACAATTTTGGCTATGGACAGACATCCTCAGGAAAACGC
ACACCATGGAGGAAAGCTGCACGACCCTCAGCTCATGGGCATCATTCCCGGATCGCCGAGACATCTT
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GATAAGATCCGTGACCTTTTGGATGTGACCAAGACAAACCTGTCTGTGCATGAGGACAAAACCGGGTGC
CGTTTGTGAGGGTGTACCGAACGCTTGTGTCCAGCCAGAGGAGATTCTGGATGTGATTGATGAGGG
GAAGTCGAACCGTCACGTTGCCGTCACCAACATGAATGAGCACAGCTCTCGGAGTCACAGCATCTCCTC
ATCAACATCAAGCAGGAGAACATAGAGACGGAGCAGAAGCTCAGCGGAAACTGTACCTTGGGATCTGG
CCGGAAGCGAGAAGGTCAGCAAGACAGGAGCAGAGGGAGCCGTTCTGGATGAGGCAAAGAATATCAATAA
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TGCTGGTGGATGAGCTGTCCAGAAAGTGGCCACCATGCTGTCCCTGGAGTCTGAGCCACAGCGGCTCCA
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TTCAGTGTATCGTGGGCAACGGCGAGATTAAGCTGCCTGTGGAGATCAGTGGGGCCATCGAAGAGGAGT
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RR205902 representing NM_212523
 Red=Cloning site Green=Tags(s)

MAETNNECSIKVLCRFRPLNQAEILRGDKFIPIFQGDSSVIIGGKPYVDFRVFPNNTQEQVYHACAMQI
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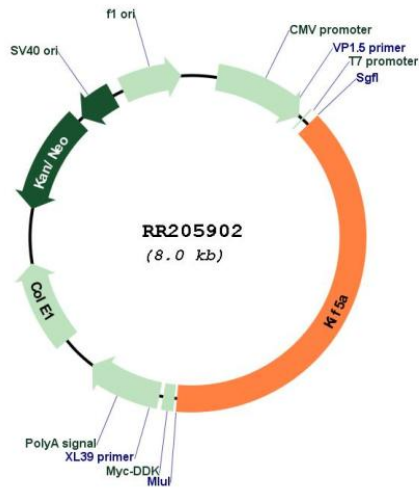
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_212523

ORF Size: 3081 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:	<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:	NM_212523.1 , NP_997688.1
RefSeq Size:	3485 bp
RefSeq ORF:	3084 bp
Locus ID:	314906
UniProt ID:	Q6QLM7
Cytogenetics:	7q22
MW:	116.9 kDa
Gene Summary:	neuron-specific member of the kinesin 5 (Kif5) family, consisting of the heavy chains of conventional kinesins; may be a microtubule motor protein; mutation in human homolog causes autosomal dominant spastic paraplegia 10 [RGD, Feb 2006]