

Product datasheet for RN205902

Kif5a (NM_212523) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kif5a (NM_212523) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kif5a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN205902 representing NM_212523 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGGCGGAGACCAATAACGAATGCAGCATCAAGGTGCTTTGCCGATTTTCGGCCCTGAACCAGGCCGAGA
TCCTGCGGGGGGACAAGTTCATCCCATTTTCCAAGGGGACGACGCGTCATTATGGGGGAAAGCCATA
TGCTTTCGACCGTGTATCCCCCAACACGACTCAGGAGCAGGTTTACCACGCTGTGCCATGCAGATC
GTCAAAGACGTCCTTGCTGGCTACAACGGCACAATTTTGGCTATGGACAGACATCCTCAGGAAAACGC
ACACCATGGAGGAAAGCTGCACGACCCTCAGCTCATGGGCATCATTCCCGGATCGCCGAGACATCTT
CAACCACATCTACTCCATGGATGAGAACCTTGAGTTCCACATTAAGGTGTCTTACTTTGAGATTTACCTG
GATAAGATCCGTGACCTTTTGGATGTGACCAAGACAAAACCTGTCTGTGCATGAGGACAAAACCGGGTGC
CGTTTGTGAGGGTGTACCGAACGCTTTGTGTCAGCCAGAGGAGATTCTGGATGTGATTGATGAGGG
GAAGTCGAACCGTCACGTTGCCGTCACCAACATGAATGAGCACAGCTCTCGGAGTCACAGCATCTCCTC
ATCAACATCAAGCAGGAGAACATAGAGACGGAGCAGAAGCTCAGCGGAAACTGTACCTTGGGATCTGG
CCGGAAGCGAGAAGGTCAGCAAGACAGGAGCAGAGGGAGCCGTTCTGGATGAGGCAAAGAATATCAATAA
GTCGCTGTGCGCCCTGGGGAATGTGATCTCTGCTCTGGCCGAGGGCACTAAAAGCTACGTGCCGTACCGT
GACAGCAAAATGACGAGGATTCTCCAGGACTCTCTGGGAGGAACTGCAGGACCACCATGTTTCATCTGCT
GCTCACCATCCAGCTACAATGACGCAGAGACCAAGTCCACACTCATGTTTGGGCAGCGGGCAAAGACCAT
CAAGAACACTGCCTCAGTGAATCTGGAGTTGACTGCTGAGCAATGGAAGAAGAAATATGAGAAGGAGAAG
GAGAAGACCAAGGCCAGAAGGAGACAATTGCGAAGCTGGAGGCTGAGCTTAGCCGTTGGCGCAATGGAG
AGAATGTGCCTGAGACTGAGCGCCTGGCTGGAGAGGACTCAGCTCTGGCAGCCGAGATCTGTGAGGAGAC
CCCTGTGAATGACAACCTCATCCATCGTGGTACGCATCGCACCGGAGGAAAGGCAGAAATACGAGGAAGAG
ATCCGCGTCTCTACAAGCAGCTCGACGACAAGGATGATGAGATCAACCAGCAGACCAACTCATTGAGA
AGCTGAAGCAGCAGATGCTGGACCAGGAAGAGCTGCTAGTGTCCACTCGGGGAGACAATGAGAAGGTCCA
GCGGGAGCTGAGCCACCTGCAGTCTGAGAACGATGCCGGAAGGAGGAGTGAAGGAAGTGTTCAGGCC
CTGGAGGAGCTGGCAGTCAACTATGACCAGAAGTCCCAGGAGGTGGAGGAGAAGGCCAGCAGAACCAGC
TGCTGGTGGATGAGCTGTCCAGAAAGTGGCCACCATGCTGTCCCTGGAGTCTGAGCCACAGCGGCTCCA
GGAAGTCAGTGGACACCAGCGAAAACGGATCGCTGAGGTGCTGAATGGACTGATGAAGGACCTGAGTGAAG



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TTCAGTGTATCGTGGGCAACGGCGAGATTAAGCTGCCTGTGGAGATCAGTGGGGCCATCGAAGAGGAGT
 TCACGGTGGCCCGACTCTACATCAGCAAGATCAAGTCAGAGGTGAAGTCCGTGGTTAAGCGATGCCGGCA
 GCTGGAGAACCTCCAAGTGGAGTGTATCGCAAGATGGAGGTGACCGGTAGGGAGCTGTCGTCTTGCCAG
 CTGCTCATCTCACAGCACGAGGCCAAGATCCGTTCCGCTCACGGAATACATGCAGACTGTGGAGTTGAAGA
 AGCGGCACCTGGAAGAGTCTATGACTCCCTGAGCGATGAGCTAGCCAAGCTCCAGGCGCAGGAACTGT
 ACACGAGGTAGCTCTGAAAGACAAGGAGCCAGATACGCAGGATGCGGAGGAGGTGAAGAAGGCCCTGGAA
 CTACAGATGGAGAATCATCGTGAGGCCATCACCGCAGCTGGCCCGCTCCGAGATGAGATCAATGAGA
 AACAGAAGACCATTGATGAGCTTAAAGACCTGGACCAGAAGCTCCAGTTAGAGCTGGAGAAGCTTCAGGC
 TGATTACGAGAGACTGAAGAACGAAGAGAACGAGAAGAGTGCCAAGCTCCAGGAGCTGACATTTCTGTAT
 GAGCGGCATGAGCAGTCCAAGCAGGACCTCAAGGGGCTGGAGGAGACAGTTGCCCGTGAAGTCCAGACCC
 TCCACAACCTGCGCAAGCTGTTCTGTTCAAGACGTCACGACTCGAGTCAAGAAAAGTGCAGAAATGGAGCC
 CGAGGACAGTGGGGGATTCAATCCCAAAGCAGAAGATCTCCTTTCTTGAGAACAACCTGGAACAGCTT
 ACAGAGGTTCAACAACAGCTGGTACGTGACAATGCAGATCTGCGTTGTGAGCTTCTAAATTGAAAAAC
 GACTTCGGGCTACGGCTGAGAGAGTTAAGGCCCTGGAGGGTGCAGTGAAGGAGGCCAAGGAGGGCGCTAT
 GAAGGACAAGCGCGATACCAGCAGGAGGTGGACCGCATCAAGGAAGCTGTGCGGTACAAGAGCTCTGGC
 AAGCGGGGCCACTCTGCCAGATTGCTAAGCCTGTGAGGCCCGGCCACTATCCTGCCTCCTACCCACCA
 ACCCTACGGTACCCGGAGTCCCGAGTGTATCAGCTACACCAACAACCTCTTCCAGAAGTACCAGAACCT
 GCACCTGCAGGCTGCGCCTAGCTCCACCTCAGACGTGACTTTGCCAGCAACGGAGCCACATCTGTTGCC
 CCCTTGGCTTCTACCAGAAGGCCAACACGGACAATGAAACGCCACAGATATCAACGACAACAGGAGTG
 ACCTGCCCTGCGGCTATGAGGCTGAGGACCCAGCCAAGCTTTCCCTCTCCACCAAGAGACGGCAGCCAG
 CTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_212523
- Insert Size:** 3084 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:**
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

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]