

## Product datasheet for SC311122

### Kinesin 5A (KIF5A) (NM\_004984) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kinesin 5A (KIF5A) (NM_004984) Human Untagged Clone
Tag:	Tag Free
Symbol:	Kinesin 5A
Synonyms:	ALS25; D12S1889; MY050; NEIMY; NKHC; SPG10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311122 representing NM_004984. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGAGACCAACAACGAATGTAGCATCAAGGTGCTCTGCCGATTCGGCCCTGAACCAGGCTGAG
ATTCTGCGGGGAGACAAGTTCATCCCCATTTTCAAGGGGACGACAGCGTCGTTATTGGGGGAAGCCA
TATGTTTTTACCCTGTATTCCCCCAACACGACTCAAGAGCAAGTTTATCATGCATGTCCATGCAG
ATTGTCAAAGATGTCCTTGCTGGCTACAATGGCACCATTTTGTCTATGGACAGACATCCTCAGGGAAA
ACACATACCATGGAGGAAAGCTGCACGACCCTCAGCTGATGGGAATCATTCTCGAATTGCCGAGAC
ATCTTCAACCACATCTACTCCATGGATGAGAACCTTGAGTCCACATCAAGGTTTCTTACTTTGAAATT
TACCTGGACAAAATTCGTGACCTTCTGGATGTGACCAAGACAAAATCTGTCCGTGCACGAGGACAAGAAC
CGGGTGCCATTTGTCAAGGGTGTACTGAACGCTTTGTGTCCAGCCCGGAGGAGATTCTGGATGTGATT
GATGAAGGGAAATCAAATCGTCATGTGGCTGTCAACAACATGAATGAACACAGCTCTCGGAGCCACAGC
ATCTTCTCATCAACATCAAGCAGGAGAACATGGAAACGGAGCAGAAAGCTCAGTGGGAAGCTGTATCTG
GTGGACCTGGCAGGGAGTGAGAAGGTGAGCAAGACTGGAGCAGAGGGAGCCGTGCTGGACGAGGCAAG
AATATCAACAAGTCACTGTCAGCTCTGGCAATGTGATCTCCGCACTGGCTGAGGGCACTAAAAGCTAT
GTTCCATATCGTGACAGCAAAAATGACAAGGATTCTCCAGGACTCTCTCGGGGAAACTGCCGACGACT
ATGTTTCTGTTGCTCACCATCCAGTTATAATGATGCAGAGCAAGTCCACCCTGATGTTTGGGCAG
CGGGCAAAGACCATTAAGAACAACCTGCCTCAGTAAATTTGGAGTTGACTGCTGAGCAGTGAAGAAGAAA
TATGAGAAGGAGAAGGAGAAGACAAGGCCAGAGGAGACGATTGCGAAGCTGGAGGCTGAGCTGAGC
CGGTGGCGCAATGGAGAGAATGTGCCTGAGACAGAGCGCCTGGCTGGGGAGGAGGAGCCCTGGGAGCC
GAGCTCTGTGAGGAGACCCTGTGAATGACAACCTATCCATCGTGGTGCGCATCGCAGGAGGAGCGG
CAGAAATACGAGGAGGAGATCCGCCGTCTATAAAGCAGCTTGACGACAAGGATGATGAAATCAACCAA
CAAAGCCAACTCATAGAGAAGCTCAAGCAGCAAAATGCTGGACCAGGAAGAGCTGCTGGTGTCCACCGA
GGAGACAACGAGAAGGTCCAGCGGGAGCTGAGCCACCTGCAATCAGAGAACGATGCCGCTAAGGATGAG
GTGAAGGAAGTGTGCAGGCCCTGGAGGAGCTGGCTGTGAACTATGACCAGAAGTCCAGGAGGTGGAG
```



[View online »](#)

GAGAAGAGCCAGCAGAACCAGCTTCTGGTGGATGAGCTGTCTCAGAAGGTGGCCACCATGCTGTCCCTG  
 GAGTCTGAGTTGCAGCGCTACAGGAGGTGAGTGGACACCAGCGAAAACGAATTGCTGAGGTGCTGAAC  
 GGGCTGATGAAGGATCTGAGCGAGTTCACTGTGCGCCGACTCTACATCAGCAAAATCAAATCAGAAGTC  
 AAGTCTGTGGTCAAGCGGTGCCGCGAGCTGGAGAACCTCCAGGTGGAGTGTACCAGCAAGATGGAAGTG  
 ACCGGCGGGAGCTCTCATCTGCCAGCTCCTCATCTCAGCATGAGGCCAAGATCCGCTCGCTTACG  
 GAATACATGCAGAGCGTGGAGCTAAAGAAGCGGCACCTGGAAGAGTCTATGACTCCTTGAGCGATGAG  
 CTGGCCAAGTCCAGGCCAGGAACTGTGCATGAAGTGGCCCTGAAGGACAAGGAGCCTGACACTCAG  
 GATGCAGATGAAGTGAAGAAGGCTCTGGAGCTGCAGATGGAGAGTACCAGGAGGCCCATACCAGGAG  
 CTGGCCCGGCTCCGGGACGAGATCAACGAGAAGCAGAAGACCATTGATGAGCTCAAAGACCTAAATCAG  
 AAGCTCCAGTTAGAGCTAGAGAAGCTTCAGGCTGACTACGAGAAGCTGAAGAGCGAAGAACACGAGAAG  
 AGCACCAAGCTGCAGGAGCTGACATTTCTGTACGAGCGACATGAGCAGTCCAAGCAGGACCTCAAGGGT  
 CTGGAGGAGACAGTTGCCCGGAACTCCAGACCCTCCACAACCTTCGCAAGCTGTTGTTCAAGACGTC  
 ACGACTCGAGTCAAGAAAAGTGCAGAAAAGGAGCCGAAGACAGTGGGGGATTCACTCCAAAAGCAG  
 AAGATTTCTTTCTTGAACAACCTGGAACAGCTTACAAGGTTCAACAACAGCTGGTACGTGACAAT  
 GCAGATCTGCGTTGTGAGCTTCTAAATTTGAAAAACGACTTAGGGCTACGGCTGAGAGAGTTAAGGCC  
 CTGGAGGGTGCCTGAAGGAGGCCAAGGAGGGCGCCATGAAGGACAAGCGCCGGTACCAGCAGGAGGTG  
 GACCGCATCAAGGAGGCCGTTTCGCTACAAGAGCTCGGGCAAACGGGGCCATTCTGCCAGATTGCCAAA  
 CCCGTCGGCCTGGCCACTACCCAGCATCTCACCACCAACCCCTATGGCACCCGGAGCCCTGAGTGC  
 ATCAGTTACACCAACAGCCTCTTCCAGAACTACCAGAATCTCTACCTGCAGGCCACACCCAGCTCCACC  
 TCAGATATGTACTTTGAAAACCTCTGTACCAGCAGTGGAGCCACATCTTCTGGCGGCCCTTGGCTTCC  
 TACCAGAAGGCCAACATGGACAATGGAATGCCACAGATATCAATGACAATAGGAGTGACCTGCCGTGT  
 GGCTATGAGGCTGAGGACCAGGCCAAGCTTTTCCCTCTCCACCAAGAGACAGCAGCCAGCTAA  
 ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT  
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_004984
- Insert Size:** 3099 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_004984.2](#)

RefSeq Size:	3897 bp
RefSeq ORF:	3099 bp
Locus ID:	3798
UniProt ID:	<a href="#">Q12840</a>
Cytogenetics:	12q13.3
Domains:	kinesin
Protein Families:	Druggable Genome
MW:	117.4 kDa
Gene Summary:	This gene encodes a member of the kinesin family of proteins. Members of this family are part of a multisubunit complex that functions as a microtubule motor in intracellular organelle transport. Mutations in this gene cause autosomal dominant spastic paraplegia 10. [provided by RefSeq, Jul 2008]