

Product datasheet for SC332175

KIF21B (NM_001252103) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: KIF21B (NM_001252103) Human Untagged Clone
Tag: Tag Free
Symbol: KIF21B
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC332175 representing NM_001252103.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGGCCGGCCAGGGGGACTGCTGCGTCAAGGTGGCCGTCAAGGATCCGGCCCCAGCTGTGCGAAGGAGAAG
ATTGAGGGCTGTACATCTGTACCTCTGTTACCCCGGGAGAGCCCCAGGTCTGTGGGGAAGGACAAG
GCCTTCACCTATGACTTTGTCTTCGACCTGGACACCTGGCAAGAACAGATCTATTCCACCTGTGTGAGC
AAGCTCATCGAGGGCTGCTTCGAGGGCTATAATGCCACGGTGTGGCCTATGGGCAGACGGGGCCGGG
AAGACGTACACCATGGGCACTGGCTTTGACATGGCAACGTGGAGGAGGAGCAGGGCATCATCCCGAGG
GCCATCGCACACCTCTTTGGGGCATTGCCGAGCGAAGCGCCGGGCACAGGAGCAGGGCGTGGCAGG
CCTGAGTTCAAAGTCAGCGCCAGTTTCTGGAGCTCTACAACGAGGAGATCCTTGACCTGTTTGACAGC
ACCCGTGACCCTGACACCCGCCACCGCAGGTCCAACATCAAGATCCACGAGGACGCAAACGGTGGCATC
TACACCACTGGCGTCACTTCTCGCCTCATCCACTCCCAGGAGGAGCTGATCCAGTGCCTGAAGCAGGGG
GCCCTGTCCCGCACCACAGCCAGCACCCAGATGAACGTGCAGAGCTCACGCTCCCACGCCATCTTCACC
ATCCACCTGTGCCAGATGCGCATGTGCACCCAGCCGACCTGGTGAATGAGGCGGTGACTGGGCTTCTT
GATGGTACACCTCCCTCGAGTGAATGAGACTCACTGCTAAGTTTCACTTTGTGGACCTGGCCGGC
TCAGAGCGGTGAAGCGGACAGGGGCTACTGGCAGCGGGCAAGGAGGGCATCTCCATCAACTGTGGC
CTGCTGGCCTTGGCAATGTGATCAGCGCCTTAGGGGACCAGAGCAAGAAGGTGGTGCACGTTCCCTAC
AGGGACTCCAAGCTCACTCGGCTCCTCCAGGATTGCTGGGGGCAACAGCCAGACCATCATGATCGCC
TGTGTGAGCCCTCAGACCGAGATTTATGGAGACCTCAACACACTCAAATATGCCAATCGGGCCCGC
AACATCAAGAACAAGGTGGTAGTGAACCAGGACAAGACCAGCCAGCAAATCAGTGCCTGCGGGCTGAG
ATTGCTCGGCTGCAGATGGAGCTGATGGAGTAAAGGCGGCAAGCGAGTATAGGAGAGGATGGCGCT
GAGGGCTATAGTATCTGTTCCGAGAGAATGCCATGCTACAGAAGGAGAATGGGGCCCTGCGGCTGCGG
GTGAAAGCCATGCAGGAGGCCATCGATGCCATCAACAACCGCGTCACCCAGCTCATGAGCCAGGAGGCC
AACCTGCTGCTAGCCAAGGCCGGGATGGCAATGAGGCCATTGGTGCCTGATCCAGAATCATACCCGG
GAGATCGAGGAGCTACGGACTAAGCTTCTAGAGAGTGAAGCCATGAACGAGTCCCTGCGCCGAGCCTC
TCACGGGCTCGGCTAGGAGCCCTACTCCCTGGGTGCTTCTCCAGCCCGCCGGCTTCCGGGGCAGC
CCTGCCAGCTCCATGGAGGATGCCTCGGAGGTGATCCGCAGGGCCAAGCAGGACCTGGAGCGGCTAAG
AAGAAGGAGGTCAGGCAGCGGAGGAAGAGCCCGAGAAGGAAGCCTTCAAAAAGAGGGCAAAACTCCAA
CAGGAGAACAGCGAGGAGACGGATGAGAACGAGGCGGAGGAGGAGGAAGAGCGAGACGAGAGTGGC
TGTGAGGAGGAGGAAGGGCGGAGGATGAAGATGAGGACTCGGGCAGTGAAGAGAGCCTGGTGGACTCA
GACTCAGACCCCGAGGAGAAGGAGGTGAACCTCCAGGCGGACCTGGCCGACCTGACTTGTGAGATCGAA
ATCAAGCAGAAGCTGATCGACGAGCTGGAGAACAGCCAGCGGCGGTTGCAGACGCTCAAGCACCAGTAT
GAGGAAAAGCTGATTCTGCTGCAGAACAAGATCCGAGACACACAGCTGGAGCGGACCGTGTGCTGCAG
  
```



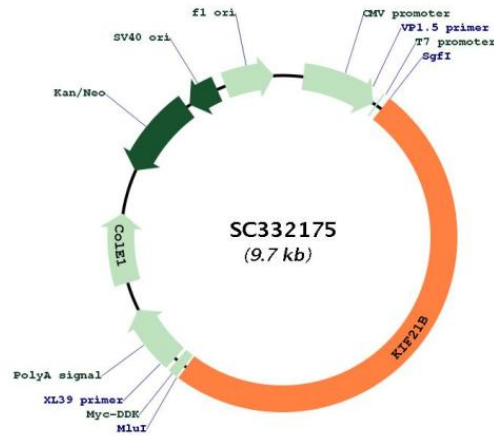
[View online »](#)

AACCTCAGCACCATGGAGTGCTATACTGAGGAGAAGGCCAACCAAGATCAAGGCAGACTATGAGAAGAGG
 CTGCGGGAGATGAACCGGGACCTGCAGAAGCTGCAGGCCGCCAGAAAGAGCACGCCCGGCTGCTTAAG
 AACCAAGTCGCGCTACGAGAGGGAGCTGAAGAAGCTACAGGCCGAGGTGGCTGAGATGAAGAAGGCCAAG
 GTGGCCCTGATGAAGCAGATGCGTGAGGAGCAACAGCGCGCGGCTAGTGGAGACCAAGAGGAACCGG
 GAGATCGCACAGCTCAAGAAGGAGCAGCGGCGACAGGAGTTTCAGATCCGAGCTCTGGAGTCCAGAAG
 CGGCAGCAGGAGATGGTCTGAGGAGGAAGACCCAGGAGTTTCTGCACTGAGGCCCTGGCCAAGCCC
 ATGTCTGAGCGGGTGGCAGGGCTGCAGGACTAAAGCCACCCATGCTGGACTCTGGGGCTGAGGTGTCG
 GCCAGCACTACCTCATCTGAGGCTGAATCAGGGGCCCGCTCTGTCTCCAGCATCGTGCGCCAGTGAAC
 CGCAAAATCAACCACTTCTTGGGGACCCTCTGCGCCACTGTCAATGGCACCCGCTCTGCCCGAAAG
 AAGTTCAGAGAAGAAGGGGCCAGCCAGAGCTTCAGTAAGGCGGCAAGGCTCAAGTGGCAGTCCCTGGAG
 CGACGGATCATTGACATCGTCATGCAGAGAATGACCATTGTCAACCTGGAGGCTGACATGGAGCGGCTC
 ATCAAGAAAAGGGAGGAGCTGTTCTCTGCGAGGCACTGCGGAGGAAGCGGGAGCGGCTGCAGGCT
 GAGAGCCCCGAGGAAGAGAAGGGCTGCAGGAGCTGGCTGAGGAGATCGAGGTGCTGGCAGCCAACATT
 GACTACATCAATGACGGCATCCCGACTGCCAGGCCACCATCGTGCAGCTGGAGGAGACCAAGGAGGAG
 CTGGACTCCACAGACACATCCGTGGTCTCAGCTCCTGCTCCCTGGCTGAAGCCCGCTCTGCTAGAC
 AACTTCTCAAGGCATCCATTGACAAGGGCTGCAAGTGGCACAAAAGGAAGCCAGATCCGGCTGTTG
 GAGGGCCGACTGAGGCAGACGGATATGGCAGGCTCCTCCAGAACCATCTGCTCCTGGACGCCCTGCGT
 GAGAAGGCTGAAGCTCACCCGAGCTGCAGGCCCTCATCTACAATGTGCAGCAGGAGAATGGCTACGCC
 AGCACAGATGAGGAGATCTCAGATTCTCTGAGGGCAGCTTCTCCAGTCATTACCATGAAAGGCTCC
 ACCAGCCATGACGATTTCAAGTTCAAGAGCGAGCCAACTGTCTGCCAAATGAAAGCTGTGTCGGCT
 GAGTGCCTGGGCCCCCACTGGATATCTCCACCAAGAACATCACCAAGTCCCTGGCTCCCTCGTTGAG
 ATCAAAGAGGACGGAGTGGCTTCTCTGTCGAGACCCCTATTACCGGGACAGGGTCTCGCCACCGTC
 AGTCTGCCTACCGGGGACACTTTCCTAGGCAATCTCGAGCCACAGAGACGTCCCGCTGACGAGA
 AGGAAGTCTACGACCGAGGGCAGCCATTAGGTCCACAGATGTGGGATTACACCCCATCATCCCT
 CCCACTCGGCCCGCAATGACCGCAATGTCTTCTCTGCTCACCAGTAATCAGAGCCAGGGTACGCG
 CTGGACAAGGGCATCATCTCCCGGTTGGAGGAGCCAAGGGTGCACGGACGGCCCACTGCAGTGTGTC
 TCCATGGCCGAAGGCCACACCAAGCCATCCTCTGCCTGGATGCCACAGATGAGTTGCTATTCACAGGG
 TCCAAAGACCGAAGCTGCAAGATGTGGAACCTGGTTACGGGACAGGAGATCGCAGCTCTAAAGGGCCAC
 CCCAACACGTGGTCTCCATCAAGTACTGCAGCCACTCGGGCTTGTGTTCTCCGTGCCACCTCCTAC
 ATCAAGGTGTGGGACATCCGGGACTCAGCCAAGTGCATTTCGGACTCTCACGTCTCGGGCCAGGTGATC
 TCAGGGGATGCCTGTGCCGCCACATCCACCCGTGCCATCACCAGTCTCAGGGCAGCATCAGATCAAC
 CAGATCGCCCTCAGCCCTTCGGGACCATGCTGTACGCCCTCGGGCAATGCCGTCCGATCTGGGAG
 CTTAGCAGGTTCCAGCCTGTCCGCAAGCTGACTGGCCACATCGGCCCTGTGATGTGCCTGACGGTACC
 CAGACGGCCAGCCAGCATGACCTCGTGGTACTGGCTCCAAGGACCACTACGTTAAGATGTTTCGAGCTG
 GGGAGTGTGTGACGGGACCATCGGCCCACTCAAACTTCGAGCCCCGCACTACGATGGCATCGAG
 TGTCTCGCCATCCAGGGAGACATCCTGTTCAAGTGGCTCCCGAGATAACGGCATCAAGAAGTGGGACCTA
 GACCAGCAGGAGCTCATCCAGCAATCCCAATGCGCACAAAGGACTGGGTGTGCCCTGGCCTTTCATC
 CCGGGCCGCCATGCTGCTCAGCGCTGCCGTGCGGGTGTATCAAGGTCTGGAACGTGGACAACCTC
 ACACCATCGGTGAGATCAAGGGCCACGACAGTCCCATCAATGCCATCTGCACCAATGCCAAGCATATC
 TTCACAGCCTCCAGTGACCTGACGGTGAAGTTCTGGAGTGTCCGGCGTTACCCACAGCGGCCACCC

TAG

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_001252103

Insert Size: 4833 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_001252103.1](#)

RefSeq Size: 9300 bp

RefSeq ORF: 4833 bp

Locus ID: 23046

UniProt ID: [O75037](#)

Cytogenetics: 1q32.1

Protein Families: Druggable Genome

MW: 179.8 kDa

Gene Summary: This gene encodes a member of the kinesin superfamily. Kinesins are ATP-dependent microtubule-based motor proteins that are involved in the intracellular transport of membranous organelles. Single nucleotide polymorphisms in this gene are associated with inflammatory bowel disease and multiple sclerosis. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]
Transcript Variant: This variant (4) differs in the 3' UTR, lacks an in-frame exon in the coding region and uses an alternate splice site in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (4) is shorter and has a distinct C-terminus, compared to isoform 1.