

Product datasheet for **RC234521**

KIF22 (NM_001256270) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF22 (NM_001256270) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIF22
Synonyms:	A-328A3.2; KID; KNSL4; OBP; OBP-1; OBP-2; SEMDJL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234521 representing NM_001256270
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACAGCTGCTCTCTAGAGATTGCTAACTGGAGGAACCACCAGGAGACTCTCAAATACCAAGTTTGATG
 CCTTCTATGGGGAGAGGAGTACTCAGCAGGACATCTATGCAGGTTCAAGTGCAGCCATCCTAAGGCACTT
 GCTGGAAGGGCAGAATGCCAGTGTGCTTGCCTATGGACCCACAGGAGCTGGGAAGACGCACACAATGCTG
 GGCAGCCAGAGCAACCTGGGGTATCCCGCGGGCTCTCATGGACCTCCTGCAGCTCACAAGGGAGGAGG
 GTGCCGAGGGCCGCCATGGGCCCTTTCTGTCACCATGTCTTACCTAGAGATCTACCAGGAGAAGGTATT
 AGACCTCTGGACCTGCTTCGGGAGACCTGGTAATCCGAGAAGACTGCCGGGGGAATATCTGATTCCG
 GGTCTCTCCAGAAGCCATCAGTAGCTTTGCTGATTTTGAGCGGCCTCTGCCAGCCAGTCGAAATC
 GGACTGTAGGAGCCACCCGGCTCAACCAGCGCTCCTCCCGCAGTCATGCTGTCTCTGGTCAAGGTGGA
 CCAGCGGGAACGTTTGGCCCCATTTCCGAGCAGGAGGGAAAACCTCTACCTGATTGACTTGGCTGGTCA
 GAGGACAACCGCGCACAGGCAACAAGGGCCTTCGGCTAAAAGAGAGTGGAGCCATCAACACCTCCCTGT
 TTGTCCTGGGCAAAGTGGTAGATGCGCTGAATCAGGGCCTCCCTCGTGTACCTTATCGGGACAGCAAGCT
 CACTCGCCTATTGAGGACTCTCTGGGTGGCTCAGCCACAGTATCCTTATTGCCAACATTGCCCTGAG
 AGACGCTTCTACCTAGACACAGTCTCCGCACTCAACTTGTCTGCCAGGTCCAAGGAGGTGATCAATCGGC
 CTTTTACCAATGAGAGCTGCAGCCTCATGCCTGGGACCTGTTAAGCTGTCTCAGAAAGAATTGCTTGG
 TCCACCAGAGGCAAAGAGAGCCCGAGGCCCTGAGGAAGAGGAGATCGGGAGCCCTGAGCCATGGCAGCT
 CCAGCCTCTGCCTCCAGAAAACCTCAGCCCCCTACAGAAGCTAAGCAGCATGGACCCGGCCATGCTGGAGC
 GCCTCCTCAGCTTGGACCGTCTGCTTGCCTCCAGGGGAGCCAGGGGGCCCTCTGTTGAGTACCCAAA
 GCGAGAGCGGATGGTGCTAATGAAGACAGTGGAAAGAGAAGGACCTAGAGATTGAGAGGCTTAAGACGAAG
 CAAAAAGAACTGGAGGCCAAGATGTTGGCCAGAAAGGCTGAGGAAAAGGAGAACCATTGTCCACAAATGC
 TCCGGCCCTTTACATCGCACAGTACAGGGGCAAAGCCCTGAAAAAGGCTGTGGTGTGCCCTACA
 GCTAATTCAGGAGCAGGCAGCATCCCCAAATGCCGAGATCCACATCCTGAAGAATAAAGGCCGGAAGAGA
 AAGCTGGAGTCCCTGGATGCCCTAGAGCCTGAGGAGAAGGCTGAGGACTGCTGGGAGCTACAGATCAGCC
 CGGAGCTACTGGCTCATGGGCGCAAAAAATACTGGATCTGCTGAACGAAGGCTCAGCCCGAGATCTCCG
 CAGTCTTCAGCGCATTGGCCGAAGAAGGCCAGCTAATCGTGGGCTGGCGGGAGCTCCACGGCCCTTC
 AGCCAGGTGGAGACCTGGAACGCGTGGAGGGCATAACGGGGAACAGATGGAGTCTTCTGAAGGCAA
 ACATCCTGGGTCTCGCCCGCGCCAGCGCTGTGGCCCTCC

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234521 representing NM_001256270
 Red=Cloning site Green=Tags(s)

MDSCSLEIANWRNHQETLKYQFADFYGERSTQQDIYAGSVQPILRHLLEGQNASVLAYGPTGAGKTHML
 GSPEQPGVIPRALMDLLQLTREEGAEGRPWALSVTMSYLEIYQEKVLDLLDPASGDLVIREDCRGNILIP
 GLSQPKISSFADFERHFLPASRNRTVGATRLNQRSSRSHAVLLVKVDQRERLAPFRQREGKLYLIDL
 AGS EDNRRTGNKGLRLKESGAINSTLFLVKGVVLDALNQGLPRVPYRDSKLRLLQDSLGGSAHSILIANIAPE
 RRFYLDTVSALNFAARSKEVINRPFNTESLQPHALGPVKLSQKELLGPPEAKRARGPEEEEEIGSPEPMAA
 PASASQKLSPLQKLSMMPAMLERLLSLDRLLASQGSQGAPLLSTPKRERMVLMKTVEEKDLEIERLKTK
 QKLEAKMLAQKAEKENHCPTMLRPLSHRTVTGAKPLKAVVMPLQLIQEQAASPNAEIHILKNKGRKR
 KLESLDALEPEEKAEDCWELQISPELLAHGRQKILDLLNEGSARDLRSLQRIGPKKAQLIVGWRELHGPF
 SQVEDLERVEGITGKQMESFLKANILGLAAGQRCGAS

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001256270

ORF Size: 1791 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_001256270.1](#), [NP_001243199.1](#)

RefSeq Size: 2296 bp

RefSeq ORF: 1794 bp

Locus ID: 3835

UniProt ID: [Q14807](#)

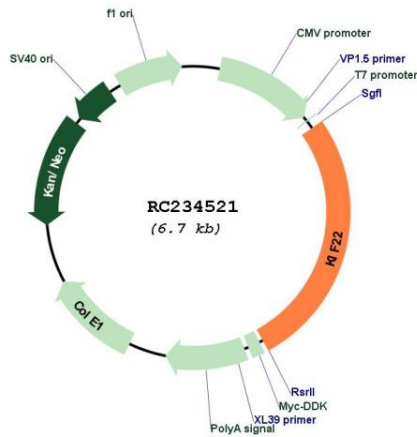
Cytogenetics: 16p11.2

Protein Families: Druggable Genome

MW: 66.8 kDa

Gene Summary: The protein encoded by this gene is a member of the kinesin-like protein family. The family members are microtubule-dependent molecular motors that transport organelles within cells and move chromosomes during cell division. The C-terminal half of this protein has been shown to bind DNA. Studies with the *Xenopus* homolog suggests its essential role in metaphase chromosome alignment and maintenance. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RC234521