

Product datasheet for **SC319437**

KIF22 (NM_007317) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF22 (NM_007317) Human Untagged Clone
Tag:	Tag Free
Symbol:	KIF22
Synonyms:	A-328A3.2; KID; KNSL4; OBP; OBP-1; OBP-2; SEMDJL2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_007317.1
 GGCCCAAGGAGGGAGTGGAAATGGCCGCGGGCGGCTCGACGCAGCAGAGGGCGACGCGAGAT
 GGCGGCAGCTTCAGCGCGCGGATCTCAGGAGCTGGTCGCTGTCGGCTAAGCAAGATTGG
 AGCTACTCGTCCACCTCCAGCTCGCGTAAGGGTGGCTGTGCGACTGCGGCCATTTGT
 GGATGGAACAGCGGGAGCAAGTATCCCCCTGTGTGCGGGGCATGGACAGCTGCTCTCT
 AGAGATTGCTAACTGGAGAAACCACCAGGAGACTCTCAAATACCAGTTTGATGCCTTCTA
 TGGGAGAGGAGTACTCAGCAGGACATCTATGCAGGTTTCAAGTGCAGCCCATCTAAGGCA
 CTTGCTGGAAGGGCAGAATGCCAGTGTGCTTGCCTATGGACCCACAGGAGCTGGGAAGAC
 GCACACAATGCTGGGCAGCCAGAGCAACCTGGGGTATCCCGCGGGCTCTCATGGACCT
 CCTGCAGCTCACAAGGGAGGAGGGTCCGAGGGCCGCCATGGGCCCTTCTGTCAACAT
 GTCTTACCTAGAGATCTACCAGGAGAAGGTATTAGACCTCCTGGACCCTGCTTCGGGAGA
 CCTGTAATCCGAGAAGACTGCCGGGGAAATACCTGATTCCGGGTCTCTCCAGAAGCC
 CATCAGTAGCTTTGCTGATTTTGTAGCGCACTTCTGCCAGCCAGTCGAAATCGGACTGT
 AGGAGCCACCCGGCTCAACCAGCGCTCCTCCCGAGTCATGCTGTCTCCTGGTCAAGGT
 GGACCAGCGGGAACGTTTGGCCCATTTGCCAGCGAGAGGGAAAACCTACCTGATTGA
 CTTGGCTGGGTACAGAGCAACCGCGCACAGGCAACAAGGGCCTTCGGCTAAAAGAGAG
 TGGAGCCATCAACACCTCCCTGTTTGCCTGGGCAAAGTGGTAGATGCGCTGAATCAGGG
 CCTCCCTCGTGTACCTTATCGGGACAGCAAGCTCACTCGCCTATTGCAGGACTCTCTGGG
 TGGCTCAGCCACAGTATCCTTATTGCCAACATTGCCCTGAGAGACGCTTCTACCTAGA
 CACAGTCTCCGCACTCAACTTGTGCCAGGTCCAAGGAGGTGATCAATCGGCCCTTTTAC
 CAATGAGAGCCTGCAGCCTATGCCTTGGGACCTGTTAAGCTGTCTCAGAAAGAATTGCT
 TGGTCCACCAGAGGCAAGAGAGCCCGAGGCCCTGAGGAAGAGGAGATTGGGAGCCCTGA
 GCCCATGGCAGTCCAGCCTCTGCCTCCAGAACTCAGCCCCCTACAGAAGCTAAGCAG
 CATGGACCCGGCCATGCTGGAGCGCCTCCTCAGCTTGGACCGTCTGCTTGCCTCCAGGG
 GAGCCAGGGGCCCTCTGTTGAGTACCCCAAAGCGAGAGCGGATGGTGTAATGAAGAC
 AGTAGAAGAGAAGGACCTAGAGATTGAGAGGCTTAAGACGAAGCAAAAAGAACTGGAGGC
 CAAGATGTTGGCCAGAAGGCTGAGGAAAAGGAGAACCATTGTCCACAATGCTCCGGCC
 CCTTTCACATCGCACAGTACAGGGCAAAGCCCTGAAAAGGCTGTGGTGATGCCCT
 ACAGCTAATTCAGGAGCAGGCAGCATCCCCAAATGCCGAGATCCACATCCTGAAGAATAA
 AGGCCGGAAGAGAAAGCTGGAGTCCCTGGATGCCCTAGAGCCTGAGGAGAAGGCTGAGGA
 CTGCTGGGAGCTACAGATCAGCCCGAGCTACTGGCTCATGGGCGCCAAAAAATACTGGA
 TCTGCTGAACGAAGGCTCAGCCGAGATCTCCGAGTCTTCAGCGCATTGGCCCGAAGAA
 GGCCAGCTAATCGTGGGCTGGCGGGAGCTCCACGGCCCTTCAGCCAGGTGGAGGACCT
 GGAACCGTGGAGGGCATAACGGGGAAACAGATGGAGTCTTCTCCTGAAGGCAACATCCT
 GGGTCTCGCCCGCGGACGCGTGTGGCGCCTCCTGACCGTCTCTCCTCACTCCGCCTT
 TTCAAATTTTGTATAACCCCGTGTGTGTAATACAGTTTTTGTCCGGAAAAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire
ACCN: NM_007317

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_007317.1](#), [NP_015556.1](#)

RefSeq Size: 2097 bp

RefSeq ORF: 1998 bp

Locus ID: 3835

UniProt ID: [Q14807](#)

Cytogenetics: 16p11.2

Domains: kinesin, HhH1

Protein Families: Druggable Genome

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]

Transcript Variant: This variant (1) encodes the longer isoform (1).