

## Product datasheet for **RC239792**

### **KIF17 (NM\_001287212) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	KIF17 (NM_001287212) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIF17
Synonyms:	KIF3X; KIF17B; KLP-2; OSM-3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC239792 representing NM\_001287212  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGGGCCTGCCGGATCCGCCCTCCAGAGAGGCATCATCCCCAGGGCCTTCGAGCACGTGTTTCGAGA  
 GCGTCCAGTGTGCAGAGAACACTAAGTTCTGGTCCGGGCTCCTACCTGGAGATCTACAATGAAGATGT  
 CCGGGACCTCCTTGGGGCTGACACCAAGCAGAAGCTGGAGCTGAAGGAGCACCCAGAGAAGGGCGTGTAC  
 GTGAAGGGGCTGTCCATGCACACGGTGCACAGCGTGGCCAGTGTGAGCACATCATGGAGACTGGTGGGA  
 AGAACCGTTCGGTCGGCTACACGCTGATGAACAAGGATTCTCACGCTCGCACTCCATCTTCACCATCAG  
 CATCGAGATGTCTGCCGTGGATGAGCGGGCAAGGACCACCTCCGGGCGGGCAAGCTGAACCTGGTGGAC  
 CTGGCGGGCAGCGAGCGGAGTCCAAGACCGGGGCCACGGGCGAGCGGCTCAAGGAGGCCACCAAGATCA  
 ACCTGTGCTCTCGGCACTGGGCAATGTCATCTCGGCGTGGTGGACGGGCGCTGTAAGCACGTCCCCTA  
 CCGTGACTCGAAGCTGACGCGGCTGCTGCAGGACTCACTGGGCGCAACCAAGACGCTCATGGTGGCC  
 TGCTGTGCGCTCGGGACAACAACCTACGATGAGACACTCAGCACGCTGCGCTACGCCAACCGGGCCAAGA  
 ACATCAGGAACAAGCCGGCATCAATGAGGACCCCAAGGATGCGCTGCTTCGCGAGTACCAGGAGGAGAT  
 CAAGAAGCTCAAGGCCATCCTGACACAGCAGATGAGCCCCAGCAGCCTGTGAGCCCTGCTGTCCAGGCAG  
 GTGCCCCAGACCCTGTGCAGGTGGAGGAGAAGCTGTTGCCCCAACTGTGATCCAGCATGACGTGGAGG  
 CCGAGAAGCAGCTGATCCGGGAGGAGTATGAAGAGCGCTGGCCCGGCTGAAAGCCGACTATAAGGCCGA  
 GCAGGAGTCTCGGGCAGGCTGGAGGAAGACATCACTGCCATGCGCAACTCATATGACGTGAGGCTGTCC  
 ACGCTGGAGGAGAACCTGCGGAAGGAGACAGAGGCTGTCTGCAGGTGGGAGTCTCTACAAGGCTGAGG  
 TCATGTCCAGGGCTGAGTTTGGCAGCAGCGCTGAGTACCCGCTGCTTTTCAGTATGAGCAGTGGTGAA  
 ACCCAAGGTCTTCTCCAGACTGACACTCTGCCAGTACGATGTCTCCAAGACTCAGGTTTCTCCAGG  
 TTTGCGGAGTGCCTAAGGTGGAACCTCCAAATCTGAGATTTCTCTGGGCTCCAGTGAATCATCTCGC  
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 GGGGAACAGAACTACCTCCCGAAGAGGAGCCGAGGAGTGGCCCTGCAGGGTTACTAGGCTGCAGG  
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 CCCGAAGCCGAGGCGGCTGATGACTTCCCGCCAGGCCTGAGGTAGATCTGGCCTCGGAAGTGGCCTTAG  
 AGGTGGTGGGACAGCAGAGCCTGGCGTGTGGTTGGAGGCTCAGGCCCGGTGGCCCTGGTGGCTCAGCC  
 TGAGCCCTGCGCGCCACAGCTGGTGTGAAGAGGGAGAGCGTGGGCATGGAGGTGGCAGTGTGACTGAT  
 GACCCGCTGCCCGTTGTGGACCAGCAGCAGGTGTGGCCGCTCTGCAGCTGTTGGAGCAGCAGGTTGTGG  
 GTGGAGAGCAGGCCAAGAACAAGGACCTGAAGGAGAAGCACAAGCGGCGCAAGCGCTACGCAGACAGCG  
 CAGGAAGCAGCTGGTGGCTGCCGTCAGAACTCGGATGAGGACAGCGGGGACTGGGTGCTGCTTAACGTC  
 TACGACTCCATCCAGGAGGAAGTGGGGCCAAGAGCAAGCTGTGGAGAAGATGCAGAGGAAGCTTCGGG  
 CAGCAGAGGTGGAGATCAAAGATCTGCAGTCCGAGTTTCAGCTGGAGAAGATCGATTACTTGGCCACCAT  
 CCGCCGGCAGGAGCGTGACTCCATGCTCTTGCAGCAGCTCCTGGAGCAGGTGCAGCCCCTGATTTCGAGG  
 GACTGTAACACAGCAACCTGGAGAAGATTCTGCGTGTGCTGCTGGGACGAAGATAACCGCTTCTGGA  
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 AGCCCGCAAAAACCTCTGCAGCAGACAATGGCGAGCCGAACATGGAGGACGACCGCTACAGGCTCATGCTC  
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 CAGACGCCAGGAAGGCCTCACACATCACAACTCGCCACCAGGCCTCAGTGCCCACTCAGCAACAACCTC  
 TGCCATCCCACCCAGGCCCTGAAATGCCAGCCCGGCCCTCCGCTCGAGTCCCTCGACATC  
 CCTTTCACCAAGGCCAAGCGTAAGAAAAGCAAAAGCAACTTTGGCAGTGAGCCTCTG

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC239792 representing NM\_001287212  
 Red=Cloning site Green=Tags(s)

MQGLPDPSPQRGIIPRAFEHVFESVQCAENTKFLVRASYLEIYNEDVRDLLGADTKQKLELKEHPEKGVY  
 VKGLSMHTVHVAQCEHIMETGWKNRSVGYTLMNKDSSRSHSIFTISIEMSAVDERGKDHLRAGKLNLDV  
 LAGSERQSKTGATGERLKEATKINLSLALGNVISALVDGRCKHVPYRDSKLTRLLQDSLGGNTKTLMVA  
 CLSPADNNYDETLSTLRYANRAKNIRNKPRINEDPKDALLREYQEEIKKLKAILTQQMSPSSLALLSRQ  
 VPPDPVQVEEKLLPQPVIQHDVEAEKQLIREEYEERLARLKADYKAEQESRARLEEDITAMRNSYDVRLS  
 TLEENLRKETEAVLQVGVLYKAEVMSRAEFASSAEYPPAFQYETVVKPKVFSTDTLPSDDVSKTVQVSSR  
 FAELPKVEPSKSEISLGSSESSSLEETSYSVEAFPGPEEPSNVEVSMPTTEESRSRYFLDECLGQEAAGHLL  
 GEQNYLPQEEPQEVPLQGLLGLQDPFAEVEAKLARLSSTVARTDAPQADVPKVPVQVPAPTDLLEPSDAR  
 PEAEAADDFFPRPEVDLASEVALEVVRTAEPGVWLEAQAPVALVAQPEPLPATAGVKRESVGMVAVLTD  
 DPLPVVDQQVRLARQLLEQQVVGGEQAKNKDLKEKHRRKRYADERRKQLVAALQNSDEDSGDWVLLNV  
 YDSIQEEVRAKSKLLEKMQRKLRAAEVEIKDLQSEFQLEKIDYLATIRRQERDSMLLQQLLEQVQPLIRR  
 DCNYSNLEKILRESCWDEDNGFWKIPHPVITKTSPLVAVSTGPQNKPARKTSAADNGEPNMEMDDRYRLML  
 SRNSENIASNYFRSKRASQILSTDARKSLTHNSPPGLSCPLSNNSAIPPTQAPEMPQPRPFRLSLDI  
 PFTKAKRKKSKSNFGSEPL

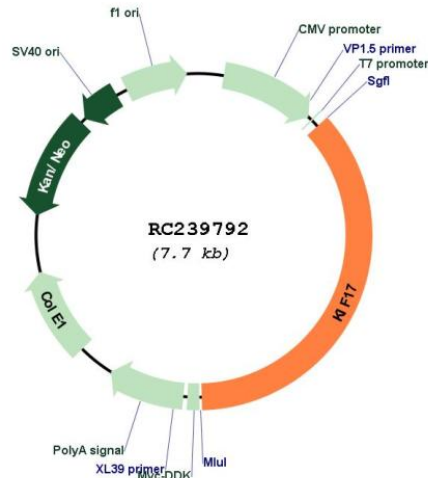
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001287212

**ORF Size:** 2787 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\\_001287212.2](#)

**RefSeq Size:** 4130 bp

**RefSeq ORF:** 2790 bp

**Locus ID:** 57576

**UniProt ID:** [Q9P2E2](#)

**Cytogenetics:** 1p36.12

**Protein Families:** Druggable Genome

**MW:** 104.5 kDa

**Gene Summary:** Transports vesicles containing N-methyl-D-aspartate (NMDA) receptor 2B along microtubules.  
[UniProtKB/Swiss-Prot Function]