

Product datasheet for **RG209079**

KIF17 (NM_020816) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | KIF17 (NM_020816) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | KIF17 |
| Synonyms: | KIF3X; KIF17B; KLP-2; OSM-3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG209079 representing NM_020816 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTCCGAGGCGGTGAAGGTTGTCGTGCGCTGCCGTCCCATGAACCAGCGGGAGCGAGAGCTGCGCT
GCCAGCCCGTGGTACTGTGGACTGCGCGCGGCCAGTGTGCATCCAGAACCCGGGCGCCGCCGACGA
GCCGCCAAGCAGTTCACCTTCGACGGCGCTACCACGTGGACCAGTCACCGAGCAGATCTACAACGAG
ATCGCCTATCCGCTGGTGGAGGGCGTCACTGAGGGCTACAATGGCACCATCTTTGCCTACGGCCAGACAG
GCAGCGGAAGTCTTACCATGCAGGGCTGCCGGATCCGCCCTCCAGAGAGGCATCATCCCCAGGGC
CTTCGAGCACGTGTCGAGAGCGTCCAGTGTGCAGAGAACAATAAGTTCCCTGGTCCGGGCCCTCTACCTG
GAGATCTACAATGAAGATGTCCGGGACCTCTTGGGGCTGACACCAAGCAGAAGCTGGAGCTGAAGGAGC
ACCCAGAGAAGGGCGTGTACGTGAAGGGGCTGTCCATGCACACGGTGCACAGCGTGGCCAGTGTGAGCA
CATCATGGAGACTGGCTGGAAGAACCGTTCCGTCGGTACACGCTGATGAACAAGGATTCCTCACGCTCG
CACTCCATCTTACCATCAGCATCGAGATGTCTGCCGTGGATGAGCGGGCAAGGACCACCTCCGGGCGG
GCAAGCTGAACCTGGTGGACCTGGCGGGCAGCGAGCGGCAAGTCCAAGACCGGGCCACGGGCGAGCGGT
CAAGGAGGCCACCAAGATCAACCTGTGCTCTCGGCACTGGGCAATGTCATCTCGGCGCTGGTGGACGGG
CGCTGTAAAGCAGTCCCCTACCGTACTCGAAGCTGACGCGGCTGCTGCAGGACTACTGGGCGGCAACA
CCAAGACGCTCATGGTGGCTGCTGCTGCGCTGCGGACAACAACACTACGATGAGACACTCAGCACGCTGCG
CTACGCCAACCGGCCAAGAATCAGGAACAAGCCGCGCATCAATGAGGACCCCAAGGATGCGCTGCTT
CGCGAGTACCAGGAGGAGATCAAGAAGCTCAAGGCCATCCTGACACAGCAGATGAGCCCCAGCAGCTGT
CAGCCCTGCTGTCCAGGCAGGTGCCCCAGACCCTGTGCAGGTGGAGGAGAAGCTGTTGCCCAACCTGT
GATCCAGCATGACATGGAGGCCGAGAAGCAGCTGATCCGGGAGGAGTATGAAGAGCGCTGGCCCGGCTG
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CATATGACGTGAGCTGTCCAGCTGGAGGAGAACCCTGCGGAAGGAGACAGAGGCTGTCTGCAGGTGGG
AGTCTCTACAAGCTGAGGTATGTCCAGGGCTGAGTTGCCAGCAGCGCTGAGTACCCGCTGCTTTT



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CAGTATGAGACAGTGGTGAACCCAAGGTCTTCTCCACGACTGACACTCTGCCAGTGACGATGTCTCCA
 AGACTCAGGTTTCTCCAGGTTTTCGGAGCTGCCAAGGTGGAACCTCCAAATCTGAGATTTCTCTGGG
 CTCCAGTGAGTCATCCTCGCTCGAAGAACTCTGTGTCCGAGGCTTTCCTGGGCTGAGGAGCCCTCC
 AACGTGGAGGTCTCCATGCCACTGAGGAGTCCAGGAGCAGATACTTCTGGATGAGTGCCTCGGGCAGG
 AGGCCGCTGGGCACCTGCTGGGGAAACAGAACTACCTCCCGAAGAGGAGCCGAGGAGGTGCCCTGCA
 GGGTTACTAGGCTGCAGGACCCGTTTCCGAGGTGGAAGCCAAGCTGGCCAGACTCTCTCCACCGTG
 GCCAGGACAGATGCACCCAGGACAGCTCCCCAAGTCCCTGTGCAGGTCCCTGCGCCGACAGACCTGC
 TGGAGCCAGTGATGCCAGGCCGGAAGCCGAGGCGGTGATGACTTCCCGCCAGGCTGAGGTAGATCT
 GGCTCGGAAGTGGCCTTAGAGGTGGTGCAGACAGCAGAGCTGGCGTGTGGTTGGAGGCTCAGGCCCG
 GTGGCCCTGGTGGCTCAGCCTGAGCCCCTGCCGCCACAGCTGGTGTGAAGAGGGAGAGCGTGGGCATGG
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 GTTGGAGCAGCAGGTTGTGGTGGAGAGCAGGCCAAGAACAAGGACTGAAGGAGAAGCACAAGCGGCGC
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 ACTGGGTGCTGCTAACGTCTACGACTCCATCCAGGAGGAAGTGGGGCCAAGAGCAAGCTGCTGGAGAA
 GATGCAGAGGAAGCTTCGGGCAGCAGAGGTGGAGATCAAAGATCTGCAGTCCGAGTTTCAGCTGGAGAAG
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 CGAAGATAACGGCTTCTGGAAGATCCCACATCCCGTCATCACAAAACCAGCCTCCAGTAGTTTAACT
 GGGCCACAGAACAACCAGCCGCAAACTCTGCAGCAGACAATGGCGAGCCGAACATGGAGGAGGACC
 GCTACAGGCTCATGCTCAGTCGGAGCAACAGTGAAGCAATTGCCAGCAACTACTCCGATCTAAGCGGGC
 CAGCCAGATCCTCAGCACAGACGCCAGGAAGAGCCTCACACATCACAACTCGCCACCAGGCTCAGCTGC
 CCACTCAGCAACAACCTGCCATCCCACCCAGGCCCCTGAAATGCCCCAGCCCCGGCCCTTCCGCC
 TCGAGTCCCTCGACATCCCTTTCACCAAGGCCAAGCGTAAGAAAAGCAAAAGCAACTTTGGCAGTGAGCC
 TCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209079 representing NM_020816
 Red=Cloning site Green=Tags(s)

MASEAVKVVVRCRPMNQRELERLRCQPVVTVDCARAQCCIQNPAADEPPKQFTFDGAYHVDHVTEQIYNE
 IAYPLVEGVTEGNGTIFAYGQTGSGKFTMQGLPDPPSQRGIIPRAFEHVFESVQCAENTKFLVRASYL
 EIYNEDVRDLLGADTKQKLELKEHPEKGVYVYKGLSMHTVHSVAQCEHIMETGWKNRSVGYTLMNKDSSRS
 HSIFTISIEMSAVDERGKDHLRAGKLNLDLAGSERQSKTGATGERLKEATKINLSLALGNVISALVDG
 RCKHVPYRDSKLRLLQDSLGGNTKLMVACLSPADNNYDETLSTLRYANRAKNI RNKPRINEDPKDALL
 REYQEEIKKLLKAILTQQMSPSSL SALLSRQVPPDPVQVEEKLLPQPVIQHDMEAQKLIREEYEERLARL
 KADYKAEQESRARLEEDITAMRNSYDVRLSTLEENLRKETEAVLQVGVLYKAEVMSRAEFASSAEYPPAF
 QYETVVKPKVFSTDTLPSDDVSKTQVSSRF AELPKVEPSKSEISLGSSESSLEETS VSEAFPGPEEPS
 NVEVSMPT EESRSRYFLDECLGQEAAGHLLGEQNYLPQEEPQEVPLQGLLGLQDPFAEVEAKLARLSSTV
 ARTDAPQADVPKVPVQVPAPTDLLEPSDARPEAEAADDFPPRPEVDLASEVALEVVRTAEPGVWLEAQAP
 VALVAQPEPLPATAGVKRESVGMVAVLTDPLPVVDQQVQLARLQLLEQQVVGGEQAKNKDLKEKHRR
 KRYADERRKQLVAALQNSDESDGDWVLLNVYDSIQEEVRAKSKLLEKMQRKLRAAEVEIKDLQSEFQLEK
 IDYLATIRRQERDSMLLQQLLEQVQPLIRRD CNYSNLEKILRESCWDEDNGFWKIPHPVITKTS LPVST
 GPQNK PARKTSAADNGEPNMEEDRYRLMLSRNSENIASNYFRSKRASQILSTDARKSLTHHNSPPGLSC
 PLSNNSAIPPTQAPEMPQPRPFRL ESLDIPFTKAKRKKSKSNFGSEPL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_020816

ORF Size: 3084 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.

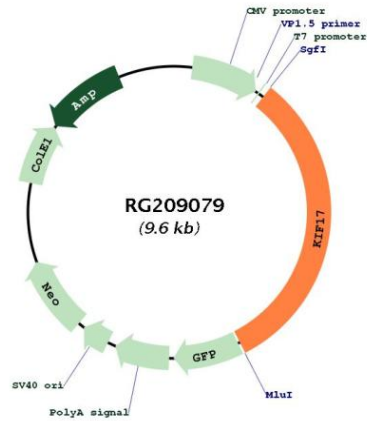
RefSeq: [NM_020816.1](#), [NP_065867.1](#)

RefSeq Size: 3968 bp

RefSeq ORF: 3090 bp

Locus ID: 57576
UniProt ID: [Q9P2E2](#)
Cytogenetics: 1p36.12
Protein Families: Druggable Genome
Gene Summary: Transports vesicles containing N-methyl-D-aspartate (NMDA) receptor 2B along microtubules. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209079