

Product datasheet for **RG226301**

KIF17 (NM_001122819) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF17 (NM_001122819) 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:	>RG226301 representing NM_001122819 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGCCTCCGAGGCGGTGAAGGTTGTCGTGCGCTGCCGTCCCATGAACCAGCGGGAGCGAGAGCTGCGCTGCCAGCCCGTGGTACTGTGGACTGCGCGCGGCCAGTGTGTCATCCAGAACCCGGGCGCCGACGAGCCGCCAAGCAGTTACCTTCGACGGCGCTACCACGTGGACCACGTACCGAGCAGATCTACAACGAGATCGCCTATCCGCTGGTGGAGGGCGTCACTGAGGGCTACAATGGCACCATCTTTGCCTACGGCCAGACAGCAGCGGAAGTCTTACCATGCAGGGCTGCCGGATCCGCCCTCCAGAGAGGCATCATCCCCAGGGCCTTCGAGCAGTGTTCGAGAGCGTCCAGTGTGCAGAGAACTAAGTTCCTGGTCCGGGCCCTCTACCTGGATCTACAATGAAGATGTCCGGGACCTCTTGGGGCTGACACCAAGCAGAAGCTGGAGCTGAAGGAGCACCCAGAGAAGGGCGTGTACGTGAAGGGGCTGTCCATGCACACGGTGCACAGCGTGGCCAGTGTGAGCATCATGGAGACTGGCTGGAAGAACCGTTCCGTCGGTACACGCTGATGAACAAGGATTCCTCACGCTCGACTCCATCTTACCATCAGCATCGAGATGTCTGCCGTGGATGAGCGGGCAAGGACCACCTCCGGGCGGCAAGCTGAACCTGGTGGACCTGGCGGGCAGCGAGCGGAGTCCAAGACCGGGCCACGGGCGAGCGGCTCAAGGAGGCCACCAAGATCAACCTGTGCTCTCGGCACTGGGCAATGTCACTCGGCGCTGGTGGACGGCGCTGTAAAGCAGTCCCCTACCGTACTCGAAGCTGACGCGGCTGCTGCAGGACTACTGGGCGGCAACAAGACGCTCATGGTGGCTGCTGCTGCGCTGCGGACAACAACACTACGATGAGACACTCAGCACGCTGCGCTACGCCAACCGGCCAAGAATCAGGAACAAGCCGCGCATCAATGAGGACCCCAAGGATGCGCTGCTCGCGAGTACCAGGAGGAGATCAAGAAGCTCAAGGCCATCCTGACACAGCAGATGAGCCCCAGCAGCTGTGAGCCCTGTCCAGGCAGGTGCCCCAGACCCTGTGCAGGTGGAGGAGAAGCTGTTGCCCAACCTGTGATCCAGCATGACGTGGAGGCCGAGAAGCAGCTGATCCGGGAGGAGTATGAAGAGCGCTGGCCCGGCTGAAAGCCGACTATAAGGCCGAGCAGGAGTCTCGGGCCAGGCTGGAGGAAGACATCACTGCCATGCGCAACTCATATGACGTGAGGCTGCCAGCTGGAGGAGAACCCTGCGGAAGGAGACAGAGGCTGTCTGCAGGTGGAGTCCCTACAAGGCTGAGGTATGTCCAGGGCTGAGTTGCCAGCAGCGCTGAGTACCCGCTGCTTTT



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CAGTATGAGACAGTGGTAAAACCAAGGTCTTCTCCACGACTGACACTCTGCCAGTGACGATGTCTCCA
 AGACTCAGGTTTCTCCAGGTTTTCGGAGCTGCCAAGGTGGAACCTCCAAATCTGAGATTTCTCTGGG
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 GGCTCGGAAGTGGCCTTAGAGGTGGTGCAGACAGCAGAGCTGGCGTGTGGTTGGAGGCTCAGGCCCG
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 GGGCCACAGAAACAAACCAGCCGCAAACTCTGCAGCAGACAATGGCGAGCCGAACATGGAGGACGACC
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 CAGCCAGATCCTCAGCACAGACGCCAGGAAGAGCCTCACACATCACAACTCGCCACCAGGCTCAGCTGC
 CCACTCAGCAAACTCTGCCATCCCACCCAGGCCCCTGAAATGCCCCAGCCCCGGCCCTCCGCC
 TCGAGTCCCTCGACATCCCTTTCACCAAGGCCAAGCGTAAGAAAAGCAAAAGCAACTTTGGCAGTGAGCC
 TCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG226301 representing NM_001122819
 Red=Cloning site Green=Tags(s)

MASEAVKVVVRCRPMNQRELERLRCQPVVTVDCARAQCCIQNPAADEPPKQFTFDGAYHVDHVTEQIYNE
 IAYPLVEGVTEGYNIGTIFAYGQTGSGKSFMTQGLPDPPSQRGIIPRAFEHVFESVQCAENTKFLVRASYL
 EIYNEDVRDLLGADTKQKLELKEHPEKGVYVYKGLSMHTVHSVAQCEHIMETGWKNRSVGYTLMNKDSSRS
 HSIFTISIEMSAVDERGKDHLRAGKLNLDLAGSERQSKTGATGERLKEATKINLSLALGNVISALVDG
 RCKHVPYRDSKLTRLQDSLGGNTKLMVACLSPADNNYDETLSTLRYANRAKNI RNKPRINEDPKDALL
 REYQEEIKKLLKAILTQQMSPSSL SALLSRQVPPDPVQVEEKLLPQPVIQHDVQAEKQLIREEYEERLARL
 KADYKAEQESRARLEEDITAMRNSYDVRLSTLEENLRKETEAVLQVGVLYKAEVMSRAEFASSAEYPPAF
 QYETVVKPKVFSTDTLPSDDVSKTQVSSRF AELPKVEPSKSEISLGSSESSLEETS VSEAFPGPEEPS
 NVEVSMPTEESSRYFLDECLGQEAAGHLLGEQNYLPQEEPQEVPLQGLLGLQDPFAEVEAKLARLSSTV
 ARTDAPQADVPKVPVQPAPTDLLEPSDARPEAEAADFPFRPEVDLASEVALEVVRTAEPGVWLEAQAP
 VALVAQPEPLPATAGVKRESVGMVAVLTDPLPVVDQQVLAARLQLEQQVVGGEQAKNKDLKEKHRR
 KRYADERRKQLVAALQNSDESDGDWVLLNVYDSIQEEVRAKSKLLEKMQRKLRAAEVEIKDLQSEFQLEK
 IDYLATIRRQERDSMLLQQLLEQVQPLIRRDCNYSNLEKILRESCWDEDNGFWKIPHPVITKTSLPVST
 GPQNKPARKTSAADNGEPNMEDDRYRLMLSRNSENIASNYFRSKRASQILSTDARKSLTHHNSPPGLSC
 PLSNNSAIPPTQAPEMPQPRPFRLSLDIPFTKAKRKKSKSNFGSEPL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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:	<u>NM_001122819.3</u>
RefSeq Size:	3807 bp
RefSeq ORF:	3087 bp
Locus ID:	57576
UniProt ID:	<u>Q9P2E2</u>
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]