

## Product datasheet for **MG222401**

### Kif17 (NM\_010623) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kif17 (NM_010623) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kif17
Synonyms:	5930435E01Rik; AW492270; Kif17b; mKIAA1405
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222401 representing NM_010623 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTCGGAGTCAGTGAAAGTGGTCGTGCGCTGCCGACCCATGAACAAGCGCGAGCGCGAGCTGAGCT  
GCCAGTCGGTGGTACGGTGGACAGTGCAGCGCGGCAATGCTTCATTAGAACCCGGGAGCGCGGACGA  
ACCCCAAAGCAGTTCACCTTCGATGGCGCTACTACATAGAACAACCTCCAGCAGATCTACAACGAG  
ATCGCCTACCCGCTGGTGGAGGGTGTACCGAAGGCTACAATGGGACATTTTTCCTATGGCCAGACAG  
GCAGTGGGAAGTCTTCCACCATGCAGGGACTGCCAGATCCCCCTGCCAGAGGGGCATCATTCCAGAGC  
CTTCGAGCACGTGTTGAGAGCGTTCAGTGTGCAGAGAACAACCAAGTTCCTAGTGCGGGCTCCTATCTG  
GAGATCTACAACGAAGATGTCCATGACCTGCTGGGCGCTGACACCAAGCAGAGGCTTGAGCTGAAGGAGC  
ATCCCAGAAAGGGAGTGTATGTCAAGGGGCTGTCCATGCACACGGTACACAACGTGGCCAGTGCAGCG  
CGTCATGGAGACCGGCTGGAAGAACCCTGCGGTTGGCTACACCCTGATGAATAAGGACTCCTCCGTTCC  
CACTCCATCTTTACCATCAACATCGAGATCTATGCCGTGGATGAACGGGGTAAGGACCATCTTCGTGCA  
GCAAGCTCAACCTGGTAGACCTGGCCGGCAGTGCAGCGCAATCCAAGACTGGGGCCACAGGGAAAGGCT  
GAAGGAGGCCACCAAAATTAACCTGTACTGTCCGGCTGGGCAACGTCATCTCGGCACTGGTGGATGGG  
CGCTGCAAGCATTCTTACCGGACTCGAAGCTGACCCGACTGCTTCAGGACTCACTGGTGGCAACA  
CCAAGACTCTGATGGTGGCTTGCCTGTCTCCCGCAGACAACAATTACGATGAGACCCTCAGTACGCTGCG  
CTATGCTAACAGGGCCAAGAATCAAGAACAAGCCACGCATTAATGAAGACCCCAAGGATGCCCTGCTT  
CGAGAGTACCAGGAAGAGATCAAGAGGCTAAAGGCTATCCTCGCCAGCAGATGGGCCCTGGCAACCTGT  
CAGCCCTGCTGTCCACTCAGACACCCCCAGGCCAGTCCAGTCTGAGGAGAAGCTGCTGTCCCACTAC  
TGTCCAGCAGGACACGGAGGCTGAGAAGCAGTTGATCCGAGAGGAGTATGAGGAGCGCTGGCCCGCTG  
AAGGCTGACTACGAGGCAGAGCAAGAGTCTCGGGTCCGGTGCAGGAGGACATTACTGCCATGCGTAACT  
CGTATGACGTGAAGCTGTCCACTGCAGGAGAATCTGCGCAAGGAGAAGGAGACAGAGGCCATTCTCAA  
GGCGGAAGTCTGTGTAAGACGGAGTGTCCAGGGCCGAGTTAGCCAGCGGGCCGAGTACTCACCT



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CCTTTG CAGTATGAGACTGCGGTGAAGCCACCATCCTCTCCATGCCCGACATGCCACCCAGTGGCAAGG  
 TCACCAAGAGCCAAGCGCCCTCGCTTTTCGAGGAACCACACGGGGAGACCTCCAGGTCCGAGTTCCTT  
 TGAGTCCAATGAGTGTCCACTCTCGAAGACTCTGCCACATCAGAGGCCCTCCCTGGGCCAGAGGAGTTT  
 TCCAACATGGAGTTCTCCATGGCTGCGGCACTGACCGAGAGCAGGTACCTTCTGAGGAGTATCTCGGCG  
 GCCAGGAGGCTGCTGCATCTCCGCTGGAGGCAGAGCGCTATGTCCAGGAGAACGAGCCATCGCTGGAGCC  
 CCTGCGGATACTGGCAAGCCTGCAGGATCCTTTTGTGAAGTGGAGGCCAAGCTGGCCAGACTGTCTCT  
 ACTGTGGCCATGTCGGACTCATCCAGACCGTCTCCCCAGATCCCTAAGCAGCCATCCTCGGCTGACC  
 TGCTGGAGCCCAGCGACACCAAGTCAGAAGCTGATGTGGCTGTGGCTGACAACTGCTCCTCGGGACTGA  
 GCCTGATGTAACCTGAGAGTGGCTGAGGAGGTGGTTTCTGAGGCAGAGACTGGCGTGTGGATGGAGTCT  
 GAAGCCCAGTGGCCATGTGGCCAGGTGTCTGAGGAGGCCAGCCTCAGCCCTTGTGGCCATGGTGA  
 GCGTGAGGAGGAAAAGTGTGGGTGTAGAAGTGGCTGTGTTGACGGAGGAGGAGCTGCAGCCTGTGGATCA  
 ACAGCAGGTGCTGGCCGCTTGCAGTTGCTGGAGCAGCAGGTGGTGGGGGCGAGCAGGCTAAAAACAAG  
 GACCTGAGGGAGAAGCACAAGCGCGGAAGCGGTACGCAGATGAGCGCAAGAAGCAGCTGGTGGCCGCAC  
 TGCAGAACTCGGATGAGGATGGCGGGGACTGGGTGCTGCTCAACGTCTATGACTCTATCCAGGAGGAAGT  
 GAGGGCCAAGAGCAAGCTGCTGGAGAAGATGCAGAGGAAGCTCCGGGCAGCAGAGGTAGAAATCAAGGAC  
 CTGCAGTCAGAGTTCAGCTGGAGAAGATTGATTACCTGGCAACCATCCGCCGGCAGGAGCGGGACTCCA  
 TGCTCTTCCAGCAACTCCTGGAGCAGGTGCAGCCTCTCATCCGCAGAGACTGTAACATATAGCAACCTGGA  
 GAAGATCAGGCGAGAGTCGAGCTGGGATGAGGATAATGGCTTCTGGAAGATCCCAGATCCCATCATACTG  
 AAAACCAGCCTCCAGTAGTTCCAACCTGGGACACAGAACAAGCCAGCTCGAAAAACCTCTGCAGTAGACA  
 GTGGGGAGCCACACATGCAGGAGGAAGCAGGTATAAGCTGATGCTCAGCCGAAGCGACAGTGAGAATAT  
 CGCTAGCAACTACTTCCGCTCCAAGCGGGCCAGCCAGATCCTCAGCACGGACCCCATGAAGAGCCTCACA  
 TATCACAACCTACCACCGGGGCTAAATTCCTCTCTGAGCAACAACCTCTGCCTTCCCGCCACCCAGACCC  
 CGGAAATGCCCCAGCCCCGGCCCTTCCGCCTAGAGTCCCTTGACATCCCCTTCTCAAAGCCAAGCGTAA  
 AAAAAGCAAAAACAGCTTCGGTGGTGGCCTCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG222401 representing NM\_010623  
 Red=Cloning site Green=Tags(s)

MASESVKVVVRCRPMNKRERELSCQSVVTVDSARGQCFIQNPGAADPEPPKQFTFDGAYYIEHFTEQIYNE  
 IAYPLVEGVTEGNGTIFAYGQTGSGKSFMTQGLPDPPCQRGIIPRAFEHVFESVQCAENTKFLVRASYL  
 EIYNEDVHDLGADTKQRLELKEHPEKGVYVYKGLSMHTVHNVAQCERVMETGWKNRAVGYTLMNKDSSRS  
 HSIFTINIEIYAVDERGKDHLRAGKLNLDLAGSERQSKTGATGERLKEATKINLSALGNVISALVDG  
 RCKHIPYRDSKLRLLQDSLGGNTKTLMVACLSPADNNYDETLSTLRYANRAKNIKPKPRINEDPKDALL  
 REYQEEIKRLKAILAQQMGPNGLSALLSTQTPPGPVQSEEKLLSPTTVQQDTEAEKQLIREEYEERLARL  
 KADYEAQESRVRLEQEDITAMRNSYDVKLSTLQENLRKEKETEAILKAEVLCKTEVMSRAELASGPEYSP  
 PLQYETAVKPTILSMPDMPPSGKVTKSQAPLAFEEPHGETSRSEFSFESNECSTLEDSATSEAFPGPEEF  
 SNMEFSMAAALTESRYLPEEYLGQEEAAASPLEAERYVQENEPSLEPLRILASLQDPFAEVEAKLARLSS  
 TVAMSDDSQTVPVQIPKQPSSADLLEPSDTKSEADVAVADNVVLGTEPDVNLRVAAEEVSEAEETGVWMS  
 EAQVAHVAQVSEEAQPPELLAMVSVRRESVGVAVLTEEELQPVDQQVQLARLQLLEQQVVGGEQAKNK  
 DLREKHRRKRYADERKKQLVAALQNSDEDGGDWVLLNVYDSIQEEVRAKSKLLEKMQRLRAAEVEIKD  
 LQSEFQLEKIDYLATIRRQERDSMLFQQLLEQVQPLIRRDCNYSNLEKIRRESSWDEDNGFWKIPDPIL  
 KTSLPVVPTGTQNKPARKTSAVDSGEPHQEEDRYKMLSRSDSENIASNYFRSKRASQILSTDPMKSLT  
 YHNSPPGLNSSLNNSALPPTQTPEMPQPRFRLES LDIPFSKAKRKKSKNSFGGEPL

TRTRPLE – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_010623.4</a></u> , <u><a href="#">NP_034753.1</a></u>
<b>RefSeq Size:</b>	3915 bp
<b>RefSeq ORF:</b>	3117 bp
<b>Locus ID:</b>	16559
<b>UniProt ID:</b>	<u><a href="#">Q99PW8</a></u>
<b>Cytogenetics:</b>	4 D3
<b>Gene Summary:</b>	Transports vesicles containing N-methyl-D-aspartate (NMDA) receptor 2B along microtubules. [UniProtKB/Swiss-Prot Function]