

Product datasheet for **MG210157**

Kif2a (BC006803) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Kif2a (BC006803) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Kif2a |
| Synonyms: | C530030B14Rik; Kif2; Kns2; M-kinesin |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG210157 representing BC006803
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAACGGCCAACCTTCGGCAAGATCCAGATCGGGATTTACGTGGAGATCAAGCGCAGCGATGGCCGAA
 TACACCAAGCAATGGTAACATCTTTAAATGAAGATAATGAAAGTGAACCTGTTGAGTGGATAGAAAATGG
 AGATACGAAAGGCAAAGAGATTGACTTGGAGAGCATCTTTTCACTTAACCCTGACCTTGTACCTGATGAA
 GATATTGAGCCCAGTCCAGAACTACCTCCACCCTCGTCATCCTCAAAAGTTAACAAAATTGTAAAGAACC
 GGCGGACTGTGGCAGCTGTTAAGAATGACCCTCCCCGAGAGATAATAGAGTGGTTGGTTCAGCACGCGC
 ACGGCCTAGTCAGCTTCTGAGCAATCGTCTTCTGCACAACAGAATGGTAGCGTTTCAGATATATCTCCA
 GTTCAAGCTGCAAAAAGGAGTTTGGCCCTCCTCACGTAGAAAATCCAATTGTGTGAAAGAAGTAGAAA
 AATTGCAAGAAAACGAGAAAAAGGAGATTGCAACAGCAAGAAGCTTAGAGAAAAAGAGCCAGGATGT
 TGATGCTACAAAATCCAATACGAAATTATGTGTATGATCAGAGACTTCAGAGGGAGCTTGGATTACAGA
 CCCCTAACACAGCAGATCCTATTGATGAACATAGGATATGTGTTTGTGTAAGAAAACGACCACTCAATA
 AAAAAGAACTCAATGAAAGATCTTGATGTGATCACAATCCCTAGTAAAGATGTTGTGATGGTCCACGA
 ACCCAAACAGAAAGTAGACTTAACAAGGTAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGT
 GACTCAGCTCCTAATGAAATGGTTTACAGGTTTACTGCTAGGCCACTAGTGGAAACAATATTTGAAAGGG
 GCATGGCTACGTGCTTTGCTTATGGGCAGACTGGAAGTGGGAAAACCTCATACTATGGGTGGTACTTTTC
 AGGAAAGAACCAGGATGTTCTAAGGGAATTTATGCATTAGCAGCTCGCGATGCTTTTTAATGCTGAAG
 AAGCCAACTATAAGAACTAGAAGTCAAGTATATGCAACATTTTTTGAATTTATAGTGGAAAGGTGT
 TTGACTTACTAAATAGGAAAACAAAATTAAGAGTACTAGAAGATGGGAAGCAGCAGGTTCCAAGTGGTGGG
 GCTGCAGGAGCGGGAGGTGAAGTGTGGAGGACGTGCTGAAGCTCATCGACATAGGCAACAGCTGCAGA
 ACATCTGGCCAAACATCTGCAAATGCACATTCATCTCGGAGCCATGCAGTGTCCAGATCATTCTAAGAA
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 ATTCCTTCATAGGTGAAAATTCCTGACCTGCATGATTGCCACAATCTCTCCAGGAATGGCATCCTGTGA
 AAATACTCTTAATACGTTAAGATATGCAAATAGGGTAAAGAATTGACTGTAATCCAGCTGCTGCTGGC
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 GTTCTCCTCAGAGAGATGATCTAAAACCTCTCTGTGAACAAAATGAAGAAGAAGTTTCTCCACAGCTGTT
 CACTTTCATGAAGCTGTCTCCAGATGGTAGAGATGGAAGAGCAGGTTGTGGAAGATCATAGGGCAGTG
 TTCCAGGAATCCATTCGCTGGATAGAAGATGAAAAGGCTCTCCTAGAGATGACTGAAGAAGTAGACTATG
 ATGTAGACTCATATGCTACACAACCTGAAGCTATTCTTGAGCAAAAAATAGACATTTTAACTGAGTTACG
 AGATAAAGTGAATCTTTTCGCGCAGCGCTACAAGAAGAAGAGCAAGCAAGCAAGCAAAATTAACCCCAAG
 AGCCCCGAGCCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210157 representing BC006803
 Red=Cloning site Green=Tags(s)

MATANFGKIQIGIYVEIKRSDGRIHQAMVTSLNEDNESVTVEWIENGDTKGKEIDLESIFSLNPDLPDE
 DIEPSPELPPSSSSKVNKIVKNRRTVAAVKNDPPPRDNRVVG SARARPSQLPEQSSAQNGSVSDISP
 VQAAKKEFGPPSRRKSNCVKEVEKLQEKREKRLQOQELREKRAQDV DATNPNYEIMCMIRDFRGLDYSR
 PLTTADPIDEHRICVVCVRKPLNKKETQMKDLVDITIPSKDVVMVHEPKQKVDLTRYLENQTFRFDYAFD
 DSAPNEMVYRFTARPLVETIFERGMATCFAYGQTGSGKTHMGGDFSGKNQDCSKGIYALAARDVFLMLK
 KPNYKKLELQVYATFFEIYSGKVFDDLNRKTKLRVLEDGKQVQVVG LQEREVKCVEDVLKIDIGNSCR
 TSGQTSANAHSSRSHAVFQIILRRKGKLGKFSIDLAGNERGADTSSADRQTRLEGAEINKSLLALKEC
 IRALGRNKPHTPFRASKLTQVLRDSFIGENSRTCMIATISPGMASCENTLNTLRYANRVKELTVNPAAG
 DVHPIMHHPPSQIDDLETQWGVGSSPQRDDLKLLCEQNEEEVSPQLFTFHEAVSQMVEEQQVEDHRAV
 FQESIRWIEDEKALLEMTEEVDYDVDSYATQLEAILEQKIDIL TELRDKVKSFRAALQEEEQASKQINPK
 RPRAL

TRTRPLE - GFP Tag - V

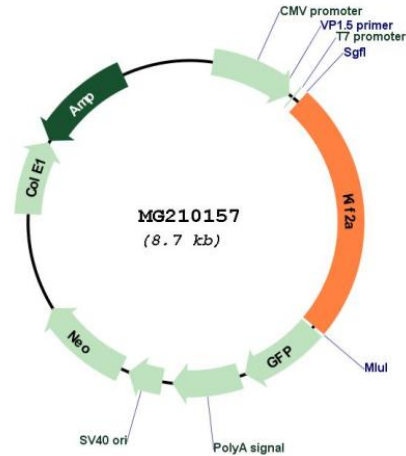
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: BC006803

ORF Size: 2117 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: [BC006803](#), [AAH06803](#)

RefSeq Size: 2437 bp

RefSeq ORF: 2117 bp

Locus ID: 16563

Cytogenetics: 13 D2.1

Gene Summary: Plus end-directed microtubule-dependent motor required for normal brain development. May regulate microtubule dynamics during axonal growth. Required for normal progression through mitosis. Required for normal congress of chromosomes at the metaphase plate. Required for normal spindle dynamics during mitosis. Promotes spindle turnover. Implicated in formation of bipolar mitotic spindles. Has microtubule depolymerization activity (By similarity).[UniProtKB/Swiss-Prot Function]