

Product datasheet for **RG220217**

KIF13B (NM_015254) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: KIF13B (NM_015254) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: KIF13B
Synonyms: GAKIN
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG220217 representing NM_015254
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGGACTCCAAAGTAAAAGTGGCGGTGCGGATACGACCCATGAACCGCGGAGAGACTGACTTGCATA
CCAAATGTGTGGTGGATGTGGATGCAAACAAGGTTATTCTTAATCCTGTAATACGAATCTTTCCAAAGG
AGATGCCCGGGCCAGCCGAAGGTGTTTGCTTATGATCATTGTTTCTGGTCTATGGATGAATCTGTCAA
GAAAAGTATGCAGGTCAAGATATTGTTTTCAAGTGCCTTGAGAGAATATCCTGCAGAATGCTTTTGATG
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TGACCAACCTGGATTAATCCCAAGACTTTGCAGTGGACTTTGAACGAACCTCAGAAAGAGGAAAATGAA
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ACAACCTCGGTCTGGTTATCTCAGCTCTTGAGATCAGAGTGCAGTGGCAAAAACAAGAATAAATTTGTTT
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GAACACTGTATTATAGACATCACGTCAGAAGGCCAGGTTATGCTGACTCCTCAGAAGAACCAGAACAT
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GCGAGTTCGTCACCGTGGGCGCCACAAAACGGGCGTGGTGAGATACGTGGGGCCTGCCACTTCCAAGA
 GGGCACGTGGGTGGGCTGGAGCTCGACCTGCCCTCAGGTAAGAAATGACGGTTCCATCGGCGGGAAGCAG
 TACTTCAGGTGTAACCTGGCTACGGGCTGCTGGTCAGGCCAGCCGGGTCCGACAGGGCCACGGGCCCTG
 TGCGGGCGGCGCAGCACAGGACTCCGGCTGGGTGCCCCGAGGCCCGCGGAGCGCCACCCCTCTCGGGCTC
 CGCCACCAACCTGGCCTCGCTGACAGCTGCCCTGGCCAAGGCCGACAGGAGCCACAAGAACCCTGAGAAC
 CGGAAATCCTGGGCCAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220217 representing NM_015254
 Red=Cloning site Green=Tags(s)

MGDSKVKVAVRIRPMNRRETLHTKCVVDVDANKVILNPVNTNLSKGDARGQPKVFAYDHCFWMSDESVK
 EKYAGQDIVFKCLGENILQNAFDGYNACIFAYGQTGSGKSYTMMGTADQPGLIPRLCSGLFERTQKEENE
 EQSFKVEVSYMEIYNEKVRDLLDPKGSRQTLKVREHSVLGPYVDGLSKLAVTSYKDIESLMSEGNSRSTV
 AATNMNEESSRSHAVFKITLTHLYDVKSGTSGEKVVKLSLVDLAGSERATKGAAGDRLKEGSNINKSL
 TTLGLVISALADQSAGKNKNFVYRDSVLTWLLKDSLGGNSKTAMVATVSPAADNYDELSTLRYADRA
 KHIYNHAVVNDPNARIIRDLEEEKLEQLTKAEAMKSPDKDRLEESEKLIQEMTVTWEELRKTTEE
 IAQERQKQLESLGISLQSSGIKVGDDKCFVLNLDNADPALNELLVYYLKEHTLIGSANSQDIQLCGMGLP
 EHCIIDITSEGQVMLTPQKNTRTFVNGSSVSSPIQLHHGDRILWGNHFRNLNPKKKKAEREDDQDP
 SMKNENSSEQLDVDGSSSEVSSEVNFNYEYQMEVTMKALGSNDPMQSIINSLEQQHEEKRSLERQR
 LMYEHLEQLRRRLSPEKQNCRSMDRF SFHSPSAQQRLRQWAEEREATLNNLMRLREQIVKANLLVREA
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 KECEEDNPVIRSIFYKRAPDFYDEQENHSLIGVANVFLESFYDVKLQYAVPIINQKGEVAGRLHVEVMRL
 SGDVGERIAAGGDEVAEVSFEKETQENKLVCMVKILQATGLPQHLSHFVFCYKSFWDQPEVIVAPEVDT
 SSSVSKEPHCVFDFHCNEFSVNITEDFIEHLSEGALAEVYGHKINDPRKNPALWDLGIQAKTRSLRD
 RWSEVTRKLEFWVQILEQNGEYCPVEVISAKDVPTGGIFQLRQGSRVQVEVKSQVSGTLPMEEC
 ILSVGIGCVKVRPLRAPRTHETFHEEEDMDSYQDRDLERLRKWLNALTKRQEYLDQQLKLVSKRDKT
 EDDADREAQLLEMRLTLTEERNAVMPVSAGSGIPGAPAEWTPVPGMETHIPVIFLDLNADDFSSQDNLDD
 PEAGGWDATLTGEEEEFFELQIVKQHDGEVKAESWDSAVHGCPQLSRGTPVDERLFLIVRVTVQLSHP
 ADMQLVLRKRICVNVHGRQGFASLLKKMSHRSSIPGCGVTFEIVSNIPEDAQGVVEEREARLARMANVEN
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 LGSNKGRWESQQDVSQTTVSRGIAPAPALSVSPQNNHSPDPGLSNLAASYLNPVKSFPVQMPKLLKSLFP
 VRDEKRGKRPSPLAHQVPRIMVQSASPDIRVTRMEEAQPEMGPDLVQTMGAPALKICDKPAKVPSPPP
 VIAVTAVTAPAEQDGPSPLEASSGYFSHSVSTATLSDALGGLDAAAPPMSMPTAPEAEPEAPISHP
 PPPTAVPAEPPGQQLVSPGRERPDLEAPAGSPFRVRRVRAELRSFSRMLAGDPGCSPGAEGNAPAP
 GAGGQALASDSEEAEVPEWLEGEFVTGAHKTGVVRYVGPADFQEGTWVGVLDLPSGKNDGSIKGGKQ
 YFRCNPGYGLLVRPSRVRATGPVRRRSTGLRLGAPEARASATLSGSATNLASLTAALAKADRSHKNPEN
 RKSWAS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	<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:	NM_015254.2 , NP_056069.2
RefSeq Size:	8796 bp
RefSeq ORF:	5481 bp
Locus ID:	23303
UniProt ID:	Q9NQT8
Cytogenetics:	8p12
Domains:	FHA, CAP_GLY, kinesin
Protein Families:	Druggable Genome
Gene Summary:	Involved in reorganization of the cortical cytoskeleton. Regulates axon formation by promoting the formation of extra axons. May be functionally important for the intracellular trafficking of MAGUKs and associated protein complexes.[UniProtKB/Swiss-Prot Function]