OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG216137

KIF3C (NM_002254) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	KIF3C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG216137 representing NM_002254
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCAGTAAGACCAAGGCCAGCGAGGCCCTCAAGGTGGTGGCCCGGTGCCGCCCCCTCAGCAGGAAGG
AGGAGGCTGCTGGTCACGAGCAGATCCTGACCATGGACGTGAAACTGGGCCAGGTGACCCTGCGGAACCC
CCGCGCTGCCCCGGGGGAGCTGCCCAAGACCTTCACCTTTGACGCCGTGTATGATGCCAGCTCCAAGCAG
GCCGACCTGTATGACGAAACCGTGAGGCCCCTGATAGACTCCGTGCTCCAGGGTTTCAATGGCACGGTGT
TTGCCTATGGCCAGACGGGCACTGGCAAGACCTATACCATGCAGGGGACCTGGGTGGAGCCCGAGCTGCG
CGGGGTCATCCCGAATGCCTTTGAGCACATCTTCACCCACATCTCCCGCTCCCAGAACCAACAGTACCTG
GTCCGGGCCTCCTATTTGGAGATCTACCAGGAAGAGATTCGAGACCTGCTCTCCAAGGAGCCGGGCAAGA
GGCTAGAGCTGAAAGAGAACCCCGAGACTGGCGTCTACATCAAGGACCTCTCCTCCTTCGTCACCAAGAA
TGTCAAGGAGATTGAGCATGTGATGAACCTGGGGAACCAGACCCGGGCTGTGGGCAGCACCCACATGAAT
GAGGTCAGCTCCCGCTCCCATGCCATCTTCATCATCACTGTGGAGTGCAGCGAACGTGGCTCTGATGGCC
AGGACCACATCCGAGTGGGCAAGCTCAACCTCGTGGACCTGGCTGGCAGCGAGAGGCAGAACAAGGCAGG
CCCCAACACAGCGGGAGGGGCAGCCACACCATCCTCGGGTGGCGGTGGTGGCGGTGGAGGCAGTGGTGGT
GGTGCTGGTGGAGAGAGGCCTAAGGAAGCCTCCAAAATCAACCTCTCATTATCTGCCCTGGGCAACGTGA
TTGCTGCCCTGGCGGGCAACAGGAGCACCCACATTCCCTACCGGGACTCCAAGCTGACCCGGCTGCTCCA
GGACTCCCTGGGGGGGAATGCCAAGACCATCATGGTAGCCACACTGGGGCCAGCTTCTCACAGCTACGAT
GAGAGCCTCTCCACCTTGCGCTTTGCCAACCGAGCCAAGAACATCAAGAACAAGCCCCGGGTGAACGAGG
ACCCCAAGGACACACTGCTGCGGGAATTCCAAGAGGAGATTGCCCGCCTGAAGGCCCAGCTGGAGAAGAG
GGGGATGCTGGGGAAGCGGCCCCGGAGGAAGAGCAGCCGCAGGAAGAAGGCCGTGTCCGCCCCGCCTGGG
TACCCTGAGGGCCCAGTGATTGAGGCCTGGGTGGCAGAAGAGGAGGATGACAACAACAACAACCACCGCC
CGCCCCAGCCCATCCTGGAGTCAGCCTTGGAGAAGAACATGGAGAATTACCTGCAGGAACAGAAGGAGCG
GCTGGAGGAGGAGAAGGCAGCCATCCAGGATGACCGCAGCCTGGTGAGCGAGGAGAAGCAGAAGCTGCTG
GAGGAGAAGGAGAAGATGCTGGAGGACCTGCGGCGGGAACAGCAGGCCACAGAGCTGCTTGCGGCCAAGT
ACAAGGCCATGGAGAGCAAGCTCCTCATCGGGGGCAGGAACATCATGGATCACACCAACGAACAGCAGAA
GATGTTGGAACTGAAGAGGCAGGAGATTGCCGAGCAGAAACGTCGTGAGCGGGAGATGCAGCAGGAGATG
ATGCTCCGGGACGAGGAGACTATGGAGCTCCGGGGCACCTACACATCCCTGCAGCAGGAGGTGGAGGTCA
AAACCAAGAAACTCAAGAAGCTCTACGCCAAGCTGCAGGCGGTGAAGGCGGAGATCCAGGACCAGCATGA
TGAGTACATCCGCGTGCGGCAGGACCTGGAGGAGGCGCAGAACGAGCAGACCCGCGAACTCAAGCTCAAG
TACCTAATCATCGAGAACTTCATCCCGCCGGAGGAGAAGAACAAGATCATGAACCGGCTTTTCCTGGACT
GTGAGGAGGAGCAGTGGAAGTTCCAGCCACTGGTGCCAGCCGGCGTCAGTAGCAGCCAGATGAAGAAGCG
GCCAACATCTGCAGTGGGCTACAAGAGGCCTATCAGCCAGTATGCTCGGGTTGCCATGGCAATGGGGTCC
CACCCCAGGTACAGGGCTGAAAACATAATGTTTCTGGAGTTGGATGTGTCCCCTCCAGCTGTCTTTGAGA
TGGAATTCTCTCACGACCAAGAACAAGACCCTCGTGCGCTACACATGGAGAGGCTCATGCGATTGGACAG
CTTTCTGGAAAGACCTTCCACGTCTAAAGTCCGAAAGTCCAGATCCTGGTGCCAGAGTCCTCAGCGGCCT
CCACCTTCCACCACACATGCCTCCCTGGCCTCTGCTTCTCTGCGCCCTGCAACAGTGGCGGACCATGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

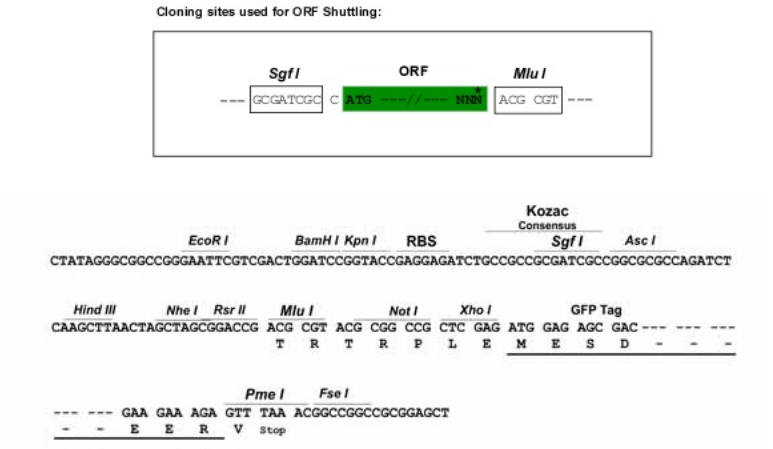
>RG216137 representing NM_002254
Red=Cloning site Green=Tags(s)

MASKTKASEALKVVARCRPLSRKEEAAGHEQILTMDVKLGQVTLRNPRAAPGELPKTFTFDAVYDASSKQ
ADLYDETVRPLIDSVLQGFNGTVFAYGQTGTGKTYTMQGTWVEPELRGVIPNAFEHIFTHISRSQNQQYL
VRASYLEIYQEEIRDLLSKEPGKRLELKENPETGVYIKDLSSFVTKNVKEIEHVMNLGNQTRAVGSTHMN
EVSSRSHAIFIITVECSERGSDGQDHIRVGKLNLVDLAGSERQNKAGPNTAGGAATPSSGGGGGGGSGG
GAGGERPKEASKINLSLSALGNVIAALAGNRSTHIPYRDSKLTRLLQDSLGGNAKTIMVATLGPASHSYD
ESLSTLRFANRAKNIKNKPRVNEDPKDTLLREFQEEIARLKAQLEKRGMLGKRPRRKSSRRKKAVSAPPG
YPEGPVIEAWVAEEEDDNNNNHRPPQPILESALEKNMENYLQEQKERLEEEKAAIQDDRSLVSEEKQKLL
EEKEKMLEDLRREQQATELLAAKYKAMESKLLIGGRNIMDHTNEQQKMLELKRQEIAEQKRREREMQQEM
MLRDEETMELRGTYTSLQQEVEVKTKKLKKLYAKLQAVKAEIQDQHDEYIRVRQDLEEAQNEQTRELKLK
YLIIENFIPPEEKNKIMNRLFLDCEEEQWKFQPLVPAGVSSSQMKKRPTSAVGYKRPISQYARVAMAMGS
HPRYRAENIMFLELDVSPPAVFEMEFSHDQEQDPRALHMERLMRLDSFLERPSTSKVRKSRSWCQSPQRP
PPSTTHASLASASLRPATVADHE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002254

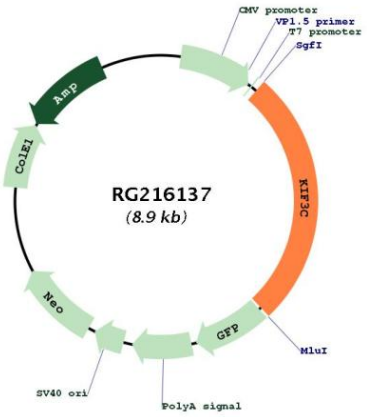
ORF Size: 2379 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_002254.5, NP_002245.4
RefSeq Size:	5401 bp
RefSeq ORF:	2382 bp
Locus ID:	3797
UniProt ID:	O14782
Cytogenetics:	2p23.3
Domains:	kinesin
Protein Families:	Druggable Genome
Gene Summary:	Microtubule-based anterograde translocator for membranous organelles.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216137