

Product datasheet for **RG216488**

KIF26A (NM_015656) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	KIF26A
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216488 representing NM_015656
Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGCATCGCC**

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CGTTGCAGCCAGTCTGCCATCCCGGGCCGCAGGAGGTGGACGTC

ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG216488 representing NM_015656
Red=Cloning site Green=Tags(s)

MVGRGVPLCAAQPAVAEGGPAREPPPLLEVSPRKRLPAGPDQDPCGSRPAPEGAGAGPEQGHSAAGGGWC
RHCHTKLVELKRQAWKLVSQGTTLRDPCLSAALLDKLPAPGALPACRPEAERRCDVCATHLQQLTREAM
HLLQAPASHEDLDAPHGGPSLAPPSTTTSSRDTGPGAPGRQPGRAGPDRTKGLAWSPGPSVQSVAPA
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QLQNQSELRAPTAEKAAFYLDAAALAASTSRAGCGEDARRSSHMLFTLHVYQYRMEKCGRGGMSGGRSRL
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FAELQERLECMDGNEGPSGGPGGTDGAQASPARGGKPSPEAASPRKAVGTPMAASTPRGSSGPDTHQG
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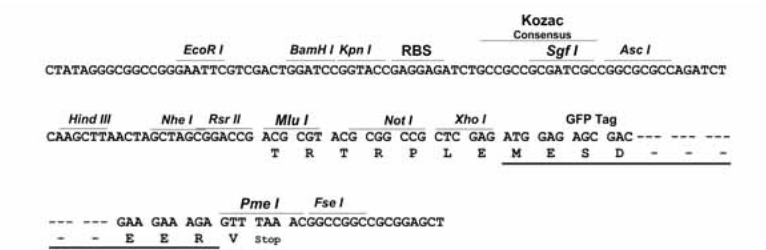
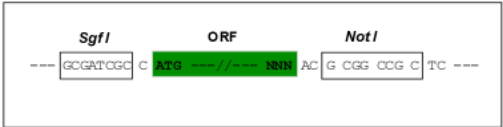
TRPLE - GFP Tag - V

Restriction Sites:

SgfI-NotI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_015656

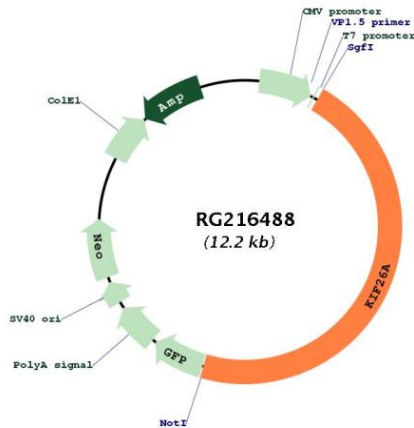
ORF Size: 5646 bp

OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_015656.1 , NP_056471.1
RefSeq Size:	6757 bp
RefSeq ORF:	5649 bp
Locus ID:	26153
UniProt ID:	Q9ULI4
Cytogenetics:	14q32.33
Protein Families:	Druggable Genome

Gene Summary:

Atypical kinesin that plays a key role in enteric neuron development. Acts by repressing a cell growth signaling pathway in the enteric nervous system development, possibly via its interaction with GRB2 that prevents GRB2-binding to SHC, thereby attenuating the GDNF-Ret signaling. Binds to microtubules but lacks microtubule-based motility due to the absence of ATPase activity (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216488