

Product datasheet for **RG215782**

KIF14 (NM_014875) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF14 (NM_014875) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIF14
Synonyms:	MCPH20; MKS12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215782 representing NM_014875 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCC**CGATCGC**

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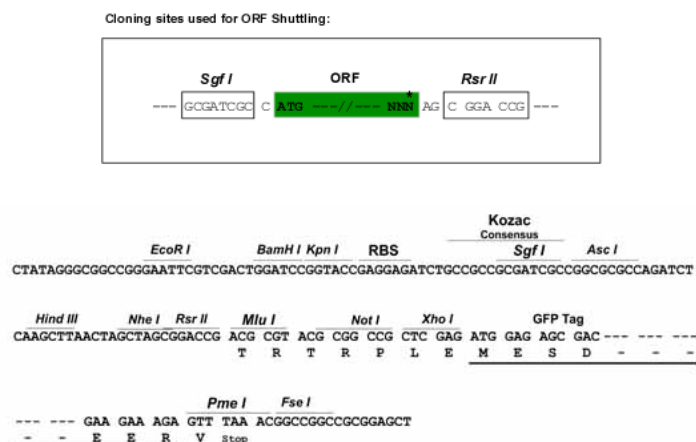
Protein Sequence: >RG215782 representing NM_014875
Red=Cloning site Green=Tags(s)

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LASDFYSDFSV PSTSVGSYESRVTHIVHQELES LAKSLLFCFESEESPDLLKPWETYNQNTKEEHQQSKS
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SGP^{TR}RRLE - GFP Tag - V

Restriction Sites: Sgfl-RsrII

Cloning Scheme:

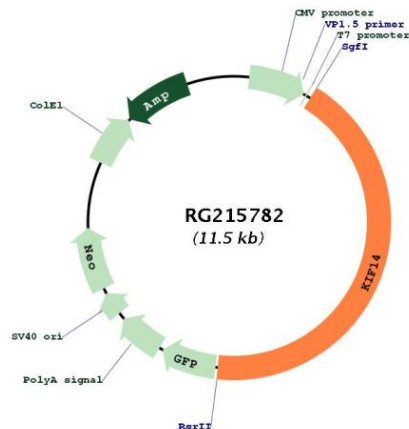


ACCN: NM 014875

ORF Size:	4944 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.
RefSeq:	NM_014875.3
RefSeq Size:	7293 bp
RefSeq ORF:	4947 bp
Locus ID:	9928
UniProt ID:	Q15058
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes a member of the kinesin-3 superfamily of microtubule motor proteins. These proteins are involved in numerous processes including vesicle transport, chromosome segregation, mitotic spindle formation, and cytokinesis. In human HeLa-S3 and 293T cells, this protein is localized to the cytoplasm during interphase, to the spindle poles and spindle microtubules during mitosis, and to the midbody during cytokinesis. An internal motor domain displays microtubule-dependent ATPase activity, consistent with its function as a microtubule motor protein. Knockdown of this gene results in failed cytokinesis with endoreplication, which results in multinucleated cells. This gene has been identified as a likely oncogene in breast, lung and ovarian cancers, as well as retinoblastomas and gliomas. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2015]

Product images:


Circular map for RG215782