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Product datasheet for RG240214

KIF20B (NM_001284259) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KIF20B (NM_001284259) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KIF20B
Synonyms:	CT90; KRMP1; MPHOSPH1; MPP-1; MPP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG240214 representing NM_001284259. Blue=ORF Red=Cloning site Green=Tag(s)

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Protein Sequence:

>Peptide sequence encoded by RG240214
Blue=ORF Red=Cloning site Green=Tag(s)

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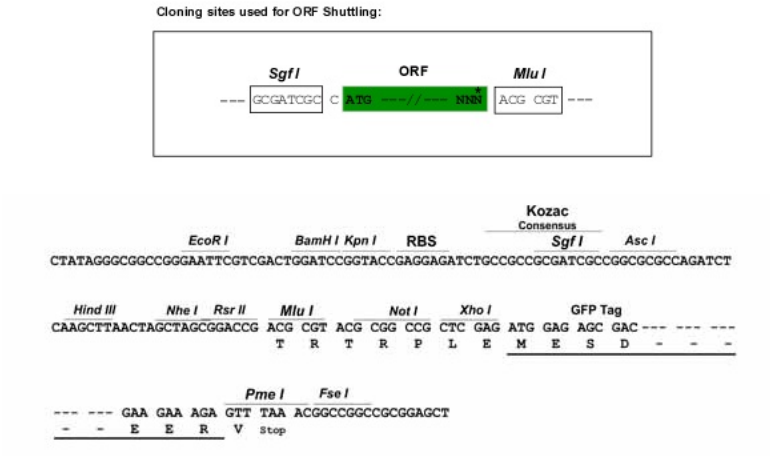
Restriction Sites: SgfI-MluI

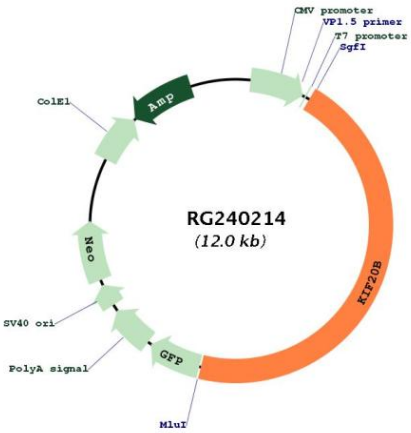
Cloning Scheme:



ACCN:	NM_001284259
ORF Size:	5540 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).
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001284259.2
RefSeq Size:	6459 bp
RefSeq ORF:	5463 bp

Locus ID:	9585
UniProt ID:	Q96Q89
Cytogenetics:	10q23.31
Protein Families:	Druggable Genome
MW:	211.1 kDa
Gene Summary:	Plus-end-directed motor enzyme that is required for completion of cytokinesis (PubMed:11470801, PubMed:12740395). Required for proper midbody organization and abscission in polarized cortical stem cells. Plays a role in the regulation of neuronal polarization by mediating the transport of specific cargos. Participates in the mobilization of SHTN1 and in the accumulation of PIP3 in the growth cone of primary hippocampal neurons in a tubulin and actin-dependent manner. In the developing telencephalon, cooperates with SHTN1 to promote both the transition from the multipolar to the bipolar stage and the radial migration of cortical neurons from the ventricular zone toward the superficial layer of the neocortex. Involved in cerebral cortex growth (By similarity). Acts as an oncogene for promoting bladder cancer cells proliferation, apoptosis inhibition and carcinogenic progression (PubMed:17409436).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG240214