

## Product datasheet for RC240214

### KIF20B (NM\_001284259) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	KIF20B (NM_001284259) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KIF20B
Synonyms:	CT90; KRMP1; MPHOSPH1; MPP-1; MPP1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240214 representing NM_001284259 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAATCTAATTTTAAATCAAGAGGGAGTACCTCGACCATCTTATGTTTTAGTGCTGACCCAATTGCAA  
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**Protein Sequence:**

>RC240214 representing NM\_001284259  
 Red=Cloning site Green=Tags(s)

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 EEIASKSALLRQIKEVTVHNSDDTLYGSLTNSLNISEFEESIKEYEQANLNMANSIKFSVWVSFFEIYN  
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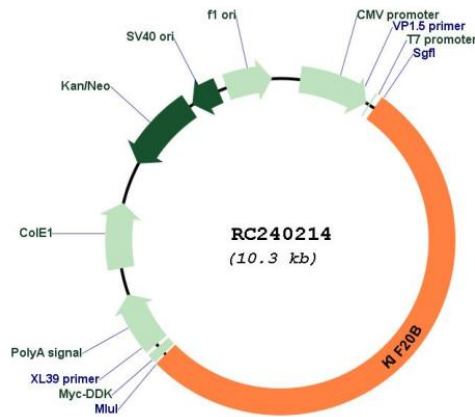
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM\_001284259

<b>ORF Size:</b>	5460 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001284259.2</a>
<b>RefSeq Size:</b>	6459 bp
<b>RefSeq ORF:</b>	5463 bp
<b>Locus ID:</b>	9585
<b>UniProt ID:</b>	<a href="#">Q96Q89</a>
<b>Cytogenetics:</b>	10q23.31
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	211.1 kDa
<b>Gene Summary:</b>	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]