

Product datasheet for RC205132L3

OriGene Technologies, Inc.

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Kinesin Heavy Chain 2 (KIF2A) (NM_004520) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Kinesin Heavy Chain 2 (KIF2A) (NM_004520) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Kinesin Heavy Chain 2

Synonyms: CDCBM3; HK2; KIF2

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

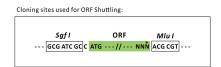
E. coli Selection: Chloramphenicol (34 ug/mL)

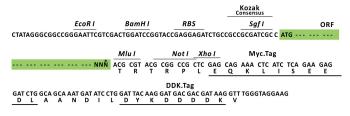
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC205132).

Sequence:

Sgfl-Mlul

Restriction Sites: Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_004520

ORF Size: 2037 bp





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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.

RefSeq: <u>NM 004520.3</u>, <u>NP 004511.2</u>

 RefSeq Size:
 4058 bp

 RefSeq ORF:
 2121 bp

 Locus ID:
 3796

 UniProt ID:
 000139

Cytogenetics: 5q12.1

Domains: kinesin

Protein Families: Druggable Genome

MW: 77 kDa

Gene Summary: The protein encoded by this gene is a plus end-directed motor required for normal mitotic

progression. The encoded protein is required for normal spindle activity during mitosis and is

necessary for normal brain development. Several transcript variants encoding different

isoforms have been found for this gene. [provided by RefSeq, Sep 2011]