

Product datasheet for MR208345L4

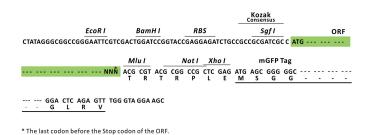
Kpna3 (NM_008466) Mouse Tagged Lenti ORF Clone

Product data:

OriGene Technologies, Inc.

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| Product Type: | Expression Plasmids |
|------------------------------|---|
| Product Name: | Kpna3 (NM_008466) Mouse Tagged Lenti ORF Clone |
| Tag: | mGFP |
| Symbol: | Kpna3 |
| Synonyms: | IPOA4 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| E. coli Selection: | Chloramphenicol (34 ug/mL) |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(MR208345). |
| Restriction Sites: | Sgfl-Mlul |
| Cloning Scheme: | |
| - | Cloning sites used for ORF Shuttling: Sgf 1 ORF MIU 1 GCG ATC GC ATG // NNN ACG CGT |



ACCN: ORF Size: NM_008466 1563 bp



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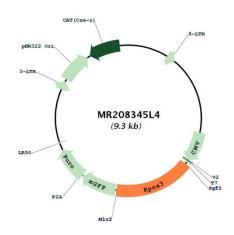
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| ORIGENE Kpna3 (NM_008466) Mouse Tagged Lenti ORF Clone – MR208345L4 | |
|---|--|
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences 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. <u>More info</u> |
| 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: | Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 008466.5, NP 032492.1</u> |
| RefSeq Size: | 4167 bp |
| RefSeq ORF: | 1566 bp |
| Locus ID: | 16648 |
| UniProt ID: | <u>035344</u> |
| Cytogenetics: | 14 D1 |
| Gene Summary: | Functions in nuclear protein import as an adapter protein for nuclear receptor KPNB1. Binds specifically and directly to substrates containing either a simple or bipartite NLS motif. Docking of the importin/substrate complex to the nuclear pore complex (NPC) is mediated by KPNB1 through binding to nucleoporin FxFG repeats and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to importin-beta and the three components separate and importin-alpha and -beta are re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran from importin. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of |

Ran between the cytoplasm and nucleus. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS.[UniProtKB/Swiss-Prot Function]

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Product images:



Circular map for MR208345L4

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