

OriGene Technologies, Inc.

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Product datasheet for RC207221L1V

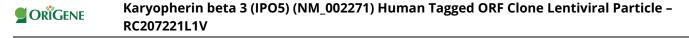
Karyopherin beta 3 (IPO5) (NM_002271) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	Karyopherin beta 3 (IPO5) (NM_002271) Human Tagged ORF Clone Lentiviral Particle
Symbol:	Karyopherin beta 3
Synonyms:	IMB3; imp5; KPNB3; Pse1; RANBP5
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_002271
ORF Size:	3345 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC207221).
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.
RefSeq:	<u>NM 002271.4</u> , <u>NP 002262.3</u>
RefSeq Size:	6019 bp
RefSeq ORF:	3294 bp
Locus ID:	3843
UniProt ID:	<u>000410</u>
Cytogenetics:	13q32.2
Protein Families:	Druggable Genome
MW:	125.4 kDa



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Gene Summary:Nucleocytoplasmic transport, a signal- and energy-dependent process, takes place through
nuclear pore complexes embedded in the nuclear envelope. The import of proteins
containing a nuclear localization signal (NLS) requires the NLS import receptor, a heterodimer
of importin alpha and beta subunits also known as karyopherins. Importin alpha binds the
NLS-containing cargo in the cytoplasm and importin beta docks the complex at the
cytoplasmic side of the nuclear pore complex. In the presence of nucleoside triphosphates
and the small GTP binding protein Ran, the complex moves into the nuclear pore complex
and the importin subunits dissociate. Importin alpha enters the nucleoplasm with its
passenger protein and importin beta remains at the pore. Interactions between importin beta
and the FG repeats of nucleoporins are essential in translocation through the pore complex.
The protein encoded by this gene is a member of the importin beta family. [provided by
RefSeq, Jul 2008]

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