

Product datasheet for **SC333253**

KPNB1 (NM_001276453) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KPNB1 (NM_001276453) Human Untagged Clone
Tag:	Tag Free
Symbol:	KPNB1
Synonyms:	IMB1; Impnb; IPO1; IPOB; NTF97
Vector:	pCMV6-Entry (PS100001)



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Fully Sequenced ORF: >SC333253 representing NM_001276453.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGAAGGAGTCGACATTGGAAGCCATCGGTTATATTTGCCAAGATATAGACCCAGAGCAGCTACAAGAT
AAATCCAATGAGATTCTGACTGCCATAATCCAGGGGATGAGGAAAGAAGACCTAGTAATAATGTGAAG
CTAGCTGCTACGAATGCACTCCTGAACCTATTGGAGTTCACCAAAGCAAACCTTTGATAAAGAGCTGAA
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AAAACCTTGCTACATGGGCAACAAAAGAAGTGAAGAACTGAAGAACCAAGCTTGA
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Restriction Sites: SgfI-MluI

ACCN: NM_001276453

Insert Size: 2196 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [NM_001276453.1](#)

RefSeq Size: 3951 bp

RefSeq ORF: 2196 bp

Locus ID: 3837

UniProt ID: [Q14974](#)

Cytogenetics: 17q21.32

Protein Families: Druggable Genome, Stem cell - Pluripotency

MW: 81.2 kDa

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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2013]

Transcript Variant: This variant (2) has an alternate exon in place of the first two exons compared to variant 1, which causes translation to begin at a downstream AUG compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.