

Product datasheet for **SC118726**

Karyopherin beta 3 (IPO5) (NM_002271) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Karyopherin beta 3 (IPO5) (NM_002271) Human Untagged Clone
Tag:	Tag Free
Symbol:	Karyopherin beta 3
Synonyms:	IMB3; imp5; KPNB3; Pse1; RANBP5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002271, the custom clone sequence may differ by one or more nucleotides

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ATGCCTGAGGATCAAGTTGGAAAAGTAGAAGCAACAGAAAACACAATAAGCGCAATGGCGGCGGCCGCGG
CGGAGCAGCAACAGTTCTACCTGCTCCTGGGAAACCTGCTCAGCCCCGACAATGTGGTCCGGAAACAGGC
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TGCCGATACTGCAGAAGAAAAATTTGTCCCTACTATGATTTATTTATGCCATCACTGAAGCACATCGTT
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TGTTGAGACTTCAATATCTGTGTGACCTGATTGAAAGTAATCATCCAATTGTTCTTGGCCAAACAAT
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AGCACAGCTCAGTCTGAGCAGCAGGCCCCATTGAGGCTCCTGAACTCTGCGTGA
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002271 unedited
CGGCCGGAATTCGGCACAGCGGCCGCGGGAGTGAGAGGCCGAGGCCCGCCCG
TCCTCCCTTTCCCTTTGCCCCGCCCTTCCCGCGCGGCCCGCCCGCAAGCCCGCGCCG
CGCTGGTCCCGTCCCGCGCTGGGCCCGCCCCGCCCTCCCGCGGCCCGCGAGCGCGC
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GCGGCGGAGCAGCAACAGTTCTACCTGCTCCTGGGAAACCTGCTCAGCCCCGACAATGTG
GTCCGGAACAGGCAGAGGAAACCTATGAGAATATCCCAGGCCAGTCAAAGATCACATTC
CTTTACAAGCCATCAGAAATACAACAGCTGCTGAAGAGGCTAGACAAATGGCCGCCGTT
CTCCTAAGACGTCTTGTCTCTGCATTTGATGAAGTCTATCCAGCACTTCCCTCTGAT
GTTGAGACTGCCATCAAGAGTGAGTACTCATGATTATTCAGATGAAACACAATCTAGC
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GGCAATAACCAAGTGGCCCGAAGGTTTGAAGTTCCTTTTGTTCAGTCTCAGCTCTCAAAT
GTGGGACTGCGGGAAGCTGCCCTTACATTNTCTGGAACCTTCTGNNATT
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_002271 unedited CCCCTTACTGTGCCACCGCGCCGCGCATTTCACGACCGGGTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTAAAGAAAAACCCTTCTATTTAAATTTCTGATCTATGCATAAAA TTCATTTTTATATTCCGGTTAAATTTAGCCCAAACCTATAAAAAGGTTACCCCTGAAGTTT TCACCAGAAAGTCTATTAGGCAGGCCTTACAAACCTCTCCCCCGCGGTCTTTTCTG CTATGAGGTTAATCCCTACCGAAACATTCCCCTTTTTACTGAAATTTTCAGTAACCAAC TTTACCCATACCCTTTATAACTAACCCCCACACCGTCGGGGGGCGGTCTTACCCCATTC CCCTTCCCACGCACCCCTTACCCCAACCTTTCTGCCCGCCCCACCAACCTCCCCT CCCACACTGCCTGCCCTCCCTCCCCTCTCCCCACCCCCCTCCCCACGGCCACGGTA TCCTCATTCTCCCTTACCCGCCCCACGGCCCCCCCCCTCCCTACCCCTCCCCCCC CCCCCGCACCCCCCCCCCAACCCCTCCCCCCCCGGGCTCCCTCCTTCCCCCCC ACATCCCTCTCCCTCCCCCCCCCCCCACCCCCCCTCTACCCGCCACCAAC TCCCCCCCCCAACCCCCCCCCACCCCTCTTCTATTCTTTCCCCAACTATCCC CTCATACCCTTATCTCACCCCCCCCCCCCCACCCCCCCCCCCCCCCCCCCCC CCCCCTCCCCATCCCAGCCCCATCCACCCCCCCCCCTCCCCCTCCCCCCCC CTCTCTCCCCCCCCCTCTCTCCCCCTCCCATTACAAACCCACACTCCCTA CCCCGTCTTCTCTCCCCCCCCCTCATCT
Restriction Sites:	NotI-NotI
ACCN:	NM_002271
Insert Size:	4470 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:	<ol style="list-style-type: none">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_002271.2 , NP_002262.2
RefSeq Size:	6019 bp
RefSeq ORF:	3294 bp
Locus ID:	3843
UniProt ID:	O00410
Cytogenetics:	13q32.2
Protein Families:	Druggable Genome

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]