

Product datasheet for **SC105419**

Karyopherin beta 3 (IPO5) (BD027479) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Karyopherin beta 3 (IPO5) (BD027479) Human Untagged Clone
Tag:	Tag Free
Symbol:	Karyopherin beta 3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BD027479, the custom clone sequence may differ by one or more nucleotides

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CTTCTCTCTCACGCCTAGCGCAATGGCGGCGGCCGCGGGASCAGCAACAGTTCTACCTGCTCCTGGGA
AACCTGCTCAGCCCCGACAATGTGGTCCGGAACAGGCAGAGGAAACCTATGAGAATANTCCCAGGCCAG
TCAAAGATCACATTCTCTTACAAGCCATCAGAAATACAACAGCTGCTGAAGAGGCTAGACAAATGGCCC
CCGTTCTCCTAAGACGTCTTTGTCTCTGCATTTGATGAAGTCTATCCAGCACTCCCTCTGATGTTCA
GACTGCCATCAAGAGTGAGCTACTCATGATTATTCAGATGGAAACACAATCTAGCATGAGGAAAAAGTT
TGTGATATTGCGGSAGAAGTGGCCAGGAATTTAATAGATGAGGATGGCAATAACCAAGTGGCCGAAGTTT
GAAGTTCTTTTTGATTTCAGTCAG
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5' Read Nucleotide Sequence:

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>OriGene 5' read for BD027479 unedited
TGTATACGACTCATATAGGGCGGCCGGAATCGGCACGAGGCGCCGGCGCCGGCGCCG
GGCGGGGTGAGAGGCCGCGAGGCCCGCCCGTCTCCCTTTCCCTTTGCCCGCCCT
TCCCGCGCGCCCGCCGCAAGCCCGCGCCGCGCTGGTGCCGGTCCCGCGCTGGGCC
GCCCGCCCGCCCTCCCGCGCCCGCGAGCGCCCTCAGGGTCTGTCTCCCTCCCTCT
TCTCTCTCAGCCTAGCGCAATGGCGGCGCCGCGGGAGCAGCAACAGTTCTACCTGC
TCTGGGAAACCTGCTCAGCCCCGACAATGTGGTCCGGAACAGGCAGAGGAAACCTATG
AGAATATCCCAGGCCAGTCAAAGATCACATTCTCTTACAAGCCATCAGAAATACAACAG
CTGCTGAAGAGGCTAGACAAATGGCCGCGTTCTCCTAAGACGTCTTTGTCTCTGCAT
TTGATGAAGTCTATCCAGCACTCCCTCTGATGTTTCAGACTGCCATCAAGAGTGAGCTAC
TCATGATTATTCAGATGGAAACACAATCTAGCATGAGGAAAAAGTTTGTGATATTGCGG
CAGAACTGGCCAGGAATTTAATAGATGAAGGATGGCAATAACCAAGTGGCCGAAGTTTT
GAAGTTCTTTTTGATTTCAGTCAGCTCTCAAATGTGGACTGCGGGAAGCTGCCCTTCAC
ATTNTCTGGGAACCTTCTGGAATTTTTGGGAACAGCACACTATNTTAGAGTCATAA
ACGAATGGTANTTCAGTGATGCAAGATCAGGACCCCGTCGATCANGACGTTATCTGCTA
AAGCACAGCTGCATTTATACTTGCAAAGAGCATAT
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Restriction Sites:	NotI-NotI
ACCN:	BD027479
Insert Size:	3500 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:	BD027479.1
RefSeq Size:	444 bp
RefSeq ORF:	444 bp
Locus ID:	3843
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]