

Product datasheet for **SC118724**

KPNA5 (NM_002269) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KPNA5 (NM_002269) Human Untagged Clone
Tag:	Tag Free
Symbol:	KPNA5
Synonyms:	IPOA6; SRP6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118724 sequence for NM_002269 edited (data generated by NextGen Sequencing)

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ATGGATGCCATGGCTAGTCCAGGGAAAGATAACTATAGAATGAAAAGTTATAAGAATAAA
GCCCTAAATCCTCAAGAGATGCGTAGACGAAGAGAAGAAGAAGGAATACAGCTTAGAAAA
CAAAAAAGAGAAGAACAGTTGTTCAAACGCAGAAATGTCTATTTGCCAGAAATGATGAA
TCTATGCTTGAAGTCTATACAGGATCCAGGTATTAGTCCACTGTACCCATTCCAGAG
GAAGAAGTTGTTACTACAGATATGGTTCAGATGATTTTTTCTAATAATGCTGATCAACAG
CTAACAGCAACACAGAAATTTAGAAAAGCTGCTTTCTAAAGAACCCTAATCCACCAATAGAT
CAAGTTATACAGAAACCAGGAGTTGTACAGAGATTTGTGAAATTTCTGAAAGAAATGAA
AATTGCACTTTACAATTTGAAGCTGCATGGGCATTAACAAATATAGCATCTGGAACCTTT
CTGCATACCAAGGTAGTGATTGAAACTGGGGCTGTTCCGATTTTTATCAAACCTTCTTAAT
TCTGAACATGAAGATGTTGAGAACAGGCTGTTGGGCACTTGGTAATATTGCTGGTGAC
AATGCAGAATGCAGAGATTTTGTGTTGAAATGTGAAATACTTCCACCTCTTTAGAGTTA
TTAACAAATTCAAACAGACTCACAACAACAAGAAATGCCGTGTTGGGCCCTCTCAAATTTA
TGTAGAGGCAAAAACCCTCCTCAAACCTTAGTAAAGTTTCCACCTTGCTTAAATGTCCTG
TACAGACTGTTGTTTAGCAGTGACCCAGATGTGTTAGCAGACGTGTGTTGGGCCCTTTCT
TATCTCTCCGATGGACCAATGATAAAATTCAGCAGTCAATTGATTCTGGAGTCTGTGCA
AGATTGGTGGAACTTTTGATGCACAATGATTATAAAGTTGATACCTGCATTAAGGGCA
GTTGGTAATATTGACTGGTGATGATTTCAAACACAGGTAATTTGAAATGTTCTGCA
TTACCCTGTCTCTTACATTTATTGAGTAGCCAAAGGAGTCAATTAGAAAAGAAGCCTGC
TGGACTGTTTCTAACATCACTGCTGGAATAGAGCTCAGATTCAGGCTGTTATAGATGCA
AATATTTTCTGTTTGTGATTGAGATTTTCCAGAAAGCAGAGTTTCGTACCAGAAAAGAA
GCAGCTTGGGCTATAACTAATGCAACATCAGGAGTACTCCAGAGCAAATAAGGTATTTG
GTAGCTTTAGGCTGCATTAACCACTTTGTGATCTTTGACTGTTATGGACTCCAAAATA
GTCCAAGTGGCTTTAAATGGACTTGAAAATATTTTACGCTTGGAGAACAAGAATCTAAG
CAGAATGGAATAGGCATTAATCCATACTGTGCTCTCATTGAAGAAGCATATGGTCTGGAT
AAAATTGAGTTTTTGCAAGCCATGAAAATCAGGAAATTTACCAGAAGGCATTTGATCTG
ATTGAACATTACTTTGGTGTAGAAGAAGATGACCCAGCATTGTACCTCAGGTGGATGAA
AACCAACAACAGTTTATATTTTACAGCAGCAGGAAGCACCAATGGATGGATTTCAACTTTAA
    
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Clone variation with respect to NM_002269.2
212 a=>g

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002269 unedited
CATTTGTATACGACTCATATAGGCGGCCGATTTCGCACAGCTACGCTTACGCCAGGGCGG
AGTGGCGGCCCTTCTGTTACCCGCCACACACGTCGCCGCTGGGGACTGGGAAATCAGGGC
ATCGGAGAGTGCCACATTAATGGATGCCATGGCTAGTCCAGGGAAGATAACTATAGAAT
GAAAAGTTATAAGAATAAAGCCCTAAATCCTCAAGAGATGCGTAGACGAAGAGAAGAAGA
AGGAATACAGCTTAGAAAACAAAAAGAGAAGAACAGTTGTTCAAACGCAGAAATGTCTA
TTTGCCAGAAATGATGAATCTATGCTTGAAGTCTATACAGGATCCAGGTATTAGTTC
CACTGTACCCATTCCAGAGGAAGAAGTTGTTACTACAGATATGGTTCAGATGATTTTTTC
TAATAATGCTGATCAACAGCTAACAGCAACACAGAAATTTAGAAAAGCTGCTTTCTAAAGA
ACCTAATCCACCAATAGATCAAGTTATACAGAAACCAGGAGTTGTACAGAGATTTGTGAA
ATTTCTTGAAGAAGAAATGAAAATGCACTTTACAATTTGAAGCTGCATGGGCATTAACAAA
TATAGCATCTGGAACCTTTCTGCATACCAAGGTAGTGATTGAAACTGGGGCTGTTCCGAT
TTTTATCAAACCTCTTAATTCTGAACTGNAAGATGTTCCAGGAACAGGGCTGTTGGGCAC
TTGGTAATATTNGCTGGTGACAATGCAGATGCAGAGATTNTGTTNTGAATTGTGAATACT
TCCACCTTTTTTAGAGTATTAACAAATTCAAACAGACTCACACAACAGAAATGGCCGTG
TGGCCTCTCAAATTATGT
    
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Restriction Sites:

NotI-NotI

ACCN:

NM_002269

Insert Size:	4100 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_002269.2 , NP_002260.2
RefSeq Size:	2172 bp
RefSeq ORF:	1620 bp
Locus ID:	3841
UniProt ID:	O15131
Cytogenetics:	6q22.1
Domains:	Armadillo_seg, IBB
Gene Summary:	<p>The transport of molecules between the nucleus and the cytoplasm in eukaryotic cells is mediated by the nuclear pore complex (NPC) which consists of 60-100 proteins and is probably 120 million daltons in molecular size. Small molecules (up to 70 kD) can pass through the nuclear pore by nonselective diffusion; larger molecules are transported by an active process. Most nuclear proteins contain short basic amino acid sequences known as nuclear localization signals (NLSs). KPNA5 protein belongs to the importin alpha protein family and is thought to be involved in NLS-dependent protein import into the nucleus. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (3), as well as variant 4, encodes isoform b.</p>