

Product datasheet for **RG208204**

KPNA5 (NM_002269) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KPNA5 (NM_002269) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KPNA5
Synonyms:	IPOA6; SRP6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208204 representing NM_002269
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATGCCATGGCTAGTCCAGGAAAGATAACTATAGAATGAAAAGTTATAAGAATAAAGCCCTAAATC
 CTAAGAGATGCGTAGACGAAGAGAAGAAGAAGGAATACAGCTTAGAAAACAAAAAAGAGAAGAACAGTT
 GTTCAAACGCAGAAATGTCTATTTGCCAGAAATGATGAATCTATGCTTGAAAGTCTATACAGGATCCA
 GATATTAGTTCCTACTGTACCCATTCCAGAGGAAGAAGTTGTTACTACAGATATGGTTCAGATGATTTTTT
 CTAATAATGCTGATCAACAGCTAACAGCAACACAGAAATTTAGAAAGCTGCTTTCTAAAGAACCTAATCC
 ACCAATAGATCAAGTTATACAGAAACCAGGAGTTGTACAGAGATTTGTGAAATTTCTTGAAGAAATGAA
 AATTGCACTTTACAATTTGAAGCTGCATGGGCATTAACAATATAGCATCTGGAATTTTCTGCATACCA
 AGGTAGTATTGAACTGGGCTGTTCCGATTTTTATCAAACCTTCTAATCTGAACATGAAGATGTTCA
 GGAACAGGCTGTTGGGCACTTGGTAATATTGCTGGTGACAATGCAGAATGCAGAGATTTGTTTTGAAT
 TGTGAAATACTCCACCTCTTTAGAGTTATTAACAAATTCAAACAGACTCACAACAACAAGAAATGCCG
 TGTGGGCCCTCTCAAATTTATGTAGAGGCAAAAACCTCTCCAAACTTTAGTAAGGTTTACCTTGCTT
 AAATGCTCTGTCACGACTGTTGTTTAGCAGTGACCCAGATGTGTTAGCAGACGTGTGTTGGGCCCTTTCT
 TATCTCTCCGATGGACCAATGATAAAATTCAGCAGTCATTGATTCTGGAGTCTGTGCAAGATTGGTGG
 AACTTTTGATGCACAATGATTATAAAGTTGTATCACCTGCATTAAGGGCAGTTGGTAATATTGTGACTGG
 TGATGATATTCAAACACAGGTAATTTGAATTGTTCTGCATTACCTGTCTTACATTTATTGAGTAGC
 CCAAAGGAGTCAATTAGAAAAGAAGCCTGCTGGACTGTTTCTAACATCACTGCTGGAAATAGAGCTCAGA
 TTCAGGCTGTTATAGATGCAAATATTTTCTGTTTGGATTGAGATTCTTCAGAAAGCAGAGTTTCGTAC
 CAGAAAAGAAGCAGCTTGGGCTATAACTAATGCAACATCAGGAGTACTCCAGAGCAAATAAGGTATTTG
 GTAGCTTTAGGCTGCATTAACCACTTTGTGATCTTTGACTGTTATGGACTCCAAAATAGTCCAAGTGG
 CTTTAAATGGACTTGAAAATATTTTACGCTTGGAGAACAAGAATCTAAGCAGAATGGAATAGGCATTAA
 TCCATACTGTGCTCTCATTGAAGAAGCATATGGTCTGGATAAAATGAGTTTTTGCAAAGCCATGAAAAT
 CAGGAAATTTACCAGAAGGCATTTGATCTGATTGAACATTACTTTGGTGTAGAAGAAGATGACCCAGCA
 TTGTACCTCAGGTGGATGAAAACCAACAACAGTTTATATTTTCAGCAGCAGGAAGCACAATGGATGGATT
 TCAACTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208204 representing NM_002269
 Red=Cloning site Green=Tags(s)

MDAMASPGKDNYRMKSYKNKALNPQEMRRRREEEGIQLRKQKREEQLFKRRNVYLPNDESMLESPIQDP
 DISSTVPIPEEEVVTDDMVQMIFSNADQQLTATQKFRKLLSKEPNPIDQVIQKPGVVQRVFKFLERNE
 NCTLQFEAAWALTNIASGTFLHTKVVIETGAVPFIKLLNSEHEDVQEAVWALGNIAGDNAECRDFVLN
 CEILPPLLELLTNSNRLTTRNAVWALSNLCRGNPPPNF SKVSPCLNVLSRLLFSSDPDVLADVCWALS
 YLSDGPNDKIQAVIDSGVCRRLVELLMHNDYKVVSPALRAVGNIVTGDDIQTQVILNCSALPCLLHLLSS
 PKESIRKEACWTVSNITAGNRAQIQAVIDANIFPVLIEILQKAERTRKEAAWAITNATSGGTPEQIRYL
 VALGCIKPLCDLLVMDSKIVQVALNLENILRLGEQESKQNGIGINPYCALIEEAYGLDKIEFLQSHEN
 QEIYQKAFDLIEHYFGVEEDDPSIVPQVDENQQQFIFQQQEAPMDGFQL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002269

ORF Size: 1617 bp

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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_002269.3](#)

RefSeq Size: 2172 bp

RefSeq ORF: 1620 bp

Locus ID: 3841

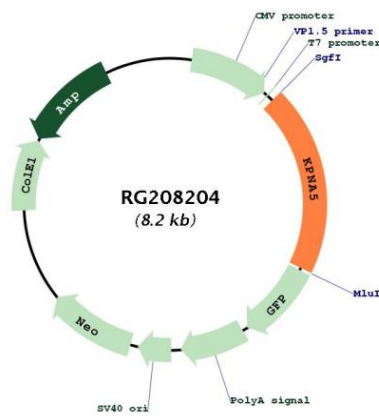
UniProt ID: [O15131](#)

Cytogenetics: 6q22.1

Domains: Armadillo_seg, IBB

Gene Summary: 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]

Product images:



Circular map for RG208204