

Product datasheet for **RG227373**

KPNA7 (NM_001145715) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KPNA7 (NM_001145715) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KPNA7
Synonyms:	IPOA8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227373 representing NM_001145715
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCCGACCTTAGATGCTCCAGAAGAGAGCGGAGAAAAATTTAAGTACCGAGGCAAAGATGTGTCTCTGA
 GGCAGACAGCAGAGGATGGCGGTCACTCTGGAGCTCCGAAAGGCCAAGAAAGATGAACAGACCTTAAAGAG
 AAGGAATATCACGAGCTTCTGCCCTGACACACCTTCTGAAAAACAGCCAAAGGGGTGGCGGTACGCCTC
 ACTCTGGGTGAAATAATCAAAGGTGTGAATAGCTCAGATCCAGTCTATGTTTCCAGGCCACCCAGACAG
 CCAGGAAATGCTATCCAGGAAAGAACCCCTCTGAAACTGGTCATTGAAGCGGGCCTATTCCAG
 GATGGTGGAGTTCCTGAAGTCATCACTTTACCCCTGCTTGCAGTTTGAAGCTGCCTGGGCCCTGACCAAC
 ATCGTTTCAGGGACTTCGGAGCAGACTCGTGCCGTGGTAGAAGGGGGAGCCATCCAGCCCTTGATTGAGC
 TCCTGTCTTCTCCAACGTGGCTGTGTGTGAACAGGCAGTGTGGCTCTTGGTAATATAGCCGGTATGG
 CCCAGAGTTCAGAGATAACGTCAACAGCAATGCCATCCACATCTCCTAGCCTTGATTTACCCACC
 CTGCCGATCACATTTCTGCGGAACATCACGTGGACCTTGTGCAATCTGTGCCGAAACAAGAACCCATACC
 CTTGCGCACTGCGGTGAAGCAGATACTGCCGGCCCTCCTTACCTCCTGCAGCACCAGGACAGTGAGGT
 TCTCTCGGATGCCTGCTGGGCACTGTCTACCTACCGACGGCTCCAACAAGCGCATCGGCCAAGTGGT
 AACACGGGGTCTGCCAGGCTGGTAGTGCTCATGACCAGCTCAGAAGTCAATGTCTTGACTCCTTCTC
 TCCGCACCGTGGGGAACATTGTACGGGCACAGATGAGCAGACGAGATGGCCATTGATGCGGGTATGCT
 GAACGTGCTCCCCAGCTCCTGCAACACAACAAGCCCTCCATCCAGAAGGAGGACGCTGGGCCCTGAGC
 AACGTAGCAGCGGGGCTTGTACCACATCCAGCAGCTGCTTGCCTACGACGTCTTGCCTCCCTTGGTGG
 CTCTGCTAAAAACGGAGAATTTAAAGTCCAGAAAGAGGCTGTCTGGATGGTGGCAACTTTGCAACAGG
 GGCCACCATGGATCAGCTGATCCAGCTCGTCCACTCTGGGGTCTGGAGCCACTGGTGAATCTGCTCACT
 GCCCCAGATGTTAAATTTCTCATCATCTTGTATGTCATCTTGCATCCTCCAGGCGGCAGAGAAAC
 GGTCTGAGAAGGAAAACCTGTGTCTTCTGATAGAAGAACTTGGTGGGATCGATAGAATTGAGGCTTTACA
 GCTGCATGAGAACCGTCAAATTGGCCAGTCGGCTTTGAACATCATCGAGAAGCACTTTGGTGAGGAAGAA
 GATGAGAGCCAACTTTACTGAGCCAAGTCATAGACCAAGATTATGAATTTATAGATTATGAATGCTTAG
 CAAAAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227373 representing NM_001145715
 Red=Cloning site Green=Tags(s)

MPTLDAPEERRRKFYRGKDVSLRRQQRMAVSLELRKAKKDEQTLKRRNITSFCPDTPSEKTAKGVAVSL
 TLGEIIGVNSSDPVLCFQATQTARKMLSQEKNPPLKLVEAGLIPRMVEFLKSSLYPCLQFEAAWALTN
 IASGTSEQTRAVVEGGAIQPLIELLSSSNVAVCEQAVWALGNIAGDGPEFRDNVITSNAIPHLLALISPT
 LPITFLRNITWTLNLNRKNPYPCTAVKQILPALLHLLQHQSSEVLSDACWALSYLTDGSNKRIGQVV
 NTGVLPRLVVLTSSSELNVLTSLRVTGNIVTGTDEQTMADAGMLNVLPQLLQHNKPSIQKEAAWALS
 NVAAGPCHHIQQLLAYDVLPLVALLKNGEFKVQKEAVWMVANFATGATMDQLIQLVHSGVLEPLVNLLT
 APDVKIVLIILDVISCILQAAEKREKENLCLLIEELGGIDRIEALQLHENRQIGQSALNIEKHFGEED
 DESQTLTSQVIDQDYEFIDYECLAKK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001145715

ORF Size: 1548 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_001145715.3](#)

RefSeq Size: 1689 bp

RefSeq ORF: 1551 bp

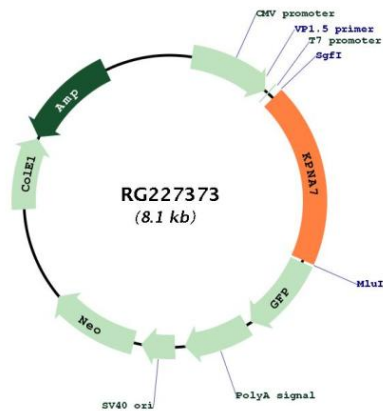
Locus ID: 402569

UniProt ID: [A9QM74](#)

Cytogenetics: 7q22.1

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. Small molecules (up to 70 kD) can pass through the nuclear pore by nonselective diffusion while larger molecules are transported by an active process. The protein encoded by this gene belongs to the importin alpha family, and is involved in nuclear protein import, but exhibits different nuclear localization signal binding specificity compared to other members of the family. A pseudogene of this gene has been defined on chromosome 5. [provided by RefSeq, Jul 2016]

Product images:


Circular map for RG227373