

Product datasheet for **RG207314**

KPNA3 (NM_002267) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KPNA3 (NM_002267) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KPNA3
Synonyms:	hSRP1; IPOA4; SRP1; SRP1gamma; SRP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207314 representing NM_002267
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCGAGAACCCAGCTTGGAGAACCACCGCATCAAGAGCTTCAAGAACAAGGCCGCGATGTGGAAA
 CAATGCGAAGACATAGAAATGAAGTGACAGTGGAACTGCGGAAGAACAAAAGAGATGAACACTTATTGAA
 AAAGAGAAATGTTCCCAAGAAGAAAGTCTAGAAGATTAGATGTTGATGCTGATTTTAAAGCACAAAAT
 GTAACCCTAGAAGCTATATTGCAGAATGCCACAAGTGATAACCCAGTGGTCCAATTGAGTGTGTCCAGG
 CAGCAAGAAAAGTGTATCCAGTGACAGAAATCCACCGATTGATGACTTAATAAAATCTGGGATTTTACC
 AATTCTAGTCAAATGTCTAGAAAGGGATGATAATCCTTCATTACAGTTTGAAGCTGCTGGGCATTAAC
 AACATAGCATCAGGAACCTTGCACAGACTCAAGATATTGTGCAGTCTAATGCAGTACCTCTTTTCTGA
 GACTTCTCGTTCACCACATCAGAAATGTTTGTGAACAAGCAGTATGGGCTTTGGGAAACATTATAGTGTA
 TGGTCCTCAATGTAGAGATTATGCATATCACTGGGAGTTGTCAAACCTCTTCTGTCCTTCATCAGTCCC
 TCCATCCCATCACCTTCTTCCGGAACGTACATGGGTCAATTGTCAATCTCTGCAGGAATAAGGATCCCC
 CACCGCTATGGAGACAGTTCAGGAGATTTTGCCAGCTTTATGTGTCTCATATACCATACAGATATAAA
 CATTCTTGTAGACACTGTTTGGGCTCTGTCACTTGACAGATGGAGGTAATGAACAGATACAGATGGTT
 ATTGATTCAGGAGTTGTGCCCTTCTTGTGCCCTTCTGAGCCATCAGGAAGTCAAAGTTCAAACAGCAG
 CCCTCAGAGCAGTTGGCAACATAGTGACTGGCACCCGACGAGCAGACCCAGGTTGTCTCAATTGTGATGT
 CCTGTCACACTTCCAAAATCTCTTATCACACCCAAAAGAGAAGATAAATAAGGAAGCAGTGTGGTTCCCT
 TCCAACATAACAGCAGGCAACCAGCAACAAGTTCAAGCTGTAATAGATGCTGGATTAATTCCTATGATAA
 TTCATCAGCTTGCTAAGGGGGACTTTGGAACACAAAAGAAGCTGCTTGGGCAATCAGCAACTTAAACAT
 AAGTGGCAGAAAAGATCAGGTTGAGTACCTTGTACAGCAGGATGTAATACCACCGTTCTGTAAATTTACTG
 TCAGTGAAGATTCTCAAGTGGTTCAGGTGGTCTAGATGGTCTAAAAAACATTCTGATAATGGCCGGTG
 ATGAAGCAAGCACAATAGCTGAAATAATAGAGGAATGTGGAGTTTGGAGAAAATTGAAGTTTTACAGCA
 ACATGAAAATGAAGACATATATAAATTAGCATTGAAATCATAGATCAGTATTTCTCTGGTGATGATATT
 GATGAAGATCCCTGCCTCATTCTGAAGCAACACAAGGAGGTACCTACAATTTTGATCCAACAGCCAACC
 TTCAAACAAAAGAATTTAATTTT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG207314 representing NM_002267
 Red=Cloning site Green=Tags(s)

MAENPSLENHRIKSFKNKGRDVTMRRHRNEVTVELRKNKRDEHLLKKNVQPQEELEDSDVDADFKAQN
 VTLEAILQNATSDNPVVQLSAVQAARKLLSSDRNPPIDDLIKSGILPILVKCLERDDNPSLQFEAAWALT
 NIASGTSAQTDIVQSNVPLFLRLLRSPHQNVCEQAVWALGNIIGDGPQCRDYVIVSLGVKPLLSFISP
 SIPITFLRNVTWVIVNLCRNKDPMPMETVQEILPALCVLIYHTDINILVDTVWALSYLTDGGNEQIQMV
 IDSGVVPFLVPLLSHQEVKVTAAALRAVGNIVTGTDEQTQVVLNCDVLSHFQNLISHPKEKINKEAVWFL
 SNITAGNQVQVAVIDAGLIPMIHQKAGDFGTQKEAAWAISNLTISGRKDQVEYLVQQDVIPFCNLL
 SVKDSQVVQVLDGLKNILIMAGDEASTIAEIIIECGGLEKIEVLQHENEDIYKLAFEIIDQYFSGDDI
 DEDPCLIPPEATQGGTYNFDPTANLQTKENF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_002267

ORF Size: 1563 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_002267.2](#), [NP_002258.2](#)

RefSeq Size: 4471 bp

RefSeq ORF: 1566 bp

Locus ID: 3839

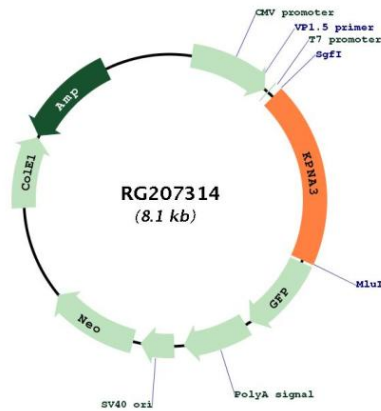
UniProt ID: [O00505](#)

Cytogenetics: 13q14.2

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. 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. [provided by RefSeq, Jan 2009]

Product images:



Circular map for RG207314