

Product datasheet for **RR215275**

Kpna2 (NM_053483) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kpna2 (NM_053483) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kpna2
Synonyms:	importin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR215275 representing NM_053483
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCACCAATGAGAATGCTAACTCAACAGCTGCCCGGTTAACAGATTCAAGAACAAGGGGAAAGACA
 GTACAGAAATGCGGCGCCGCGGAATAGAGGTTAATGTGGAACCTTAGGAAAGCTAAAAAGATGACCAGAT
 GCTGAAAAGGAGGAATGTCAGCTCATTCCCTGATGACGCTACTTCTCCACTACAGGAAAACCGAAACAAC
 CAGGGTACTGTAAATGGTCTGTGAGGACATTGTTAAAGGCATAAACAGTAACAATTTGGAAAGCCAGC
 TCCAAGCTACTCAAGCTGCTCGGAACTGCTTTCAAGAGAGAAGCAGCCTCCTATAGACAACATCATCCG
 GGCTGGTTTATCCAAAATTTGTGCTTCTTGGGCAAAACGGATTGTAGTCCCATTAGTTTGAATCT
 GCTTGGGCGCTACCAACATTGCTTCTGGAACATCCGAACAGACCAAGCTGTGGTGGATGGAGGTGCTA
 TCCAGCATTTATTTCTCTTGGCGTCGCCCCATGCTCACATCAGCGAGCAAGCTGTGTGGCTCTTGG
 AAACATTGCAGGTGATGGCTCAGTTTTCCGAGACTTGGTTATCAAACATGGTGAATTGACCCACTGTTG
 GCACTTCTCGCAGTTCCTGATCTGTCTCCTTGGCATGTGGTACTTGGCGAATCTTACCTGGACACTTT
 CAAACCTCTGTCGGAACAAGAATCCCGCACCCCTTAGATGCTGTTGAGCAGATCCTTCTACTCTAGT
 TCGACTCTACACCACAACGATCCAGAAGTATTAGCAGACTCTGCTGGGCCATTTCTATCTGACTGAT
 GGGCCGAATGAGCGCATCGAGATGGTTGTGAAGAAGGGAGTTGTTCCCAACTGTGAAGCTTTTAGGAG
 CTACTGAACTGCCATTGTGACGCCGCGCACTGAGAGCCATAGGGAATATTGTCACCGGAACAGATGAACA
 GACTCAGAAAGTGATCGATGCAGGGCACTTGCAGTCTTCCAGCCTGCTGACAAACCCAAAACTAAT
 ATTCAGAAGGAGGCCACATGGACAATGTCGAACATTACCGCCGGGCGCCAGGACCAGATACAGCAAGTGG
 TGAATCACGGCCTCGTCCATTTCTCGTTGGTCTCTCTAAGGCAGACTTTAAGACACAGAAGGAAGC
 CGCATGGCTATAACCAACTACACCAGCGCGGACTGTTGAACAGATTGTGTATCTGGTTCATTGTGGA
 ATAATAGAACCCTTGATGAACCTCTGAGTGCAAAAGATACAAAATTATTCAGGTTATTCTTGATGCTA
 TTTCAAATATCTTTCAGGCTGCAGAGAACTAGGTGAGACAGAAAACTCAGTATAATGATTGAAGAGTG
 TGGAGGCTTGGATAAAATTGAAGCCCTACAGAGCCATGAGAACGAGTCTGTGTACAAGGCCTCGTTGAAC
 CTAATTGAGAAGTACTTCTCAGTGGAGGAAGAGGAAGTCAAAATGTGGTGCCAGAACTACCTCTGAAG
 GCTTCGCCTTCAAGTTCAGGATGGAGCTCCCGGACCTTAACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215275 representing NM_053483
 Red=Cloning site Green=Tags(s)

MSTNENANSTAARLNRFKNKGKDSTEMRRRIEVNVELRKAKKDDQMLKRRNVSSFPDDATSPLQENRNN
 QGTVNWSVEDIVKGINSNLSQLQATQAARKLLSREKQPPIDNIRAGLIPKFVSFLGKTDGSPIQFES
 AWALTNIASGTSEQTKAVVDGGAIPIAFISLLASPHAHISEQAVWALGNIAGDGSVFRDLVIKHGAIDPLL
 ALLAVPDLSSLACGYLRNLTWLNLNRNKNPAPPLDAVEQILPTLVRLHHNDPEVLADSCWAIISYLT
 GPNERIEMVVKGVVPLVYKLLGATELPIVTPALRAIGNIVTGTDEQTQKVIDAGALAVFPSLLTNPKTN
 IQKEATWTMSNITAGRQDIQQVYVNHGLVPFLVGVLSKADFKTQKEAAWAITNYTSGGTVEQIVYLVHCG
 IIEPLMNLISAKDTKIIQVILDAISNIFQAAEKLGETEKL SIMIEECGLDKIEALQSHENESVYKASLN
 LIEKYFSVEEEDQNVVPETTSEGFQVQDQVQDGFNF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

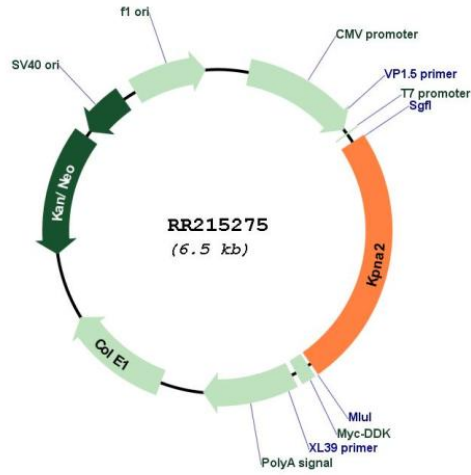
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_053483
ORF Size:	1587 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:	<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_053483.2 , NP_445935.2
RefSeq Size:	1977 bp
RefSeq ORF:	1590 bp
Locus ID:	85245
Cytogenetics:	10q32.1
MW:	57.8 kDa
Gene Summary:	receptor which binds to Glut2; participates in nuclear import [RGD, Feb 2006]