

## Product datasheet for RC215167

### Importin 8 (IPO8) (NM\_006390) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Importin 8 (IPO8) (NM_006390) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Importin 8
Synonyms:	RANBP8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC215167 representing NM_006390 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCTCAACCGGATCATCCAGGCGCTGAAGGGCACCATCGACCCGAAGTTGCGGATTGCAGCCGAGA  
ACGAGCTCAACCGAGTCTACAAGATTATCAATTTGCCCCAGTTTACTTCGGATTATAGTCTCTGACCA  
TGTGGAATCCCAGTACGACAGGCAGCTGCCATTTACCTGAAGAACATGGTGACACAATACTGGCCAGAT  
CGAGAACCTCCACCAGGAGAAGCAATATTTCCATTCAACATTCAGAAAACGATCGCCAGCAAATACGTG  
ATAACATTGTGGAAGGAATAATTCGGTCTCCAGATTTAGTGAGAGTCCAATTAACAATGTGTCTCCGTGC  
CATCATAAAACATGATTTTCTGGTCACTGGCCAGGAGTGGTCGACAAGATAGACTATTACTTGCAATCA  
CAGAGCAGTGCAAGCTGGCTTGGCAGTTTATTATGCCTGTATCAACTGGTGAAGACATATGAATATAAGA  
AAGCAGAAGAGAGAGAACCTCTTATAATAGCAATGCAGATATTCCTGCCTCGTATTCAGCAACAAATTTGT  
TCAGCTCCTTCTGATTCTCCTATTATTCTGTATTACTGCAGAAACAAATCTGAAAATCTTTTATGCA  
CTTGTTTCAGTATGCATTGCCTCTCAGCTAGTGAATAACCAACCATGACAACATGGATGGAGATCTTCC  
GAACTATTATCGACAGGACCGTTCCTCCTGAGACTCTGCACATTGATGAGGATGATAGACCAGAAGTGGT  
ATGGTGAAGTGAAGAAGTGGGCACTGCATATGTAGCTCGGCTCTTTGAACGATATGGAAGCCAGGA  
AATGTCACAAAAGAATACTTTGAATTTCTGAATTCCTTTTGAACCTATGCAGTGGCATTGAGCAGG  
TGCTACTAAAAATTTTAGATCAATATAGACAGAAAGAATATGTAGCTCCCGTGTCTTCAGCAAGCATT  
CAACTATCTCAACCAAGGGTGGTTCACTTATAACCTGGAAGCAGATGAAGCCACACATACAGAATATC  
TCTGAAGATGTGATTTTTCTGTGATGTGTATAAAGATGAGGATGAAGAGCTGTGGCAAGAAGATCCAT  
ATGAGTATATAAGGATGAAATTTGATATTTTTGAAGATTATGCTTCTCCACCACAGCAGCCAGACTCT  
CTTATATACTGCTGCAAAGAAAAGAAAAGAGGTGTTGCCAAAAATGATGGCATTCTGTTATCAAATCCTG  
ACAGACCCGAACCTTGGCCCTAGGAAGAAAGATGGAGCCCTGCATGTGATTGGTTCCTAGCTGAGATTT  
TACTGAAGAAGAGTTTATTCAAGGACCAAATGGAGCTGTTTCTACAAAATCATGTATTTCCATTATTATT  
GTCTAACCTGGGATATCTCGAGCTAGATCTTGCTGGTACTTTCATGCATTTAGTCTTTGAAGTCCAT



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AATGAGCTCAATCTAAGAAATGCCGTTGAATTAGCGAAGAAGAGCCTGATTGAAGATAAAGAGATGCCTG  
TCAAAGTTGAAGCTGCCCTTGCTCTTCAGTCTTTAATTTCTAACCAGATACAAGCTAAGGAATATATGAA  
GCCACATGTGAGGCTATTATGCAGGAAGTGTGCACATTGTTAGAGAGACAGAAAATGATGATGTTACT  
AATGTCATCCAGAAGATGATATGTGAATACAGTCAAGAGGTAGCCTCAATTGCTGTTGATATGACCCAAC  
ACTTGGCTGAGATATTTGGCAAAGTCTTCAAAGTGTGAATATGAAGAAGTTGAAGACAAAACAGTAAT  
GGCTATGGGAATTTACATACCATTGATACTACTTAAACAGTTGTAGAAGATCATAAAGAGATTACCCAG  
CAGTTAGAGAATATCTGTCTACGGATCATTGATCTTGTCTGCAGAAACATGTAATTGAATCTATGAAG  
AAATTCCTTCCCTGGCATACAGTTTAACTGCCACAGTATTTCCCTCAAATGTGGCAGTTCTAGGTAT  
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AGGTACTATGTGGAGATGCAGGAGAAGATGCAGAGTGTGCATGCAGCTAACTTCTGGAAGTCATCATTCT  
TCAGTGCAAAGGAAGGGGAATTGATCAGTGCATCCACTCTCGTTCACTTGTGTTGGAGAGATTAAC  
CGAGGGGTCAAACACTAGTGAGCTTCGTAATGTGTCTCAGGTTGCAATTGCTGCCTGTACTACAACC  
CTGATTTGCTGCTACATACTTTAGAACGAATTCAGTTGCCTCACAAACCCTGGACCTATCACTGTACAGTT  
TATAAATCAATGGATGAATGATACAGATTGTTTTCTTGGGCATCATGACCGGAAGATGTGTATAATAGGA  
CTGAGTATCCTTTTGAATTGCAAAATCGACCTCCTGCAGTAGATGCTGTGGTGGACAGATTGTTCCCT  
CAATTCCTTTCTTTTCTTGGCCTAAAGCAGGCTGTGTACTAGACAACCTGGTAAACCGGAAGATCG  
TTCAAAGCAGAGAAAGCTGATATGGAAGAAAATGAGGAGATTTCAAGTGTGAAGAGGAGACAAATGTA  
ACTGCTCAAGCAATGCAGTCAAAATGGAAGAGGTGAAGATGAGGAGGAGGAAGATGATGACTGGGATG  
AAGAAGTATTGGAAGAAACCGCGCTTGGAGGGTTCAGTACTCCACTTGACCTTGACAATAGTGTGGATGA  
ATATCAGTTTTTACACAAGCTCTGATAACTGTGCAGAGTCGAGATGCAGCCTGGTACCAGCTGCTGATG  
GCACCACTCAGCGAGGATCAGAGGACAGCACTGCAGGAGGTGTACACACTGGCAGAGCACCAGCGGACGG  
TGGCAGAGGCAAAGAAGAAGATTGAACAACAGGGAGGCTTACCTTTGAAAACAAAGGAGTCTCTCCGC  
ATTTAATTTTGGGACTGTGCCAGCAACAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC215167 representing NM\_006390

Red=Cloning site Green=Tags(s)

MDLNRIIQALKGTIDPKLRIAAENELNQSYPKIIINFAPSLLRRIIVSDHVEFPVRQAAAIYLNKMMVTQYWPD  
REPPPGEAIFPFNIHENDRQQIRDNIIVEGIIIRSPDLVRVQLTMCLRAIIKHDFPGHWPVVDKIDYYLQS  
QSSASWLGSLCLYQLVKTYEYKKAEREPLIIAMQIFLPRIQQQIVQLLPDSSYYSVLLKQKILKIFYA  
LVQYALPLQLVNNQMTTWMEIFRTIIDRTVPPETLHIDEDDRPELVVWCKKWLHIVARLFERYGSPG  
NVTKEYFEFSEFFLKTYAVGIQQVLLKILDQYRQKEYVAPRVLQAFNYLNQGVVHSITWKQMKPHIQNI  
SEDVIFSVMCYKDEDEELWQEDPYEYIRMKFDIFEDYASPTTAAQTLLYTAACKRKEVLPKMMAFQYQIL  
TDPNFDPRKKDGLHVIIGSLAEILLKSLFKDQMEFLQNHVFPLLLNLGYLRARSCWVLFHAFSSLKFKH  
NELNLRNAVELAKKSLIEDKEMPVKVEAALALQSLISNQIQAKEYMKPHVRPIMQELLHIVRETENDVT  
NVIQKMICESQEVASIAVDMTQHLAEIFGKVLQSDYEYEVEDKTYMAMGILHTIDTILTVVEDHKEITQ  
QLENICLRIIDLVLQKHVIEFYEEILSLAYSLTCHSISPMWQLLGILYEVFQQDCFEYFTDMMPLLNHY  
VTIDDTLLSNAKHLEILFTMCRKVLCDGAGEDAECHAAKLLEVIILQCKGRGIDQCIPLFVQLVLERLT  
RGVKTSELRTMCLQVAIAALYYPDLLHTLERIQLPHNPGPITVQFINQWMNDTDCFLGHHRKMCIIIG  
LSILLELQNRPPAVDAVVGQIVPSILFLFLGLKQVCATRQLVNREDRSKAEKADMEENEEISSDEEETNV  
TAQAMQSNNGRGEDEEEEDDDWDEEVLEETALEGFSTPLDLDNSVDEYQFFQALITVQSRDAAWYQLLM  
APLSEDRQRTALQEYVYTLAEHRRTVAEAKKKIEQQGGFTFENKGVLSAFNFGTVPSNN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8027\\_d07.zip](https://cdn.origene.com/chromatograms/mk8027_d07.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_006390

**ORF Size:** 3111 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_006390.4](#)

**RefSeq Size:** 5178 bp

**RefSeq ORF:** 3114 bp

**Locus ID:** 10526

**UniProt ID:** [O15397](#)

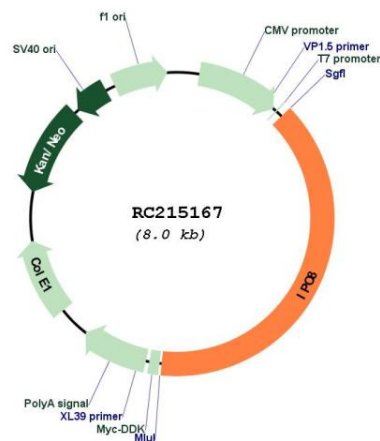
**Cytogenetics:** 12p11.21

**Domains:** IBN\_NT

**MW:** 119.8 kDa

**Gene Summary:** The importin-alpha/beta complex and the GTPase Ran mediate nuclear import of proteins with a classical nuclear localization signal. The protein encoded by this gene is a member of a class of approximately 20 potential Ran targets that share a sequence motif related to the Ran-binding site of importin-beta. This protein binds to the nuclear pore complex and, along with RanGTP and RANBP1, inhibits the GAP stimulation of the Ran GTPase. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2010]

## Product images:



Circular map for RC215167