

Product datasheet for **RC215943**

Importin 7 (IPO7) (NM_006391) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Importin 7 (IPO7) (NM_006391) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Importin 7
Synonyms: Imp7; RANBP7
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC215943 representing NM_006391
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACCCCAACACCATTATCGAGGCCCTGCGGGGCACCATGGACCCAGCCCTGCGTGAGGCCGCGGAGC
 GCCAGCTCAATGAAGCACACAAGTCTCTGAATTTGTCTCAACACTGCTCCAGATTACTATGTGCGGAACA
 GCTGGATTTACCTGTGAGACAGGCAGGTGTTATCTATCTGAAAAATATGATAACACAGTATTGCCCTGAT
 CGAAGAACAGCACCAGGGATATATCCCCTTATACTATCCAGAAGAAGATCGCCATTGTATTGAGAAA
 ATATTGTAGAAGCCATTATCCATTCTCCTGAGCTCATCAGGGTACAGCTTACTACATGCATTCATCAT
 CATCAAACATGATTATCCAAGCCGCTGGACTGCCATTGTGGACAAAATTGGCTTTTATCTTCAGTCCGAT
 AACAGTGCTTGTGGCTAGGAATCTTCTTTGCCTTTATCAGCTTGTGAAAAATTATGAGTAAAAAAAC
 CAGAGGAGCGGAGTCCATTGGTAGCAGCAATGCAGCATTTTCTGCCAGTTCTAAAGGATCGTTTTATCCA
 GCTTCTTCTGACCAGTCTGATCAGTCTGTCTCATCCAGAAACAGATATTCAAGATCTTCTATGCTCTT
 GTTCAGTATACACTACCACTGGAAGTATAAACCAACAGAACCTGACAGAATGGATAGAAATTTAAAGA
 CTGTTGTGAACAGGGATGTACCTAATGAAACACTTCAAGTTGAAGAAGATGATCGACCTGAGTTACCATG
 GTGGAAATGCAAGAAGTGGCCCTACATATTTTAGCAAGACTTTTTGAAAGATATGGAAGCCCTGGCAAT
 GTTCCAAAGGATATAATGAATTTGCTGAAGTATTTCTGAAGGCATTTGCTGTTGGTGTCCAGCAAGTTT
 TATTGAAGGTGTTATATCAGTACAAGGAGAAGCAATATATGGCTCCTCGAGTTTTACAACAGACATTA
 TTATATTAATCAAGGAGTTTCTCATGCTCTCACCTGGAAGAATCTGAAGCCCATATACAAGGCATTATC
 CAAGATGTTATTTTCCATTGATGTGCTATACAGATGCTGATGAGGAACCTTGGCAAGAAGACCCTTACG
 AATATATACGCATGAAGTTTGTGTGTTGAAGATTTCTTTCTCCTACCACTGCTGCCAGACACTTTT
 GTTTACAGCCTGTAGTAAGAGGAAAGAGGACTGCAAAAGACTATGGGATTTTGTACCAGATTCTTACA
 GAACCAATGCTGACCCTCGAAAAAAGATGGAGCCCTGCATATGATTGGCTCTTAGTCAAATACTTC
 TGAAGAAAAAGATCTATAAAGATCAGATGGAATACATGTTGCAGAATCATGATTCCTCTCTTCAGCAG
 TGAAGTACTGATGAGAGCAAGGGCTTCTGGTACTTCACTATTTTTGTGAAGTGAAGTTCAAAGT



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GATCAGAACCTTCAAACAGCCTTAGAGCTAACAAAGAAGATGTCTGATTGATGATAGAGAAATGCCTGTGA
 AAGTGGAAAGCTGCCATTGCCCTTCAAGTATTGATCAGCAATCAAGAAAAAGCTAAAGAATATATCACACC
 ATTCATCAGACCTGTAATGCAGGCTCTTCTTACATTATAAGAGAAAACAGAAAATGATGACCTTACCAAT
 GTAATTCAGAAAATGATCTGTGAATATAGTGAAGAAGTACTCCTATTGCAGTAGAAATGACACAACATT
 TGGCAATGACATTTAACCAAGTAATCCAGACGGGGCCAGATGAAGAAGGTAGTGTGACAAAAGCAGTTAC
 TGCTATGGGAATCTGAATACAATTGATACACTTCTTAGTGTAGTTGAAGATCATAAAGAGATAACCCAA
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 AGATCTTCTCTTAGCGCACAGTTTGACATGTCAACAAGTGTCTCCACAGATGTGGCAGCTACTACCCCT
 TGTATTTGAAGTCTTTCAGCAAGATGGCTTTGATTACTTTACAGATATGATGCCCTCCTTCATAATTAT
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 AGGTTCTTACAGGAGTTGCAGGAGAAGATGCAGAGTGTGATGCAGCAAAATGTTAGAGGTCATCATTCT
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 AGAGAGGTTAAGACAAGTGAACCTCGAATATGTGTCTGCAAGTGAATGCAGCTTTGTATTATAATC
 CACACCTACTACTCAATACCTTAGAAAACTTCGCTTCCCTAATAATGTTGAACAGTTACAATCATT
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 CTTTTATCCTTTATTTAACGGATTGAAAAGAGCATATGCCTGCCATGCAGAATGAGAATGACAGTGA
 TGATGATGATGAAGCTGAAGATGATGATGAAACCGAGGAACTGGGGAGTGAAGATGATATTGATGAA
 GATGGCAAGAATATTTGGAGATTCTGGCTAAGCAGGCTGGTGAAGATGGAGATGATGAAGATTGGGAAG
 AAGATGATGCTGAAGAGACTGCTCTGGAAGGCTATTCCACAATCATTGATGATGAAGATAACCCCTGTTGA
 TGAGTATCAGATATTTAAAGCTATCTTCAAACATTTCAAATCGTAATCCTGTGTGGTATCAGGCCTG
 ACTCAGGCTTAATGAAGAACAAGAAAACAGTTACAGGACATAGCAACTCTGGCTGATCAAAGAAGAG
 CAGCCCATGAATCCAAAATGATTGAGAAGCATGGAGGATACAAAATTCAGTGTCCAGTTGTGCCAAGTTC
 TTTCAATTTTGGAGGCCAGCACCAGGGATGAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215943 representing NM_006391

Red=Cloning site Green=Tags(s)

MDPNTIIEALRGTMDPALREAAERQLNEAHKSLNFVSTLLQITMSEQLDLPVRQAGVIYLNKMITQYWP
 RETAPGDISPYTIPEDRHCIRENIVEAIIHSPELIRVQLTTCIHIIKHDYPSRWTAIVDKIGFYLQSD
 NSACWLGILLCLYQVKNYEYKKPEERSPLVAAMQHFLPVLKDRFIQLLSDQSDQSVLIQKQIFKIFYAL
 VQYTLPELINQNLTEWIEILKTVVNRDVPNETLQVEEDDRPELPWWKCKKWLHILARLFERYGSPGN
 VSKEYNEFAEVFLKAFVGVQVLLKVLQYKEKQYMAPRVLQQTNLNYINQGVSHALTWKNLKPHIQGII
 QDVIFPLMCYTDDEELWQEDPYEYIRMKFDVFEDFISPTTAAQTLLFTACSKRKEVLQKTMGFCYQILT
 EPNADPRKKDGALHMIGSLAEILLKKKIYKQMEYMLQNHVFPPLFSSSELYMRARACWVLFHYFCEVKFKS
 DQNLQTALERTRRCLIDDREMPVKVEAIALQVLI SNQEKAKEYITPFI R PVMQALLHI IRETENDDLTN
 VIQKMICEYSEEVTPIAVEMTQHLAMTFNQVIQTGPDEEGSDDKAVTAMGILNTIDTLLSVVEDHKEITQ
 QLEGICLQVIGTVLQQHVLEFYEEIFSLAHSITCQQVSPQMWQLLPLVFEVFDQDGFDFYTDMMPLLNHY
 VTVDLDTLLSDTKYLEMIYSMCKKVLTVGAGEDAECHAAKLLEVIILQCKGRGIDQCIPLFVEAALERLT
 REVKTSELRTMCLQVAIAALYYNPHLLLNTLENLRFNNVEPVTNHFITQWLNVDVDFLGLHDKRMCVLG
 LCALIDMEQIPQVLNQVSGQILPAFILLFNGLKRAYACHAEHENDSDDDEAEEDDETEELGSEDDIDE
 DGQEYLEILAKQAGEDGDDEDWEEDDAEETALEGYSTIIDDEDNPVDEYQIFKAIQTIQNRNPVWYQAL
 THGLNEEQRKQLQDIATLADQRRAAHESKMIIEKHGGYKFSAPVVPSSFNFGGPAPGMN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2702_g04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_006391

ORF Size: 3114 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 or by calling 301.340.3188 option 3 for pricing and delivery.

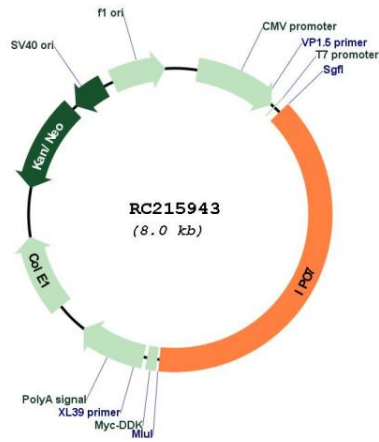
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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).

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|-------------------------------|--|
| 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_006391.2 |
| RefSeq Size: | 3557 bp |
| RefSeq ORF: | 3117 bp |
| Locus ID: | 10527 |
| UniProt ID: | O95373 |
| Cytogenetics: | 11p15.4 |
| Domains: | IBN_NT |
| Protein Families: | Druggable Genome |
| MW: | 119.3 kDa |
| Gene Summary: | <p>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. Similar to importin-beta, this protein prevents the activation of Ran's GTPase by RanGAP1 and inhibits nucleotide exchange on RanGTP, and also binds directly to nuclear pore complexes where it competes for binding sites with importin-beta and transportin. This protein has a Ran-dependent transport cycle and it can cross the nuclear envelope rapidly and in both directions. At least four importin beta-like transport receptors, namely importin beta itself, transportin, RanBP5 and RanBP7, directly bind and import ribosomal proteins. [provided by RefSeq, Jul 2008]</p> |

Product images:



Circular map for RC215943