

Product datasheet for **SC318486**

Importin4 (IPO4) (NM_024658) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Importin4 (IPO4) (NM_024658) Human Untagged Clone
Tag:	Tag Free
Symbol:	Importin4
Synonyms:	Imp4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC318486 representing NM_024658. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGCATCGCC**
ATGGAGTCAGCCGGGCTAGAGCAGCTCCTACGGGAGCTGCTGCTACCGGACACCGAGCGCATCCGTCGG
GCCACGGAACAGCTCCAGATCGTTCTTCGGGCCCCCGCGCTTTGCCGGCTCTCTGCGACCTGCTAGCC
TCGGCGGCCGACCCAGATCCGCCAGTTTGGGCCGTGCTGACCCGACAGCAGCTGAACACCCGCTGG
CGACGGCTGGCGCGGAGCAACGGGAGAGCCTCAAGTCCCTGATCCTGACGGCCCTGCAGAGAGAAACA
GAGCACTGTGTAGCCTCAGCCTGGCCAGCTCTCAGCCACCATTTCGAAAGGAAGGCTTGGAGGCC
TGGCCACAGCTTTTGCAGCTGCTTCAGCACAGTACCCACAGCCCCACAGCCAGAGAGAGAGATGGGG
CTTTTGTCTGCTAAGTGTGGTGGTGACCTCCCGGCCGAGGCCCTCAACCCACACCGGGAGCTTCTT
CGGCTTCTGAATGAGACTCTTGGTGAGGTGGGCTCTCCTGGGCTGCTCTTCTACTCCCTGCGCACTCTG
ACCACCATGGCTCCCTACCTCAGCACTGAAGATGTGCCTCTCGCTCGGATGTTGGTGCCCAAGCTGATC
ATGGCCATGCAGACTCTGATCCCATAGATGAGGCAAAGGCTGTGAGGCCCTTGAGGCTTTGGATGAA
CTGTTGGAGTCAGAGGTGCCGTCATCACCCCTACCTCTCTGAAGTCTCACATTCTGCCTGGAGGTA
GCTAGAAATGTGGCCCTGGGCAATGCGATACGCATACGTATTCTCTGCTGCCTCACTTTCTTGGTCAAA
GTCAAGAGCAAGGCCCTTACTGAAGAATCGTCTCCTGCCACCCTTGCTGCACACCTTTTCCCCATTGTG
GCTGCTGAGCCCCACAGGCCAGTTGGATCCCGAGGACCAGGATTGAGAAGAGGAAGATTGGAGATT
GAGCTGATGGGGGAGACTCCCAAGCATTTCGCTGTACAAGTTGTGGACATGCTGGCACTACACCTGCC
CCCGAGAAGCTCTGTCCCGAGCTGATGCCCATGTTGGAAGAGGCTTTGCGGAGCGAGAGCCCATACCAG
CGCAAAGCTGGACTCCTGGTGCTGGCCGTGCTGTCTGACGGAGCTGGCGACCACATCAGGCAGAGACTG
CTGCCCCCACTGCTGCAGATTGTGTGCAAGGGCTGGAGGACCCCTCGCAAGTTGTACGCAATGCTGCG
CTGTTTGGCCCTGGGCCAGTTCTCAGAAAACCTACAGCCCCATATCAGCAGCTATTCAAGGGAGGTAATG
CCACTGCTCCTCGCTACTTGAAGTCGGTGCCTCTTGGACACACACCACCTAGCCAAGGCTGCTAT
GCCCTGGAGAATTTTGTGGAGAACCTAGGGCCCAAGGTGCAGCCCTACCTCCGGAGCTTATGGAATGC
ATGCTGCAGCTTCTGAGGAACCCAGCAGTCCCGGGCCAAGGAGCTGGCTGTGAGCGCCCTGGGAGCC



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ATTGCTACGGCTGCCAGGCCTCGCTGCTGCCCTACTTCCTGCCATCATGGAGCACCTGCGGGAATTC
 CTGTTAACAGGCCGTGAGGACCTTCAGCCTGTGCAGATCCAGAGCCTGGAGACACTGGGGGTGCTGGCA
 CGAGCAGTGGGGGAGCCCATGAGGCCGTGGCTGAGGAATGCTGCCAGCTGGGTCTGGGCTCTGCGAC
 CAGGTAGACGACCTGACTTGCGGCGTGACGTACAGCCTATTTGCAGCCTATCGGGTCTGATGGGT
 GAGGGCTGGCGCCCACTTGGAACAGATCACCACGCTCATGCTGCTGCTCACTGCGTTCCACCGAGGGC
 ATTGTGCCTCAGTATGACGGGAGCAGCTCCTTCCTTCTGTTTGACGATGAGAGTGATGGGAAGAAGAG
 GAGGAGCTCATGGATGAGGATGTGAAGAAGAGGATGACTCAGAGATCTCAGGGTACAGCGTGGAGAAT
 GCCTTCTTCGATGAGAAGGAAGACACCTGTGCTGCCGTGGGGGAGATCTCTGTGAACACCACTGTGGCC
 TTCCTTCCATACATGAAAGTGCTTTGAAGAAGTATTTAAACTGCTGGAGTGCCCTCACCTGAATGTG
 CGGAAGGCAGCCCATGAGGCTCTGGGTGAGTTTGTGTGCACTGCACAAGGCCTGTCAAAGCTGCCCC
 TCGGAACCAACACTGCTGCTTTGCAGGCTGCCCTGGCCGAGTCGTGCCATCCTACATGCAGGCAGTG
 AACAGGGAGCGGGAACGCCAGGTGGTGATGGCCGTGCTGGAGGCCCTGACAGGGGTGCTCCGCAGCTGT
 GGGACCTCACACTGAAGCCCCCTGGGCGCTCGCTGAGCTCTGTGGCGTGTCAAGGCTGTGCTGCAG
 AGGAAGACAGCCTGTGAGTACTGACGAGGAGGAGGAAGAGGAAGATGATGATCAGGCTGAATACGAC
 GCCATGTTGCTGGAGCAGCTGGAGAGGCCATCCCTGCCCTGGCAGCCGCGGCTGGGGGAGACTCCTTT
 GCCCCATTCTTTGCCGGTTTCTGCCATTATTGGTGTGCAAGACAAAACAGGGCTGCACAGTGCCAGAG
 AAGTCTTTGAGTGGGGACCTTGGCAGAGACTATTAGGGCCTGGGTGCTGCCTCAGCCAGTTTGTG
 TCTCGGCTGCTCCTGTGCTGTTGAGCACCGCCAAGAGGCAGACCCGAGGTGCGAAGCAATGCCATC
 TTCGGGATGGGCGTGCTGGCAGAGCATGGGGGCCACCCTGCCAGGAACACTTCCCAAGCTGCTGGGG
 CTCCTTTTCCCTCCTGGCGCGGGAGCGACATGATCGTGTCCGTGACAACATCTGTGGGGCACTTGCC
 CGCCTGTTGATGGCCAGTCCCACAGGAAACCAGAGCCCCAGGTGCTGGCTGCCCTACTGCATGCCCTG
 CCACTGAAGGAGGACTTGGAGGAGTGGGTACCACTTGGGCGCCTCTTCACTTCTGTACCAGAGCAGC
 CCTGACCAGGTTATAGATGTGGTCCCGAGCTTCTGCGTATCTGCAGCCTCATTCTGGCTGACAACAAG
 ATCCCACAGACACCAAGGCCGCACTGTTGCTGCTCCTGACGTTCTGGCCAAACAGCACCCGACAGC
 TTTCAAGCAGCTCTGGGCTCACTGCCTGTTGACAAGGCTCAGGAGCTCCAGGCTGTACTGGGCTCTCC
 TAG
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	Sgfl-MluI
ACCN:	NM_024658
Insert Size:	3246 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
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_024658.3](#)

RefSeq Size: 3606 bp

RefSeq ORF: 3246 bp

Locus ID: 79711

UniProt ID: [Q8TEX9](#)

Cytogenetics: 14q12

Domains: IBN_NT, HEAT_PBS

Protein Families: Druggable Genome

MW: 118.7 kDa

Gene Summary: Functions in nuclear protein import as nuclear transport receptor. Serves as receptor for nuclear localization signals (NLS) in cargo substrates. Is thought to mediate docking of the importin/substrate complex to the nuclear pore complex (NPC) through binding to nucleoporin and the complex is subsequently translocated through the pore by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to the importin, the importin/substrate complex dissociates and importin is re-exported from the nucleus to the cytoplasm where GTP hydrolysis releases Ran. The directionality of nuclear import is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus (By similarity). Mediates the nuclear import of RPS3A. In vitro, mediates the nuclear import of human cytomegalovirus UL84 by recognizing a non-classical NLS.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the shorter transcript.