

Product datasheet for **SC318459**

Importin 9 (IPO9) (NM_018085) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Importin 9
Synonyms:	Imp9
Vector:	<u>pCMV6 series</u>



Fully Sequenced ORF:

>NCBI ORF sequence for NM_018085, the custom clone sequence may differ by one or more nucleotides

ATGGCGGCGGCGGCGGCGAGCTGGTGC GGCCCTCCGGGCTGCCGGGTCCAGTGGCACAAGGA
TTAAAGGAAGCGTTAGTGGATACGCTCACC GGAGTCCTATCCCCAGTACAGGAGGTGCGG
GCGGCTGCTGAAGAACAGATTAAGGTGCTGGAGGTGACGGAGGAATTTGGTGTTCACTTG
GCAGAACTGACTGTAGATCCCCAGGGGGCACTGGCAATCCGTCAGCTGGCATCAGTCATC
TTGAAACAATATGTGGAGACTCACTGGTGTGCCAATCAGAGAAATTTAGGCCTCCTGAA
ACTACAGAAAGGGCAAAAATTGTTATCCGGGAGCTATTGCCTAATGGGTTGAGAGAAATCG
ATAAGCAAAGTGCCTCCAGTGTGGCTATGCAGTGTGAGCCATTGCCCACTGGGACTGG
CCTGAAGCTTGGCCCCAACTCTTCAACCTGCTCATGGAGATGTTGGTGAGCGGAGACTTA
AATGCCGTCATGGAGCCATGCGTGTGCTGACAGAAATCACTCGTGAAGTAACAGACACA
CAGATGCCACTTGTGCTCCTGTCATTCTCCAGAGATGTATAAGATCTTCAACCATGGCT
GAGGTGTATGGTATTGCAACCCGTTCCCGAGCCGTGGAGATTTTACCCTTGTGCCCAT
ATGATCTGTAAATGGAGGAGCTGAAAAGGGTGCAGCCAAAGTCTGATCTTTCCTG
GTACAGCAGTTCACAGAGGCCTTTGTTCAGGCCCTCCAGATACCAGATGGCCCCACATCT
GACAGTGGGTTTAAAGTGGAGGTCCTAAAGGCAGTGACAGCCCTAGTGA AAAAATTCCTCA
AAGCATGTGTCTCCATGCAGCAGATTCTGCCTATTGTTTGAACACCCTAACCAG
AGTGCAGCTTTTTATGTGAGGACAGAAGTAAATTACACAGAAGAAGTAGAAGATCCTGTG
GATTCTGATGGTGAAGTCTGGGCTTTGAAATCTCGTCTTTAGCATTTTGAATTTGTC
CATGCTCTACTAGAAAATAGCAAATCAAAGCACTGTTAAGAAAGCCTTGCCTGAATTG
ATTTATTATATTATCCTGTACATGCAAATCACTGAGGAGCAGATTAAGTATGGACAGCC
AACCCCCAACAAATTTGTAGAAGATGAAGATGATGATACATTCTCTATACTGTTAGAATA
GCAGCTCAAGACTTGTGCTGGCTGTGGCCACAGATTTCCAGAATGAAAGTGCAGCAGCC
CTGGCTGCTGCAGCCACTCGACATTTACAAGAAGCTGAGCAAACCAAAAACAGTGGCACT
GAGCACTGGTGAAGATCCATGAGGCATGCATGCTTGCCTAGGCTCAGTGAAGGCCATC
ATCACTGACAGTGTGAAAAATGGCAGGATTCATTTGACATGCATGGGTTCCTGACCAAT
GTCATCCTTGCAGACCTCAACCTCTCAGTGTCTCCTTCTCTTGGGCCGGGCACTTTGG
GCTGCCAGTCGGTTCACTGTTGCTATGTCCCTGAAGTATCCAGCAGTTCCTACAGGCA
ACAGTTAGTGGTCTTCAGGAGACACAGCCCCATCAGTTCGAATTTCTGCAGTGAGAGCC
ATCTGGGGTTATTGTGACCAACTGAAAGTCTCAGAGAGTACCCACGTGCTCCAGCCCTTC
CTCCCCAGCATCCTTGATGGCTTAATTCACCTAGCAGCCAGTTCAGCTCAGAGGTCTC
AACCTGGTGTGAGACCTGTGCATCGTTTGTACAGTAGACCCCGAATTCACAGCAAGC
ATGGAAGCAAAATCTGCCCTTCACCATCGCCATTTTCTAAAGTACAGTAATGATCCC
GTCGTGCGCTCACTGGCTCAGGACATCTTCAAGGAGCTGTCCAGATTGAAGCCTGTGAG
GGCCCAATGCAAAATGAGGCTGATTCCCACTCTGGTCAGCATAATGCAGGCCCCAGCAGAC
AAGATTCTCAGGGCTTTGTGCGACAGCCATTGATACCTGACAACAGTAGTACGAAAT
ACAAAGCCTCCCCTTTCCAGCTTCTCATCTGCCAAGCTTTCCCTGCTGTGGCACAGTGT
ACCTTCACACAGATGACAATGCCACCATGCAGAATGGCGGAGAGTGCTTGGGGCCTAT
GTGTGAGTACCCCTGGAACAAGTAGCCAGTGGCATGATGAGCAGGGCCACAATGGACTG
TGGTATGTGATGCAAGTGGTGAGCCAGCTCCTGGACCCCGCACCTCAGAGTTCACTGCG
GCCTTTGTGGGCCGCTTGTTCACCCCTCATCTCAAAGGCAAGGCGGGAACCTCGGGGAG
AATCTAGACCAGATTCTTCGTGCCATCCTCAGTAAGATGCAGCAGGCAGAGACGCTCAGT
GTCATGCAGTCCCCTGATCATGGTGTTCGCTCATCTGGTGACACTCAGCTAGAACCTCTC
TTGGAGTTCTGTGTAGCCTCCAGGACCTACTGGCAAACCTGCTCTAGAGTTTGTGATG
GCTGAGTGGACAAGCCGACAGCACCTGTTCTATGGACAGTATGAAGGCAAAGTCACTCT
GTGGCACTCTGTAAAGTGTCCAGCATGGCATCAATGCAGATGACAACGGCTACAGGAT
ATCCGTGTGAAGGGAGAGGAGATCTACAGCATGGATGAGGGCATCCGACCCGCTCTAAG
TCAGCCAAAACCCAGAACGCTGGACAAACATTCTTTGCTGGTCAAGATCCTAAAGCTG
ATCATCAACGAGCTCTCAACGTCTGGAGGCTAATGCCGCTCGCCAGGCCACTCCTGCA
GAGTGGAGTCAAGATGACTCCAATGATATGTGGGAGGACCAGGAGGAGGAAGAGGAGGAG
GAGGAGGATGGTTAGCTGGCCAACTTTATCTGACATTCTTGCTACAAGTAAATATGAG
GAGGATTACTACGAGGATGATGAGGAAGATGACCCTGATGCCCTGAAGGATCCTCTCTAT
CAGATTGATCTGCAGGCATATCTCACAGATTTCTCTGCCAGTTTGTCTCAGCAGCCCTGC
TACATAATGTTTTAGGCCACCTAATGACAATGAGAGGCGAGTTCTACAGACCATCGGC
ATC

Restriction Sites:	Please inquire
ACCN:	NM_018085
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 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_018085.4 , NP_060555.2
RefSeq Size:	11416 bp
RefSeq ORF:	3126 bp
Locus ID:	55705
UniProt ID:	Q96P70
Cytogenetics:	1q32.1

Domains: IBN_NT

Gene Summary: Functions in nuclear protein import as nuclear transport receptor (PubMed:11823430). Serves as receptor for nuclear localization signals (NLS) in cargo substrates (PubMed:11823430). 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 (PubMed:11823430). 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 (PubMed:11823430). 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 (PubMed:11823430). Mediates the nuclear import of RPS7, RPL18A, RPL6, histone H2A, histone H2B and histone (PubMed:11823430). Prevents the cytoplasmic aggregation of RPS7 and RPL18A by shielding exposed basic domains (PubMed:11823430). Mediates the nuclear import of actin (By similarity).[UniProtKB/Swiss-Prot Function]