

Product datasheet for **SC112097**

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: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >NCBI ORF sequence for NM_024658, the custom clone sequence may differ by one or more nucleotides |

```
ATGGAGTCAGCCGGGCTAGAGCAGCTCCTACGGGAGCTGCTGCTACCGGACACCGAGCGCATCCGTCGGG
CCACGGAACAGCTCCAGATCGTTCTTCGGGCCCGCGCTTTGCCGGCTCTCTGCGACCTGCTAGCCTC
GGCGGCCGACCCCCAGATCCGCCAGTTTGGCGCGTGTGACCCGCAGACGACTGAACACCCGCTGGCGA
CGGCTGGCGGGAGCAACGGGAGAGCCTCAAGTCCCTGATCCTGACGGCCCTGCAGAGAGAAACAGAGC
ACTGTGTGAGCCTCAGCCTGGCCAGCTCTCAGCCACCATTTTTCGAAAGGAAGGCTTGGAGCCTGGCC
ACAGCTTTTGCAGCTGCTTCAGCACAGTACCCACAGCCCCACAGCCCAGAGAGAGAGATGGGGCTTTG
CTGCTAAGTGTGGTGGTACCTCCCGGCCGAGGCCTTCAACCCACCACGGGAGCTTCTTCGGCTTC
TGAATGAGACTCTTGGTGAAGTGGGCTCTCCTGGGCTGCTCTTCTACTCCCTGCGCACTCTGACCACCAT
GGCTCCCTACCTCAGCACTGAAGATGTGCCTCTCGCTCGGATGTTGGTGCCCAAGCTGATCATGGCCATG
CAGACTCTGATCCCCATAGATGAGGCAAAGGCCTGTGAGGCCCTTGAGGCTTTGGATGAACTGTTGGAGT
CAGAGGTGCCGGTCATCACCCCTACCTCTCTGAAGTCTCACATTCTGCCTGGAGGTAGCTAGAAATGT
GGCCCTGGGCAATGCGATACGCATACGTATTCTCTGCTGCCTCACTTTCTTGGTCAAAGTCAAGAGCAAG
GCCTTACTGAAGAATCGTCTCCTGCCACCCTTGTGCACACCCTTTTCCCATTGTGGCTGCTGAGCCCC
CACCAGCCAGTTGGATCCCAGGACCAGGATTCAGAAGAGGAAGAGTTGGAGATTGAGCTGATGGGGGA
GACTCCCAAGCATTTCGCTGTACAAGTTGTGGACATGCTGGCACTACACCTGCCCCCGAGAAGCTCTGT
CCCCAGCTGATGCCATGTTGGAAGAGGCTTTGCGGAGCGAGAGCCCATACCAGCGCAAAGCTGGACTCC
TGGTGCTGGCCGTGCTGTCTGACGGAGCTGGCGACCACATCAGGCAGAGACTGCTGCCCCCACTGCTGCA
GATTGTGTGCAAGGGCCTGGAGGACCCCTCGCAAGTTGTACGCAATGCTGCGCTGTTTGCCTGGGCCAG
TTCTCAGAAAACCTACAGCCCCATATCAGCAGCTATTCAAGGGAGGTAATGCCACTGCTCCTCGCCTACT
TGAAGTCGGTGCCTCTTGGACACACACACCACCTAGCCAAGGCCTGCTATGCCCTGGAGAATTTTGTGGA
GAACCTAGGGCCCAAGGTGCAGCCCTACCTTCCGGAGCTTATGGAATGCATGCTGCAGCTTCTGAGGAAC
CCCAGCAGTCCCCGGCCAAGGAGCTGGCTGTGAGCGCCCTGGGAGCCATTGCTACGGCTGCCAGGCCCT
CGCTGCTGCCCTACTTCCCTGCCATCATGGAGCACCTGCGGGAATTCCTGTTAACAGGCCGTGAGGACCT
```



TCAGCCTGTGCAGATCCAGAGCCTGGAGACACTGGGGGTGCTGGCACGAGCAGTGGGGGAGCCCATGAGG
 CCGCTGGCTGAGGAATGCTGCCAGCTGGGTCTGGGCTCTGCGACCAGGTAGACGACCCTGACTTGCGGC
 GCTGCACGTACAGCCTATTTGCAGCCTTATCGGGTCTGATGGGTGAGGGCCTGGCGCCCACTTGGAAACA
 GATCACCACGCTCATGCTGTCTCACTGCGTTCACCCGAGGGCATTGTGCCTCAGTATGACGGGAGCAGC
 TCCTTCCTTCTGTTTGACGATGAGAGTGATGGGAAGAAGAGGAGGAGCTCATGGATGAGGATGTGAAG
 AAGAGGATGACTCAGAGATCTCAGGGTACAGCGTGGAGAATGCCTTCTTCGATGAGAAGGAAGACACCTG
 TGCTGCCGTGGGGAGATCTCTGTGAACACCAAGTGTGGCCTTCCTTCCATACATGGAAGTGTCTTTGAA
 GAAGTATTTAAACTGCTGGAGTGCCTCACCTGAATGTGCGGAAGGCAGCCCATGAGGCTCTGGGTCACT
 TTTGCTGTGCACTGCACAAGGCCTGTCAAAGCTGCCCTCGGAACCAACTGCTGCTTTGACAGCTGC
 CCTGGCCCGAGTCGTGCCATCTACATGCAGGCAGTGAACAGGGAGCGGGAACGCCAGGTGGTGATGGCC
 GTGCTGGAGGCCCTGACAGGGGTGCTCCGACGTGTGGGACCCTCACACTGAAGCCCTGGGCGCCTCG
 CTGAGCTCTGTGGCGTCTCAAGGCTGTCTGCAGAGGAAGACAGCCTGTGAGGATACTGACGAGGAGGA
 GGAAGAGGAAGATGATGATCAGGCTGAATACGACGCCATGTTGCTGGAGCAGCTGGAGAGGCCATCCCT
 GCCCTGGCAGCCCGGCTGGGGGAGACTCCTTTGCCCATTTCTTGGCGTTTCTGCCATTATTGGTGT
 GCAAGACAAAACAGGGCTGCACAGTGGCAGAGAAGTCTTTGAGTGGGGACCTTGGCAGAGACTATTCA
 GGGCCTGGGTGCTGCCTCAGCCAGTTTGTCTCGGCTGCTCCCTGTGCTGTTGAGCACCGCCCAAGAG
 GCAGACCCCGAGGTGCGAAGCAATGCCATCTTCGGGATGGGCGTGTGGCAGAGCATGGGGGCCACCCTG
 CCCAGGAACACTTCCCAAGCTGCTGGGGCTCCTTTTCCCTCCTGGCGCGGAGCGACATGATCGTGT
 CCGTGACAACATCTGTGGGGCACTTGCCCGCTGTTGATGGCCAGTCCCACCAGGAAACCAGAGCCCAAG
 GTGCTGGCTGCCCTACTGCATGCCCTGCCACTGAAGGAGGACTTGGAGGAGTGGGTACCACTTGGGCGCC
 TCTTCAGCTTCTGTACCAGAGCAGCCCTGACCAGTTATAGATGTGGCTCCCGAGCTTCTGCGTATCTG
 CAGCCTCATTCTGGCTGACAACAAGATCCCACCAGACCAAGGCCGCACTGTTGCTGCTCTGACGTTTC
 CTGGCCAAACAGCACACCGACAGCTTTCAAGCAGCTCTGGGCTCACTGCCTGTTGACAAGGCTCAGGAGC
 TCCAGGCTGACTGGGCCTCCTAG

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_024658 unedited
 CAGCATTGTGTAATACGACTCACTATTAGGGCGGCCGGAATTCGCACGAGGGCACACCC
 TTTTCCATTGTGGCTGCTGAGCCCCACCAGGCCAGTTGGATCCCGAGGACCAGGATTC
 AGAAGAGGAAGAGTTGGAGATTGAGCTGATGGGGGAGACTCCCAAGCATTTCGCTGTACA
 AGTTGTGGACATGCTGGCACTACACCTGCCCCCGAGAAGCTCTGTCCCAAGTGTGCC
 CATGTTGGAAGAGGCTTTGCGGAGCGAGAGCCATACCAGCGCAAAGCTGGACTCCTGGT
 GCTGGCCGTGCTGTCTGACGGAGCTGGCGACCACATCAGGCAGAGACTGTGCCCCCACT
 GCTGCAGATTGTGTGCAAGGGCCTGGAGGACCCCTCGCAAGTTGTACGCAATGCTGCGCT
 GTTTGCCCTGGGCCAGTTCTCAGAAAACCTACAGCCCATATCAGCAGCTATTCAAGGGA
 GGTGATGCCACTGCTCCTCGCTACTTGAAGTCGGTGCCTTTGGACACACACACCCT
 AGCCAAGGCTGCTATGCCCTGGAGAATTTGTGGAGAACCTAGGGCCCAAGGTGCAGCC
 CTACCTTCGGGAGCTTATGGAATGCATGCTGCAGCTTCTGAGGAACCCAGCAGTCCCCG
 GGCCAAGGAGCTGGCTGTGAGCGCCTGNGAGCATTGCTACAGCTGCCAGGCCCTCGCT
 GCTGCCCTACTTCCCTGCCATCATGGAGCACCTGCGGGAATTCCTGTTAACAGGGCCGTG
 AGACCTTCAGCCTGTGCAGATCCAGAGCCTGGAGACACTGNGGTTGCTGGCACGAGCAGT
 GGGGGAGCCATGAGCCGCTGGCTGAGAATGCTGCCAGCTGGGTCTGGGCCTCTGCGACC
 AGTAGACGACCTGACTTGCAGCTGCAGTNCAGGCTATTGCN

| | |
|-------------------------------------|---|
| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_024658 unedited GCACGCTTTTTAAAGTCGAGATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAAA CAAAAAAAAAAGCTGTTTTATTACAGTATGATGTCATGACTCATTTGAAACAAATCCACC CTAAGGGACAGCCCTGAAAGGCAGAAAGGGGGGCTGGTTCCAAGGGGTATGAGTCTAAA AATCTTTGAAAGGCAAACTGAACTGGGTTGAAAGGGGGCCTTAAGGCCTGGGCAGGCT TTATTCTCTGAACTGGCTGCACCCTGCACTCTAGGAAAGGCCATTACATCCTGAACC TCCTGACCCTTGTTAACAGGCAGGACCCCAAACCTGTTTGAACCTGACGGGGCGTGC TCGCCCAGAAACGCTAGGACTACCATACGTGCGCCCTTGCTGTCTGTGGGAATCTTGTTG CCACCCAAAATGAGGCTGTAAATCCCCAAAAGTCCGGAAGCCCATCTATAACCTGTACA GGCCTGCTCTGCTCCAGGAACCTTAATAGGCCCTAAGGGCGCCCCCATTAGAACATT CTTCTTCATTGTTGCGTCTCGCATCAGGTTAATTACATCCTGGGCCTCTGATTACCTGAG GGAAGTATATAATAGGCGGATATGGCCTTTCACAAATGTTGCCACGGTCACAATTTA TGTCTCTCCCCCTCATGGAGGAAAAAAGGACCCTCCCCCACTCGTGAATTTCTCCC CGCGCCGGGTGGTATCATCTCTTCTCCACCACCCCGCCTAAACGACCTTGTACTA TCCCTCGATATCCACACTTGGCCGGGTATTTCTACCGTACGACCCCTCTCAACACCAC CCTGATCTTGAGATCATTACATCCCATATATTATACTCTCCAGGATTACCTCGATAACG ACTCTACTATCTCTATTACTTTTATTTATACTTTCTCCTCACCCACATTATTATTTT ACAGTCTATTTACATTTTTCTCCACACCCTCACACTTTT |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_024658 |
| Insert Size: | 2680 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). |
| 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: | <u>NM_024658.1, NP_078934.1</u> |
| RefSeq Size: | 3606 bp |
| RefSeq ORF: | 3606 bp |
| Locus ID: | 79711 |
| UniProt ID: | <u>Q8TEX9</u> |
| Cytogenetics: | 14q12 |
| Domains: | IBN_NT, HEAT_PBS |

Protein Families: Druggable Genome

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.