

Product datasheet for MC223193

Ipo8 (NM_001081113) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Ipo8 (NM_001081113) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Ipo8 |
| Synonyms: | 6230418K12Rik; Abcc10; C130009K11Rik; MRP7; OM-1; Om1; Ranbp8 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >MC223193 representing NM_001081113 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCTCAATCGGATCATCCAGGCGCTGAAGGGCACTATCGACCCAAAGCTGAGAATTGCAGCTGAGA
CGGAGCTTAACCAGTCTACAAGATTATTAATTTGCCCCAGCTTGCTTCGGATCATAGTCTCTGACCA
TGTGGAGTTCCCTGTGCGTCAGGCAGCTGCCATCTACCTGAAGAACATGGTGACACAATACTGGCCAGAC
AGGGAGCCTCCACCAGGAGAAGTGATATTTCCATTCAATATTCATGAGAACGACCCGCAGCAGATCCGTG
ACAACATTGTGGAAGGGATAATTCGGTCTCCAGATTTGGTGAGAGTCCAGTTAACATGTGTCTCCGAGT
CATCATTAGACACGATTTTCTGGTCACTGGCCTGCAGTGGTCGACAAGATAGACTACTACTTGCAGTCA
CCAAACAGTGGGAGCTGGCTTGGCAGTTTACTGTGCTTATATCAGCTGGTGAAGACATATGAATATAAAA
AAGCAGAAGAAAGAGAACCTCTCCTGGCAGCCATGCAGATATTTCTGCCTAGAATTCAACAGCAAATCCT
GCAGCTGCTTCCGGATGCCTCCCATTACTCTGTGTTGCTGCAGAAACAGATTCTGAAAATATTCTATGCT
CTCGTTCAGTATGCACTGCCTCTCAGCTGGTGAATCACCAGACCATGACAACGTGGATGGAGATCTTTC
GGACCATCATTGATAGGACGGTCCCTCCGGAGACTCTTCAGATTGATGAGGATGACCCGCCAGAGCTGGT
GTGGTGAAGTGAAGAAGTGGGCTCTGCACATTGTCGCTCGTCTCTTTGAACGGTATGGAAGCCACAGGA
AATGTACAAAAGAATACTTCGAATTTTCTGAATTTTTTTGAAAACCTATGCAGTGGGAATTCACACAGG
TACTACTAAAAATTTAGACCAATACAGACAGAAAGATATATAGCCCCCGTGTCTTCAGCAAGCTTT
CAACTATCTAAACCAAGGGTGTCCATGCTGTGACTTGAAGCAGATGAAGCCACATATACAGAATATC
TCTGAAGATGTGATTTTTCTGTGATGTGTTATAAAGACGAGGATGAAGAGCTGTGGCAAGAAGATCCGT
ATGAATACATAAGGATGAAATTTGATATTTTCAAGATTATGCTTCTCCTACCACAGCGCCAGACCCCT
CTTGATACAGCTGCAAAGAAAAGAAAAGAGGTGTTGCCAAAAATGATGGCGTTCTGTTATCAGATACTA
ACAGACCCGAACCTTACCCCTAGGAAGAAAGATGGAGCCCTGCATGTGATTGGTTCCTGGCTGAGATTT
TGTTGAAGAAGAGTTTATTCAAGGACCAAATTGAGCTGTTCTGCAGAATCATGTATTTCCATTATTAAT
GTCTAACCTGGGATATCTCGAGCTAGATCCTGCTGGTGTGCATGATTTAGTCTTTGAAGTTTCAC



AATGAGCTCAACCTCAGAAATGCAGTAGAATTAGCCAAGAAGAGCCTGATTGAAGACGAGGAGATGCCTG
TCAAGGTGGAAGCTGCCCTTGCAGTGCAGTCGCTGATCTCCAACCAGGCACAAGCCAAGGAGCACATGAA
ACCGTACGTGAGATTTCATCATGCAGGAGCTGCTGCATATCGTCAGAGAGACGGAGAATGACGATGTTACC
AATGTCATCCAGAAGCTCATATGTGAGTACAGTCAGGACGTGGCCTCCATCGCTGTCGACACAACCCAGC
ACTTGGCTGAGATATTTGGTAAAGTTCTTCAGAGTGCAGTATGAAGAAATTGAAGACAAAACCTGTCAT
GGCCATGGGGATTTTACACACCATCGACACTATCTTAACAGTTGTGGAAGATCATCCAGAGATTATACAG
CAGTTGGAGAACATCTGCCTACGAATCATTGATCTTGTGTTTACAGAAGCACGTTATTGAATTCTATGAGG
AAATCCTTCCCTGGCATACAATTTAACCTGCCATACCATCTCCCGCAGATGTGGCAGCTCCTGGGCAT
TTTATATGAAGTTTTCCAGCAGGATTGCTTCGAGTACTTTACAGACATGATGCCTCTCCTGCATAATTAC
GTGACAGTAGATACCAACGCTCTGCTGTCAAATCCAAAGCATTAGAAAGTCTTGTTCACAAATGTGCAGGA
AGGTACTGTGTGGAGAGGCAGGAGAAGATGCCGAGTGTATGCTGCAAAACTCTTGAAGTCATCATTCT
TCAGTGCAAAGGAAGGGGAATTGACCAGTGTATCCCGCTATTCACTTGTCTTGGAGAGATTAACA
CGTGGGGTCAAGACCAGTGCAGTGCACAAATGTGTCTCCAGGTGGCCATCGCAGCTCTTACTACAGCC
CTGAAGTCTGTCCATACACTGGAGCAAGTCCAGCTGCCACACAACCCAGGACCCGTCAGTCGCAGTT
CATAAACCAAGTGGATGAATGACACTGATTACTTCTGGGACACCATGACCGGAAGATGTGTATAATAGGA
CTGAGTGTGCTCTTGGAGCTGCAGAACCAGCTCCTGCCGTGGATGCTGTGGCTGCACAGATCCTCCCT
CCATTCTCTTCTTTTCTTGGCCTGAAGCAGGTCTGTGCTACACGACAAACGGTAAACCGTGAAAATCA
CTCAAAGCAGAGAAAGTCGACATAGAGGAAAATGAGGAGATTTCAAGTGAGGAGGAGGAAGAGACAAGT
GTGAGTGTCAAGCTATGCAGTCACAAATGGCAGAAGTGAGGAGGAGGATGATGACGACTGGGATGAAG
AAGTGTGGAGGAGACAGCCCTCGAGGGCTTCAGCACCCACTGGACCTGGACAACAGTGTGGATGAATA
CCAGTTTTTTACACAAGCTCTGCTGACTGTGCAGAATCGGGATGCTGCCTGGTACCAGCTGCTGGTGGCA
CCACTCAGTGAGGATCAGAAAAGAAAGCTGCAGGAGGTGTACACGTTGGCAGAGCACCGAAGGACACTGG
CAGCAGGGCAGTTTACATTTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001081113

Insert Size:

3033 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:

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_001081113.1, NP_001074582.1

RefSeq Size:

5359 bp

RefSeq ORF:

3033 bp

Locus ID: 320727

UniProt ID: [Q7TMY7](#)

Cytogenetics: 6 G3

Gene Summary: Seems to function in nuclear protein import, either by acting as autonomous nuclear transport receptor or as an adapter-like protein in association with the importin-beta subunit KPNB1. Acting autonomously, is thought to serve itself as receptor for nuclear localization signals (NLS) and to promote translocation of import substrates through the nuclear pore complex (NPC) by an energy requiring, Ran-dependent mechanism. At the nucleoplasmic side of the NPC, Ran binds to 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. In vitro mediates the nuclear import of SRP19 (By similarity).[UniProtKB/Swiss-Prot Function]