

Product datasheet for **SC318373**

Transportin 1 (TNPO1) (NM_002270) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transportin 1 (TNPO1) (NM_002270) Human Untagged Clone
Tag:	Tag Free
Symbol:	Transportin 1
Synonyms:	IPO2; KPNB2; MIP; MIP1; TRN
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_002270, the custom clone sequence may differ by one or more nucleotides

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ATGGTGTGGGACCGGCAAACCAAGATGGAGTATGAGTGGAAACCTGACGAGCAAGGGCTT
CAGCAATCCTGCAGCTGTTGAAGGAGTCCCAGTCCCCAGACACCACCATCCAGAGAACC
GTGCAACAAAACTGGAACAACCTAATCAGTATCCAGACTTTAACAACTACTTGATTTTT
GTTCTTACAAAATTAATCTGAAGATGAACCCACAAGATCATTGAGTGGTCTTATCTTG
AAGAATAATGTGAAAGCACACTTTCAGAACTTCCCAAATGGTGTAAACAGACTTTATTA
AGTGAATGTTTAAATAATATTGGTGACTCCTCTCCTCTGATTAGAGCCACTGTTGGTATT
TTGATCACAACCTATAGCCTCCAAGGGAGAATTGCAGAATTGGCCTGACCTCTTACCAAAA
CTCTGTAGCCTGTTGGATTCTGAAGATTATAATACCTGTGAGGGAGCATTGTTGGCCCTT
CAGAAGATTTGTGAAGATTCTGCTGAGATTTTAGACAGTGATGTTTAGATCGTCTCTC
AACATCATGATTTCCAAATTTTTACAGTTCTTCAAGCATAGTAGTCCAAAAATAAGGTCT
CACGCTGTTGCATGTGTCAATCAGTTTATCATCAGTAGGACTCAAGCTCTAATGTTGCAC
ATTGATTCTTTTATTGAGAATCTCTTGCATTAGCTGGTGATGAAGAACCAGAGGTACGG
AAAAATGTGTGCGAGCACTTGTGATGTTGCTCGAAGTTCGAATGGATCGCTGCTTCTCT
CACATGCATAATATAGTTGAGTACATGCTACAGAGGACTCAAGATCAAGATGAAAATGTG
GCTTTAGAAGCCTGTGAATTTTGCTAACTTTAGCTGAACAGCCAATATGCAAGATGTA
CTCGTAAGGCATCTTCTAAGTTGATTCTGTGTTAGTGAATGGCATGAAGTACTCAGAC
ATAGATATTATCTACTTAAGGGTGATGTTGAAGAAGACGAAACGATTCTCTGATAGTGAA
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TGAATCTAAGAAAATGTTCTGCTGCTGCCCTGGATGTTCTTGCAATGTGTATCGTGAT
GAAGTCTGCCACATATTTGCCCTTTTGAAAGAATTACTTTTCATCATGAATGGGTT
GTTAAAGAATCAGGCATTTTGGTTTTAGGAGCAATTGCTGAAGGTTGCATGCAGGGCATG
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CTTGTCGCTTCCATAACATGCTGGACTCTTAGCCGCTATGCACACTGGGTGGTCAGCCAG
CCGCCAGACACGTACCTGAAGCCATTAATGACAGAATTGCTAAAGCGCATCCTGGACAGC
AACAAGAGAGTACAAGAAGCTGCCTGCAGTGCCTTTGCTACCCTAGAAGAGGAGGCTTGT
ACAGAACTTGTCTTACCTTGCTTATATACTTGATACCCTGGTCTTTGCATTTAGTAAA
TACCAGCATAAAGACCTGCTCATTCTTTACGATGCCATAGGAACATTAGCAGATTAGTA
GGACATCATTTAAACAAACCAGAATATATTCAGATGCTAATGCCTCCACTGATCCAGAAA
TGAACATGTTAAAGGATGAAGATAAGATCTCTTCCCTTTACTTGAGTGCCTATCTTCA
GTTGCCACAGCACTGCAGTCTGGATTCTTCCGTAAGTGTGAACCTGTGTATCAGCGTTGT
GTAAACCTAGTACAGAAGACTCTTGACAAGCCATGCTAAACAATGCTCAACCAGATCAA
TATGAAGCTCCAGATAAAGATTTTATGATAGTGGCTCTTGATTTACTGAGTGGCTGGCT
GAAGGACTTGGAGGCAACATTGAACAGCTGGTAGCCCGAAGTAACATCCTGACACTAATG
TATCAGTGCATGCAGGATAAAATGCCAGAAGTTCGACAGAGTTCTTTGCCCTGTTAGGT
GACCTCACAAAAGCTTGCTTTGAGCATGTTAAGCCTTGTATAGCTGATTTTCATGCCAATA
TTGGGAACCAACCTAAATCCAGAATTCATTTAGTCTGCAACAATGCCACATGGGCAATT
GGAGAAATCTCCATTCAAATGGGTATAGAGATGCAGCCTTATATTCCCTATGGTGTTGCAC
CAGCTTGTAGAAATCATTAACAGACCCAACACACCAAGACGTTGTTAGAGAATACAGCA
ATAACAATTGGTCGTCTTGGTTACGTTTGTCTCAAGAGGTGGCCCCATGCTACAGCAG
TTTATAAGACCTGGTGACCTCTCTGAGAAACATAAGAGACAATGAGGAAAAGGATTCA
GCATTCGGTGAATTTGTACCATGATCAGTGTGAATCCAGTGGCGTAATCCAAGATTTT
ATATTTTTTTGTGATGCCGTTGCATCATGGATTAACCCAAAAGATGATCTCAGAGACATG
TTCTGTAAGATCCTTCATGGATTTAAAAATCAAGTTGGCGATGAAAATTGGAGGCGTTTC
TCTGACCAGTTTCTCTTCCCTTAAAGAGCGTCTTGACGCTTTTATGGTGTT

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Restriction Sites: Please inquire

ACCN: NM_002270

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.

RefSeq: [NM_002270.3](#), [NP_002261.3](#)

RefSeq Size: 8559 bp

RefSeq ORF: 2697 bp

Locus ID: 3842

UniProt ID: [Q92973](#)

Cytogenetics: 5q13.2

Domains: Armadillo_seg, IBN_NT

Protein Families: Druggable Genome

Gene Summary: This gene encodes the beta subunit of the karyopherin receptor complex which interacts with nuclear localization signals to target nuclear proteins to the nucleus. The karyopherin receptor complex is a heterodimer of an alpha subunit which recognizes the nuclear localization signal and a beta subunit which docks the complex at nucleoporins. Alternate splicing of this gene results in several transcript variants encoding different proteins. [provided by RefSeq, Jun 2018]

Transcript Variant: This variant (1) encodes the longest isoform (1).