

Product datasheet for **SC109373**

Transportin 1 (TNPO1) (NM_153188) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Transportin 1 (TNPO1) (NM_153188) Human Untagged Clone
Tag:	Tag Free
Symbol:	Transportin 1
Synonyms:	IPO2; KPNB2; MIP; MIP1; TRN
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC109373 sequence for NM_153188 edited (data generated by NextGen Sequencing)

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ATGGAGTATGAGTGGAACCTGACGAGCAAGGGCTTCAGCAAATCCTGCAGCTGTTGAAG
GAGTCCCAGTCCCAGACACCACCATCCAGAGAACCGTGAACAAAACTGGAACAACCT
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CAGAACTCCCAAATGGTGAACAGACTTTATTAAGTGAATGTTAAATAATATTGGT
GACTCCTCCTCTGATTAGAGCCACTGTTGGTATTTTGGATCACAACATATAGCCTCCAAG
GGAGAATTGCAGAATTGGCCTGACCTCTTACAAAACCTGTAGCCTGTTGGATTCTGAA
GATTATAATACCTGTGAGGGAGCATTGGTGCCCTCAGAAGATTGTGAAGATTCTGCT
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Clone variation with respect to NM_153188.2
1473 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_153188 unedited
 GGGGGGGGGGGGAANNNTTTNTTTAAANNNGTTTTACCCCGCCCGTTGCCNCATTG
 GGCGGTAGGCGGTACGGTGGGNAGTCTATATAAGCAGAGCTCATTTAGGTGACACTATA
 GAATACAAGCTACTTGTCTTTTTGCAGCGGCCGGAATTCGGCACGAGGGGGCGCCGGG
 CTGCCAGGAGCAGTTCGCCGGGTTTCACTGTCCGTGACTTCCTTCGGGGCACCTCAGGC
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 TAAAATCTGAAGATGAACCCACAAGATCATTGAGTGGTCTTATCTGAAGAATAATGTGA
 AAGCACACTTTCAGAACTCCCAAATGGTGTAAACAGACTTTATTAAGTGAATGTTTAA
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 TAGCCTCAAGGGAGAATTGCAGAATTGGCCTGACCTCTACCAAACTCTGTAGCCTGT
 TGGATTCTGAAGATTATAATACCTGTGAGGGAGCATTGGTGCCTTCAGAAGATTTGTG
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 TGCAAATCAGTTATCATCAGTAGGACTCAAGCTAATGTNGCACATTGATCTTTTAT
 TGAGAATCTCTTGCATTAGCTGGTGATGAAGAACCAGAGGTACGGAAA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_153188 unedited
 GCACTACTATGTACGTGGCCGCTTCNTANATCGAGTTTTTTTTTTTTTTTTTGGCTTCTT
 CACATCCACTGGCGGATTGTAAC TGGGAGAATATTTCCACCCACAAGGCTCCAGATGTT
 AAAACGTTTTCCCAACATCGACTTAATACAGTGACGGCAACACCTCCCTCCGCCCCTCCC
 AGTAGGGTTGGGATTGTACTGTATTCCTACTGGTTTACCCTTCCCCCTGTAAAGGGTA
 ACATTTTCCCTGGGTGCAGAGGCTCCCTTATAGTCTCAAAGACTGAAGGACCCCTAATTT
 TGGGACTGCAGCTAAGTGTATTAGATTAACACCATAAAAAGCTGCAAGACGCTCTTTT
 AAGGGAAGAGGAACTGGTCAGAGAAACGCCTCCAATTTTCATCGCCAAC TTGATTTTAA
 AATCCATGAAGGATCTTACAGAACATGTCTCTGAGATCATCTTTTGGGTTAATCCATGAT
 GCAACGGCATCACAAAAAATATAAAATCTTGGATTACGCCACTGGGATTCACACTGATC
 ATGGTACAAAATCCACGGAATGCTGAATCCTTTTCCTCATTGTCTTATGTTTCTCAGA
 GAGGTGCACCAAGGTCTTATAAACTGCTGTAGCATGGGGGCCACCTCTTGAAGACAAAACG
 TAACCAAGACGACCAAATGGTATTGCTGGATTCTTAACACGTCTTAGGTGGGTTGGGTC
 TGTTAATGATTTCTACAAGCTGGGGCACACCCTAAGAATATAAAGGCTGCATTTCTTTTC
 CCCTTTGAATGGGGATTTCTCCATTGGCCCTGTGGCATTGTTGCAGACGGAAAGGAATCT
 GGGATTTAGGTTGGGTCCCAATTTGGCTGAAACA

Restriction Sites:

NotI-NotI

ACCN:

NM_153188

Insert Size:

3200 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_153188.1](#), [NP_694858.1](#)

RefSeq Size: 3026 bp

RefSeq ORF: 2673 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 (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) is shorter at the N-terminus compared to isoform 1. Variants 2, 3, and 4 all encode the same isoform (2).