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# Product datasheet for SC118725

## Transportin 1 (TNPO1) (NM_002270) Human Untagged Clone

### Product data:

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| **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 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pCMV6-XL5 |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |

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**Fully Sequenced ORF:**

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

ATGGTGTGGGACCGGCAAACCAAGATGGAGTATGAGTGGAAACCTGACGAGCAAGGGCTTCAGCAAATCC
TGCAGCTGTTGAAGGAGTCCCAGTCCCCAGACACCACCATCCAGAGAACCGTGCAACAAAAACTGGAACA
ACTTAATCAGTATCCAGACTTTAACAACTACTTGATTTTTGTTCTTACAAAATTAAAATCTGAAGATGAA
CCCACAAGATCATTGAGTGGTCTTATCTTGAAGAATAATGTGAAAGCACACTTTCAGAACTTCCCAAATG
GTGTAACAGACTTTATTAAAAGTGAATGTTTAAATAATATTGGTGACTCCTCTCCTCTGATTAGAGCCAC
TGTTGGTATTTTGATCACAACTATAGCCTCCAAGGGAGAATTGCAGAATTGGCCTGACCTCTTACCAAAA
CTCTGTAGCCTGTTGGATTCTGAAGATTATAATACCTGTGAGGGAGCATTTGGTGCCCTTCAGAAGATTT
GTGAAGATTCTGCTGAGATTTTAGACAGTGATGTTTTAGATCGTCCTCTCAACATCATGATTCCCAAATT
TTTACAGTTCTTCAAGCATAGTAGTCCAAAAATAAGGTCTCACGCTGTTGCATGTGTCAATCAGTTTATC
ATCAGTAGGACTCAAGCTCTAATGTTGCACATTGATTCTTTTATTGAGAATCTCTTTGCATTAGCTGGTG
ATGAAGAACCAGAGGTACGGAAAAATGTGTGCCGAGCACTTGTGATGTTGCTCGAAGTTCGAATGGATCG
CCTGCTTCCTCACATGCATAATATAGTTGAGTACATGCTACAGAGGACTCAAGATCAAGATGAAAATGTG
GCTTTAGAAGCCTGTGAATTTTGGCTAACTTTAGCTGAACAGCCAATATGCAAAGATGTACTCGTAAGGC
ATCTTCCTAAGTTGATTCCTGTGTTAGTGAATGGCATGAAGTACTCAGACATAGATATTATCCTACTTAA
GGGTGATGTTGAAGAAGACGAAACGATTCCTGATAGTGAACAGGATATACGGCCACGTTTTCACCGATCG
AGGACGGTGGCTCAGCAGCATGATGAAGATGGAATTGAAGAGGAAGATGATGATGATGATGAAATTGATG
ATGATGATACAATTTCTGACTGGAATCTAAGAAAATGTTCTGCTGCTGCCCTGGATGTTCTTGCAAATGT
GTATCGTGATGAACTGCTGCCACATATTTTGCCCCTTTTGAAAGAATTACTTTTTCATCATGAATGGGTT
GTTAAAGAATCAGGCATTTTGGTTTTAGGAGCAATTGCTGAAGGTTGCATGCAGGGCATGATTCCATACT
TGCCTGAGCTTATTCCTCACCTTATTCAGTGCCTCTCTGATAAAAAGGCTCTTGTGCGTTCCATAACATG
CTGGACTCTTAGCCGCTATGCACACTGGGTGGTCAGCCAGCCGCCAGACACGTACCTGAAGCCATTAATG
ACAGAATTGCTAAAGCGCATCCTGGACAGCAACAAGAGAGTACAAGAAGCTGCCTGCAGTGCCTTTGCTA
CCCTAGAAGAGGAGGCTTGTACAGAACTTGTTCCTTACCTTGCTTATATACTTGATACCCTGGTCTTTGC
ATTTAGTAAATACCAGCATAAGAACCTGCTCATTCTTTACGATGCCATAGGAACATTAGCAGATTCAGTA
GGACATCATTTAAACAAACCAGAATATATTCAGATGCTAATGCCTCCACTGATCCAGAAATGGAACATGT
TAAAGGATGAAGATAAAGATCTCTTCCCTTTACTTGAGTGCCTATCTTCAGTTGCCACAGCACTGCAGTC
TGGATTCCTTCCGTACTGTGAACCTGTGTATCAGCGTTGTGTAAACCTAGTACAGAAGACTCTTGCACAA
GCCATGCTAAACAATGCTCAACCAGATCAATATGAAGCTCCAGATAAAGATTTTATGATAGTGGCTCTTG
ATTTACTGAGTGGCCTGGCTGAAGGACTTGGAGGCAACATTGAACAGCTGGTAGCCCGAAGTAACATCCT
GACACTAATGTATCAGTGCATGCAGGATAAAATGCCAGAAGTTCGACAGAGTTCTTTTGCCCTGTTAGGT
GACCTCACAAAAGCTTGCTTTCAGCATGTTAAGCCTTGTATAGCTGATTTCATGCCAATATTGGGAACCA
ACCTAAATCCAGAATTCATTTCAGTCTGCAACAATGCCACATGGGCAATTGGAGAAATCTCCATTCAAAT
GGGTATAGAGATGCAGCCTTATATTCCTATGGTGTTGCACCAGCTTGTAGAAATCATTAACAGACCCAAC
ACACCAAAGACGTTGTTAGAGAATACAGCAATAACAATTGGTCGTCTTGGTTACGTTTGTCCTCAAGAGG
TGGCCCCCATGCTACAGCAGTTTATAAGACCCTGGTGCACCTCTCTGAGAAACATAAGAGACAATGAGGA
AAAGGATTCAGCATTCCGTGGAATTTGTACCATGATCAGTGTGAATCCCAGTGGCGTAATCCAAGATTTT
ATATTTTTTTGTGATGCCGTTGCATCATGGATTAACCCAAAAGATGATCTCAGAGACATGTTCTGTAAGA
TCCTTCATGGATTTAAAAATCAAGTTGGCGATGAAAATTGGAGGCGTTTCTCTGACCAGTTTCCTCTTCC
CTTAAAAGAGCGTCTTGCAGCTTTTTATGGTGTTTAA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM_002270 unedited
CCGCGTGGACATTTGTATACGACTCATATAGGCGGCCGCGAAATTCGCACGAGGTCGGCT
CCTTGCGCTCGGCGGCCGCGGCGGCAGCAGCAGCAGACGTTGGCGGCCGGGCTGCCAGGA
GCAGTTCCGCCGGGTTTCACTGTCCGTGACTTCCTTCGGGGCACCTCAGGCAGCAAACCA
AGATGGAGTATGAGTGGAAACCTGACGAGCAAGGGCTTCAGCAAATCCTGCAGCTGTTGA
AGGAGTCCCAGTCCCCAGACACCACCATCCAGAGAACCGTGCAACAATTCTAGAAACTGG
AACAACTTAATCAGTATCCAGACTTTAACAACTACTTGATTTTTGTTCTTACAAAATTAA
AATCTGAAGATGAACCCACAAGATCATTGAGTGGTCTTATCTTGAAGAATAATGTGAAAG
CACACTTTCAGAACTTCCCAAATGGTGTAACAGACTTTATTAAAAGTGAATGTTTAAATA
ATATTGGTGACTCCTCTCCTCTGATTAGAGCCACTGTTGGTATTTTGATCACAACTATAG
CCTCCAAGGGAGAATTGCAGAATTGGCCTGACCTCTTACCAAAACTCTGTAGCCTGTTGG
ATTCTGAAGATTATAATACCTGTGAGGGAGCATTTGGTGCCCTTCAGAAGATTTGTGAAG
ATTCTGCTGAGATTTTAGACAGTGATGTTNTAGATCGTCCTCTCAACATCATGATTCCCA
AATTTTTACAGTTCTTCAAGCATAGTAGTCCAAAAATAAGGTCTCACGCTGTTGCATGTG
TCAATCAGTTTATCATCAGNTAGACTCAAGCTCTAATGTTGCACATTGATTCTTTTATTG
AGAATCTCTTTGCATTAGCTGGTGATGAAGAACCACAGTACCGAAAAATGTGTGCCGAGC
ACTCG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM_002270 unedited
ATGTACGCGGCCGCATCTATAGTCGGTTTTTTTTTTTTTTTTTTGCTTCTTCACATCCAC
TGCGGAGTTGTAACTGGAGTACTATTTCCACCCACAAAGGCTCCAGATGTTAAAACGTTT
CCCAACATCGACTTAATACAGTGACGGCAACACCTCCCTCCCGCCCCTCCCAGTAAGGTT
GGGATTGTACTGTATTCCCTACTGGTTTACCCTTCCCCCCTGTAAAGGGTAACATTTTCC
CTGGGTGCAGAAGCTCCCTTATAGTCTCCAAGACTGAAAGACCCCTAATTTTGGGACTGC
AGCTTAAGTGTATTAGATTAAACACCATAAAAAGCTGCAAGACGCTCTTTTAAAGGAAGA
GGAAACTGGTCAGAGAAACGCCTCCAATTTTCATCGCCAACTTGATTTTTAAATCCATGA
AAGATCTTACAGAACATGTCTCTGAGATCATCTTTTGGGTTAATCCATGATGCAACGGCA
TCACAAAAAAAATATAAAATCTTGGATTACGCCACTGGGATTCACACTGATCATGGTACAA
ATTCCACGGAATGCTGAATCCTTTTCCTCATTGTCTCTTATGTTTCTCAGAGAGGTGCAC
CAGGGTCTTATAAACTGCTGTAGCATGGGGGCCACCTCTTGAAGACAAACGTAACCAAGA
CGACCAATTGTTATTGCTGTATTCTCTAACAACGTCTTTGGAGTGTTAGGGTCTGTTAAT
GATTTCTACAAGCTGGTGCAACACCATATGAATATAAAGCTGCATCTCTATACCCATTTG
AATGGAGATTTCTNCATTGCCCATGTGGCATTGNTGCAGACTGAAATGATTCTGGATTAA
GTTGGTTCCCATATTGGCATGAAATAGCTTACAAGCTAACATGCTGAAGCAGCTTTGTGA
GTCACCTACAGGCATAGACTTGTCGACTCTGCATTATCTGCAGCCTGTACATATGTCAGA
TGTACTCGCTACACTGTCATGTGCCTC

**Restriction Sites:** NotI-NotI

**ACCN:** NM_002270

**Insert Size:** 2930 bp

| | |
|---|---|
| **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.<br><br>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 |
| **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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_002270.2, NP_002261.2 |
| **RefSeq Size:** | 8559 bp |
| **RefSeq ORF:** | 8559 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]<br>Transcript Variant: This variant (1) encodes the longest isoform (1). |