

Product datasheet for **MC200150**

Tnpo2 (BC003275) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnpo2 (BC003275) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tnpo2
Synonyms:	TRN2, MGC6380, Kpnb2b, IPO3, Knpb2b
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003275
 TGGGGTCGGGCTGGAGGGGCGCTGATTGGGGGAATCGTCGGGGGACGTCGCGTGGATCGGTTGCGCTTGC
 GCCATGGACTGGCAGCCAGACGAGCAGGGCCTGCAGCAGGTCTTGCAGCTTCTCAAAGACTCGCAGTCGC
 CCAACACAGCTACTCAGCGCATTGTGCAGGATAAACTTAAACAACCAACCAAGTTTCTGACTTTAAACA
 CTACCTGATCTTTGTCTGACCAGACTCAAATCAGAAGATGAGCCAACCCGCTCTCTGAGTGGCCTCATC
 CTCAAGAACAAATGTGAAGGCGCATTACCAGAGCTTCCCGCCTCCTGTGGCTGACTTCATCAAAACAGGAGT
 GTCTCAACAACATTGGCGATGCCTCCTCTCATCAGAGCCACCATCGGCATTCTCATCACCACCATCGC
 TTCCAAGGGTGAGCTGCAGATGTGGCCAGAGCTGCTGCCTCAGCTGTGCAACCTGCTCAAACCTCAGAGGAT
 TATAATACCTGTGAGGGAGCCTTTGGAGCCCTACAGAAGATCTGTGAAGACTCCTCGGAGCTTTTGGATA
 GTGATGCTCTCAACAGGCCCTCAACATCATGATCCCTAAATTCCTGCAGTTTTTCAAGCACTGCAGCCC
 TAAGATCCGGTCCCACGCCATCGCTGTGTGAACCAGTTCATCATGGACCGGGCCCAAGCGCTGATGGAC
 AACATTGACACTTTCATTGAGCACCTGTTTGCCTTGGCTGTGGATGATGACCCTGAGGTGAGAAAGAACG
 TGTGCCGGGCCCTTGTGATGCTTTTGAAGTGCGAATTGACAGGCTCATCCCTCACATGCACAGCATCAT
 CCAGTACATGCTGCAGAGGACCCAGGACCATGATGAGAACGTGGCCCTGGAGGCCTGTGAGTTCTGGCTG
 ACGCTAGCCGAGCAGCCATCTGCAAGGAAGTCTGGCCTCTCATCTGGTCCAGTTGATCCCTATCCTCG
 TGAATGGGATGAAGTACTCTGAAATTGACATCATCCTTCTTAAGGGGGATGTGGAGGAGGACGAGGCGGT
 ACCTGACAGTGAGCAGGACATCAAGCCCGGTTCCACAAGTCACGCACAGTGACATTGACTCACGAGGCT
 GAGCGGCCTGATAGCTCTGAGGATGCTGAGGACGACGATGATGACGACGCTTTGTGCGACTGGAATCTGA
 GGAAGTGCTCTGCAGCTGCGCTGGATGTCTTGCCTTCCCAATGTCTTCCGGGAGGAACTGTTGCCCCACTACT
 TCCCCTGCTCAAGGGCCTCCTATTCCACCCTGAGTGGTGGTCAAAGAGTCAGGGATCCTGGTGTGGGC
 GCCATCGCTGAGGGCTGCATGCAGGGAATGGTGCCTATCTACCTGAGCTGATCCACACCTCATCCAGT
 GCCTGTGAGATAAGAAGGCTCTAGTACGCTCCATTGCCTGCTGGACGCTGAGCCGCTATGCCACTGGGT
 AGTCAGCCAGCCACTGACATGCACCTCAAGCCTTTGATGACGGAGCTGCTCAAGCGTATCTTGGATGGC
 AATAAGCGGGTTTCAAGAGGCAGCCTGCAGTGCATTTGCTACCCTGGAGGAGGAGCATGCACGGAGCTGG
 TGCCCTACCTCAGCTATATCCTTGACACTCTCGTTTTTGCCTTTGGCAAATACCAGCATAAGAACCCTGCT
 CATCCTCTATGATGCCATTGGCACCCCTGGCCGACTCTGTGGGCCACCACCTCAATCAGCCGGAGTACATT
 CAGAAGCTGATGCCTCCACTGATCCAGAAGTGGAAATGAGCTCAAGGACGAAGACAAGGACCTCTTCCCGC
 TGCTGGAGTGCCTATCATCTGTGGCCACTGCCCTGCAGAGTGGCTTCTGCCCTACTGCGAGCCTGTCTA
 CCAGCGCTGTGTTACCCTGGTACAGAAGACTGGCCAGGCCATGATGTATACACAACACCCCGAACA
 TATGAGGCCCCAGACAAAGACTTCATGATTGTTGCATTGGACCTGCTTAGTGGCTTGGCTGAGGGCCTAG
 GTGGCCACGTGGAGCAGTTGGTAGCTCGGAGTAACATCATGACATTGCTCTTCCAGTGTATGCAGGATTC
 CATGCCTGAGGTCGGCAGAGCTCCTTTGCCCTTCTGGGAGACCTTACCAAAGCCTGCTTTATCCAGCTC
 AAGCCCTGTATCGCTGAGTTCATGCCTATTCTGGGTACCAACCTGAACCCCTGAGTTCATCTCTGTGTC
 ACAATGCTACCTGGGCCATTGGGGAGATCTGCATGCAGATGGGGGAGAGATGCAGCCTTATGTGCAGAT
 GGTCTCAACAACCTGGTGGAGATCATTAAACAGGCCAACACACCCAAAGACACTGCTGAAAAACACAGCC
 ATCACCATCGGCCGCTGGGCTACGTGTGCCCGCAGGAGGTGGCACCCATGCTGCAGCAGTTCATCCGGC
 CTTGGTGCACGTCCCTTAGGAACATCCGGGACAACGAGGAGAAGGATTCTGCCTCCGAGGCATCTGCAT
 GATGATTGGTGTCAATCCTGGGGTGTGTGCAGGACTTATTTTCTTCTGCGATGCTGTAGCCTCCTGG
 GTGAGCCCCGAAGGATGACCTTCGGGACATGTTTTATAAGATCCTCCATGGCTTCAAAGACCAAGTTGGGG
 AGGAGAAGTGGCAACAGTTCTCAGAGCAGTTCACCTCTGCTCAAGGAGAGGCTGGCAGCCTTCTATGG
 GGTCTAGGTGAACGTGGAGACCACAGGTTTTTGTCTGCGTCATCGTCGGAGGGTGTGCTGGGGATGTGC
 TGCTTCCAGAAGTCACTGTGCCCTGGTCGAGGGGGTTAGGGAGGAGTCAGTGGGACCTAAATCCAGGTG
 CAACCCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: BC003275
Insert Size: 2664 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:	BC003275 , AAH03275
RefSeq Size:	2897 bp
RefSeq ORF:	2664 bp
Locus ID:	212999
Cytogenetics:	8 C3
Gene Summary:	Probably 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). [UniProtKB/Swiss-Prot Function]