

Product datasheet for **MC224393**

Tns2 (NM_153533) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tns2 (NM_153533) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tns2
Synonyms: C1-ten; nep; npH; Tenc1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224393 representing NM_153533
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAAGTCCAGCGGCCCTGTGGAAAGGTTGCTCAGAGCCCTGGGGAGGAGGGACAGCAGCCGGGCCACCA
GCAGGCCGAGGAAAGCAGAACCACACAGCTTCCGGGAGAAGGTTTCCGGAAGAAAACCTCAGTGTGTGC
AGTGTGTAAGGTGACCATCGATGGGACCGGTGTCTCCTGCCGAGTCTGCAAGGTGGCCACACACAGAAAA
TGTGAAGCAAAGGTGACTTCATCCTGTCAAGCCTTGCCCCCTGCCGAGCTGCCGAGAAGCACAGCCCGG
TCCGGCGCATAGAACACCTGGGGTCCACCAAGTCTCTGAACCACTCAAAGCAACGCACTCTACCCAG
GAGCTTACGCTAGATCCGCTCATGGAGCGTCGCTGGGACTTGGACCTCACCTATGTAACGGAGCGGATC
TTGGCCGAGCTTTTCTGCACGACCGGACGAGCAGCAGCACCAGGCACTTGCAGGAGCTAGCCCATG
TGCTTCAATCCAAGCACAGAGACAAGTACCTGCTCTTCAACCTTTCAGAGAAACGGCATGACCTCACCCG
CCTGAACCCCAAGGTGCAAGACTTTGGTTGGCCTGAACTACATGCCCCACCTCTGGACAAGTTGTGTTCC
ATCTGCAAAGCCATGGAGACGTGGCTCAGTCCGACCCCTCAGCACGTGGTTGTGTTGTACTGCAAGGGGA
GCAAAGGCAAGCTTGGGGTCATCGTCTCTGCTTATGCACTACAGCAAGATCTCTGCAGGGGCAGACCA
GGCGTGGCAACCCTCACCATGAGGAAATTCGTGAGGACAAGGTGGCCACGGAAGTGCAGCCCTCCAG
CGCCGCTATGTCAGCTACTTCAGCGGACTGCTGTCTGGCTCCATCAGAATGAACAGCAGCCCACTTCC
TGCACTATGTGTTTGTCTGTGCTGCCAGCCTTTGAGCCCAACACAGGCTTCCAGCCCTTCTCAAGAT
CTACCAGTCTATGCAGCTGGTCTACACATCTGGAGTCTACCGCATAGCAGGTCCAGGGCCTCAGCAACT
TGTATCAGCCTGGAGCCAGCCCTTCTCCTCAAAGGCGACGTCATGGTAACCTGCTACCACAAGGGTGGCC
AGGGGACAGACCCGACCCCTCGTGTCCGAGTTCAGTCCACACATGCACCATTATGGATACCGGCTCAC
CTTCCCAAAGGACCAACTAGATGAGGCTGGGCTGATGAGCGGTTTCTTCCAAAGCCTCAGTGGAGTTT
GTTTTCTCTCCAGCCCTGAGAAGGTCAAAGGCAACCCACCGAATGATCCCTCTGTCTCCGTGGATT
ACAACACGACAGCCTGCTGTACGCTGGGACTCCTATGAAAACCTCAATCAGCACCATGAGGATAGCGT
GGACGGCGCCTTGGCCACACAAGGGGCCCTGGATGGCAGTCTTATGCCAGGTGCAGCGGGTCCCC
CGCCAGACACCACGACCTTCTCAGAGCTTCCCCACCCCGATGCTCTGTCTCAGCAGCGACTCTG



GCCACTCATCCACGCTAACCCACAGAACACACAGCAGAATCCCCCGGCCGGCCGCCCAACTGCTGCTGA
AAGACAGGAGCTGGATCGTCTGCTGGGAGGTTGTGGAGTGGCCAGTGCAGGCGCTGGTGTGGGCGAGAG
ACCGCCATCCTTGATGATGAAGAGCAGCCCTCTGTGGGTGGAGGCTGCACCTTGGGATGTATTCAGGCC
ACAGGCCCTGGACTCAGTCGACGCTGCTCCTGCCGTGAGGCTTCCGGGAGCCTTGTGGGGTCCCTAATGG
GAGCTACTACCGGCTGAGGGAACCCCTAGAGAGACGACACCACCTATGGGGCTATGAGGGACACCCC
CAGGGCTACGCAGAAGCCTCTGTGGAGAAGAGACGCTCTGCAGGTCAGTGTGAGAAGGGCCGTACCCT
ATGCACCCGAGCTGGGGAACCCAGCCAATGGGGACTTTGGCTACCGTCCAGCAGGCTACCGGGAGGTGGT
GATCCTGGAGGACCCTGGGGTGCCTGCTTTATGCTCATGCCCTGCCTGTGAAGAGAAGCTGGCACTGCC
ACCGCAGCCCTGTATGGACTGCGACTAGAGAGGGAGGCTGCAGAGGGGTGGTCCAGCAGGTAGGCAAGC
CTCTCCTGCACCCAGTGAGGCTGGACACCCATTGCCTCTGCTGGTGCCTGCCTGTGGGCATCATCATGC
CCCAATGCCTGACTATGGCTGCCTGAAGCCACCAAGGTGGTGAGGAAGGGCATGAGGGCTGCTCTAT
GCCGTGTGCTCTGAAGGCAGGTATGGGCATTGAGGTACCCTGCCCTGGTAACCTATGGCTATGGAGGAG
CGGTTCCAGCTACTGCCAGCATATGGCCGGCACCTCACAGTTGCGGATCTCCAAGTGAAGGCCGAGG
GTACCCAGCCCTGGTGGCCACTACCACGGGCTGGATCTGTGTCCCGGGGAGTCCACCCTACCTGCAG
CCCAGGAAGCTGGTTATGAGATTTCTGCGGAGGATGGGAGAGACAAGTACCACCTTTCTGGACACCTGG
CCTCAACAGGACCCTTGGCTTCTACAGAGTCACCTGAACCATCCTGGAGGGATGGCTCCAGTGGACACAG
CACGCTACCTCGGTCTCCCCGAGATCCTCAGTGCAGTGCTTCTTACAGAGCTGTCTGGTCCCTCCACACCC
TTACACACCAGCAGCCAGTTCAGGGCAAGGAAAGCAACCCAGCGCAAGACACCACAGGCTCCTCCTCCT
TGGCACCCTCAGAGACTGAGTCTGGCGAGGCTTGCCTCTGTTGTACAGGGAGTTGCTGAAAAGAC
TCCTGAGCTGTTGACAAGCAGCAGGCTGAGCAACTGGACCCTAGCCCTTCTCCAGACCTTGCACCC
GGCTCACCAATGGTGGCTCAGGAAAGGAGCCAGGAGGCCACCAACAGTGTAGTCTCGGAGCC
CTGTGCCAACCCCTGCCTGGACTTCGCATGCCCGTGGCAGGGCCCTCGGGGCACTTACAGATAGCC
AGATGGTCCCCCTTACTCCTGTGCCTACCCAGATGCCCTGGCTTGTGGGCAGCCAGAACCCCCAG
AGCTCACCCACCCCTGCCTTCCCCCTGGCTACCTCCTATGATGCCAATGGTCCCATTACGCTCCACTTC
CTGAAAAACGACACCTGCCTGGGTCTGGGCAACAGCCGTCGCCACCAGCAGAAGCACCATCAACATGT
CACCTTTGCATCTCCTCTCCAGATGTCACCCAACCCCAAGAACCCCTTTACAAGAGAACCAAAGCAAT
GTCAAGTTTGTCCAGGATACATCAAAGTTCTGGTACAAGCCACATCTTCCCGAGACCAAGCATTGCC
TGCTGAAAGACAAGGATCCTGGGGCTTCTGATTAGAGACAGCCATTATTCCAAGGAGCCTATGGGCT
AGCCCTCAAGGTGGTACACCTCCACCCAGTGCAGCCCTGAAAGGGGACCCCTCAGAACAGCTGGTC
CGCCATTTCTCATCGAGACTGGGCCAAAGGCGTGAAGATCAAGGGTTGTCCACTGAGCCCTATTTTG
GAAGCCTGTCTGCCCTGGTCTCCAGCACTCCATCTCTCCATCTCCCTGCCCTGTGTGAGAATTCC
TAGCAAAGATCCTCTAGAAGAAACCCAGAGGCCCCAGTGCCTACCAACATGAGCACAGCAGCAGACCTC
CTGCGTCAAGGAGCAGCCTGCAGTGTGCTACCTGACCTCGGTGGAGACAGAGTCATTGACTGGCCCTC
AGGCTGTGGCCAAGGCCAGCTCTGCAGCTCTGAGCTGCAGCCCGTCCCAGTGCAGCCATTGTCCATTT
CAAGGTCTCAGCTCAAGGCATCACACTGACAGACAACCAGAGAAAGCTCTTCTTTCGCCGCCATTACCCA
GTGAACAGCATCACCTTCTTAGCACTGACCCCAAGGACCCAGATGGACCAACCAGATGGAGCCACCT
CCAAGATCTTTGGTTTCGTGGCCAAGAAGCCAGGAAGTCCCTGGGAAAATGTGTGCACCTCTTTGCGGA
GCTTGACCCGGACCAACCGCAAGTGCCATTGTACCTTCATCACCAAAGTTCTACTGGGCCAGAGGAAA
TGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_153533
Insert Size: 4203 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.

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.
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_153533.2](#), [NP_705761.2](#)

RefSeq Size: 4707 bp

RefSeq ORF: 4203 bp

Locus ID: 209039

UniProt ID: [Q8CGB6](#)

Cytogenetics: 15 57.29 cM

Gene Summary: Regulates cell motility and proliferation. May have phosphatase activity. Reduces AKT1 phosphorylation. Lowers AKT1 kinase activity and interferes with AKT1 signaling (By similarity).[UniProtKB/Swiss-Prot Function]