

## Product datasheet for MC224255

### Tnik (NM\_001163008) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tnik (NM_001163008) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tnik
Synonyms:	1500031A17Rik; 4831440119Rik; AI451411; C530008O15Rik; C630040K21 Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224255 representing NM_001163008 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGAGCGACTCCCCAGCTCGCAGCCTGGATGAAATCGATCTCTCCGCCCTGAGGGACCTGCAGGGA  
TCTTTGAGTTGGTGAACCTGTGCGAAATGGCAGGTATGGTCAAGTTTATAAGGGTCGTATGTCAAAC  
GGGCCAGCTTGTGCCATTAAGTTATGGATGTCACAGGGGATGAAGAGGAAGAAATCAAACAAGAAAT  
AACATGTTGAAGAAATATCTCATCACAGGAACATTGCTACATACTACGGTGCTTTTATCAAAAAGAACC  
CTCCTGGCATGGATGACCAACTCTGGTTGGTTATGGAGTTCTGTGGTGTGGCTCTGTCCTGACTGACCTGAT  
CAAGAACACGAAAGGCAACACATTGAAAGAGGAGTGGATTGCATACATCTGCAGGGAGATCTTACGGGGC  
CTGAGTCACTGCACCAGCACAAAGTGATTCATCGAGATATCAAAGGGCAGAACGTCTTGTGTGACTGAAA  
ATGCAGAGGTTAAGCTAGTGGATTTTGGAGTGAGTGCCCGACTTGACCGAAGTGTGGGCAGGAGGAACAC  
GTTTCATCGGGACTCCCTACTGGATGGCACCAGAAGTCAATGCCTGTGATGAGAACCCTGGATGCCACATAT  
GATTTCAAGAGTGACTTGTGGTCTTTGGGAATCACCGCATTGAGATGGCAGAAGGTGCCCCCCCTCT  
GTGACATGCATCCCATGAGAGCCCTCTTCTCATCCCACGGAACCCTGCACCTCGGCTCAAGTCTAAGAA  
GTGGTCAAAAAAATTCAGTCATTTATCGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGCCAGCCAGC  
GAGCAGTTGATGAAGCACCCATTACACGAGACCAACCTAATGAGAGGCAGGTCCGCATCCAGCTGAAGG  
ACCACATTGATCGAACAAAGAAGAAGCGAGGAGAAAAAGATGAGACTGAGTATGAATACAGCGGAAGTGA  
GGAAGAAGAGGAAGAGAATGACTCTGGGAACCCAGCTCCATTCTGAACCTACCAGGGGAGTCAACACTG  
CGAAGGGACTTCTGAGACTGCAGCTGGCCAACAAGGAGCGCTCAGAGGCCCTGCGGCGCCAACAGCTGG  
AGCAGCAGCAGCGGGAGAATGAAGAACAAGCGGAGCTACTGGCTGAGCGCCAGAAGCGCATCGAAGA  
GCAGAAGGAGCAAAGGCGGAGGCTGGAGGACAAAGGCGAGAAAAAGAGCTTCGAAACAGCAGGAG  
CGGAACAGCGCCGCACTACGAAGAACAGATGCGTGGGAGGAGGAGGAGGCGTCCGCAACATGAGC  
AGGAATAAAGCGCAAACAATTGGAAGAACAGAGACAAGCAGAAAGACTGCAGAGGCAGCTAAAGCAAGA  
GCGGGACTATCTGTTTCCCTCCAGCATCAGCGCAGGAGCAGAGGCCCTGGAGAAGAAGCCACTGTAC



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CATTACAAGGAGGGCATGAGTCCTAGTGAGAAGCCGGCCTGGGCCAAGGAGGTAGAAGAACGCTCAAGAC  
TCAACCGACAGAGTTCACCTGCCATGCCTCACAAAGTTGCCAACAGGATCTCGGACCCCAACCTGCCCC  
AAGATCAGAGTCTTCAGCATTAGTGGGGTTCAGCCTGCAAGGACACCCCAATGCTCAGACCTGTTGAC  
CCCCAGATCCCGCAGCTGGTAGCTGCAAAATCCAGGGACCTGCCTTGACGGCCTCCAGTCAGTACATG  
AGCAACCCACAAGGGCCTGTCTGGGTTCCAGGAGGCTCTGAATGTGACCTCTCACGGGTGAGATGCC  
ACGCCAGAACTCGGATCCACCTCAGAAAACCTCCTCTCCCCACGAGAATTGAGAAGTTTGACAGAAGC  
TCTTGGTTACGACAGGAAGAAGACATCCACCAAGGTGCCTCAAAGAACAACCTCTATATCCCCAGCAC  
TAGCCAGAAAGAATCCCTGGCAATGGCAGTGCCTGGGCCCCAGACTTGGATCTCAGCCCATCAGAGC  
AAGCAACCCTGATCTGCGCAGGACAGAGCCAGTCTGGAGAGTCCCTGCAGCGGACAAGCAGTGGCAGT  
TCCTCCAGCTCCAGCACTCCAGCTCCAGCCAGCTCCCAAGGAGGCTCTCAACCTGGCTCCCAAGCAG  
GATCTAGTGAGCGGTCCAGAGTGCGGGCCAACAGTAAGTCCGAAGGATCACCCGTCTCCCCATGAGCC  
TTCCAAGTGAAACCAGAAGAATCCAGAGACATCACACGGCCAGTCGGCCAGCTGATCTGACGGCATT  
GCCAAAGAATTACGAGAACTCCGATTGAAGAAACAACCCGCCCTGAAGAAAGTGACTGATTACTCTT  
CCTCCAGCGAGGAGTCGGAGAGCAGTGAGGAAGAAGGAAGATGGAGAGAGTGAACACATGACGGGAC  
GGTGGCTGTCAGTGACATACCCAGACTAATACCCACCGAGCTCCAGGGAACAATGAGCAGTACAACATG  
GGGATGGTCGGGACACATGGGCTGGAAACTTCGCATGCGGACACCTTTGGCGGCAGCATTTCAGAGAAG  
GAACCTTGATGATCAGAGAGACGGCTGAAGAGAAGAAGCGATCTGGCCACAGTGACAGTAATGGATTCCG  
CGGTACATCAATCTCCAGACCTTGTACAGCAGAGCCATTGCCAGCTGGAACCTCCACTGAGGGGCTG  
GGCCGCGTCTCCACTCATTCCAGGAGATGGACTCTGGGGCTGAATATGGTATAGGGAGCAGCACC  
CCTCTTTCACCCCTTCGTGGACCCTCGAGTGTACCAGACATCGCCACTGATGAAGATGAAGAGGATGA  
TGAGTCTTCAGCTGCTGCCCTGTTACTAGCGAACTTCTTAGGCAAGAACAGGCCAACTCAATGAAGCG  
AGGAAGATTTAGTGGTAAATGTGAACCAACAACATTCGCCCTCATAGTGACACACCGGAAATCAGAA  
AATACAAGAAACGCTTCAATTCAGAAACTTTTGTGCAGCTCATGGGGTGTGAACCTTCTGGTGGGGAC  
TGAAAATGGCCTGATGCTTTTGGACAGAAGTGGCCAAGGCAAAAGTCTACAACCTAATCAACCGGAGGCGG  
TTTCAGCAGATGGATGTGCTAGAAGGACTAAATGTTCTTGTACGATATCAGGAAAGAAGAACAAGTCC  
GTGTGACTATCTCATGGTTAAGAAACAGAATCCTGCACAATGACCCAGAAGTGGAAAAGAAGCAGGG  
CTGGATCACTGTCGGTGACTTGAAGGCTGCATCCATTACAAAGTCGTTAAATATGAAAGAATCAAGTTC  
CTGGTGATTGCCTTAAAGAATGCAGTAGAGATATATGCGTGGGCCCTAAACCTTACCATAAGTTTATGG  
CATTAAAGTCTTTTGCAGATCTCAGCATAAGCCTCTGCTCGTTGACCTCACAGTAGAAGAAGGTCAAAG  
GTTAAAGTGCATATTTGGCTCACACACTGGTTTCCATGTAATTGATGTTGATTCTGGAAACTCCTACGAT  
ATCTATATACCATCCCATATTCAGGGCAATATCACTCCTCATGCTATCGTCATCTTGCTAAAACAGATG  
GAATGGAGATGCTTGTCTGCTATGAGGATGAAGGGGTGTACGTGAACACCTACGGCCGGATCACTAAGGA  
TGTGGTGTCCAATGGGAGAAAATGCCACATCTGTGGCCTACATTCAATCAGATAATGGGCTGG  
GGCGAGAAAGCTATTGAGATCCGGTCAGTGAAACAGGACATTTGGATGGAGTGTATGATAAACGAG  
CTCAAAGGTTAAAGTTTCTATGTGAAAGAAATGATAAGGTATTTTTTGCATCCGTGCGATCTGGAGGAAG  
TAGCCAAGTGTTTTTTTCATGACCTCAACAGAAATCCATGATGAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_001163008

**Insert Size:**

3972 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\\_001163008.1](#), [NP\\_001156480.1](#)

**RefSeq Size:** 7035 bp

**RefSeq ORF:** 3972 bp

**Locus ID:** 665113

**UniProt ID:** [P83510](#)

**Cytogenetics:** 3 A3

**Gene Summary:** Serine/threonine kinase that acts as an essential activator of the Wnt signaling pathway. Recruited to promoters of Wnt target genes and required to activate their expression. May act by phosphorylating TCF4/TCF7L2. Appears to act upstream of the JUN N-terminal pathway. May play a role in the response to environmental stress. Part of a signaling complex composed of NEDD4, RAP2A and TNIK which regulates neuronal dendrite extension and arborization during development. More generally, it may play a role in cytoskeletal rearrangements and regulate cell spreading (By similarity).[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (3) lacks two internal, in-frame coding exons compared to variant 1, resulting in a shorter isoform (3) missing two protein segments compared to isoform 1.