

## 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  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC224255 representing NM\_001163008  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGAGCGACTCCCCAGCTCGCAGCCTGGATGAAATCGATCTCTCCGCCCTGAGGGACCCTGCAGGGA  
 TCTTTGAGTTGGTGAACCTGTGCGAAATGGCAGGTATGGTCAAGTTTATAAGGGTCGTCATGTCAAAC  
 GGGCCAGCTTGTGCCATTAAGTTATGGATGTCACAGGGGATGAAGAGGAAGAAATCAAACAAGAAAT  
 AACATGTTGAAGAAATTTCTCATCACAGGAACATTGCTACATACTACGGTGCTTTTATCAAAAAGAACC  
 CTCTGGCATGGATGACCAACTCTGGTTGGTTATGGAGTTCTGTGGTGGCTCTGTCACTGACCTGAT  
 CAAGAACACGAAAGGCAACACATTGAAAGAGGAGTGGATTGCATACATCTGCAGGGAGATCTTACGGGGC  
 CTGAGTCACCTGCACCAGCACAAAGTGATTCATCGAGATATCAAAGGGCAGAACGCTTGTGGTACTGAAA  
 ATGCAGAGGTTAAGCTAGTGGATTTGGAGTGAGTGCCAGCTTGACCGAACTGTGGCAGGAGGAACAC  
 GTTCATCGGGACTCCCTACTGGATGGCACCAGAAGTCATTGCCTGTGATGAGAACCCGGATGCCACATAT  
 GATTTCAAGAGTGACTTGTGGTCTTTGGGAATCACCGCATTGAGATGGCAGAAGGTGCCCCCCCTCT  
 GTGACATGCATCCCATGAGAGCCCTCTTCTCATCCACGGAACCTGCACCTCGGCTCAAGTCTAAGAA  
 GTGGTCAAAAAAATCCAGTCATTTATCGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGGCCAGCCAGC  
 GAGCAGTTGATGAAGCACCCATTATACAGAGCAACCTAATGAGAGGCAGGTCCGCATCCAGCTGAAGG  
 ACCACATTGATCGAACAAAGAAGAAGCGAGGAGAAAAAGATGAGACTGAGTATGAATACAGCGGAAGTGA  
 GGAAGAAGAGGAAGAGAATGACTCTGGGAACCCAGCTCCATTCTGAACCTACCAGGGGAGTCAACACTG  
 CGAAGGGACTTCTGAGACTGCAGCTGGCAACAAGGAGCGCTCAGAGGCCCTGCGGCGCAACAGCTGG  
 AGCAGCAGCAGCGGGAGAATGAAGAACAAGCGGCAGCTACTGGCTGAGCGCCAGAAGCGCATCGAAGA  
 GCAGAAGGAGCAAAGCGGAGGCTGGAGGAGCAACAAGGCGAGAAAAAGAGCTTCGAAACAGCAGGAG  
 CGGAACAGCGCCGCACTACGAAGAACAGATGCGTGGGAGGAGGAGAGGCGCTGCCGAACATGAGC  
 AGGAATATAAGCCAAACAATTGGAAGAACAGAGACAAGCAGAAAGACTGCAGAGGCAGCTAAAGCAAGA  
 GCGGGACTATCTGGTTCCCTCCAGCATCAGCGGAGGAGGAGGAGGCGCTGCCGAACATGAGC  
 CATTACAAGGAGGCATGAGTCCTAGTGAAGCCGGCCTGGGCAAGGAGGTAGAAGAAGCCTCAAGAC



[View online »](#)

TCAACCGACAGAGTTCACCTGCCATGCCTCACAAGGTTGCCAACAGGATCTCGGACCCCAACCTGCCCC  
 AAGATCAGAGTCCTTCAGCATTAGTGGGTTTCAGCCTGCAAGGACACCCCAATGCTCAGACCTGTTGAC  
 CCCAGATCCCGCAGCTGGTAGCTGTCAAATCCCAGGGACCTGCCTTGACGGCTCCCAGTCAGTACATG  
 AGCAACCCACAAAGGGCTGTCTGGGTTCCAGGAGGCTCTGAATGTGACCTCTCACCGGGTCGAGATGCC  
 ACGCCAGAACTCGGATCCACCTCAGAAAACCTCCTCTCCACGAGAATTGAGAAGTTTGACAGAAGC  
 TCTTGGTTACGACAGGAAGAAGACATCCACCAAAGTGCCTCAAAGAACAACCTCTATATCCCCAGCAC  
 TAGCCAGAAAGAATTCCCCTGGCAATGGCAGTGCCTGCGGCCAGACTGGATCTCAGCCATCAGAGC  
 AAGCAACCCTGATCTGCGCAGGACAGAGCCAGTCTGGAGAGTTCCCTGCAGCGGACAAGCAGTGGCAGT  
 TCCTCCAGCTCCAGCACTCCCAGCTCCCAGCCAGCTCCAAGGAGGCTCTCAACCTGGCTCCCAAGCAG  
 GATCTAGTGAGCGGTCCAGAGTGCGGGCAACAGTAAGTCCGAAGGATCACCCGTGCTCCCCATGAGCC  
 TTCCAAGGTGAAACCAGAAGAATCCAGAGACATCACACGGCCAGTCGGCCAGCTGATCTGACGGCATT  
 GCCAAAGAATTACGAGAACTCCGCATTGAAGAAACAAACCGCCCTGAAGAAAGTACTGATTACTCTT  
 CCTCCAGCGAGGAGTCGGAGAGCAGTGAGGAAGAAGAGGAAGTGGAGAGAGTGAACACATGACGGGAC  
 GGTGGCTGTGAGTACATACCCAGACTAATACCCACCGGAGCTCCAGGGAACAATGAGCAGTACAACATG  
 GGGATGGTCGGGACACATGGGCTGAAACTTCGCATGCGGACACCTTTGGCGGCAGCATTCAAGAGAAG  
 GAACCTTGATGATCAGAGAGACGGCTGAAGAGAAGAAGCGATCTGGCCACAGTGACAGTAATGGATTTCG  
 CGTCCACATCAATCTCCCAGACCTGTACAGCAGAGCCATTTCGCCAGCTGGAACCTCCACTGAGGGGCTG  
 GGCCCGCTCTCCACTCATTCCCAGGAGATGGACTCTGGGGCTGAATATGGTATAGGGAGCAGCACC  
 CCTCTTTCACCCCTTCGTGGACCTCGAGTGTACCAGACATCGCCACTGATGAAGATGAAGAGGATGA  
 TGAGTCTTCAGCTGCTGCCCTGTTTACTAGCGAACTTCTTAGGCAAGAACAGGCCAACTCAATGAAGCG  
 AGGAAGATTTTCAGTGGTAAATGTGAACCAACAAACATTCGCCCTCATAGTGACACACCGGAAATCAGAA  
 AATACAAGAAACGCTTCAATTCAGAAACTTTGTGCAGCTCTATGGGGTGTGAACCTTCTGGTGGGGAC  
 TGAAAATGGCCTGATGCTTTTGGACAGAAGTGGCCAAGGCAAGTCTACAACCTAATCAACCGGAGGGC  
 TTCAGCAGATGGATGTGCTAGAAGGACTAAATGTTCTTGTACAGATATCAGGAAAGAAGAACAAGCTCC  
 GTGTGACTATCTCATGGTTAAGAAACAGAATCCTGCACAATGACCCAGAAGTGGAAAAGAAGCAGGG  
 CTGGATCACTGTCGGTGACTTGAAGGCTGCATCCATTACAAAGTCGTTAAATATGAAAGAATCAAGTTC  
 CTGGTGATTGCCTTAAAGAATGCAGTAGAGATATGCGTGGGCCCTAAACCTTACCATAAGTTTCATGG  
 CATTAAAGTCTTTTGCAGATCTTCAGCATAAGCCTCTGCTCGTTGACCTCACAGTAGAAGAAGGTCAAAG  
 GTTAAAGTGCATATTTGGCTCACACTGGTTCCATGTAATTGATGTTGATTCTGGAACTCCTACGAT  
 ATCTATATACCATCCCATATTCAGGGCAATATCACTCCTCATGCTATCGTCATCTTGCTAAAACAGATG  
 GAATGGAGATGCTGTGCTATGAGGATGAAGGGGTGTACGTGAACACCTACGGCCGGATCACTAAGGA  
 TGTGGTGTCCAATGGGAGAAAATGCCACATCTGTGGCCTACATTCATTCCAATCAGATAATGGGCTGG  
 GGCGAGAAAGCTATTGAGATCCGGTCAGTGAAACAGGACATTTGGATGGAGTGTATGCATAAACGAG  
 CTCAAAGGTTAAAGTTTCTATGTGAAAGAAATGATAAGGTATTTTTTGCATCCGTGCGATCTGGAGGAAG  
 TAGCCAAGTGTTCATGACCCCAACAGAAATCCATGATGAAGTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 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.