

## Product datasheet for MC224337

### Tnik (NM\_026910) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tnik (NM_026910) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tnik
Synonyms:	1500031A17Rik; 4831440I19Rik; AI451411; C530008O15Rik; C630040K21 Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224337 representing NM_026910 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGAGCGACTCCCCAGCTCGCAGCCTGGATGAAATCGATCTCTCCGCCCTGAGGGACCCTGCAGGGA  
TCTTTGAGTTGGTGAACCTGTGCGAAATGGCAGCTATGGTCAAGTTTATAAGGGTCGTCATGTCAAAC  
GGCCAGCTTGTGCCATTAAGTTATGGATGTCACAGGGGATGAAGAGGAAGAAATCAAACAAGAAATT  
AACATGTTGAAGAAATTTCTCATCACAGGAACATTGCTACATACTACGGTGCTTTTATCAAAAAGAAC  
CTCCTGGCATGGATGACCAACTCTGGTTGGTTATGGAGTTCTGTGGTGGCTCTGTCACCTGACCTGAT  
CAAGAACACGAAAGGCAACACATTGAAAGAGGAGTGGATTGCATACATCTGCAGGGAGATCTTACGGGGC  
CTGAGTCACCTGCACCAGCACAAAGTGATTCATCGAGATATCAAAGGGCAGAACGCTTGTGGTACTGAAA  
ATGCAGAGGTTAAGCTAGTGGATTTTGGAGTGAGTGCCAGCTTGACCGAACTGTGGCAGGAGGAACAC  
GTTTCATCGGGACTCCCTACTGGATGGCACCAGAAGTCAATGCCTGTGATGAGAACCCGGATGCCACAT  
GATTTCAAGAGTGACTTGTGGTCTTTGGGAATCACCGCATTGAGATGGCAGAAGGTGCCCCCCCTCT  
GTGACATGCATCCCATGAGAGCCCTCTTCTCATCCACGGAACCTGCACCTCGGCTCAAGTCTAAGAA  
GTGGTCAAAAAAATCCAGTCATTTATCGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGGCCAGCCAGC  
GAGCAGTTGATGAAGCACCCATTATACAGAGCAACCTAATGAGAGGCAGGTCCGCATCCAGCTGAAGG  
ACCACATTGATCGAACAAAGAAGAAGCGAGGAGAAAAAGATGAGACTGAGTATGAATACAGCGGAAGTGA  
GGAAGAAGAGGAAGAGAATGACTCTGGGAACCCAGCTCCATTCTGAACCTACCAGGGGAGTCAACACTG  
CGAAGGGACTTCTGAGACTGCAGCTGGCAACAAGGAGCGCTCAGAGGCCCTGCGGCGCCAACAGCTGG  
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GCAGAAGGAGCAAAGCGGAGGCTGGAGGAGCAACAAGGCGAGAAAAAGAGCTTCGAAACAGCAGGAG  
CGGAACAGCGCCGCACTACGAAGAACAGATGCGTGGGAGGAGGAGAGGCGTCCGAACATGAGC  
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TGAGCAAGCTCTACTTCTGGAATATAAGCGCAAACAATTGGAAGAACAGAGACAAGCAGAAAGACTGCAG  
AGGCAGCTAAAGCAAGAGCGGGACTATCTGTTTCCCTCCAGCATCAGCGGCAGGAGCAGAGGCCCTGG



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AGAAGAAGCCACTGTACCATTACAAGGAGGGCATGAGTCCTAGTGAGAAGCCGGCCTGGGCCAAGGAGGT  
 AGAAGAACGCTCAAGACTCAACCGACAGAGTTCACCTGCCATGCCCTACAAGGTTGCCAACAGGATCTCG  
 GACCCCAACCTGCCCCCAAGATCAGAGTCTTCAGCATTAGTGGGGTTCAGCCTGCAAGGACACCCCAA  
 TGCTCAGACCTGTTGACCCCAAGATCCCGCAGCTGGTAGCTGTCAAATCCAGGGACCTGCCTTGACGGC  
 CTCCCAGTCAGTACATGAGCAACCCACAAGGGCCTGTCTGGGTCCAGGAGGCTCTGAATGTGACCTCT  
 CACCGGGTCGAGATGCCACGCCAGAACTCGGATCCCACCTCAGAAAACCCCTCTCTCCCACGAGAATTG  
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 TTCTATATCCCCAGCACTAGCCAGAAAGAATTCCCTGGCAATGGCAGTGCCTCTGGGCCCCAGACTTGGA  
 TCTCAGCCATCAGAGCAAGCAACCCTGATCTGCGCAGGACAGAGCCAGTCTGGAGAGTTCCTGCAGC  
 GGACAAGCAGTGGCAGTTCCTCCAGCTCCAGCACTCCAGCTCCAGCCAGCTCCCAAGGAGGCTCTCA  
 ACCTGGCTCCCAAGCAGGATCTAGTGAGCGGTCCAGAGTGCAGGCAACAGTAAGTCCGAAGGATCACCC  
 GTGCTCCCCATGAGCCTTCCAAGGTGAAACCAGAAGAATCCAGAGACATCACACGGCCAGTCGGCCAG  
 CTAGCTATAAGAAAGCTATAGATGAGGATCTGACGGCATTAGCCAAGAATTACGAGAACTCCGATTGA  
 AGAAACAACCGCCCTGAAGAAAGTACTGATTACTCTTCTCCAGCAGGAGTGGAGAGCAGTGAG  
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 TACCCACCGAGCTCCAGGGAACAATGAGCAGTACAACATGGGGATGGTGGGACACATGGGCTGGAAC  
 TTCGATGCGGACACCTTTGGCGCAGCATTTCAGAGAAGGAACCTTGATGATCAGAGAGACGGCTGAA  
 GAGAAGAAGCGATCTGGCCACAGTGACAGTAATGGATTGCGCGGTACATCAATCTCCCAGACCTTGATC  
 AGCAGAGCCATTCGCCAGCTGGAACCTCCACTGAGGGGCTGGGCCGCGTCTCCACTATTCCCAGGAGAT  
 GGACTCTGGGGTGAATATGGTATAGGGAGCAGCACCAAGCCTCTTCCACCCCTTCGTGGACCCTCGA  
 GTGTACCAGACATCGCCACTGATGAAGATGAAGAGGATGATGAGTCTTCAGTCTGCCCTGTTTACTA  
 GCGAATCTTAGGCAAGAACAGGCCAACTCAATGAAGCGAGGAAGATTCAGTGGTAAATGTGAACCC  
 AACAAACATTGCCCCTCATAGTGACACACCCGAAATCAGAAAATACAAGAAACGTTCAATTCAGAAATA  
 CTTTGTGCAGCTCTATGGGGTGTGAACCTTCTGGTGGGACTGAAAATGGCCTGATGCTTTTGGACAGAA  
 GTGGCCAAGGCAAGTCTACAACCTAATCAACCGAGGGGTTTTCAGCAGATGGATGTGCTAGAAGGACT  
 AAATGTTCTGTGACGATATCAGGAAAGAACAAGCTCCGTGTGACTATCTCTCATGGTTAAGAAAC  
 AGAATCTGCACAATGACCCAGAAGTGGAAAAGAAGCAGGGCTGGATCACTGTGCGTGACTTGAAGGCT  
 GCATCCATTACAAAGTCGTTAAATATGAAAGAATCAAGTTCCTGGTGATTGCCTTAAAGAATGCAGTAGA  
 GATATATGCGTGGGCCCTAACCTTACCATAAGTTCATGGCATTAAAGTCTTTTGCAGATCTTCAGCAT  
 AAGCCTCTGCTCGTTGACCTCACAGTGAAGAAGTCAAAGGTTAAAGGTCATATTTGGCTCACACTG  
 GTTCCATGTAATTGATGTTGATTCTGGAACTCTACGATATCTATATACCATCCCATATTCAGGGCAA  
 TATCACTCCTCATGCTATCGTCATCTTGCTAAAACAGATGGAATGGAGATGCTTGTCTGCTATAGGAT  
 GAAGGGTGTACGTGAACACCTACGGCCGATCACTAAGGATGTGGTGTCTCAATGGGGAGAAATGCCCA  
 CATCTGTGGCCTACATTCATTCCAATCAGATAATGGGCTGGGGCGAGAAAGCTATTGAGATCCGGTCAGT  
 GGAACAGGACATTTGGATGGAGTGTATGCATAAACGAGCTCAAAGGTTAAAGTTTCTATGTGAAGA  
 AATGATAAGGTATTTTTGCATCCGTGCGATCTGGAGGAAGTAGCCAAGTGTTTTTTCATGACCCTCAACA  
 GAAATTCATGATGAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM\_026910

Insert Size: 4083 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).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_026910.1</a></u> , <u><a href="#">NP_081186.1</a></u>
<b>RefSeq Size:</b>	7146 bp
<b>RefSeq ORF:</b>	4083 bp
<b>Locus ID:</b>	665113
<b>Cytogenetics:</b>	3 A3
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes isoform 1.</p>