

Product datasheet for MC224317

Tnik (NM_001163007) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Tnik (NM_001163007) 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: | >MC224317 representing NM_001163007 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGCGACTCCCCAGCTCGCAGCCTGGATGAAATCGATCTCTCCGCCCTGAGGGACCTGCAGGGA
TCTTTGAGTTGGTGAACCTGTGCGAAATGGCACGTATGGTCAAGTTTATAAGGGTCGTATGTCAAAC
GGGCCAGCTTGCTGCCATTAAGTTATGGATGTCACAGGGGATGAAGAGGAAGAAATCAAACAAGAAAT
AACATGTTGAAGAAATATCTCATCACAGGAACATTGCTACATACTACGGTGCTTTTATCAAAAAGAACC
CTCCTGGCATGGATGACCAACTCTGGTTGGTTATGGAGTTCTGTGGTGTGGCTCTGTCACTGACCTGAT
CAAGAACACGAAAGGCAACACATTGAAAGAGGAGTGGATTGCATACATCTGCAGGGAGATCTACGGGGC
CTGAGTCACTGCACCAGCACAAAGTGATTCATCGAGATATCAAAGGGCAGAACGTCTTGTGTGACTGAAA
ATGCAGAGGTTAAGCTAGTGGATTTTGGAGTGAGTGCCCGACTTGACCGAAGTGTGGGCAGGAGGAACAC
GTTTCATCGGGACTCCCTACTGGATGGCACCAGAAGTCAATGCCTGTGATGAGAACCCGGATGCCACATAT
GATTTCAAGAGTGACTTGTGGTCTTTGGGAATCACCGCCATTGAGATGGCAGAAGGTGCCCCCCCTCT
GTGACATGCATCCCATGAGAGCCCTCTTCTCATCCCACGGAACCCCTGCACCTCGGCTCAAGTCTAAGAA
GTGGTCAAAAAAATTCAGTCATTTATCGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGCCAGCCACG
GAGCAGTTGATGAAGCACCCATTACACGAGACCAACCTAATGAGAGGCAGGTCCGCATCCAGCTGAAGG
ACCACATTGATCGAACAAAGAAGAAGCGAGGAGAAAAAGATGAGACTGAGTATGAATACAGCGGAAGTGA
GGAAGAAGAGGAAGAGAATGACTCTGGGAACCCAGCTCCATTCTGAACCTACCAGGGGAGTCAACACTG
CGAAGGGACTTCTGAGACTGCAGCTGGCCAACAAGGAGCGCTCAGAGGCCCTGCGGCGCCAACAGCTGG
AGCAGCAGCAGCGGGAGAATGAAGAACAAGCGGCAGCTACTGGCTGAGCGCCAGAAGCGCATCGAAGA
GCAGAAGGAGCAAAGGCGGAGGCTGGAGGAGCAACAAGGCGAGAAAAAGAGCTTCGAAACAGCAGGAG
CGGAACAGCGCCGCACTACGAAGAACAGATGCGTCGGGAGGAGGAGGAGGCGTCCGAACATGAGC
AGGAATACATCAGGCGGCAGCTAGAAGAAGAGCAAAGGCAGTTAGAGATCTTACAGCAGCAGCTACTGCA
TGAGCAAGCTCTACTTCTGGAATATAAGCGCAACAATTGGAAGAACAGAGACAAGCAGAAAGACTGCAG



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AGGCAGCTAAAGCAAGAGCGGGACTATCTGGTTTCCCTCCAGCATCAGCGGCAGGAGCAGAGGCCCTGG
 AGAAGAAGCCACTGTACCATTACAAGGAGGGCATGAGTCCTAGTGAGAAGCCGGCCTGGGCCAAGGAGGT
 AGAAGAACGCTCAAGACTCAACCAGCAGAGTTCACCTGCCATGCCTCACAAGGTTGCCAACAGGATCTCG
 GACCCCAACCTGCCCCCAAGATCAGAGTCTTCAGCATTAGTGGGGTTCAGCCTGCAAGGACACCCCAA
 TGCTCAGACCTGTTGACCCCAAGATCCCGCAGCTGGTAGCTGTCAAATCCCAGGGACCTGCCTTGACGGC
 CTCCCAGTCAGTACATGAGCAACCCACAAGGGCCTGTCTGGGTTCCAGGAGGCTCTGAATGTGACCTCT
 CACCGGTCGAGATGCCACGCCAGAATCGGATCCCACCTCAGAAAACCCCTCTCTCCCACGAGAATTG
 AGAAGTTTGACAGAAGCTCTTGGTTACGACAGGAAGAAGACATTCCACCAAAGGTGCCTCAAAGAACAAC
 TTCTATATCCCCAGCACTAGCCAGAAAAGATTCCCTGGCAATGGCAGTGTCTGGGCCCAAGACTTGGAA
 TCTCAGCCATCAGAGCAAGCAACCCTGATCTGCGCAGGACAGAGCCAGTCTGGAGAGTTCCTGCAGC
 GGACAAGCAGTGGCAGTTCCTCCAGCTCCAGCACTCCCAGCTCCCAGCCAGCTCCAAGGAGGCTCTCA
 ACCTGGCTCCCAAGCAGGATCTAGTGAGCGGTCCAGAGTGCAGGCAACAGTAAGTCCGAAGGATCACCC
 GTGCTCCCCATGAGCCTTCCAAGGTGAAACCAGAAGAATCCAGAGACATCACACGGCCAGTCGGCCAG
 CTGATCTGACGGCATTAGCCAAAGAATTACGAGAACTCCGATTGAAGAAAACAAACCGCCCTGAAGAA
 AGTGACTGATTACTTCTCCAGCGAGGAGTCGGAGAGCAGTGAGGAAGAAGAGGAAGATGGAGAGAGT
 GAGACACATGACGGGACGGTGGCTGTGAGTACATACCCAGACTAATACCCACCGGAGCTCCAGGGAACA
 ATGAGCAGTACAACATGGGGATGGTCGGGACACATGGGCTGGAACCTTCGCATGCGGACACCTTTGGCGG
 CAGCATTTCAAGAGAAGGAACCTTGATGATCAGAGAGACGGTGAAGAGAAGAAGCGATCTGGCCACAGT
 GACAGTAATGGATTCCGCGGTACATCAATCTCCAGACCTTGTACAGCAGAGCCATTGCCAGCTGGAA
 CTCCCAGTGAAGGGCTGGGCCGGTCTCCACTCATTCCCAGGAGATGGACTCTGGGGTGAATATGGTAT
 AGGGAGCAGCACAAAGCCTCTTACCCCTTCGTGGACCCTCGAGTGTACCAGACATCGCCACTGAT
 GAAGATGAAGAGGATGATGAGTCTTCAGTGGTAAATGTGAACCAACAACATTCGCCTCATAGTGA
 CACACCGGAAATCAGAAAATACAAGAAACGCTTCAATTCAGAAATACTTGTGACGCTCATGGGGTGTG
 AACCTTCTGGTGGGACTGAAAATGGCCTGATGCTTTTGGACAGAAGTGCCAAAGCAAAGTCTACAACC
 TAATCAACCGGAGGCGGTTTTCAGCAGATGGATGTGCTAGAAGGACTAAATGTTCTGTACAGATATCAGG
 AAAGAAGAACAAGCTCCGTGTACTATCTCTCATGGTTAAGAAACAGAATCCTGCACAATGACCCAGAA
 GTGGAAAAGAAGCAGGGCTGGATCACTGTCGGTGACTTGGAAAGGCTGCATCCATTACAAAGTCGTTAAAT
 ATGAAAGAATCAAGTTCCTGGTATTGCCTTAAAGAATGCAGTAGAGATATATGCGTGGGCCCTAAACC
 TTACCATAAGTTCATGGCATTAAAGTCTTTTGCAGATCTTCAGCATAAGCCTCTGCTCGTTGACCTCACA
 GTAGAAGAAGTCAAAGTTAAAGTTCATATTTGGCTCACACACTGGTTTCCATGTAATTGATGTTGATT
 CTGAAAACCTCCTACGATATCTATATACCATCCCATATTCAGGGCAATATCACTCCTCATGCTATGCTCAT
 CTTGCCTAAAACAGATGGAATGGAGATGCTTGTCTGCTATGAGGATGAAGGGGTGACGTGAACACCTAC
 GGCCGGATCACTAAGGATGTGGTGTCCAAATGGGGAGAAAATGCCACATCTGTGGCTACATTATTCCA
 ATCAGATAATGGGCTGGGGCGAGAAAGCTATTGAGATCCGGTCAGTGGAACAGGACATTTGGATGGAGT
 GTTTATGCATAAACGAGCTCAAAGGTTAAAGTTTCTATGTGAAAGAAATGATAAGGTATTTTTGCATCC
 GTGCGATCTGGAGGAAGTAGCCAAGTGTTTTTCATGACCTCAACAGAAATTCATGATGAAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_001163007

Insert Size:

4059 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).

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| 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: | <u>NM_001163007.1, NP_001156479.1</u> |
| RefSeq Size: | 7122 bp |
| RefSeq ORF: | 4059 bp |
| Locus ID: | 665113 |
| Cytogenetics: | 3 A3 |
| Gene Summary: | <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 (2) lacks an internal, in-frame coding exon compared to variant 1, resulting in a shorter isoform (2) missing an 8 aa protein segment compared to isoform 1.</p> |