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Product datasheet for MC224348

Tnik (NM_001163009) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnik (NM_001163009) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tnik
Synonyms:	1500031A17Rik; 4831440I19Rik; AI451411; C530008O15Rik; C630040K21Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224348 representing NM_001163009 Red=Cloning site Blue=ORF TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGAGCGACTCCCCAGCTCGCAGCCTGGATGAAATCGATCTCTCCGCCCTGAGGGACCCTGCAGGGA TCTTTGAGTTGGTGGAACTTGTCGGAAATGGCACGTATGGTCAAGTTTATAAGGGTCGTCATGTCAAAAC GGGCCAGCTTGCTGCCATTAAGGTTATGGATGTCACAGGGGATGAAGAGGAAGAAATCAAACAAGAAATT AACATGTTGAAGAAATATTCTCATCACAGGAACATTGCTACATACTACGGTGCTTTTATCAAAAAGAACC CTCCTGGCATGGATGACCAACTCTGGTTGGTTATGGAGTTCTGTGGTGCTGGCTCTGTCACTGACCTGAT CAAGAACACGAAAGGCAACACATTGAAAGAGGAGTGGATTGCATACATCTGCAGGGAGATCTTACGGGGC CTGAGTCACCTGCACCAGCACAAAGTGATTCATCGAGATATCAAAGGGCAGAACGTCTTGTTGACTGAAA ATGCAGAGGTTAAGCTAGTGGATTTTGGAGTGAGTGCCCAGCTTGACCGAACTGTGGGCAGGAGGAACAC GTTCATCGGGACTCCCTACTGGATGGCACCAGAAGTCATTGCCTGTGATGAGAACCCGGATGCCACATAT GATTTCAAGAGTGACTTGTGGTCTTTGGGAATCACCGCCATTGAGATGGCAGAAGGTGCCCCCCCCCTCT GTGACATGCATCCCATGAGAGCCCTCTTCCTCATCCCACGGAACCCTGCACCTCGGCTCAAGTCTAAGAA GTGGTCAAAAAAATTCCAGTCATTTATCGAGAGCTGCTTGGTAAAGAATCACAGCCAGCGGCCAGCCACG GAGCAGTTGATGAAGCACCCATTCATACGAGACCAACCTAATGAGAGGCAGGTCCGCATCCAGCTGAAGG ACCACATTGATCGAACAAAGAAGAAGCGAGGAGAAAAAGATGAGACTGAGTATGAATACAGCGGAAGTGA GGAAGAAGAGGAAGAGAATGACTCTGGGGAACCCAGCTCCATTCTGAACCTACCAGGGGAGTCAACACTG CGAAGGGACTTCCTGAGACTGCAGCTGGCCAACAAGGAGCGCTCAGAGGCCCTGCGGCGCCAACAGCTGG AGCAGCAGCAGCGGGAGAATGAAGAACACAAGCGGCAGCTACTGGCTGAGCGCCAGAAGCGCATCGAAGA GCAGAAGGAGCAAAGGCGGAGGCTGGAGGAGCAACAAAGGCGAGAAAAAGAGCTTCGGAAACAGCAGGAG CGGGAACAGCGCCGGCACTACGAAGAACAGATGCGTCGGGAGGAGGAGAGGAGGCGTGCCGAACATGAGC AGGAATACATCAGGCGGCAGCTAGAAGAAGAGCAAAGGCAGTTAGAGATCTTACAGCAGCAGCTACTGCA TGAGCAAGCTCTACTTCTGGAATATAAGCGCAAACAATTGGAAGAACAGAGACAAGCAGAAAGACTGCAG AGGCAGCTAAAGCAAGAGCGGGACTATCTGGTTTCCCTCCAGCATCAGCGGCAGGAGCAGAGGCCCCTGG

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AGAAGAAGCCACTGTACCATTACAAGGAGGGCATGAGTCCTAGTGAGAAGCCGGCCTGGGCCAAGGAGGT
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CTCAAGTCACATCTGTGTTCAATGATCAATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001163009

Insert Size: 4092 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_001163009.1, NP_001156481.1
RefSeq Size:	4625 bp
RefSeq ORF:	4092 bp
Locus ID:	665113
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 (4) lacks an internal, in-frame coding exon, and differs at the 3' end compared to variant 1, resulting in a longer isoform (4) with a distinct C-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.