

Product datasheet for MC224323

Tnr (NM_022312) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tnr (NM_022312) Mouse Untagged Clone
Tag: Tag Free
Symbol: Tnr
Synonyms: J1-tenascin; janusin; restrictin; TN-R
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224323 representing NM_022312
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGGATCGATGGGAAACAGTAGTCTTGAAGAACATGCTCATTGGTGTAAACCTGATCCTGTTGGGAT
 CCATGCTCAAGCCTTCTGAGTGTGGCTGGAGGTGACTACAGAAAGGGCTCAGAGACAACTGTGGAGGA
 GGAAGGAGGGGCTTCCAGCTACAATACTCCAGCAAGGAACAGCCTATGGTCTTCAACCATGTGTATAAC
 ATCAACGTGCCACTTGAAGCCTCTGCTCCTCGGGCTGGAGGCCTCAGCTGAGCAGGACATGAGTGCTG
 AAGATGATACTCTGGCCGAATACATAGGCCAAACCTCAGACCATGAAAGCCAGGTTACCTTCACCCACAA
 GATCAACCTCCCCAAAAAGCCTGCCCATGTGCAAGCTCTTCCAGGTAAGTGCAGGAACTGCTGAGCCGG
 ATCGAGATGCTGGAGAGGGAGGTGCTTGTGCTGCGAGACCAAGTGAATACCAACTGCTGTGAGGAAAGCG
 CTGCCACAGGACAAGTGGACTATGTCCCTCACTGCAGCGGCCATGGCAACTTTAGCTTCGAGTCTGTGG
 CTGCATCTGCAATGAAGGCTGGTTTGGCAAGAAGTGTGAGCCCTACTGCCACTGGGCTGCTCCAGT
 CGGGGTGTGTGTGCGATGGCCAGTGCATTTGTGACAGTGAATACAGCGGAGATGACTGTTACAGACTCC
 GGTGCCAACAGACTGCAGTCCCGAGGGCTCTGTGTTGGATGGGGAATGTGTCTGTGAAGAGCCCTACAC
 AGGCGAGGACTGCAGGGAGCTGCCCTGGGGACTGTTACAGGAAGGGCAATGTGCCAATGGTACC
 TGCTGTGCCAAGAGGGCTATGCTGGTGGAGACTGCAGCCAGCGACGGTGTCTGAATGCCTGCAGTGGGC
 GAGGTAAGTGCAGGAGGGGCTCTGCATCTGTGAGGAAGGCTACCAGGGCCCTGACTGCTCAGCAGTTGC
 CCCTCCAGAGGACTTGCAGTGGCTGGTATCAGCGACAGGTCCATTGAGCTGGAATGGGACGGGCCGATG
 GCAGTGACGGAATATGTGATCTTACCAGCCGACGGCCCTGGGGGCCCTCAGCTCCAGCAGCGGGTGC
 CTGGAGATTGGAGTGGTGTACCATCATGGAGCTGGAGCCAGGTCTCACCTACAACATCAGCGTCTACGC
 TGTATTAGCAACATCCTCAGCCTCCCATCACTGCCAAGGTGGCCACTCATCTCCACTCCTCAAGGG
 CTACAGTTCAAGACGATCACAGAGACCACCGTGGAGGTGAGTGGGAGCCCTTCTTTTCTCCTTCGACG
 GGTGGGAGATCAGCTTATTCCAAGAACAATGAAGGAGGGGTGATTGCTCAGCTCCCAGCGATGTGAC
 GTCTTTAACCAGACAGGACTGAAACCTGGGGAGGAGTACATTGTGAATGTTGTGGCTCTAAAGGAACA
 GCCCGAGCCCTCCTACCTCTGCCAGCTCTCCACTGTGATTGACGGGCCACACAGATCCTGGTTCGAG



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ATGTCTCTGATACTGTGGCTTTTGTGGAATGGACCCACCTCGAGCCAAAGTTGATTTTCATTCTTTTAAA
 ATATGGCTTGGTGGGTGGCGAAGGCGGGAAGACGACCTTCCGGCTGCAGCCTCCCTTAAGCCAGTACTCC
 GTGCAAGCCCTTAGACCTGGCTCGCGCTACGAGGTGCCATCAGCGCAGTCCGGGGGACCAATGAGAGTG
 AAGCCTCAAGCACCAATTTACAACAGAGATTGATGCTCCAAGAATTTGCGAGTGGGTTCCCGCACAGC
 AACTAGCCTTGACCTGGAATGGGATAACAGCGAGGCCGAAGCTCAGGAGTACAAGTTGTGTACAGCACC
 TTAGCTGGTGAACAGTACCACGAAGTCTGTTACCCAAGGGCATTGGCCCACTACCAAGACTACCCTCA
 CAGATCTGGTCCAGGCACAGAGTATGGAGTTGGAATATCTGCAGTAATGAACTAAAACAAGCATTCC
 TGCCACTATGAATGCCAGGACTGAACTTGACAGTCCCGAGACCTCATGGTAACAGCCTCCTCAGAGACC
 TCTATCTCTCATCTGGACCAAGGCCAGTGGTCCCATTGATCACTACAGAATTACTTTTACCCCATCTT
 CTGGGATCTCCTCGAAGTCACTGTGCCAGGGATAGGACTTCATACACACTAACAGATCTAGAGCCTGG
 AGCAGAATACATTATCTCCATCACTGCTGAGAGGGTCCGCAGCAGAGCCTGGAGTCTACTGTGGATGCC
 TTCACAGGCTCCGCCCTATCTCCATTGCACTTTTCTCATGTGACCTCCTCCAGTGTCAATATCACCT
 GGAGTGACCCATCTCCCCAGCAGACAGACTCATTCTGAACTACAGCCCCAGGGACAAAGAGGAAGACAT
 GTTGGAGTCTCTGGATGCCACCAAGAGGCACGCTGTCTTGATGGGTCTACAGCCAGCCACTGAATAT
 ATAGTGAACCTTGTAGCTGTCCATGGGACGGTAACCTCTGAACCCATAGTGGGTTCTACTACAGGAA
 TTGATCCTCCAAAACATCACAATTAGCAACGTGACTAAGGACTCCCTGACGGTGTCTGGAGCTCTCC
 TGTTGCGCCTTTTGATTACTACCGAGTATCGTACCGACCCACCCAAGTGGGACGGCTAGACAGCTCCGTA
 GTGCCAACACCGTGACAGAGTTCGCCATCACCAGGCTGTATCCAGTACTGAATATGAAATAAGCCTCA
 ACAGTGTACGGGGCAGGGAGGAGTGAACGCATCTGCACCCTGGTGCACACAGCCATGGATAGCCCCAT
 GGATTTGATCGTACCAACATCACACCTACAGAAGCCTTGCTCCAGTGGAAAGCACCCATGGGTGAAGTG
 GAAAATTATGTCATCGTCTCACACACTTTGCAATTGCTGGAGAGACCATCCTGGTTGACGGGGTCAGCG
 AAGAATTCAGCTTGTAGACTTGCTTCTAGCACCCACTACACTGTCATATGTATGCCACCAAGTGGGCC
 TCTCATGAGTGGCACCATTGCCACCAACTTCTCACCCCTCTGGACCCTGACAACTGACAGCCAGT
 GAAGTACCAGGCAAGCGCACTGATCTCTGGCAGCCGCCAGAGCTGCGATTGAAAACATATGTCTTGA
 CATAAAGTCCACCGATGGAAGCCGCAAAGAGCTGATAGTGGATGCTGAGGACACCTGGATCCGACTAGA
 GGGCCTGTGAGAGAACACAGACTACACAGTGTCTCTGCAGGCAGCCAGGAGGCCACAAGGAGCAGTCTC
 ACCTCTACTGTCTTACCACAGGGGGCCGGTGTCTCTCATCTCAAGACTGTGCCAGCATTGATGA
 ATGGAGACTCTGAGTGGCGTTACACCATCTCCTCAATGGGGAGCTAAGCCACAAGCTGCAAGTGA
 CTGTGACATGACCACAGATGGGGCGGCTGGATTGTATTCCAGAGGCGGCAAAATGGACAAACTGATTTT
 TTCGGAAATGGCAGATTATCGTGTGGCTTTGGGAATCTGGAGGATGAGTTTTGGCTAGGGCTAGACA
 ACATCCACAGGATAACAGCCCAGGGCCGCTATGAGCTGCGTGTGGATATGCGGGATGGACAGGAAGCAGT
 CTTTGCCTACTATGACAAGTTCGCTGTGGAGGACAGCAGAAGCCTGTACAAGATCCGCATAGGAAGTTAC
 AATGGCACTGCAGGAGACTCCCTCAGCTATCACCAGGGACGTCCTTTCTCCACTGAGGACAGAGACAATG
 ATGTTGCAGTACCAACTGTGCCATGTCTACAAGGGTCTTGGTGGTATAAAGAACTGCCACCGGACCAA
 CCTCAACGGGAAGTACGGGGAGTCCAGGCACAGTACGGGGATCAACTGGTACCATTGGAAAGGCCATGAA
 TTCTCCATCCCCTTTGTAGAAAATGAAGATGAGGCCCTACATCCATCGTCTCACAGCCGGGAGGAAACGGC
 GAGCCTTGAATTCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_022312

Insert Size:

4077 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:	<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_022312.3</u> , <u>NP_071707.2</u>
RefSeq Size:	5395 bp
RefSeq ORF:	4077 bp
Locus ID:	21960
UniProt ID:	<u>Q8BYI9</u>
Cytogenetics:	1 H1
Gene Summary:	Neural extracellular matrix (ECM) protein involved in interactions with different cells and matrix components. These interactions can influence cellular behavior by either evoking a stable adhesion and differentiation, or repulsion and inhibition of neurite growth. Binding to cell surface gangliosides inhibits RGD-dependent integrin-mediated cell adhesion and results in an inhibition of PTK2/FAK1 (FAK) phosphorylation and cell detachment. Binding to membrane surface sulfatides results in a oligodendrocyte adhesion and differentiation. Interaction with CNTN1 induces a repulsion of neurons and an inhibition of neurite outgrowth. Interacts with SCN2B may play a crucial role in clustering and regulation of activity of sodium channels at nodes of Ranvier. TNR-linked chondroitin sulfate glycosaminoglycans are involved in the interaction with FN1 and mediates inhibition of cell adhesion and neurite outgrowth. The highly regulated addition of sulfated carbohydrate structure may modulate the adhesive properties of TNR over the course of development and during synapse maintenance (By similarity).[UniProtKB/Swiss-Prot Function]