

## Product datasheet for MR225166

### Tnr (NM\_022312) Mouse Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Tnr (NM_022312) Mouse Tagged ORF Clone                                      |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Tnr   |
| Synonyms:                 | J1-tenascin; janusin; restrictin; TN-R                                      |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |
| ORF Nucleotide Sequence:  | >MR225166 representing NM_022312<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGATCGATGGGAAACAGTAGTCTTGAAGAACATGCTCATTGGTGTAAACCTGATCCTGTTGGGAT  
CCATGCTCAAGCCTTCTGAGTGTGCGCTGGAGGTGACTACAGAAAGGGCTCAGAGACAACTGTGGAGGA  
GGAAGGAGGGGCTTCCAGCTACAATACTCCAGCAAGGAACAGCCTATGGTCTTCAACCATGTGTATAAC  
ATCAACGTGCCACTTGAAGCCTCTGCTCCTCGGGCTGGAGGCCTCAGCTGAGCAGGACATGAGTGCTG  
AAGATGATACTCTGGCCGAATACATAGGCCAAACCTCAGACCATGAAAGCCAGGTTACCTTCACCCACAA  
GATCAACCTCCCCAAAAAGCCTGCCCATGTGCAAGCTCTCCAGGTAAGTGCAGGAACTGCTGAGCCGG  
ATCGAGATGCTGGAGAGGGAGGTGCTCTTGTGCGAGACCACTGCAATACCAACTGCTGTGAGGAAAGCG  
CTGCCACAGGACAACCTGGACTATGTCCCTCACTGCAGCGGCCATGGCAACTTTAGCTTCGAGTCTGTGG  
CTGCATCTGCAATGAAGGCTGGTTTGGCAAGAACTGCTCAGAGCCCTACTGCCACTGGGCTGCTCCAGT  
CGGGGTGTGTGTGTCGATGGCCAGTGCATTTGTGACAGTGAATACAGCGGAGATGACTGTTCCAGAGCTCC  
GGTGCCCAACAGACTGCAGTTCCCGAGGGCTCTGTGTGGATGGGGAATGTGTCTGTAAGAGCCCTACAC  
AGGCGAGGACTGCAGGGAGCTGCGCTGCCCTGGGACTGTTCCAGGAAGGGGCAATGTCCAATGGTACC  
TGCTGTGCCAAGAGGGCTATGCTGGTGGAGACTGCAGCCAGCGACGGTGTCTGAATGCCTCAGTGGGC  
GAGGCTCACTGCCAGGAGGGCTCTGCATCTGTGAGGAAGGCTACCAGGGCCCTGACTGCTCAGCAGTTGC  
CCCTCCAGAGGACTTGGCAGTGGCTGGTATCAGCGACAGGTCCATTGAGCTGGAATGGGACGGGCGGATG  
GCAGTGACGGAATATGTGATCTCTTACCAGCCGACGGCCCTGGGGGCTTCCAGCTCCAGCAGCGGGTGC  
CTGGAGATTGGAGTGGTGTACCATCATGGAGCTGGAGCCAGGTCTCACCTACAACATCAGCGTCTACGC  
TGTCATTAGCAACATCCTCAGCCTCCCATCACTGCCAAGGTGGCCACTCATCTCCACTCCTCAAGGG  
CTACAGTTCAAGACGATCACAGAGACCACCGTGGAGGTGACGTTGGAGCCCTTCTTTCTCCTTCGACG  
GGTGGGAGATCAGCTTCATTCAAAAGAACAATGAAGGAGGGGTGATTGCTCAGCTCCCAGCGATGTGAC  
GTCCTTTAACAGACAGGACTGAAACCTGGGGAGGAGTACATTGTAATGTTGTGGCTCTAAAGGAACAA



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GCCCCGAGCCCTCTACCTCTGCCAGCGTCTCCACTGTCATTGACGGGCCACACAGATCCTGGTTCGAG  
ATGTCTCTGATACTGTGGCTTTTGTGGAATGGACCCACCTCGAGCCAAAGTTGATTTTCATTCTTTTAAA  
ATATGGCTTGGTGGTGGCGAAGGCGGGAAGACGACCTCCGGCTGCAGCCTCCCTTAAGCCAGTACTCC  
GTGCAAGCCCTTAGACCTGGCTCGCGCTACGAGGTGCCATCAGCGCAGTCCGGGGGACCAATGAGAGTG  
AAGCCTCAAGCACCAATTTACAACAGAGATTGATGCTCCCAAGAATTTGCGAGTGGGTTCCCGCACAGC  
AACTAGCCTTGACCTGGAATGGGATAACAGCGAGGCCGAAGCTCAGGAGTACAAGTTGTGTACAGCACC  
TTAGCTGGTGAACAGTACCACGAAGTGTGGTACCCAAGGGCATTGGCCCACTACCAAGACTACCCTCA  
CAGATCTGGTTCCAGGCACAGAGTATGGAGTTGGAATATCTGCAGTAATGAACTCAAAACAAGCATTCC  
TGCCACTATGAATGCCAGGACTGAACTTGACAGTCCCGAGACCTCATGGTAACAGCCTCCTCAGAGACC  
TCTATCTCTCATCTGGACCAAGGCCAGTGGTCCCATTGATCACTACAGAATTACTTTTACCCCATCTT  
CTGGGATCTCCTCGAAGTCACTGTGCCAGGGATAGGACTTCATACACACTAACAGATCTAGAGCCTGG  
AGCAGAATACATTATCTCCATCACTGCTGAGAGGGTCCGCAGCAGAGCCTGGAGTCTACTGTGGATGCC  
TTCACAGGCTCCGCCATCTCCCATTTGCATTTTCTCATGTGACCTCCTCCAGTGTCAATATCACCT  
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GTTGGAGTCTCTTGGATGCCACCAAGAGGCACGCTGTCTTGATGGGTCTACAGCCAGCCACTGAATAT  
ATAGTGAACCTTGTAGCTGTCCATGGGACGGTAACCTCTGAACCCATAGTGGGTTCTACTACAGGAA  
TTGATCCTCCAAAAACATCACAATTAGCAACGTGACTAAGGACTCCCTGACGGTGTCTGGAGCTCTCC  
TGTTGCGCCTTTTGATTACTACCGAGTATCGTACCGACCCACCAAGTGGGACGGCTAGACAGCTCCGTA  
GTGCCAACACCGTGACAGAGTTCGCCATCACCAGGCTGTATCCAGTACTGAATATGAAATAAGCCTCA  
ACAGTGTACGGGGCAGGGAGGAGTGAACGCATCTGCACCCTGGTGCACACAGCCATGGATAGCCCCAT  
GGATTTGATCGTACCAACATCACACCTACAGAAGCCTTGCTCCAGTGGAAAGCACCCATGGGTGAAGTG  
GAAAATTATGTCATCGTCTCACACACTTTGCAATTGCTGGAGAGACCATCCTGGTTGACGGGGTCAGCC  
AAGAATTCAGCTTGTAGACTTGCTTCTAGCACCCACTACACTGTCATATGTATGCCACCAGTGGGCC  
TCTCATGAGTGGCACCATTGCCACCAACTTCTCCACCCTCCTGGACCCTCCTGACAACTGACAGCCAGT  
GAAGTACCAGGCAAAGCGCACTGATCTCCTGGCAGCCGCCCAGAGCTGCGATTGAAAATATGTCTTGA  
CATACAAGTCCACCGATGGAAGCCGCAAAGAGCTGATAGTGGATGCTGAGGACACCTGGATCCGACTAGA  
GGGCCTGTCAGAGAACACAGACTACACAGTGTCTCCTGCAGGCAGCCAGGAGGCCACAAGGAGCAGTCTC  
ACCTCTACTGTCTTTACCACAGGGGGCCGGGTGTTCTCTCATCCTCAAGACTGTGCCAGCATTTGATGA  
ATGGAGACTCTGAGTGGCGTTTACACCATCTCCTCAATGGGAGCTAAGCCACAAGCTGCAAGTGTA  
CTGTGACATGACCACAGATGGGGCGGTGGATTGTATTCCAGAGGCGGCAAAATGGACAAACTGATTTT  
TTCCGGAATGGGCAGATTATCGTGTGGCTTTGGGAATCTGGAGGATGAGTTTTGGCTAGGGCTAGACA  
ACATCCACAGGATAACAGCCAGGGCCGCTATGAGCTGCGTGTGGATATGCGGGATGGACAGGAAGCAGT  
CTTTGCCACTATGACAAGTTCGCTGTGGAGGACAGCAGAAGCCTGTACAAGATCCGCATAGGAAGTTAC  
AATGGCACTGCAGGAGACTCCCTCAGCTATCACCAGGGACGTCTTTCTCCACTGAGGACAGAGACAATG  
ATGTTGCAGTACCAACTGTGCCATGTCTACAAGGGTGTGGTGGTATAAGAAGTCCACCGGACCAA  
CCTCAACGGGAAGTACGGGGAGTCCAGGCACAGTCAAGGGATCACTGGTACCATTGGAAAGGCCATGAA  
TTCTCCATCCCCTTTGTAGAAAATGAAGATGAGGCCCTACATCCATCGTCTCACAGCCGGGAGGAAACGGC  
GAGCCTTGAATTC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225166 representing NM\_022312  
 Red=Cloning site Green=Tags(s)

MGIDGETVVLKNMLIGVNLILLGSMLKPSECRLEVTTERRAQRQTVEEEGASSYNTSSKEQPMVFNHVYN  
 INVPLESLCSSGLEASAEQDMSAEDDTLAEYIGQTSDESQVTFTHKINLPKACPCASSQVLQELLSR  
 IEMLEREVSLLRDQCNTNCCQESAATGQLDYVPHCSGHGNFSFESCGICNEGWFGKNCSEPYCPLGCCS  
 RGVCDVGQCI CDSEYSGDDCSELRCPTDCSSRGLCVDGECVCEEPYTGEDCRELRCPGDSCGKGQCANGT  
 CLCQEGYAGEDCSQRRCLNACSGRGHCQEGLCICEEGYQGPDCSAVAPPEDLRVAGISDRSIELEWDGPM  
 AVTEYVISYQPTALGGLQLQQRVPGDWSGVTIMELEPGLTYNISVYAVISNILSLPITAKVATHLSTPQG  
 LQFKTITETTVEVQWEPFSFDFGWEISFIPKNNEGGVI AQLPSDVTSFNQTGLKPGEEYIVNVVALKEQ  
 ARSPTSASVSTVIDGPTQILVRDVSDFVAFVWTPPRAKVDFILLKYGLVGGEGKTTFRLQPPLSQYS  
 VQALRPGSRYEVSISAVRGTNESEASSTQFTTEIDAPKNLRVGSRTATSLDLEWDNSEAEAEQYKVVYST  
 LAGEQYHEVLVPGIGPTTKTTLTDLVPGTEYGVGISAVMNSKQSI PATMNARTELDSPRDLMTASSET  
 SISLIWTKASGPIDHYRITFTPSSGISSEVTVPRDRTSYTLTDLEPGA EYIISITAERGRQQSLESTVDA  
 FTGFRPISHLHF SHVTSSVNI TSDPSPADRLILNYSPRDK EEDMLEVLLDATKRHAVLMGLQPATEY  
 IVNLVAVHGTVTSEPIVGSITTGIDPPKNITISNVTKDSLTVSWSSPVAPFDYRVSYPRTQVGRDLSSV  
 VPNTVTEFAITRLYPATEYEISLNSVRG REESERIC TLVHTAMDSPMDLIATNITPTEALLQWKAPMGEV  
 ENYVIVLTHFAIAGETILVDGVSEEFQLVDLLPSTHYVTMYATSGPLMSGTIATNFSTLLDPPDNL TAS  
 EVTRQSALISWQPPRAAIENYVLTYKSTDGSRKELIVDAEDTWIRLEGLSENTDYTVLLQAAQEATRSSL  
 TSTVFTTGGRVFSHPQDCAQHLMNGDTLSGVYTI FLNGELSHKLQVYCDMTDGGGWIVFQRRQNGQTD F  
 FRKWADYRVGFGNLEDEFWLGLDNIHRIT AQGRYELRVD MRDQG EAVFAYYDKF AVEDSRSLYKIRIGSY  
 NGTAGDSL SYHQGRPFSTEDRDNDVAV TNCAMS YKGAWWYK NCHR TNLNGKYGESRHSQGINWYHWKGHE  
 FSIPFVEMKMRPYIHRLTAGRKRALKF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9041\\_a06.zip](https://cdn.origene.com/chromatograms/mm9041_a06.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



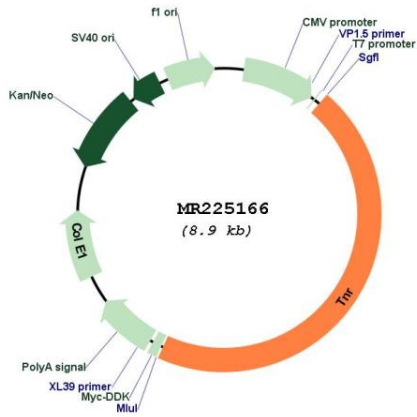
\* The last codon before the Stop codon of the ORF

ACCN: NM\_022312

ORF Size: 4074 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <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>                | <a href="#">NM_022312.3</a> , <a href="#">NP_071707.2</a>   |
| <b>RefSeq Size:</b>           | 5395 bp   |
| <b>RefSeq ORF:</b>            | 4077 bp   |
| <b>Locus ID:</b>              | 21960   |
| <b>UniProt ID:</b>            | <a href="#">Q8BYI9</a>  |
| <b>Cytogenetics:</b>          | 1 H1  |
| <b>MW:</b>                    | 150 kDa   |
| <b>Gene Summary:</b>          | 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 an 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] |

Product images:



Circular map for MR225166