

## Product datasheet for **MR212145**

### **Tnf (NM\_013693) Mouse Tagged ORF Clone**

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | Tnf (NM_013693) Mouse Tagged ORF Clone   |
| Tag:                      | Myc-DDK  |
| Symbol:                   | Tnf  |
| Synonyms:                 | DI; DIF; Tn; TNF-; TNF-a; TNF-alpha; Tnfa; TNFalpha; Tnfs; Tnfsf1a; TNFSF2; Tnlg1f |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-Entry (PS100001)   |
| E. coli Selection:        | Kanamycin (25 ug/mL)   |
| ORF Nucleotide Sequence:  | >MR212145 representing NM_013693<br>Red=Cloning site Blue=ORF Green=Tags(s)        |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGCACAGAAAGCATGATCCGCGACGTGGAAGTGGCAGAAGAGGCACTCCCCAAAAGATGGGGGGCT  
TCCAGAACTCCAGGCGGTGCCTATGTCTCAGCCTCTTCTCATTCTGCTTGTGGCAGGGGCCACCACGCT  
CTTCTGTCTACTGAACTTCGGGGTGATCGGTCCCCAAGGGATGAGAAGTCCCAAATGGCCTCCCTCTC  
ATCAGTTCTATGGCCAGACCCTCACACTCAGATCATCTTCTCAAAATTCGAGTGACAAGCCTGTAGCCC  
ACGTCGTAGCAAACCAAGTGGAGGAGCAGCTGGAGTGGCTGAGCCAGCGCGCCAACGCCCTCCTGGC  
CAACGGCATGGATCTCAAAGACAACCAACTAGTGGTGCCAGCCGATGGGTGTACCTTGCTACTCCAG  
GTTCTCTTCAAGGGACAAGGCTGCCCGACTACGTGCTCCTACCCACACCGTCAGCCGATTGTGCTATCT  
CATACCAGGAGAAAGTCAACCTCCTCTCTGCCGTCAGAGCCCCCTGCCCAAGGACACCCCTGAGGGGGC  
TGAGCTCAAACCTGGTATGAGCCCATATACCTGGGAGGAGTCTTCCAGCTGGAGAAGGGGGACCAACTC  
AGCGCTGAGGTCAATCTGCCAAGTACTTAGACTTTGCGGAGTCCGGGCAGGTCTACTTTGGAGTCATTG  
CTCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR212145 representing NM\_013693  
 Red=Cloning site Green=Tags(s)

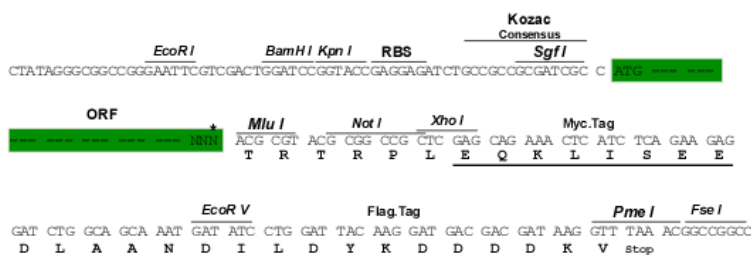
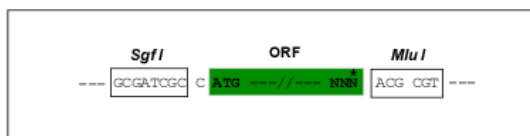
MSTESMIRDVELAEEALPQKMGGFQNSRRCLCLSLFSFLLVAGATTLCLLNFGVIGPQRDEKFPNGLPL  
 ISSMAQTLTLRSSQNSSDKPVAHVHVANHQQVEEQLEWL SQRANALLANGMDLKDNL VVPADGLYL VYSQ  
 VLFKGQGPCDPYVLLTHTVSRFAISYQEKVNLLSAVKSPCKDTPEGAELKPWYEP IYLLGGVFQLEKGDQL  
 SAEVNLPKYLDFAESGOVYEGVIAL

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

### Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

ACCN: NM 013693

ORF Size: 705 bp

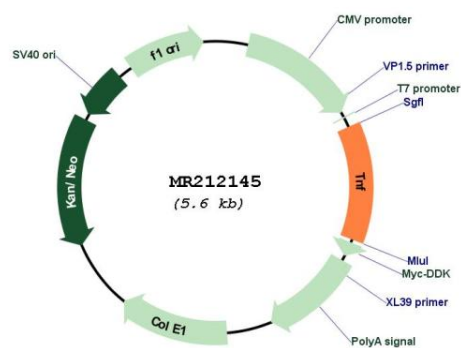
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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).

|                               |   |
|-------------------------------|---|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.  |
| <b>RefSeq:</b>                | <u>NM_013693.3</u>  |
| <b>RefSeq Size:</b>           | 1619 bp   |
| <b>RefSeq ORF:</b>            | 708 bp  |
| <b>Locus ID:</b>              | 21926   |
| <b>UniProt ID:</b>            | <u>P06804</u>   |
| <b>Cytogenetics:</b>          | 17 18.59 cM   |
| <b>MW:</b>                    | 26.3 kDa  |
| <b>Gene Summary:</b>          | <p>This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. Members of this family are classified based on primary sequence, function, and structure. This protein is synthesized as a type-II transmembrane protein and is reported to be cleaved into products that exert distinct biological functions. It plays an important role in the innate immune response as well as regulating homeostasis but is also implicated in diseases of chronic inflammation. In mouse deficiency of this gene is associated with defects in response to bacterial infection, with defects in forming organized follicular dendritic cell networks and germinal centers, and with a lack of primary B cell follicles. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]</p> |

## Product images:



Circular map for MR212145