

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 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCACAGAAAGCATGATCCGCGACGTGGAAGTGGCAGAAGAGGCACTCCCCAAAAGATGGGGGGCT
TCCAGAACTCCAGGCGGTGCCTATGTCTCAGCCTCTTCTCATTCTGCTTGTGGCAGGGGCCACCACGCT
CTTCTGTCTACTGAACTTCGGGGTATCGGTCCCCAAGGGATGAGAAGTTCCAAATGGCCTCCCTCTC
ATCAGTTCTATGGCCAGACCCTCACACTCAGATCATCTTCTCAAATTCGAGTGACAAGCCTGTAGCCC
ACGTCGTAGCAAACCACCAAGTGGAGGAGCAGCTGGAGTGGCTGAGCCAGCGGCCAACGCCCTCCTGGC
CAACGGCATGGATCTCAAAGACAACCAACTAGTGGTGCCAGCCGATGGGTTGTACCTTGTCTACTCCAG
GTTCTCTTCAAGGGACAAGGCTGCCCGACTACGTGCTCCTCACCCACACCGTCAGCCGATTGCTATCT
CATACCAGGAGAAAGTCAACCTCCTCTCTGCCGTCAAGAGCCCCTGCCCAAGGACACCCCTGAGGGGGC
TGAGCTCAAACCCTGGTATGAGCCCATATACCTGGGAGGAGTCTTCCAGCTGGAGAAGGGGGACCAACTC
AGCGCTGAGGTCAATCTGCCAAGTACTTAGACTTTGCGGAGTCCGGGCAGGTCTACTTTGGAGTCATTG
CTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR212145 representing NM_013693
 Red=Cloning site Green=Tags(s)

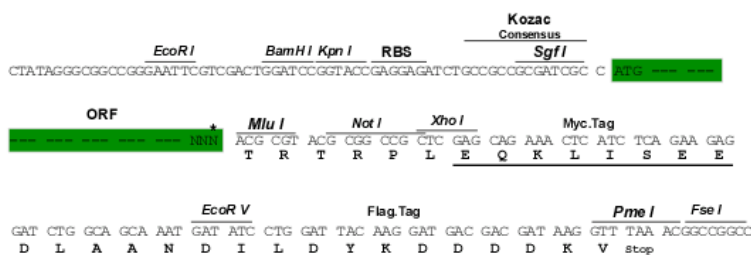
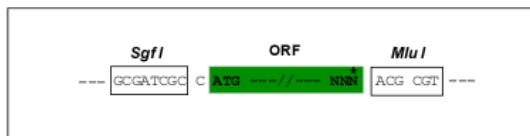
MSTESMIRDVELAEEALPQKMGGFQNSRRLCLSLFSFLLVAGATTLFLLNFGVIGPQRDEKFPNGLPL
 ISSMAQTLTLRSSQNSSDKPVAHVVANHQVEEQLEWLSQRANALLANGMDLKDNLVVPADGLYLVSQ
 VLFGQGQCPDYVLLTHTVSRFAISYQEKVNLLSAVKSPCKDTPEGAELKPWYEP IYLGGVFQLEKGDQL
 SAEVNLPKYLDFAESGQVYFVIAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-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

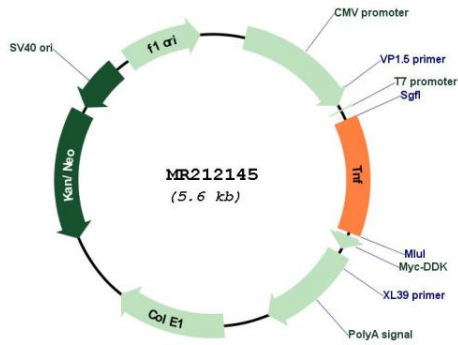
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).
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:	NM_013693.3
RefSeq Size:	1619 bp
RefSeq ORF:	708 bp
Locus ID:	21926
UniProt ID:	P06804
Cytogenetics:	17 18.59 cM
MW:	26.3 kDa
Gene Summary:	<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