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Product datasheet for MR223637

Ntf3 (NM_001164035) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ntf3 (NM_001164035) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ntf3
Synonyms:	AI316846; AI835689; HDNF; NGF-2; NT; NT-; Nt3; Ntf-; Ntf-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR223637 representing NM_001164035
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCATCTTGTTTTATGTGATATTTCTTGCTTATCTCCGTGGCATCCAAGGCAACAGCATGGATCAAA
GGAGTTTGCCGGAAGACTCTCTCAATTCCCTCATCATCAAGCTGATCCAGGCGGATATCTTGAAAAACAA
GCTTTCCAAACAGATGGTGGATGTTAAGGAAAATTACCAGAGCACCCTGCCCAAAGCAGAGGCACCCAGG
GAACCAGAGCAGGGAGAGGCCACCAGGTCAGAGTTCCAGCCAATGATTGCAACGGACACAGAGCTACTAC
GGCAACAGAGACGCTACAATTCGCCCCGGGTCCTGCTGAGTGACAGCACCCCTTTGGAGCCCCCTCCCTT
ATACCTAATGGAGGATTATGTGGGCAACCCGGTGGTAGCCAATAGAACCTCACCACGGAGGAAACGCTAT
GCAGAACATAAGAGTCACCGAGGAGAGTACTCAGTGTGTGACAGTGAGAGCCTGTGGGTGACCGACAAGT
CCTCAGCCATTGACATTCGGGGACACCAGGTCACAGTGCTGGGGGAGATCAAAACCGGTAACTCTCCTGT
GAAACAATATTTTTATGAAACGAGATGTAAAGAAGCCAGGCCGGTCAAAAACGGTTGCAGGGGGATTGAT
GACAAACACTGGAACTCTCAGTGCAAAACTTCGCAAACCTATGTCCGAGCACTGACTTCAGAAAACAACA
AACTCGTAGGCTGGCGCTGGATACGAATAGACACTTCCTGTGTGTGTGCCTTGTCGAGAAAAATTGGAAG
AACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

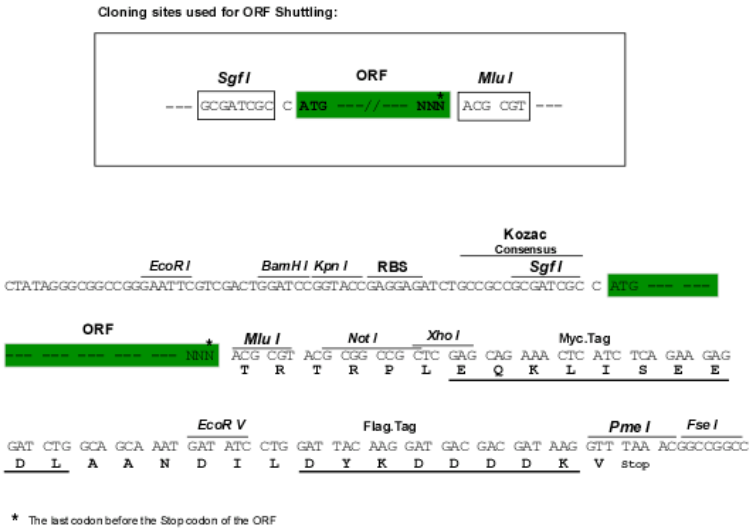
>MR223637 representing NM_001164035
Red=Cloning site Green=Tags(s)

MSILFYVIFLAYLRGIQGNSMDQRSLPEDSLNSLIIKLIQADILKNKLSKQMVDVKENYQSTLPKAEAPR
EPEQGEATRSEFQPMIATDTELLRQQRRYNSPRVLLSDSTPLEPPPLYLMEDYVGNPVVANRTSPRRKRY
AEHKSHRGEYSVCDSESLWVTDKSSAIDIRGHQVTVLGEIKTGNSPVKQYFYETRCKEARPVKNGCRGID
DKHWNSQCKTSQTYVRALTSENNKLVGWRWIRIDTSCVCALSRKIGRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164035

ORF Size: 813 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).

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 Size: 1368 bp

RefSeq ORF: 816 bp

Locus ID: 18205

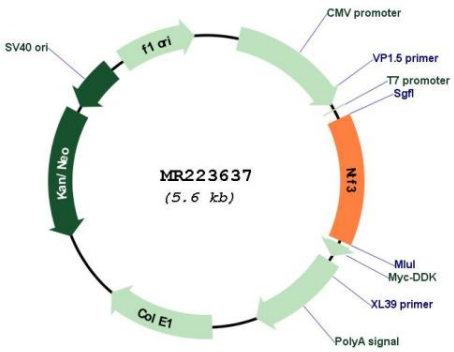
UniProt ID: P20181

Cytogenetics: 6 60.45 cM

MW: 31.4 kDa

Gene Summary: This gene encodes a member of the neurotrophins that have a wide variety of functions in both neural and non-neural tissues. The encoded preproprotein undergoes proteolytic processing to generate a noncovalently linked homodimeric mature protein that can bind to the transmembrane receptor tyrosine kinases to initiate a series of signaling events. Mice lacking the encoded protein exhibit severe defects in the peripheral nervous system including a complete lack of spinal proprioceptive afferents and their peripheral sense organs. [provided by RefSeq, Sep 2016]

Product images:



Circular map for MR223637