

## Product datasheet for **MG223637**

### **Ntf3 (NM\_001164035) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ntf3 (NM\_001164035) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ntf3  
**Synonyms:** AI316846; AI835689; HDNF; NGF-2; NT; NT-; Nt3; Ntf-; Ntf-3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG223637 representing NM\_001164035  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCATCTTGTTTTATGTGATATTTCTTGCTTATCTCCGTGGCATCCAAGGCAACAGCATGGATCAAA  
GGAGTTTGCCGGAAGACTCTCTCAATTCCTCATCATCAAGCTGATCCAGGCGGATATCTTGAAAAACAA  
GCTTTCCAACAGATGGTGGATGTTAAGGAAAATTACCAGAGCACCTGCCAAAGCAGAGGCCACCCAGG  
GAACCAGAGCAGGAGAGGCCACCAGGTCAGAGTTCAGCCAATGATTGCAACGGACACAGAGCTACTAC  
GGCAACAGAGACGCTACAATTCGCCCGGGTCTGCTGAGTGACAGCACCCCTTTGGAGCCCCCTCCCTT  
ATACCTAATGGAGGATTATGTGGCAACCCGGTGGTAGCCAATAGAACCTCACCACGGAGAAACGCTAT  
GCAGAACATAAGAGTCACCGAGGAGAGTACTCAGTGTGTGACAGTGAGAGCCTGTGGGTGACCGACAAGT  
CCTCAGCCATTGACATTCGGGGACACCAGGTCACAGTGCTGGGGGAGATCAAAACCGTAACTCTCCTGT  
GAAACAATATTTTATGAAACGAGATGTAAGAAGCCAGGCCGGTCAAAAACGGTTGCAGGGGATTGAT  
GACAAACACTGGAACCTCAGTGCAAACCTTCGCAAACCTATGTCCGAGCACTGACTTCAGAAAACAACA  
AACTCGTAGGCTGGCGCTGGATACGAATAGACACTTCTGTGTGTGCCTTGTGCAGAAAAATTGGAAG  
AACA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223637 representing NM\_001164035  
 Red=Cloning site Green=Tags(s)

MSILFYVIFLAYLRGIQGNMSMDQRSLPEDSLNSLI IKLIQADILKNKLSKQMV DVKENYQSTLPKAEAPR  
 EPEQGEATRSEFQPMIATDELLRQRRYNSPRVLLSDSTPLEPPPLYLMEDYVGNP VVANRTSPRRKRY  
 AEHKSHRGEYSVCDSESLWVTDKSSAIDIRGHQVTVLGEIKTGNSPVKQYFYETRCKEARPVKNGCRGID  
 DKHWNSQCKTSQTYVVRALTSENNKLVGWRWIRIDTSCVICALSRKIGRT

TRTRPLE - GFP Tag - V

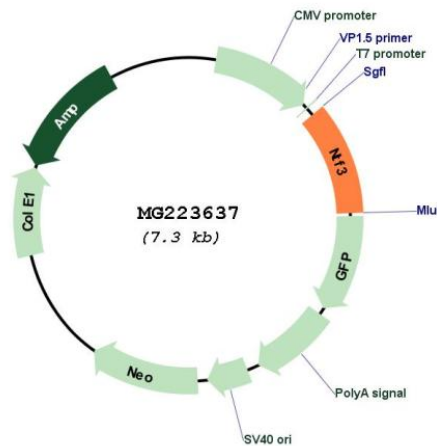
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001164035

**ORF Size:** 813 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_001164035.1</a> , <a href="#">NP_001157507.1</a>  |
| <b>RefSeq Size:</b>           | 1368 bp  |
| <b>RefSeq ORF:</b>            | 816 bp   |
| <b>Locus ID:</b>              | 18205  |
| <b>UniProt ID:</b>            | <a href="#">P20181</a>   |
| <b>Cytogenetics:</b>          | 6 60.45 cM   |
| <b>Gene Summary:</b>          | 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] |