

## Product datasheet for **MR224212**

### **Nfl (NM\_010910) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfl (NM_010910) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nfl
Synonyms:	A1847934; CMT2E; NF-L; NF68; Nfl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224212 representing NM\_010910  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAGTTCGTTCCGGCTACGATCCGTACTTTTCGACCTCCTACAAGCGGCCTATGTGGAGACGCCCCGGG  
 TGCACATCTCCAGCGTGCAGCGGCTACAGCACGGCGCCTCCGCGTACTCCAGCTACTCCGCGCCGGT  
 CTCCTCTCGCTGTCGGTGCAGCTACTCGTCCAGCTCTGGCTCTTTGATGCCAGCCTGGAGAAT  
 CTCGATCTGAGCCAGGTAGCCGCATCAGCAACGACCTCAAGTCTATCCGCACACAAGAGAAGGCACAGC  
 TGCAGGACCTCAACGATCGCTTCGCGAGCTTATCGAGCGCTGCACGAGCTGGAGCAGCAGAACAAGGT  
 CCTGGAAGCCGAGCTGTTGGTGTGCGCCAGAACTCTGAGCCTTCCGCTTCCGCGCCTGTACGAG  
 CAGGAGATCCGCGATCTGCGGTGGCAGCGAAGACGCCACTAACGAGAAGCAGGCGCTGCAGGGCGAGC  
 GCGAGGGGCTGGAGGAGACTCTGCGCAACTGCAGGCTCGCTATGAGGAAGAAGTGTGAGCCGCGAGGA  
 CGCCGAGGGCCGGCTGATGGAAGCGCGAAAGGTGCGGATGAGGCCGCGCTCGCCCGCGCCGAGCTGGAG  
 AAGCGCATCGACAGCCTGATGGACGAGATAGCTTTCCTGAAGAAGGTGCACGAGGAAGAGATCGCCGAGC  
 TGCAGGCTCAGATCCAGTATGCTCAGATCTCCGTGGAGATGGACGTGTCCTCCAAGCCCCACCTCTCCGC  
 CGCTCTCAAGGACATCCGCGCTCAGTACGAGAAGCTGGCCGCAAGAACATGCAGAACGCCGAAGAGTGG  
 TTCAAGAGCCGCTTACCCTGCTAACCGAGAGCGCCGCAAGAACACCGACGCTGTGCGCGCTGCCAAGG  
 ACGAGGTGTCGGAAAGCCGCGCCTGCTCAAGGCTAAGACCCTGGAGATCGAAGCCTGCCGGGTATGAA  
 CGAAGCTCTGGAGAAGCAGCTGCAGGAGCTAGAGGACAAGCAGAATGCAGACATTAGCCCATGCAGGAC  
 ACAATCAACAACTGGAGAATGAGCTGAGAAGCACGAAGAGCGAGATGGCCAGGTACTGAAGGAGTACC  
 AGGACTCCTCAATGTCAAGATGGCCTTGACATCGAGATTGCAGCTTACAGAAACTCTTGGAAAGCGCA  
 AGAGACCAGGCTCAGTTTACCAGCGTGGGTAGCATAACCAGCGGCTACTCTCAGAGCTCGCAGGTCTTC  
 GGCCGTTCTGCTTACAGTGGCTTGCAGAGCAGCTCCTACTTGATGTCTGCTCGCTTTTCCAGCCTACT  
 ATACCAGCCAGTCCAGGAAGAGCAGACAGAGGTGAGGAGACATTGAGGCTACGAAAGCTGAGGAGGC  
 CAAGGATGAGCCCCCTCTGAAGGAGAAGCAGAAGAGGAGGAGAAGGAGAAGAGGAGGGAGAGGAAGAG  
 GAAGGCGCTGAGGAGGAAGAAGCTGCCAAGGATGAGTCTGAAGACACAAAAGAAGAAGAAGGTGGTG  
 AGGATGAGGAGGAAGACACCAAGAATCTGAAGAGGAAGAGAAGAAGAGGAGAGTGTGGAGAGGAGCA  
 GGTGGCTAAGAAGAAAGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224212 representing NM\_010910  
 Red=Cloning site Green=Tags(s)

MSSFYDYPYFSTSYKRRYVETPRVHISSVRSYSTARSAYSSYSAPVSSLSVRRSYSSSSGSLMPSLEN  
 LDLSQVAAISNDLKSIRTQEKAQLQDLNDRFASFIERVHELEQQNKVLEALLVLRQKHSEPSRFRALYE  
 QEIRDRLAAEDATNEKQALQGEREGLEETLRNLQARYEEEEVLSREDAEGRLMEARKGADEAALARAELE  
 KRIDSLMDEIAFLKKVHEEEIAELQAQIQYAQISVEMDVSSKPDLSAALKDIRAQYEKLAANKMNAEEW  
 FKSRTVLTESAANKNDVRAAKDEVSESRLLKAKTLEIEACRGMNEALEKQLQELEDKQADISAMQD  
 TINKLENELRSTKSEMARYLKEYQDLLNVKMLDIEIAAYRKLLEGEETRLSFTSVGSITSGYSQSSQVF  
 GRSAYSLQSSSYLMSARSPAYYTSHVQEEQTEVEETIEATKAEAKDEPPSEGEAEKEEKEEKEE  
 EGAEKEEAAKDESEDTEKEEEEGEGEEEDTKESEEEKKEESAGEEQVAKKKD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_010910

**ORF Size:** 1629 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](mailto: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](#)

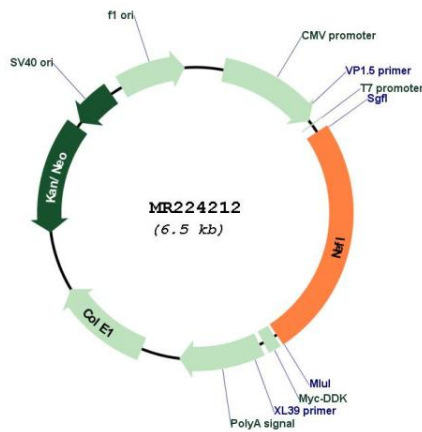
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:**
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:	<u>NM_010910.2</u>
RefSeq Size:	2014 bp
RefSeq ORF:	1632 bp
Locus ID:	18039
UniProt ID:	<u>P08551</u>
Cytogenetics:	14 D1
MW:	62 kDa
Gene Summary:	Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR224212