

Product datasheet for **MG224212**

Nfl (NM_010910) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfl (NM_010910) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nfl
Synonyms:	A1847934; CMT2E; NF-L; NF68; Nfl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG224212 representing NM_010910
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTTCGTTCCGGCTACGATCCGTA
 CTTTCGACCTCCTACAAGCGGCCTATGTGGAGACGCCCCGGG
 TGCACATCTCCAGCGTGCAGCGGCTACAGCAGGCGCGCTCCGCGTACTCCAGCTACTCCGCGCCGGT
 CTCCTCTCGCTGTCCGTGCGCCGAGCTACTCGTCCAGCTCTGGCTCTTTGATGCCAGCCTGGAGAAT
 CTCGATCTGAGCCAGGTAGCCGCATCAGCAACGACCTCAAGTCTATCCGCACACAAGAGAAGGCACAGC
 TGCAGGACCTCAACGATCGCTTCCGCGAGCTTATCGAGCGCGTGCACGAGCTGGAGCAGCAGAACAAGGT
 CCTGGAAGCCGAGCTGTTGGTGTGCGCCAGAACTCTGAGCCTTCCCGCTTCCGCGCCCTGTACGAG
 CAGGAGATCCGCGATCTGCGGCTGGCAGCGGAAGACGCCACTAACGAGAAGCAGGCGCTGCAGGGCGAGC
 GCGAGGGGCTGGAGGAGACTCTGCGCAACCTGCAGGCTCGCTATGAGGAAGAAGTGTGAGCCGCGAGGA
 CGCCGAGGGCCGGCTGATGGAAGCGCGAAAGGTGCGGATGAGGCGCGCTCGCCCGCGCCGAGCTGGAG
 AAGCGCATCGACAGCCTGATGGACGAGATAGCTTTCCTGAAGAAGGTGCACGAGGAAGAGATCGCCGAGC
 TGCAGGCTCAGATCCAGTATGCTCAGATCTCCGTGGAGATGGACGTGTCCTCCAAGCCCCGACCTCTCCGC
 CGCTCTCAAGGACATCCGCGCTCAGTACGAGAAGCTGGCCGCAAGAACATGCAGAACGCCGAAGAGTGG
 TTCAAGAGCCGCTTACCCTGTCAACCGAGAGCGCCGCAAGAACACCGACGCTGTGCGCGCTGCCAAGG
 ACGAGGTGTGGAAAGCCGCGCCTGCTCAAGGCTAAGACCCTGGAGATCGAAGCCTGCCGGGTATGAA
 CGAAGCTCTGGAGAAGCAGCTGCAGGAGCTAGAGGACAAGCAGAATGCAGACATTAGCGCCATGCAGGAC
 ACAATCAACAACTGGAGAATGAGCTGAGAAGCACGAAGAGCGAGATGGCCAGGTACCTGAAGGAGTACC
 AGGACCTCCTCAATGTCAAGATGGCCTTGGACATCGAGATTGCAGCTTACAGAAACTCTTGAAGGCGA
 AGAGACCAGGCTCAGTTTCACCAGCGTGGGTAGCATAACCAGCGGCTACTCTCAGAGCTCGCAGGTCTTC
 GGCCGTTCTGTTACAGTGGCTTGCAGAGCAGCTCCTACTTGATGTCTGCTCGCTCTTCCAGCCTACT
 ATACCAGCCAGTCCAGGAAGAGCAGACAGAGGTCGAGGAGACATTGAGGCTACGAAAGCTGAGGAGGC
 CAAGGATGAGCCCCCTCTGAAGGAGAAGCAGAAGAGGAGGAGAAGGAGAAAGAGGAGGGAGAGGAAGAG
 GAAGGCGCTGAGGAGGAAGAAGCTGCCAAGGATGAGTCTGAAGACACAAAAGAAGAAGAAGGTTGGT
 AGGATGAGGAGGAAGACACCAAGAATCTGAAGAGGAAGAGAAGAAGAGGAGAGTGTGGAGAGGAGCA
 GGTGGCTAAGAAGAAAGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Restriction Sites:

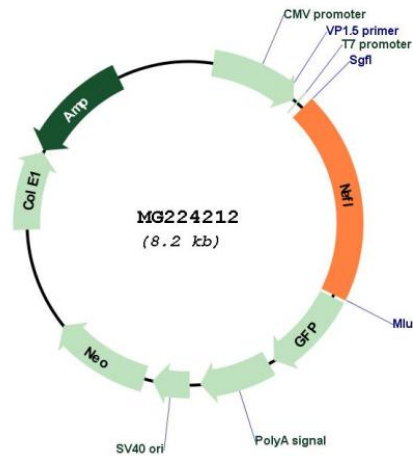
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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 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: [NM_010910.2](#)

RefSeq Size: 2014 bp

RefSeq ORF: 1632 bp

Locus ID: 18039

UniProt ID: [P08551](#)

Cytogenetics: 14 D1

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]