

## Product datasheet for **MG225702**

### **Nfia (NM\_010905) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfia (NM_010905) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nfia
Synonyms:	1110047K16Rik; 9430022M17Rik; CTF; NF1-A; NF1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG225702 representing NM\_010905  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTATTCTCGCTCTGTCTCACCCAGGATGAGTTTCATCCTTTTCATTGAAGCACTTCTGCCCATGTCC  
 GCGCCTTCGCCTACACATGGTTCAACCTGCAGGCCGAAAGCGGAAATACTTCAAAAAACATGAGAAGCG  
 CATGTGCGAAAGAAGAGGAGAGGGCCGTGAAGGATGAAGTCTAAGCGAGAAGCCCGAGGTCAGCAGAAG  
 TGGGCTTCCCGACTTCTGGCCAAGTTACGGAAGATATCCGACCCGAGTACCGAGAGGATTTTGTCTTA  
 CAGTTACAGGGAAAAACCTCCATGCTGTGTTCTTTCCAACCCTGATCAGAAAGGCAAGATGCGGAGAAT  
 TGACTGCCTCCGCCAGGCAGATAAAGTATGGAGGTTGGACCTCGTCATGGTGATCTTGTCAAAGGTATT  
 CCGCTGGAAGTACTGATGGCGAGCGCCTGTAAAGAGTCCACAGTGTCTAATCCAGGGCTCTGTGTCC  
 AGCCCCATCACATAGGGGTTTCTGTAAGGAAGTCTGATTATATTTGGCATACTTTGTACATGCAGCAGA  
 TTCAAGTCAATCTGAAAGTCCCAGCCAGCCAAGTGAAGCTGACATTAAGGACCAGCCAGAAAATGGACAT  
 TTGGGCTTCCAGGACAGCTTTGTACATCAGGTGTTTTAGTGTGACTGAGCTAGTAAGAGTGTCACAAA  
 CACCAATAGTGCAGGAACCGGCCCAATTTTTCTCTCTCTGATTTGGAAAGTTCTTCACTACAGCAT  
 GAGTCCAGGAGCAATGAGGAGTCTCTGCCAGCACATCTCTACCAGCTCTACAAAAGCGCCTCAAGTCT  
 GTGGAGGATGAAATGGACAGTCTGGTGAAGAACCATTTACACAGGCCAAGGGCGCTCCCAGGGAGTG  
 GCAGCCAGTCCAGTGGATGGCATGAAGTAGAGCCAGGCTTGCCATCTCCAAGCACACTGAAGAAGTCTGA  
 GAAGTCTGGTTTTCAGCAGCCCCCTCCCCTTCGACAGCTCCTCCCTGGGAACAGCATTACACAGCATCAC  
 CGACCTGTCATTACAGGACCCAGAGCAAGTCCACATGCGACGCCATCGACTCTCCACTTTCCAACGTCAC  
 CCATCATCCAGCAGCCTGGGCCTTACTTCTCACACCCAGCCATCGTTACCACCCCTAGGAGAGCGTGA  
 AGAGTTTGTCCAACCTTGTCTGCTGCTGCTGCTGGTCAGCAAGCTGGACAGGTGGGGTTCCTCAATCCCAAT  
 GGAAGCAGTCAAGGCAAGGTGCACAACCCATTCCTCCCCACCCCAATGTTGCCGCCGCCACCCACCAC  
 CGATGGCCAGGCCTGTGCTCTGCCATGCCAGACACCAAGCCTCCAACCACATCAACAGAAGGAGGTGC  
 AGCCTCCCCACCTCACCAGCTACTCGACACCCAGCACCTCCCCGCAAACCGATTGTCAGTGTGGGA  
 CCACGGGATCCAAGCTTTGTAATATCCCTCAACAGACACAGTCTGGTACCTGGGA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG225702 representing NM\_010905  
 Red=Cloning site Green=Tags(s)

MYSPLCLTQDEFHPFIEALLPHVRAFAYTWFNLQARKRKYFKKHEKMSKEEERAVKDELLSEKPEVKQK  
 WASRLLAKLRKDIRPEYREDFLTVTGKKPPCCVLSNPDQKGMRRIDCLRQADKVRDLVVMVILFKGI  
 PLESTDGERLVKSPQCSNPGLCVQPHHIGVSVKELDLYLAYFVHAADSSQSESPSQPSEADIKDQPENH  
 LGFQDSFVTSGVFSVTELVRSQTPIAAGTGPNFSLSDLESSYYSMSPGAMRRSLPSTSSTSSTKRLKS  
 VEDEMDSPGEEPFTYTGQGRSPGSGSQSSGWHEVEPGLPSPSTLKKSEKSGFSSPSPSQTSSLGTAFTQHH  
 RPVITGPRASPHATPSTLHFPTSPIIQQPGPYFSHPAIRYHPQETLKEFVQLVCPDAGQQAGQVGFNLNPN  
 GSSQGVHNPFLPTPMLPPPPPPMARPVPLPMPDTPKPTTSTEGGAASPTSPTYSTPSTSPANRFVSVG  
 PRDPSFVNIPQQTQSWYLG

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

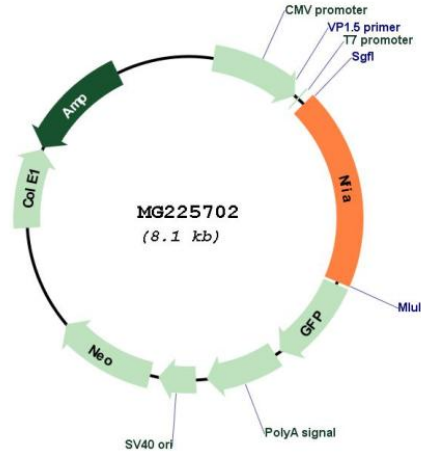
Cloning Scheme:

Cloning sites used for ORF Shutting:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI  
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT  
  
 HindIII NheI RsrII MluI NotI XhoI GFP Tag  
 CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---  
 T R T R P L E M E S D - - -  
  
 PmeI FseI  
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT  
 - - E E R V Stop

Plasmid Map:



ACCN: NM\_010905  
 ORF Size: 1527 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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_010905.3</a> , <a href="#">NP_035035.1</a>
<b>RefSeq Size:</b>	9528 bp
<b>RefSeq ORF:</b>	1530 bp
<b>Locus ID:</b>	18027
<b>UniProt ID:</b>	<a href="#">Q02780</a>
<b>Cytogenetics:</b>	4 45.52 cM
<b>Gene Summary:</b>	Recognizes and binds the palindromic sequence 5'-TTGGCNNNNNGCCAA-3' present in viral and cellular promoters and in the origin of replication of adenovirus type 2. These proteins are individually capable of activating transcription and replication.[UniProtKB/Swiss-Prot Function]