

## Product datasheet for **MG225700**

### **Nfia (NM\_001122952) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfia (NM_001122952) 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:**

>MG225700 representing NM\_001122952  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAAGCTTGCTGACAGCGTAATGGCAGGGAAAGCTTCGACGGTCCATCAAATGGCAGCTTTGCTACG  
 ACATCTCGGCCAGAACTTGGTGGATGGATGAGTTTCATCCTTTTATTGAAGCACTTCTGCCCATGTCCG  
 CGCCTTCGCCTACACATGGTTCAACCTGCAGGCCGAAAGCGGAAATACTTCAAAAAACATGAGAAGCGC  
 ATGTGCGAAAGAAGAGGAGAGGGCCGTGAAGGATGAACTGCTAAGCGAGAAGCCGAGGTCAAGCAGAAGT  
 GGGCTTCCGACTTCTGGCCAAGTTACGGAAAGATATCCGACCCGAGTACCGAGAGGATTTTGTCTTAC  
 AGTTACAGGGAAAAACCTCCATGCTGTGTTCTTTCAACCTGATCAGAAAGGCAAGATGCGGAGAATT  
 GACTGCCTCCGCCAGGCAGATAAAGTATGGAGGTTGGACCTCGTCATGGTATCTTGTTCAAAGGTATTC  
 CGCTGGAAGTACTGATGGCGAGCGCTTGTAAAGAGTCCACAGTCTAATCCAGGGCTCTGTGTCCA  
 GCCCATCACATAGGGGTTTCTGTAAGGAAGCTGATTTATATTTGGCATACTTTGTACATGCAGCAGAT  
 TCAAGTCAATCTGAAAGTCCCAGCCAGCCAAGTGAAGCTGACATTAAGGACCAGCCAGAAAATGGACATT  
 TGGGCTTCCAGGACAGCTTTGTACATCAGGTGTTTTTCAGTGTGACTGAGCTAGTAAGAGTGTACAAAAC  
 ACCAATAGCTGCAGGAACCGGCCCAATTTTTCTCTCTGATTTGAAAAGTTCTTCATACTACAGCATG  
 AGTCCAGGAGCAATGAGGAGGTCTTGCACGACATCTCTACCAGCTTACAAAAGCGCCTCAAGTCTG  
 TGGAGGATGAAATGGACAGTCTGGTGAAGAACCATTTTACACAGGCCAAGGGCGCTCCCCAGGGAGTGG  
 CAGCCAGTCCAGTGGATGGCATGAAGTAGAGCCAGGCTTGCCATCTCCAAGCACACTGAAGAAGTCTGAG  
 AAGTCTGGTTTCAGCAGCCCTCCCTTCGCAGACCTCCCTCCCTGGGAACAGCATTACACAGCATCACC  
 GACCTGTCAATTACAGACCCAGCAAGTCCACATGCGACGCCATCGACTCTCCACTTTCCAACGTCAAC  
 CATCATCCAGCAGCCTGGGCTTACTTCTCACACCCAGCCATCCGTTACCACCCTCAGGAGACGCTGAAA  
 GAGTTTGTCCAATTGTCTGTCTGATGCTGGTCAAGCTGGACAGGTGGGGTTCCTCAATCCCAATG  
 GAAGCAGTCAAGGCAAGGTGCACAACCCATTCTCCACCCCAATGTTGCCGCCGCCACCACCACC  
 GATGGCCAGGCTGTGCCTCTGCCATGCCAGACACCAAGCCTCCAACCACATCAACAGAAGGAGGTGCA  
 GCCTCCCCACCTCACCAGCTACTCGACACCCAGCACCTCCCCCGCAAACCGATTGTCAGTGTGGAC  
 CACGGGATCCAAGCTTTGTAATATCCCTCAACAGACACAGTCTGGTACCTGGGA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG225700 representing NM\_001122952  
 Red=Cloning site Green=Tags(s)

MKLADSVMAGKASDGSIKWQLCYDISARTWWMDEFHPFIEALLPHVRAFAYTWFNLQARKRKYFKKHEKR  
 MSKEEERAVKDELLSEKPEVKQKWASRLAKLRKDIRPEYREDFVLTVTGKKPPCCVLSNPDQKGMRRRI  
 DCLRQADKVRWLDLVMVILFKGIPLSTDGERLVKSPQCSNPGLCVQPHHIGVSVKELDLYLAYFVHAAD  
 SSQSESPSQPSEADIKDQPEHGLGFQDSFVTSVGFVSVTELVVRSQTPIAAGTGNPFLSDLESSSYSM  
 SPGAMRRSLPSTSSSTKRLKSVEDEMDSPGEEPFYTGQGRSPGSGSQSSGWHEVEPGLPSPSTLKKSE  
 KSGFSSPSPSQTSSLGTAFTQHHRPVITGPRASPHATPSTLHFPTSPIIQQPGPYFSHPAIRYHPQETLK  
 EFVQLVCPDAGQQAGQVGFVLPNGSSQKVNHPFLPTPMLPPPPPPMARPVPLPMPDTPPTTSTEGGA  
 ASPTSPTYSTPSTSPANRFVSVGPRDPSFVNIPQQTQSWYLG

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_001122952
<b>ORF Size:</b>	1596 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_001122952.1</a> , <a href="#">NP_001116424.1</a>
<b>RefSeq Size:</b>	9289 bp
<b>RefSeq ORF:</b>	1599 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]