

## Product datasheet for **MC219807**

### **Nr4a3 (NM\_015743) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nr4a3 (NM_015743) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nr4a3
Synonyms:	AI573420; CHN; CSMF; M; MINOR; N; NO; NOR-1; Nor1; TEC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC219807 representing NM\_015743  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGCCCTGCGTGCAAGCCAGTATAGCCCTTACCTCCGGGGTCCACTTACGCCACGCAGACTTATGGCT  
 CGGAATACACCACAGAAATCATGAACCCGACTACACCAAGCTGACCATGGACCTCGGTAGCACGGGGAT  
 CATGGCCACCGCCACTACATCCCTGCCAGCTTACGTACCTTCATGGAGGGCTACCCAGCAGCTGCGAA  
 CTCAAGCCCTCCTGCCTGTACCAAATGCCGCCTTCTGGGCCTCGGCCTTTGATCAAGATGGAAGAGGGTC  
 GCGAGCATGGCTACCACCACCACCATCACCATCACCATCACCACCACCACCAGCAACAGCAGCCGTC  
 CATTCTCCTCCTCCGCCCCGAGGACGAGGTAAGTCCAGCACCTCCATGTACTTCAAGCAGTCTCCG  
 CCTTCTACACCGACCACTCCAGGCTTCCCCCGCAGGCGGGGGCGCTGTGGGACGACGAGCTGCCCTCTG  
 CGCTGGCTGCATCGCTCCGGGACCGCTGCTGGACCCGAGATGAAGGCGGTACCCCCATGGCCGCTGC  
 TGGCGCTTCCCGATCTTCTTCAAGCCCTACCCGCCACACCCTCCCGCGCCAGTCCAGCCGGCGGCCAC  
 CACTCGCTATGACCCACGGCCGAGCTGCACTCAGTCTGCCCTGGGAGCCGCGGCCGAGCAGGCA  
 GCCAAGCTGCTGCGCTCGAGGGCCACCCATACGGGCTCCCGCTGGCCAAGAGGACGGCCACGCTGACCTT  
 CCCTCCGCTGGGCCTCACAGCCTCCCCACCGCTCCAGCCTGCTGGGAGAGAGCCCCAGCCTCCCATCG  
 CCACCAATAGGAGCTCATCATCTGGGGAAGGCACATGTGCCGTGTGCGGCGACAACGCTGCCTGCCAGC  
 ACTACGGAGTCCGCACCTGCGAGGGCTGCAAGGGCTTCTTCAAGAGAACGGTGCAGAAAAATGCAAAATA  
 TGTTTGCCTGGCAATAAAAACTGCCAGTGGACAAGAGACGCCGAAACCGATGTCACTACTGCAGATTT  
 CAGAAGTGTCTCAGTGTGGGATGGTTAAGGAAGTTGTGCGTACAGACAGTCTGAAAGGGAGGAGGTC  
 GTCTGCCCTTCAAACCAAAGAGCCACTACAACAGGAGCCCTCGCAGCCCTCCCCGCCATCTCCTCCGAT  
 CTGTATGATGAATGCCCTTGTCCGAGCTTTAACAGATGCAACACCCAGAGATCTTGATTATTCCAGATAC  
 TGTCACCGACCAAGCCACTGCAGGCACAGATGCTGAGCACGTGCAACAGTTCTACAACCTTCTGACGG  
 CCTCCATTGACGTGTCCAGAAGCTGGGCAGAAAAGATCCCAGGATTCAGTACTCTCCCCAAAGAAGATCA  
 GACGTTACTTATAGAATCAGCCTTTTTGGAGCTGTTTGTCTTAGACTTTCCATCAGGTCAAACACTGCT  
 GAAGATAAGTTTGTGTTCTGCAATGGACTTGTCTGCATCGACTTCAAGTGCCTTCGAGGATTTGGGGAGT  
 GGCTCGACTCCATTAAGACTTTTCTTTAAACTGCAGAGCCTGAACCTTGATATCCAAGCCTTAGCCTG  
 CCTGTCAGCACTGAGTATGATCACAGAGCGACATGGGTTAAAAGAACCAAAGAGAGTGGAGGAGCTATGC  
 ACCAAGATCACAAGCAGCTTAAAGGACCACCAGAGGAAGGGACAGGCTCTGGAGCCCTCGGAGCCTAAGG  
 TCCTGCGCGCGCTGGTAGAACTGAGAAAGATCTGTACCCAGGGCCTCCAGCGCATCTTCTACCTGAAGCT  
 AGAGGACTTGGTACCTCCACCTTCTGTCATCGACAAGCTTCTCTTGACACCCTGCCTTTCTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja2184\\_e04.zip](https://cdn.origene.com/chromatograms/ja2184_e04.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_015743

**Insert Size:** 1884 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](#)

**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\\_015743.2](#), [NP\\_056558.1](#)

**RefSeq Size:** 1884 bp

**RefSeq ORF:** 1884 bp

**Locus ID:** 18124

**UniProt ID:** [Q9QZB6](#)

**Cytogenetics:** 4 B1

**Gene Summary:** This gene encodes a member of the NR4A subfamily of nuclear hormone receptors that bind to DNA and modulate gene expression. The encoded protein has been implicated in T and B lymphocyte apoptosis, and immune cell proliferation. Mice lacking the encoded protein exhibit partial bidirectional circling behavior and inner ear dysfunction. Disruption of this gene in mice also results in defective hippocampal axonal growth and postnatal neuronal cell death. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]  
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).