

## Product datasheet for **MR225559**

### Nr4a3 (NM\_015743) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nr4a3 (NM_015743) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nr4a3
Synonyms:	A1573420; 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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**ORF Nucleotide Sequence:**

>MR225559 representing NM\_015743  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCCTGCGTGCAAGCCAGTATAGCCCTTACCTCCGGGGTCCACTTACGCCACGCAGACTTATGGCT  
 CGGAATACACCACAGAAATCATGAACCCGACTACACCAAGCTGACCATGGACCTCGGTAGCACGGGGAT  
 CATGGCCACCGCCACTACATCCCTGCCAGCTTACGTACCTTCATGGAGGGCTACCCAGCAGCTGCGAA  
 CTCAAGCCCTCCTGCCTGTACCAAAATGCCGCTTCTGGGCTCGGCTTTGATCAAGATGGAAGAGGGTC  
 GCGAGCATGGCTACCACCACCACCATCACCATCACCATCACCACCACCACCAGCAACAGCAGCCGTC  
 CATTCTCCTCCTCCGCGCCGAGGACGAGGTACTGCCAGCACCTCCATGTACTTCAAGCAGTCTCCG  
 CCTTACACCGACCCTCCAGGCTTCCCCCGCAGGCGGGGGCGCTGTGGGACGACGAGCTGCCCTCTG  
 CGCTGGTGCATCGCTCCGGACCGCTGCTGGACCCGAGATGAAGCGGTACCCCCATGGCCGCTGC  
 TGCGCGCTTCCCGATCTTCTCAAGCCCTACCCGCCACACCTCCCGCGCCAGTCCAGCCGGCGCCAC  
 CACTCGGCTATGACCCACGGCCGAGCTGCACTCAGTCTGCCCTGGGAGCCGCGGCCGAGCAGGCA  
 GCCAAGCTGTGCGCTCGAGGGCCACCCATACGGGCTCCCCTGGCCAAGAGGACGGCCACGCTGACCTT  
 CCCTCCGCTGGGCTCACAGCTCCCCACCGCTCCAGCTGCTGGGAGAGAGCCAGCTCCCATCG  
 CCACCAATAGGAGCTCATCATCTGGGGAAGGCACATGTGCCGTGTGCGGCGACAACGCTGCCTGCCAGC  
 ACTACGGAGTCCGCACCTGCGAGGGCTGCAAGGGCTTCTCAAGAGAACGGTGCAGAAAAATGAAAATA  
 TGTTTGCCTGGCAATAAAAATGCCAGTGGACAAGAGACGCCGAAACCGATGTCACTGAGATTT  
 CAGAAGTGTCTCAGTGTGGGATGGTTAAGGAAGTTGTGCGTACAGACAGTCTGAAAGGGAGGAGGTC  
 GTCTGCCCTTCAAACAAAGAGCCACTACAACAGGAGCCCTCGCAGCCCTCCCCGCATCTCCCGAT  
 CTGTATGATGAATGCCCTTGTCCGAGCTTAAACAGATGCAACACCCAGAGATCTTGATTATTCAGATAC  
 TGTCCACCGACCAGGCCACTGCAGGCACAGATGCTGAGCACGTGCAACAGTTCTACAACCTTCTGACGG  
 CCTCCATTGACGTGTCCAGAAGCTGGGCAGAAAAGATCCCAGGATTAAGTACTGATCTCCCCAAAGAAGTCA  
 GACGTTACTTATAGAATCAGCCTTTTTGGAGCTGTTTGTCTTAGACTTTCCATCAGGTCAAACACTGCT  
 GAAGATAAGTTTGTGTTCTGCAATGGACTTGTCTGCATCGACTCAGTGCCTTCGAGGATTTGGGGAGT  
 GGCTCGACTCCATTAAGACTTTTCTTTAAACTGCAGAGCTGAACCTTGATATCCAAGCCTTAGCCTG  
 CCTGTCAGCACTGAGTATGATCACAGAGCGACATGGGTTAAAAGAACAAAGAGAGTGGAGGAGCTATGC  
 ACCAAGATCACAAGCAGCTTAAGGACCACCAGAGGAAGGACAGGCTCTGGAGCCCTCGGAGCCTAAGG  
 TCTGCGCGCGCTGGTAGAACTGAGAAAGATCTGTACCCAGGGCTCCAGCGCATCTTCTACCTGAAGCT  
 AGAGGACTTGGTACCTCCACCTTCTGTCATCGACAAGCTCTTCTTGACACCCTGCCTTTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225559 representing NM\_015743  
 Red=Cloning site Green=Tags(s)

MPCVQAQYSPSPPGSTYATQTYGSEYTTIEMNPDYTKLTMDLSTGIMATATSLPSFSTFMEGYPSSE  
 LKPSCLYQMPPSGPRPLIKMEEGREHGHHHHHHHHHHHHHQQQPSIPPPSGPEDEVLPTSMYFKQSP  
 PSTPTTGFPPQAGALWDELPSAPGCIAPGPLLDPQMKAVPPMAAAARFPIFFKPSPPHPAPSPAGGH  
 HLGVDPTAAAALSLPLGAAAAGSQAALLEGHPYGLPLAKRTATLTFPPLGLTASPTASSLLGESPSLPS  
 PPNRSSSSGEGTCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNKYVCLANKNCPVDRRRNRRCQYCRF  
 QKCLSVGMYKEVVRTDSLKGRGRRLPSKPKSPLQQEPSQSPSPPICMNNAALVRLTDAATPRDLDSRY  
 CPTDQATAGTDAEHVQQFYNLLTASIDVSRSWAEKIPGFTDLPKEDQTLTIESAFLELVLRLSIRSNTA  
 EDKVFVFCNGLVHRLQCLRFGWLDSEIKDFSLNLQSLNLDIQLACLALSMITERHGLKEPKRVEELC  
 TKITSSLDKHQRKGQALEPSEPKVLRALVELRKICTQGLQRIFYLKLEDLVPPPSVIDKLFDLTLPF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9033\\_c04.zip](https://cdn.origene.com/chromatograms/mm9033_c04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_015743

**ORF Size:** 1881 bp

**OTI Disclaimer:** 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\\_015743.3](#)

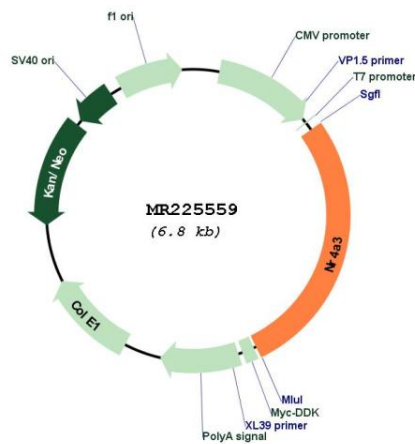
**RefSeq Size:** 1884 bp

**RefSeq ORF:** 1884 bp

**Locus ID:** 18124  
**UniProt ID:** [Q9QZB6](#)  
**Cytogenetics:** 4 B1  
**MW:** 68.9 kDa

**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]

### Product images:



Circular map for MR225559