

## Product datasheet for **MG209316**

### **Nr4a1 (NM\_010444) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nr4a1 (NM_010444) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nr4a1
Synonyms:	Gfrp; GFRP1; Hbr-1; Hbr1; Hmr; N10; NGFI-B; NGFIB; NP10; nur77; TIS1; TR3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209316 representing NM\_010444  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCCTGTATTCAAGCTCAATATGGAACACCAGCAACGAGCCAGGACCGCGTGACCACCTGACCGGTG  
 ATCCCCTGGCCCTTGAGTTCGGCAAGCCTACCATGGACCTGGCCAGCCCGAGACAGCACCTGCCGCACC  
 TGCTACACTGCCAGCTTCAGCACCTTCATGGACGGGTACACCGAGAGTTTGACACCTTCTCTACCAG  
 CTGCCGGGACGACCCAGCCGTGCTCCTCAGCTTGTTCTCTGCCTCCTCCACGTCTTCTCTCATCCT  
 CGGCCACCTCCCCGCTTCGGCGTCTTCAAGTTTGAGGACTTCCAGGTGTACGGCTGCTACCCGGGCAC  
 CCTGAGCGGCCATTAGATGAGACCCTATCCTCCAGCGGCTCTGAGTACTATGGCAGTCCCTGCTCAGCC  
 CCCTCGCCATCTACACCAACTCCAGCCGTCCAGCTTCTCCCTGGGACGGCTCATTTGGCCACTTCT  
 CCCCAGCCAGACTTATGAAGGCCTCTGGGCATGGACAGAGCAGTTGCCTAAGGCTTCTCAGGGCTCC  
 GCCACCTCCAACCTTCTCTCCTCAGTCTCCACTGGCCCCAGCCCCAGCCTGGCCCAGAGTTCTCTG  
 AAATTGTTCCACCACCAGCCACCACCAGCTTGGGGAGGGGGAGAGCTATTCCATGCCAGCAGCTTCC  
 CCGGCTTGGCACCCACCTCTCCGAACCGTGACACTTCCGGCATTCTGGACGCACCCGTGACCTCCACAA  
 GTCCCGGAGCGGGGCTTCAAGTGGCAGCGAGGGCCGCTGTGCAGTCTGTGGTGACAATGCTTCGTGTAG  
 CACTATGGGGTCCGCACCTGTGAGGGTGAAGGGCTTCTTCAAGCGCACAGTACAGAAAAGCGCAAGT  
 ACATCTGCCTGGCAAACAAGGATTGCCCTGTGGACAAGAGGGCGGGAACCGCTGCCAGTTCTGCCGCTT  
 CCAGAAGTGCCTGGCTGTGGGCATGGTGAAGGAAGTTGTACGGACAGACAGCCTAAAAGGGCGGCGGGG  
 CGGCTACCTTCAAACCAAGCAGCCTCCAGATGCCTCCCCTACCAATCTTCTCACTTCCCTCATCCGG  
 CACACTTGGACTCCGGCCTAGCACTGCCAAATGGACTATTCCAAGTTCAGGAATGGTCTGCCCCG  
 CTTCCGGGAAGGAAGATGCCGGTGACGTGCAACAATTTTATGACTTGCTCTCTGGTCCCTGGACGTTATC  
 CGAAAGTGGGCAGAAAAATCCCTGGCTTATTGAGCTTTGCCAGGAGACCAAGACCTGTTGCTAGAGT  
 CTGCCTTCTGGAACCTTTCATCCTCCGCTGGCATAACCGATCTAAACCCGGTGAGGGGAAGCTCATCTT  
 CTGCTCAGGCCTGGTACTACACCAGCTGCAGTGTGCCGTTGGTGGTGGATTGACAACATCCTG  
 GCCTTCTCAGGTCCTGCACAGCTTGGGTGTTGATGTTCCCGCTTTGCCTGCCTGTCCGCTCTGGTCC  
 TCATCACTGATCGACACGGGCTCCAGGACCTCGTCGGGTGGAAGAGCTGCAGAATCGCATTGCTAGCTG  
 TCTGAAGGAGCACATGGTACCCTGGCAGGAGACCCACAGCCGGCCAGCTGCCTGTACGCTGTGGG  
 AACTGCCTGAGCTTCGACCTGTGCACTCAAGGCCTGCAGCGCATCTTTGCCTCAAGTTGGAGGACT  
 TGGTACCCCTCCACCTATTGTGACAAGATCTTATGGACACATTGTCTTTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209316 representing NM\_010444  
 Red=Cloning site Green=Tags(s)

MPCIQAQYGPATSPGPRDHLTGDPLALEFGKPTMDLSPETAPAAPATLPSFSTFMDGYTGEFDTFLYQ  
 LPGTTQPCSSACSSASSTSSSSSATSPASAFKFDQVYGCYPGTSLGPLDELSSSGSEYYGSPCSA  
 PSPSTPNFQPSQLSPWDGSGFHSPSQTIEGLWAWTEQLPKASSGPPPPPTFFSFSPPTGSPSLAQSSL  
 KLFPPPATHQLGEGESYSMPAAFPLAPTSPNRDTSGLDAPVTSTKSRGASGGSEGRCAVCGDNASCQ  
 HYGVRTCEGCKGFFKRTVQKSAKYICLANKDCPVDKRRRNRCQFCRFQKCLAVGMVKEVVRTDSLKGRG  
 RLPSPKPKQPPDASPTNLLTSLIRAHLDSPSTAKLDYSKFQELVLPFRFGKEDAGDVQQFYDLLSGSLDVI  
 RKWAEKIPGFIELCPGDQDLLLESFLELFIILRLAYRSKPGEGKLIFCSGLVLHQLQCARGFGDWIDNIL  
 AFSRSLHSLGVDVPAFACLSALVLTIDRHLQDPRRVEELQNRIASCLKEHMATVAGDPQPASCLSRLLG  
 KLPELRTLCTQLQRIFCLKLEDLVPPPIVDKIFMDTSLF

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_010444

**ORF Size:** 1803 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\\_010444.2](#)

**RefSeq Size:** 2456 bp

**RefSeq ORF:** 1806 bp

**Locus ID:** 15370

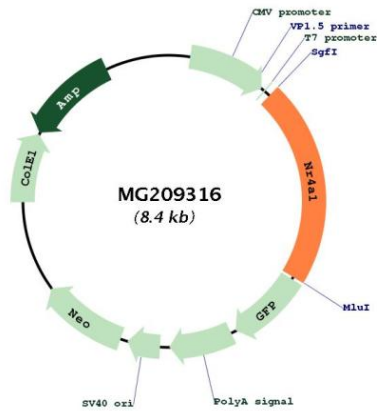
**UniProt ID:** [P12813](#)

**Cytogenetics:** 15 F1

**Gene Summary:**

Orphan nuclear receptor. May act concomitantly with NURR1 in regulating the expression of delayed-early genes during liver regeneration. Binds the NGFI-B response element (NBRE) 5'-AAAAGGTCA-3'. May inhibit NF-kappa-B transactivation of IL2. Participates in energy homeostasis by sequestering the kinase STK11 in the nucleus, thereby attenuating cytoplasmic AMPK activation (By similarity). Plays a role in the vascular response to injury (PubMed:22427340).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG209316