

## Product datasheet for **MG209201**

### Nr2c1 (NM\_011629) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nr2c1 (NM_011629) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nr2c1
Synonyms:	80.3; 4831444H07Rik; Eenr; TR2; Tr2-11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209201 representing NM\_011629  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACCATAGAAGAAATTGCACATCAAATTATCGACCAACAGATGGGTGAGATTGTTACAGAGCAGC  
 AGACTGGACAGAAAATCCAGATCGTGACAGCACTTGACCACAGCACACAGGGCAAGCAGTTCATTCTGGC  
 AAACCACGAGGGATCCACGCCAGGAAAGTCTTCTCACAACTCCAGACGCCGCAGGTGTCAACCAAGTTG  
 TTTTTTACCAGTCTGATCTGTCCGCACCGCACCTCCAGCTCTTAACAGAAAAGTCTCTGACCAGGGAC  
 CAAATAAGGTTTTTGTCTTTGTGTGTGTGGAGACAAAGCATCAGGGCGTCAATACGGAGCAATAAC  
 TTGTGAAGGCTGCAAAGGATTCTTTAAAAGAAGCATCCGAAAAACCTAGTCTATTCTGTGCGAGGATCC  
 AAAGACTGCGTTATCAATAAGCACCACCGAAACCGCTGCCAGTACTGCAGGCTGCAGAGGTGCATTGCC  
 TCGGGATGAAGCAAGACTCTGTTCAAGTGTAAAGAAAACCCATTGAAGTTTCCCGAGAAAAATCTCCAA  
 CTGTGCAGCTTCAACAGAAAAAATCTACATCCGAAAAGACCTCCGAAAGCCCTCTAGCCGCAACGCCAAC  
 TTTGTAACAGACAGCGAGACTGCCAGGTGAGTGGACTGTTGGATTTCAGGAATGTTTGTGAATATTCATC  
 CGTCTGGAATAAAAAACAGAGCCAGCTATGCTAATGGCACCAGATAAGGCTGAATCGTGTGACGGGAGACT  
 AAGCACATTGGCCAGTGTGGTACATCATTAGCGAATCTCGGCAAAGCTAAAGACCTTTCTCACTGCGGT  
 GGGGATATGCCTGTGGTGCAGAGCTTACGCAATGGGGATACATCCTTCGGTGTCTTTTCATCATGATTC  
 AGACCAATGGGGATGTTTCAAGGGCATTGACACTCTTGCAAAGCACTGACTCCCGGCGAAAGCTCCGC  
 CTGCCAGAGCCCAGAAGAGGGCATGGAGGGAAGCCCGCATCTAATCGTGGAGAGCCAAGCTTCGTGGAG  
 AAGGAGGGGCCGCTGCTGAGCGAGTGCACGTAGCTTTTCAGGCTCACCATGCCTTCTCTATGCCCGAGT  
 ACCTGAATGTGCACTACATTGGGGAGTCGGCTCCAGACTGCTGTTCTTATCGATGCACTGGCATTTC  
 CATACTTCTTTCCAGGGCTAGGGCAGGAGAACAGCATATCACTGGTAAAAGCGTATTGGAATGAGCTT  
 TTTACCCTTGGTCTTGCCAGTGTGGCAAGTGTGAACGTGGCAACTATATTAGCAACGTTTGTCAACT  
 GTCTTACAGTAGCCTTACGCAAGATAAAATGTCCCCGAAAGGAGGAAGTCGTTGATGGAGCACATCTT  
 CAAGCTACAGGAGTTCTGCAACAGCATGGTTAAGCTCTGCATCGATGGGCATGAGTACGCCACCTCAAG  
 GCCATCGTCTCTCAGTCCCGATCACCCAGGCTGGAGAACATGGAGCTAATTGAGAGATTTTCAGGAAA  
 AGGCTTATGTGGAATCCAAGATTATATACCAGGACATATCCAGATGACACCTACAGGCTGTCCGATT  
 ACTTCTCAGACTGCCCGCTTGGCGTGTGAACGCTACCATTACTGAGGAGTTGTTCTTCAAAGGTCTC  
 ATTTGGCAACGTACGGATCGACAGTGTATCCCACACATTTAAAATGGAGCCTGCAGATTACAACCTCTC  
 AAATAATTGGTACAGCCTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209201 representing NM\_011629  
 Red=Cloning site Green=Tags(s)

MATIEEIAHQIIDQQMGEIVTEQQTGQKIQIVTALDHSTQGKQFILANHEGSTPGKVFLTTPDAAGVNQL  
 FFTSPDLSAPHLQLLTKESPDQGNKVFVDFLCVVCSDKASGRHYGAITCEGCKGFFKRSIRKNLVYSCRGS  
 KDCVINKHHRNRCQYCRQRCIAFGMKQDSVQCERKPIEVSREKSSNCAASTEKIYIRKDLRSPLAATPT  
 FVTDSETARSAGLLDSGMFVNIHPSGIKTEPAMLMAPDKAESQGDSTLASVVTSLANLGAKDLSHCG  
 GDMPVVQSLRNGDTSFGAFHHDITNGDVSRAFDTLAKALTPGESSACQSPEEGMEGSPHLIAGEPSFVE  
 KEGPLLESHVAFRLTMPSPMPEYLVNHYIGESASRLLFLSMHWALSIPSFQALGQENSISLVKAYWNL  
 FTLGLAQWQVMNVATILATFVNCLHSSLQDQKMSPERRKSLMEHIFKLQEF CNSMVKLCIDGHEYAYLK  
 AIVLFSFDHPGLENMELIERFQEKAYVEFQDYITRTYPDDTYRLSRLRLPALRLMNATITEELFFKGL  
 IGNVRIDSVIPHILKMEPADYNSQIIGHSL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-Mlul



<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_011629.3</a> , <a href="#">NP_035759.3</a>
<b>RefSeq Size:</b>	3827 bp
<b>RefSeq ORF:</b>	1773 bp
<b>Locus ID:</b>	22025
<b>UniProt ID:</b>	<a href="#">Q505F1</a>
<b>Cytogenetics:</b>	10 48.81 cM
<b>Gene Summary:</b>	Orphan nuclear receptor. Binds the IR7 element in the promoter of its own gene in an autoregulatory negative feedback mechanism. Primarily repressor of a broad range of genes including ESR1 and RARB. Together with NR2C2, forms the core of the DRED (direct repeat erythroid-definitive) complex that represses embryonic and fetal globin transcription. Binds to hormone response elements (HREs) consisting of two 5'-AGGTCA-3' half site direct repeat consensus sequences (By similarity). Also activator of OCT4 gene expression. Plays a fundamental role in early embryogenesis and regulates embryonic stem cell proliferation and differentiation. Mediator of retinoic acid-regulated preadipocyte proliferation. [UniProtKB/Swiss-Prot Function]