

## Product datasheet for **MR209201**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nr2c1 (NM_011629) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nr2c1
Synonyms:	80.3; 4831444H07Rik; Eenr; TR2; Tr2-11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209201 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACCATAGAAGAAATTGCACATCAAATTATCGACCAACAGATGGGTGAGATTGTTACAGAGCAGC  
 AGACTGGACAGAAAATCCAGATCGTGACAGCACTTGACCACAGCACACAGGGCAAGCAGTTCATTCTGGC  
 AAACCACGAGGGATCCACGCCAGGAAAGTCTTCTCACAACTCCAGACGCCGCAGGTGTCAACCAGTTG  
 TTTTTACCAGTCTGATCTGTCCGCACCGCACCTCCAGCTCTTAACAGAAAAGTCTCTGACCAGGGAC  
 CAAATAAGGTTTTGATCTTTGTGTCTGTGTGGAGACAAAGCATCAGGGCGTCAATACGGAGCAATAAC  
 TTGTGAAGGCTGCAAAGGATTCTTTAAAAGAAGCATCCGAAAAACCTAGTCTATTCTGTGAGGATCC  
 AAAGACTGCGTTATCAATAAGCACCACCGAAACCGCTGCCAGTACTGCAGGCTGCAGAGGTGCATTGCC  
 TCGGGATGAAGCAAGACTCTGTTCAAGTGTAAAGAAAACCCATTGAAGTTTCCCGAGAAAAATCTCCAA  
 CTGTGCAGCTTCAACAGAAAAAATCTACATCCGAAAAGACCTCCGAAGCCCTCTAGCCGCAACGCCAAC  
 TTTGTAACAGACAGCGAGACTGCCAGGTGAGTGGACTGTTGGATTACAGGAATGTTTGTGAATATTCATC  
 CGTCTGGAATAAAAAACAGAGCCAGCTATGCTAATGGCACCAGATAAGGCTGAATCGTGTGACGGGAGACT  
 AAGCACATTGGCCAGTGTGGTACATCATTAGCGAATCTCGGCAAAGCTAAAGACCTTTCTCACTGCGGT  
 GGGGATATGCCTGTGGTGCAGAGCTTACGCAATGGGGATACATCCTTCGGTGTCTTTTATCATGATTC  
 AGACCAATGGGGATGTTTCAAGGGCATTGACACTCTTGCAAAGCACTGACTCCCGGCGAAAGCTCCGC  
 CTGCCAGAGCCCAGAAGAGGGCATGGAGGGAAGCCCGCATCTAATCGTGGAGAGCAAGCTTCGTGGAG  
 AAGGAGGGGCCGCTGCTGAGCGAGTGCACGTAGCTTTCCAGGCTCACCATGCCTTCTCTATGCCCGAGT  
 ACCTGAATGTGCACTACATTGGGGAGTCGGCCTCCAGACTGCTGTTCTTATCGATGCATGGCAGCTTTT  
 CATACTTCTTTCCAGGGCTAGGGCAGGAGAACAGCATATCACTGGTAAAAGCGTATTGGAATGAGCTT  
 TTTACCCTTGGTCTTGCCAGTGTGGCAAGTGTGAACGTGGCAACTATATTAGCAACGTTTGTCAACT  
 GTCTTACAGTAGCCTTACGCAAGATAAAATGTCCCGGAAAGGAGGAAGTCGTTGATGGAGCACATCTT  
 CAAGCTACAGGAGTTCTGCAACAGCATGGTTAAGCTCTGCATCGATGGGCATGAGTACGCCACCTCAAG  
 GCCATCGTCTCTTCAAGTCCCGATCACCAGGCCTGGAGAACATGGAGCTAATTGAGAGATTTAGGAAA  
 AGGCTTATGTGGAATCCAAGATTATATCACCAGGACATATCCAGATGACACCTACAGGCTGTCCGATT  
 ACTTCTCAGACTGCCCGCTTGGCGTGTGAACGCTACCATTACTGAGGAGTTGTTCTTCAAAGGTCTC  
 ATTTGGCAACGTACGGATCGACAGTGTATCCCACACATTTAAAATGGAGCCTGCAGATTACAACCTCTC  
 AAATAATTGGTACAGCCTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209201 protein sequence  
 Red=Cloning site Green=Tags(s)

MATIEEIAHQIIDQQMGEIVTEQQTGQKIQIVTALDHSTQGKQFILANHEGSTPGKVFLTTPDAAGVNL  
 FFTSPDLSAPHLQLLTKESPDQGNKVFVLDL CVVCGDKASGRHYGAITCEGCKGFFKRSIRKNLVYSCRGS  
 KDCVINKHHRNRCQYCRQRCIAFGMKQDSVQCERKPIEVSREKSSNCAASTEKIYIRKDLRSPLAATPT  
 FVTDSEARSAGLLDSGMFVNIHPSGIKTEPAMLMAPDKAESQGDSTLASVVTSLANLGKAKDL SHCG  
 GDMPPVQSLRNGDTSFGAFHHDIQTNQDVSRAFDLAKALTPGESSACQSPEEGMEGSPHLIAGEPSFVE  
 KEGPLLSESHVAFRLTMPSPMPEYLVNHYIGESASRLLFLSMHWALSIPSFQALGQENSISLVKAYWNL  
 FTLGLAQWQVMNVATILATFVNCLHSSLQDDKMSPERRSLMEHIFKLQEF CNSMVKLCIDGHEYAYLK  
 AIVLFSPDHPGLENMELIERFQEKAYVEFQDYITRTYPDDTYRLSRLRLPALRLMNATITEELFFKGL  
 IGNVRIDSVIPHILKMEPADYNSQIIGHSL

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_011629

**ORF Size:** 1773 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\\_011629.3](#), [NP\\_035759.3](#)

**RefSeq Size:** 3827 bp

**RefSeq ORF:** 1773 bp

**Locus ID:** 22025

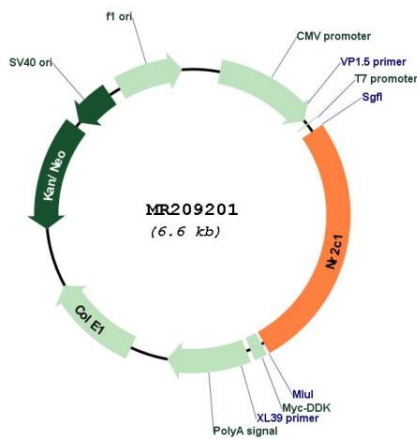
**UniProt ID:** [Q505F1](#)

**Cytogenetics:** 10 48.81 cM

**MW:** 65.5 kDa

**Gene Summary:** 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]

**Product images:**



Circular map for MR209201