

Product datasheet for **MC219522**

Nr2c2 (NM_011630) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Nr2c2 (NM_011630) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Nr2c2 |
| Synonyms: | mKIAA4145; TAK1; Tr4 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC219522 representing NM_011630
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCAGCCCCTCCCCGCGCATCCAGATAATTTCCACCGACTCTGCGGTAGCCTCACCTCAGCGCATTC
 AGATTGTAACAGACCAGCAGACAGGACAAAAGATCCAGATAGTACCCGAGTGGATGCCTCTGGATCCTC
 TAAACAGCAGTTCATCCTAACCCAGCCAGATGGAGCTGGAAGTGGAAAGGTGATCCTGGCTTCTCCGGAA
 ACATCCAGTGCCAAGCAGCTCATATTCACCACCTCGGACAACCTTGTCCCTGGCAGGATCCAGATCGTCA
 CGGATTCTGCTTCTGTGGAGCGTTTGTGGGGAAGGCAGACGTCCAGCGGCCCCAGGTGGTGGAGTACTG
 TGTGGTCTGTGGCGACAAAGCCTCTGGCCGGCACTATGGGGCTGTCAGTTGTGAAGTTGCAAAGTTTTC
 TTCAAAGGAGCGTGAGGAAGAATCTGACCTACAGCTGTCGGAGCAGCCAAGACTGCATCATCAACAAGC
 ACCACCGTAACCGCTGCCAGTTCTGCCGGCTGAAGAAGTGCCTGGAGATGGGCATGAAAAATGGAGTCTGT
 ACAGAGTGAACGGAAGCCCTTTGATGTGCAACGGGAGAAACCAAGCAATTGTGCTGCTTCCACTGAGAAG
 ATCTATATCCGGAAAGACCTGAGAAGTCCCTGATAGCCACTCCACATTTGTGGCAGACAAAGATGGAG
 CAAGACAAACAGGTCTTCTTGTATCCAGGGATGCTTGTGAACATCCAACAGCCCTTTGATACGTGAGGATGG
 TACAGTTCTCTGGCCGCGGATTCCAAGGCTGAAACAAGCCAAGGAGCTCTAGGTACACTGGCAAATGTA
 GTGACCTCTTTGGCCAACCTGAGTGAATCTTTGAACAACGGTGTGCTTCAGAAATGCAGCCAGAGGACC
 AGTCTGCAAGTGAGATTACTCGGGCATTGACACCTTAGCGAAAGCACTTAATACCACAGATAGTGTCTC
 ACCTCCAAGCCTGGCAGATGGGATAGATGCTAGTGGAGGAGGAGTATCCATGTCATCAGCAGAGATCAG
 TCAACACCCATCATTGAAGTTGAAGGCCCTCTCCTTTAGACACACATGTCACATTCAAGCTTACAATGC
 CCAGTCCATGCCAGAGTACCTCAATGTACATTACATCTGTGAGTCTGCATCCCGCCTGCTTTTCCCTCTC
 CATGCACTGGGCAAGGTCAATCCAGCCTTCCAGGCACTTGGACAGGACTGTAATACCAGCCTGGTGAGG
 GCCTGCTGGAATGAGCTTCTCACTCTTGGCCTGGCCAGTGTGCCAGGTCATGAGTCTCTCCACCATCC
 TGGCAGCCATTGTCAACCACCTACAGAACAGCATCCAGGAAGATAAGCTTTCTGGTGACCGGATAAAGCA
 AGTGATGGAGCACATCTGGAAGCTGCAGGAGTTCTGTAACAGCATGGCGAAACTGGATATAGACGGCTAT
 GAGTACGCATACCTTAAAGCTATAGTTCTTTAGTCCCGATCATCCAGGTTTGGACGGCACAAGCCAGA
 TTGAGAAATTTAGGAGAAGGCACAGATGGAATTACAGGACTATGTGCAGAAAACCTACTCTGAAGATAC
 TTACAGATTGGCCAGGATCTTGTCCGCCTACCAGCACTCAGGCTCATGAGCTCCAACATAACAGAAGAA
 CTTTTTTTTACTGGTCTCATTGGCAATGTTTCAATAGACAGCATAATTCCTTACATCCTCAAGATGGAGA
 CAGCAGAAATAATGGCCAGATCACTGGAGCCAGTCTA**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_011630
- Insert Size:** 1791 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_011630.3](#), [NP_035760.1](#)

RefSeq Size: 7637 bp

RefSeq ORF: 1791 bp

Locus ID: 22026

UniProt ID: [P49117](#)

Cytogenetics: 6 D1

Gene Summary: Orphan nuclear receptor that can act as a repressor or activator of transcription. An important repressor of nuclear receptor signaling pathways such as retinoic acid receptor, retinoid X, vitamin D3 receptor, thyroid hormone receptor and estrogen receptor pathways. May regulate gene expression during the late phase of spermatogenesis. Activates transcriptional activity of LHCG and is antagonist of PPARA-mediated transactivation (By similarity). Together with NR2C1, forms the core of the DRED (direct repeat erythroid-definitive) complex that represses embryonic and fetal globin transcription including that of GATA1. Binds to hormone response elements (HREs) consisting of two 5'-AGGTCA-3' half site direct repeat consensus sequences. Plays a fundamental role in early embryonic development and embryonic stem cells. Required for normal spermatogenesis and cerebellum development. Appears to be important for neurodevelopmentally regulated behavior.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR and coding region, compared to variant 1. These differences cause translation initiation at a downstream AUG and results in an isoform (2) with a shorter N-terminus, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.