

Product datasheet for **MR221079**

Nr2c2 (NM_011630) Mouse Tagged ORF Clone

Product data:

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



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**ORF Nucleotide
Sequence:**

>MR221079 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

 TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

 ATGACCAGCCCCTCCCCGCGCATCCAGATAATTTCCACCGACTCTGCGGTAGCCTCACCTCAGCGCATT
AGATTGTAACAGACCAGCAGACAGGACAAAAGATCCAGATAGTCACCGCAGTGGATGCCTCTGGATCCTC
TAAACAGCAGTTCATCCTAACCGCCAGATGGAGCTGGAAGTGGGAAGGTGATCCTGGCTTCTCCGGAA
ACATCCAGTGCCAAGCAGCTCATATTCACACCTCGGACAACCTTGTCCTGGCAGGATCCAGATCGTCA
CGGATTCTGCTTCTGTGGAGCGTTTGTGGGAAGGCAGACGTCCAGCGCCCCAGGTGGTGGAGTACTG
TGTGGTCTGTGGCGACAAAGCCTCTGGCCGGCACTATGGGGTGTGAGTTGTGAAGTTGCAAGGTTTC
TTCAAAGGAGCGTGAGGAAGAATCTGACCTACAGCTGTCGGAGCAGCAAGACTGCATCATCAACAAGC
ACCACCGTAACCGCTGCCAGTTCTGCCGGCTGAAGAAGTGCTGGAGATGGGCATGAAAATGGAGTCTGT
ACAGAGTGAACGGAAGCCCTTTGATGTGAACGGGAGAAACCAAGCAATTGTGCTCTTCCACTGAGAAG
ATCTATATCCGAAAGACCTGAGAAGTCTCTGATAGCCACTCCACATTTGTGGCAGACAAAGATGGAG
CAAGACAAACAGGTCTTCTTGATCCAGGGATGCTTGTGAACATCCAACAGCCCTTGATACGTGAGGATGG
TACAGTTCTCTGGCCGCGGATTCCAAGGCTGAAACAAGCCAAGGAGCTCTAGGTACACTGGCAAATGTA
GTGACCTCTTTGGCCAACCTGAGTGAATCTTTGAACAACGGTGTGCTTCAGAAATGCAGCCAGAGGACC
AGTCTGCAAGTGAGATTACTCGGGCATTGACACCTTAGCGAAAGCACTTAATACCACAGATAGTGCTTC
ACCTCCAAGCCTGGCAGATGGGATAGATGCTAGTGAGGAGGGAGTATCCATGTCATCAGCAGAGATCAG
TCAACACCCATCATTGAAGTTGAAGGCCCTCTCCTTTAGACACACATGTCACATTCAAGCTTACAATGC
CCAGTCCCTATGCCAGAGTACCTCAATGTACATTACATCTGTGAGTCTGCATCCCGCTGCTTTTCTCTC
CATGCACTGGGCAAGGTCAATCCAGCCTTCCAGGCACTTGACAGGACTGTAATACCAGCCTGGTGAGG
GCCTGCTGGAATGAGCTTCTACTCTTGCCCTGGCCAGTGTGCCAGGTGATGAGTCTCTCCACCATCC
TGGCAGCCATTGTCAACCACCTACAGAACAGCATCCAGGAAGATAAGCTTTCTGGTGACCGGATAAAGCA
AGTGATGGAGCACATCTGGAAGCTGCAGGAGTTCTGTAACAGCATGGCGAACTGGATATAGACGGCTAT
GAGTACGCATACCTTAAGCTATAGTTCTCTTTAGTCCCGATCATCCAGGTTTGACAGGCACAAGCCAGA
TTGAGAAATTTAGGAGAAGGCACAGATGGAATTACAGGACTATGTGCAGAAAACCTACTCTGAAGATAC
TTACAGATTGGCCAGGATTCTTGTCCGCTACCAGCACTCAGGCTCATGAGCTCCAACATAACAGAAGAA
CTTTTTTTTACTGGTCTCATTGGCAATGTTTCAATAGACAGCATAATTCCTTACATCCTCAAGATGGAGA
CAGCAGAAATATAATGGCCAGATCACTGGAGCCAGTCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221079 protein sequence

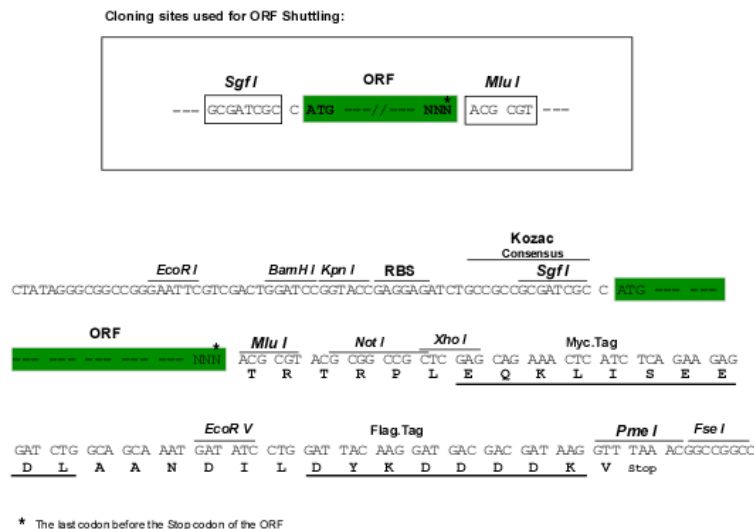
Red=Cloning site Green=Tags(s)

 MTSPSPRIQIISTDSAVASPQRIQIVTDQQTGQKIQIVTAVDASGSSKQQFILTSPDGAGTGKIVILASPE
TSSAKQLIFTSDNLVPGRIQIVTDSASVERLLGADVQRPQVVEYCVVCGDKASGRHYGAVSCEGCKGF
FKRSVRKNLTYSRSSQDCIINKHHRNRCQFCRLKKCLEMGMKESVQSERKPFVDQREKPSNCAASTEK
IYIRKDLRSPLIATPTFVADKDGARQTGLLDPGMLVNIQQPLIREDGTVLLAADSKAETSQALGLTANV
VTSLANLSESLNNGDASEMQPEDQSASEITRAFDTLAKALNTTDSASPPSLADGIDASGGGSIHVSRDQ
STPIIEVEGPLLSDTHVTFKLTPSPMPEYLNHYICESASRLLFLSMHWARSIPAFQALGQDCNTSLVR
ACWNELFTLGLAQCAQVMSLSTILAAIVNHLQNSIQEDKLSGDRIKQVMEHIWKLQEFNCNMAKLDIDGY
EYAYLKAIVLFSPDHPGLTGTSQIEKFQEKAQMEHQDYVQKTYSEDYTRLARILVRLPALRLMSSNITEE
LFFTGLIGNVSIDSIIPIYILKMETAEYNGQITGASL

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_011630

ORF Size: 1788 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_011630.3](#), [NP_035760.1](#)

RefSeq Size: 7637 bp

RefSeq ORF: 1791 bp

Locus ID: 22026

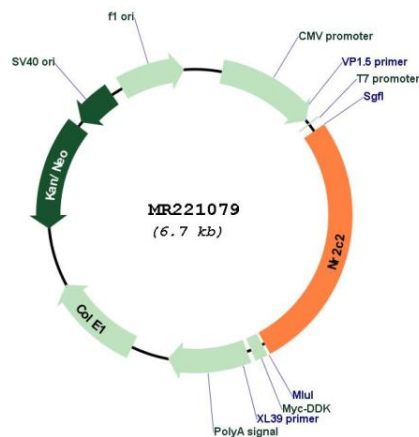
UniProt ID: [P49117](#)

Cytogenetics: 6 D1

MW: 65.2 kDa

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]

Product images:



Circular map for MR221079