

Product datasheet for **MG221079**

Nr2c2 (NM_011630) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr2c2 (NM_011630) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nr2c2
Synonyms:	mKIAA4145; TAK1; Tr4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221079 representing NM_011630
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCAGCCCCCTCCCCGCGCATCCAGATAATTTCCACCGACTCTGCGGTAGCCTCACCTCAGCGCATTC
 AGATTGTAACAGACCAGCAGACAGGACAAAAGATCCAGATAGTCACCGCAGTGGATGCCTCTGGATCCTC
 TAAACAGCAGTTCATCCTAACCGAGCCAGATGGAGCTGGAAGTGGGAAGGTGATCCTGGCTTCTCCGGAA
 ACATCCAGTGCCAAGCAGCTCATATTCACACCTCGGACAACCTTGTCCTGGCAGGATCCAGATCGTCA
 CGGATTCTGCTTCTGTGGAGCGTTTGTGGGAAGGCAGACGTCCAGCGGCCCCAGGTGGTGGAGTACTG
 TGTGGTCTGTGGCGACAAAGCCTCTGGCCGGCACTATGGGGTGTGAGTTGTGAAGTTGCAAGGTTTC
 TTCAAAGGAGCGTGAGGAAGAATCTGACCTACAGCTGTCGGAGCAGCCAAGACTGCATCATCAACAAGC
 ACCACCGTAACCGCTGCCAGTTCTGCCGGCTGAAGAAGTGCCTGGAGATGGGCATGAAAAATGGAGTCTGT
 ACAGAGTGAACGGAAGCCCTTTGATGTGAACGGGAGAAACCAAGCAATTGTGCTGCTTCCACTGAGAAG
 ATCTATATCCGGAAGACCTGAGAAGTCTCTGATAGCCACTCCACATTTGTGGCAGACAAAGATGGAG
 CAAGACAAACAGGTCTTCTTGATCCAGGGATGCTTGTGAACATCCAACAGCCCTTGATACGTGAGGATGG
 TACAGTTCTCTGGCCGCGGATTCCAAGGCTGAAACAAGCCAAGGAGCTCTAGGTACACTGGCAAATGTA
 GTGACCTCTTTGGCCAACCTGAGTGAATCTTTGAACAACGGTGTGCTTCAGAAATGCAGCCAGAGGACC
 AGTCTGCAAGTGAGATTACTCGGGCATTGACACCTTAGCGAAAGCACTTAATACCACAGATAGTGCTTC
 ACCTCCAAGCCTGGCAGATGGGATAGTGTAGTGGAGGAGGAGTATCCATGTCATCAGCAGAGATCAG
 TCAACACCCATCATTGAAGTTGAAGGCCCTCTCCTTTAGACACACATGTCACATTCAAGCTTACAATGC
 CCAGTCTTATGCCAGAGTACCTCAATGTACATTACATCTGTGAGTCTGCATCCCGCTGCTTTTCTCTC
 CATGCACTGGGCAAGGTCAATCCAGCCTTCCAGGCACTTGACAGGACTGTAATACCAGCCTGGTGAGG
 GCCTGCTGGAATGAGCTTCTACTCTTGCCCTGGCCAGTGTGCCAGGTGATGAGTCTCTCCACCATCC
 TGGCAGCCATTGTCAACCACCTACAGAACAGCATCCAGGAAGATAAGCTTTCTGGTGACCGGATAAAGCA
 AGTGATGGAGCACATCTGGAAGCTGCAGGAGTTCTGTAACAGCATGGCGAACTGGATATAGACGGCTAT
 GAGTACGCATACCTTAAGCTATAGTTCTCTTTAGTCCCGATCATCCAGGTTTGACAGGCACAAGCCAGA
 TTGAGAAATTTAGGAGAAGGCACAGATGGAATTACAGGACTATGTGCAGAAAACCTACTCTGAAGATAC
 TTACAGATTGGCCAGGATTCTTGTCCGCTACCAGCACTCAGGCTCATGAGCTCCAACATAACAGAAGAA
 CTTTTTTTACTGGTCTCATTGGCAATGTTTCAATAGACAGCATAATTCCTTACATCCTCAAGATGGAGA
 CAGCAGAAATAATGGCCAGATCACTGGAGCCAGTCTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG221079 representing NM_011630
 Red=Cloning site Green=Tags(s)

MTSPSPRIQIISTDSAVASPPQRIQIVTDQQTGQKIQIVTAVDASGSSKQQFILTSPDGAGTGKIVILASPE
 TSSAKQLIFTSDNLVPGRIQIVTDSASVERLLGKADVQRPQVVEYCVVCGDKASGRHYGAVSCEGCKGF
 FKRSVRKNLTYSRSSQDCIINKHHRNRCQFCRLKKCLEMGMKESVQSERKPFVDVQREKPSNCAASTEK
 IYIRKDLRSPLIATPTFVADKDGARQTGLLDPGMLVNIQQPLIREDGTVLLAADSKAETSQGALGTLANV
 VTSLANLSESLNNGDASEMQPEDQSASEITRAFDTLAKALNTTDSASPPSLADGIDASGGGSIHVSRDQ
 STPIIEVEGPLLSDTHVTFKLTPSPMPEYLNHYICESASRLLFLSMHWARSIPAFQALGQDCNTSLVR
 ACWNELFTLGLAQCAQVMSLSTILAAIVNHLQNSIQEDKLSGDRIKQVMEHIWKLQEFCSMAKLDIDGY
 EYAYLKAIVLFPDHPGLTGTSQIEKFQEKQMEQLQDYVQKTYSEDYRLARILVRLPALRLMSSNITEE
 LFFTGLIGNVSIDSIIPYILKMETAEYNGQITGASL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

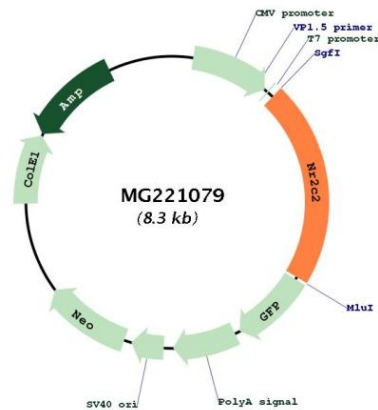

ACCN:	NM_011630
ORF Size:	1788 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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

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 MG221079