

Product datasheet for **MR209431**

Nr1d1 (NM_145434) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr1d1 (NM_145434) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nr1d1
Synonyms:	A530070C09Rik; R75201
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209431 representing NM_145434
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACGACCTGGACTCCAATAACAACACAGGTGGTGTATCACCTACATTGGCTCTAGTGGCTCCTCCC
 CGAGCCGACCAGCCCGGAGTCCCTCTACAGTGACAGCTCCAATGGCAGCTTCCAGTCCCTGACTCAAGG
 TTGTTCCACATACTTCCACCATCACCTACTGGCTCCCTCACCCAGGACCCTGCCCGCTCTTTTGGCAGT
 GCGCCACCAGTCTCAGTGATGATAGCTCCCTTCTTCTACATCATCGTCATCCTCTTTCATCCTCCTCCT
 CCTTCTATAACGGGAGCCCCCAGGAAGTCTACAAGTGGCCATGGAAGACAGCAGCCGAGTGTCCCCCAG
 CAAGGGCACAAGCAACATTACCAAGCTGAATGGCATGGTGTACTGTGTAAGGTGTGTGGGGACGTGGCC
 TCAGGCTTCCACTATGGAGTGCACGCCTGTGAGGGCTGCAAGGGCTTTTTTCGCCGGAGCATCCAACAGA
 ATATCCAGTACAAACGGTGTCTGAAAAACGAAACTGCTCCATCGTTCGCATCAATCGAACCGCTGCCA
 GCAGTGTGCTTCAAGAAGTGTCTCTCCGTTGGCATGTCTAGAGATGCTGTGCGTTTTGGCGCATCCCC
 AAGAGAGAGAAGCAACGGATGCTTGCCGAGATGCAGAGCGCCATGAACTTGGCCAACAACCAACTGAGCA
 GCCTGTGCCCTCTAGAGACCTCACCTACTCCACATCCCACCTCTGGCTCCATGGGCCCTCACCTCCTCC
 TGCACCAGCCCCACACCTTTGGTGGGCTTCTCTCAGTCCCACAACAGCTGACACCACCAGGTCTCCC
 AGCCCTGAGCCCACCATGGAGGATGTGATATCCCAGGTGCGCCGGGCCATCGAGAAATCTTACCTATG
 CCCATGACAAGTTAGGCACCTCACCTGGTAACTCAATGCCAATCATGCATCAGGTAGCCCTTACGTAC
 AACTCCACACCGCTGGGAGAGTCAGGGATGCCCCGTGCCCCAACGACAACAACCTTTTGGCGGCTCAG
 CGTCATAATGAAGCGTGAATGGTCTACGCCAGGGCCCTTCTCTACCCGCTACCTGGCCTTCTGGCC
 CCACCCACACAGCTGCCACCAACCTAACAGCAATGGGCACCGTCTGTGCCCCACCCACGTATTCGGC
 CCCAGAAGGGGAGGCACCTGCCAACAGTCTACGGCAAGGCAACCAAGAATGTTCTGCTGGCATGTCCC
 ATGAACATGTATCCCATGGACGCAGCGCCGGACTGTGCAGGAGATCTGGGAAGACTTCTCTATGAGCT
 TCACGCTGCCGTTGGGAGGTGGTAGAGTTTGCCAAACACATCCCAGGCTTCCGTGACCTTTCTCAGCA
 CGACCAGGTGACCCTGCTTAAGGCTGGCACCTTTGAGGTGCTGATGGTGCCTTTGCATCGTTGTTCAAC
 GTGAAGGACCAGACAGTGTCTCTGAGCCGACAACCTACAGTCTGCAGGAGCTCGGTGCCATGGGCA
 TGGGGCAGCTGCTCAATGCCATGTTGACTTACGCGAGAAGCTCAACTCCCTGGCACTTACCAGGAGGA
 GCTGGGCTATTACCGCGGTGGTCTTGTCTCTGCAGACCGCTCGGAATGGAGATTCGGCTTCGGTG
 GAGCAGCTCCAGGAGACGCTGCTGCGGGCTTTCGGGCTCTGGTGTGAAGAACCAGCCCTCGGAGACTT
 CCCGCTTACCAAGCTGCTGCTCAAGCTGCCGGACCTGCCGACCTGAACAACATGCATTCGAGAAAGCT
 GCTGTCTTCCGGGTGGACGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209431 representing NM_145434
 Red=Cloning site Green=Tags(s)

MTTLDNNTGGVITYIGSSGSSPSRTPESLYSDSSNGSFQSLTQGCPTYFPPSPTGSLTQDPARSFGS
 APPSLSDSSPSSTSSSSSSSSSFYNGSPPGSLQVAMEDSSRVSPSKGTSNITKLNMGVLLCKVCGDVA
 SGFHYGVHACEGCKGFFRRSIQQNIQYKRCLKNENCSIVRINRNRQCQCRFKKCLSVGMSRDAVRFGRIP
 KREKQRMLAEMQSAMNLANQLSSLCPLETSPTPHPTSGSMGPPPPAPAPTPLVGFQFPQQLTPPRSP
 SPEPTMEDVISQVARAHREIFTYAHDKLGTSPGNFNANHASGSPSATTPHRWESQGCPSAPNDNNLLAAQ
 RHNEALNGLRQGPSSYPPTWPSGPTHHSCHQPNSNGHRLCPTHVYSAPEGEAPANSRQGNLTKNVLLACP
 MNMYPHGRSGRTVQEIWEDFSMSFTPAVREVVEFAKHIPGFRDLQHQDQVTLKAGTFEVLMVRFASLFN
 VKDQTVMFSLRRTYSLQELGAMGMGDLNAMFDFSEKLNLSLALTEEELGLFTAVVLSADRSGMENSASV
 EQLQETLLRALRALVLKNRPSETSRFTKLLKLPDLRLTNMNHSEKLLSFRVDAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145434

ORF Size: 1845 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_145434.1](#)

RefSeq Size: 2627 bp

RefSeq ORF: 1848 bp

Locus ID: 217166

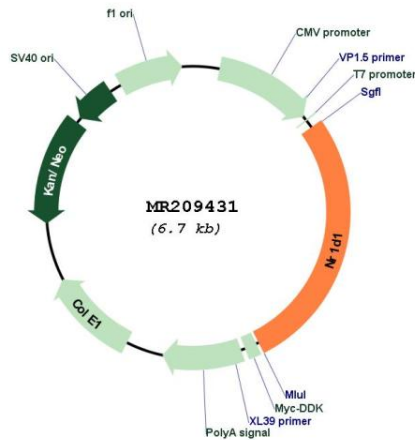
UniProt ID: [Q3UV55](#)

Cytogenetics: 11 D

MW: 67.3 kDa

Gene Summary: This gene encodes a transcription factor that is a member of the nuclear receptor subfamily 1. The encoded protein is a ligand-sensitive transcription factor that negatively regulates the expression of core clock proteins. In particular this protein represses the circadian clock transcription factor aryl hydrocarbon receptor nuclear translocator-like protein 1 (Arntl). This protein may also be involved in regulating genes that function in metabolic, inflammatory and cardiovascular processes. [provided by RefSeq, Feb 2014]

Product images:



Circular map for MR209431