

## Product datasheet for **RR209007**

### **Nr1d2 (NM\_147210) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nr1d2 (NM_147210) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nr1d2
Synonyms:	HZF-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RR209007 representing NM\_147210  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGTGAACGCGGGAGGTGTGATTGCCTACATCAGTTCCTCCAGCTCTGCCTCCAGCCCTGCCTCCT  
 GTCACAGCGAGGGCTCTGAGAACAGTTTCCAGTCTCGTCTCGTCCGTTCCGTCTTCTCCAACAGCTC  
 CAACTGTGATGCCAACGGCAACCCCAAGAACACGGATGTCTCTAGCATTGACGGTGTCTCAAGAGCGAC  
 CGCACAGACTGTCTGTGAAAACAGGCAAACTGGTGCCCTGGCATGACCAAGAGTACAGCGGAATGA  
 CAAAATTTAGTGGCATGGTTCTGCTATGTAAGTCTGTGGGGATGTGGCCTCAGGATCCACTATGGAGT  
 TCATGCTTGTGAAGGCTGAAGGGCTTCTCAGGAGGAGCATTACAGCAGAACATCCAGTACAAGAAGTGC  
 CTGAAGAACGAGAATTGCTCCATCATGAGGATGAACAGGAACCGCTGCCAGCAGTCCGCTTCAAGAAGT  
 GTCTGTCCGTGGGAATGTCGCGGGACGCTGTTTCGATTTGGCCGGATCCCAAGCGTGAAAAACAGAGAAT  
 GCTAATTGAGATGCAAAGTGCAATGAAGACCATGATGAGCACCCAGTTCGGTGGCCACCTGCAGAGTGAC  
 ACCTTAGCAGAGCCGCATGAGCAGTCACTACCACCGGCTCAGGAGCAGCTGCGGCCCAAGCCCCAGCTGG  
 AGCAAGAAAACATCAAAAGCACCCCTCCTCTCTGATTTTGCAAGGAGGAAGTATTGGCATGGTGCAC  
 CAGAGCCCAAGGATACCTTTCTGTATAATCAGGAACATCGAGAAAACATCTGAGAGCATGCCACCC  
 CATAGAGGAGAACGGATTCCCAGGAATGTGGAGCAATAAATTTAAATCATGACCATCGTGGCGGTGGGC  
 TTCACAGCCACTCCCCTGTAGTGAGAGCCAGCAGCATCTCAGTGGACAGTACAAGGGAGGAACATGAT  
 GCACTACCCAAACGGGCATACCGTTTGTATTTGAAATGGACACTGTGTGAACTTCTCCAGTGCTTACCCT  
 CAAAGAGTCTGTGATAGGATCCAGTAGTGGATGTTCTCAGACTGAGAGCAGGAATAGCTACCTGTGCA  
 GCACTGGAGGGAGGATGCATCTGGTTTGTCTATGAGCAAGTCTCCATATGTGGATCCTCAGAAAATCTGG  
 ACATGAAATCTGGGAAGAATTTTCAATGAGTTTTACCCAGCAGTAAAAGAGGTGGTAGAATTTGCAAAA  
 CGTATTCTGGCTCCGAGATCTGTCTCAGCATGATCAGGTCAACCTGTTAAAAGCTGGGACTTTTGAGG  
 TTTAATGGTGCATTTGCTTCTGTTATTTGATGCAAAGGAGCGGACTGTCACCTTCTGAGTGGTAAAGAA  
 GTACAGTGTGGATGACCTGCACTCCATGGGAGCAGGCGATCTGCTCAGCTCTATGTTTGGTTCAGCGAG  
 AAGCTGAATGGCCTCCAGCTCAGCGACGAGGAAATGAGCTTGTTCACAGCTGTTGTTCTGGTGTCTGCAG  
 ATCGATCTGGAATTGAAAATGTCAACTCAGTGGAGGCTCTGCAGGAAACACTCATCCGTGCACTAAGGAC  
 CTTAATAATGAAAACCATCAAATGAGGCCTCCATTTTACAAAATTACTTCTAAAGTTGCCAGATCTT  
 CGATCTTTAAACAACATGCACTCTGAGGAACTCTTGGCCTTTAAAGTTTCATCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR209007 representing NM\_147210  
 Red=Cloning site Green=Tags(s)

MELNAGGVIAYISSSSASPPASCHSEGENSFQSSSSVSPSSPNSNCDANGNPKNNTDVSIDGVLKSD  
 RTDCPVKTKPGAPGMTKSHSGMTKFSGMVLLCKVCGDVASGFHYGVHACEGCKGFFRRSIQQNIQYKCC  
 LKNENCSIMRMRNRRCQQCRFKKCLSVGMSRDVRFGRIPKREKQRMLEMQSAMKTMMSQTFGGHQLQSD  
 TLAEPHEQSVPPAQEQLRPKPQLEQENIKSTPPPSDFAKEEVIGMVTRAHKDTFLYNQEHRENSSESMP  
 HRGERIPRNVQYNLNHDHRGGGLHSHFPCSESQHL SGQYKGRNMMHYPNGHTVCISNGHCVNFSSAYP  
 QRVCDRIPVGGCSQTESRNSYLCSTGGRMHLVCPMSKSPYVDPQKSGHEIWEFSPMSFTPAVKEVVEFAK  
 RIPGFRDLSQHDQVNLKAGTFEVLVRFASLFDKERTVTFLSGKKYSVDDLHSMGAGDLLSSMFEFSE  
 KLNLQLSDEEMSLFTAIVLVADRSGIENVNSVEALQETLIRALRTLIMKNHPNEASIFTKLLKLPDL  
 RSLNNMHSEELLAFKVHP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_147210

**ORF Size:** 1734 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\\_147210.2](#), [NP\\_671743.2](#)

**RefSeq Size:** 4610 bp

**RefSeq ORF:** 1737 bp

**Locus ID:** 259241

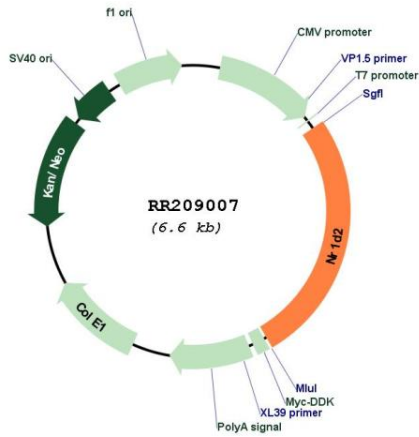
**UniProt ID:** [Q63504](#)

**Cytogenetics:** 15p16

MW: 64.2 kDa

Gene Summary: This gene encodes a member of the nuclear hormone receptor family, specifically the NR1 subfamily of receptors. The encoded protein functions as a transcriptional repressor and may play a role in circadian rhythms and carbohydrate and lipid metabolism. [provided by RefSeq, Feb 2014]

Product images:



Circular map for RR209007