

## Product datasheet for **MR209045**

### Nr1d2 (NM\_011584) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nr1d2 (NM_011584) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nr1d2
Synonyms:	Rev-erb; RVR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209045 representing NM\_011584  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCTGAACGCAGGAGGTGTGATTGCCTACATCAGTTCCTCTAGCTCTGCCTCCAGCCCTGCCTCTT  
 GTCACAGTGAGGGTTCTGAGAATAGCTTCCAGTCTCGTCTCGTCTGTTCCATCTCTCCAAATAGCTC  
 TAACTGTGATGCCAACGGCAATCCCAAGAACGCTGATATCTCTAGCATCGATGGTGTCTGAAGAGTGAC  
 CGCACAGATTGCTGTGAAAACAGGCAAAACCAGTGCTCTGGCATGACTAAGAGTCACAGTGGAATGA  
 CAAAATTTAGTGGCATGGTTCTACTGTGTAAGTCTGTGGGGATGTGGCATCAGGATCCACTATGGAGT  
 TCATGCTTGTGAAGGCTGAAGGGTTTCTTTCCGAGGAGCATTACGAAAAACATCCAGTATAAGAAGTGC  
 CTGAAGAATGAGAACTGTCCATCATGAGGATGAACAGGAACCGTGCCAGCAGTGCCGCTTTAAGAAGT  
 GTCTGTCTGTGGGATGTCACGAGATGCTGTTTCGATTTGGCCGAATTCCTAAGCGTGAAAAACAGAGAAT  
 GCTAATTGAAATGCAAAGTGCAATGAAGACCATGATGAACACCCAGTTCAGTGGCCACCTGCAGAATGAC  
 ACCTTAGCAGAACAGCATGATCAGTCAGCACTACCAGCTCAGGAACAGCTGCGGCCCAAGTCCCAGCTGG  
 AGCAAGAAAAACATCAAAAACACTCCTTCTGATTTTGCAAAGGAGGAAGTATTGGTATGGTGACCAGAGC  
 CCACAAGGATACCTTTCTGTATAATCAGGAACATCGAGAAAACATCTGAGAGCATGCCACCTCAGAGA  
 GGAGAACGGATTCCCAGGAACATGGAGCAATATAATTTAAATCAAGACCATCGTGGCAGTGGGATTACAC  
 ACCACTTCCCCTGTAGTGAGAGGCGCAACATCTCAGTGGACAGTACAAAGGGAGGAACATAATGCATTA  
 CCCAAACGGCCATGCCGTTTGTATTGCAAATGGACACTGTATGAACCTTCTCCAGTGCTTATACTCAAAGA  
 GTCTGTGATAGAATCCAGTAGGTGGATGTTCTCAGACTGAGAACAGAAATAGTTACCTGTGCAACACTG  
 GAGGGAGGATGCATCTGGTGTCTATGAGCAAGTCTCCATATGTGGACCCTCAGAAGTCTGGACATGA  
 AATCTGGGAAGAATTTTCAATGAGTTTTACCCAGCAGTAAAAGAGGTGGTGAATTTGCAAAGAGGATT  
 CCTGGCTTCCGAGATCTGTCTCAGCATGATCAGGTCAATCTGTTAAAAGCTGGGACTTTTGGGTTTTAA  
 TGGTACGATTTGCTTATTATTTGATGCAAAGAACGGACTGTCACCTTTCTAAGTGGTAAGAAGTACAG  
 TGTGGATGACCTGCACTCAATGGGAGCAGGGGATCTGCTCAGCTCTATGTTTGGTTCAGTGAGAAGCTG  
 AATGCCCTCCAGCTCAGTATGAGGAAATGAGCTTGTTCACAGCAGTGTCTGGTATCTGCAGATCGAT  
 CTGGAATTGAAAATGTCAACTCAGTGGAGGCTTTCAGGAAACACTCATCCGTGCACTAAGGACCTTAAT  
 AATGAAAAACCATCCAAATGAGGCCTCCATTTTACAAAATTACTCTAAAGTTGCCAGATCTTCGATCT  
 TTAACAACATGCACTCTGAGGAACTCTTGGCCTTTAAAGTTCATCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209045 representing NM\_011584  
 Red=Cloning site Green=Tags(s)

MELNAGGVIAYISSSSASPPASCHSEGENSFQSSSSVPPSPNNSNCDANGNPKNADISSIDGVLKSD  
 RTDCPVKTGKTSAPGMTKSHSGMTKFSGMVLLCKVCGDVASGFHYGVHACEGCKGFFRRSIQQNIQYKCC  
 LKNENCSIMRMNRNRCQQCRFKKCLSVGMSRDVRFGRIPKREKQRMLEMQSAMKTMNTQFSGHLQND  
 TLAEQHDQSALPAQEQLRPKSQLQENIKNTPSDFAKEEVIGMVTRAHKDTFLYNQEHRENSSESMPQR  
 GERIPRMEQYNLNQDHRGSGIHNHFPCSERQQHL SGQYKGRNIMHYPNGHAVCIANGHCMNFSSAYTQR  
 VCDRIPVGGCSQTENRNSYL CNTGGRMHLVCPMSKSPYVDPQKSGHEIWEEF SMSF TPAVKEVVEFAKRI  
 PGFRDLSQHDQVNLKAGTFEVL MVRFASL FDAKERTVTF LSGKKYSVDDLHSMGAGDLLSSMFEFSEKL  
 NALQLSDEEMSLFTAVVLSADRSGIENVNSVEALQETLIRALRTLIMKNHPNEASIFTKLLLLKLPDLRS  
 LNMHSEELLAFKVHP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_011584

ORF Size: 1728 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

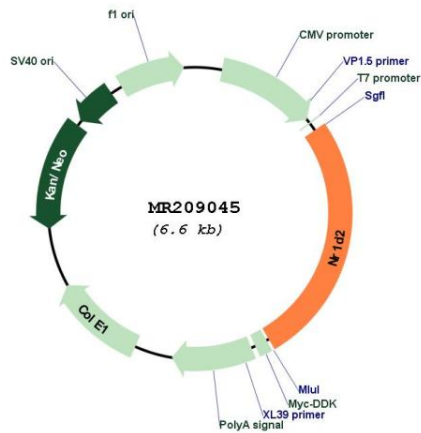
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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\\_011584.4](#)  
 RefSeq Size: 4465 bp  
 RefSeq ORF: 1731 bp  
 Locus ID: 353187  
 UniProt ID: [Q60674](#)  
 Cytogenetics: 14 A2  
 MW: 64.8 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 MR209045