

## Product datasheet for **RC227948**

### NR1D2 (NM\_001145425) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NR1D2 (NM_001145425) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NR1D2
Synonyms:	BD73; EAR-1R; REVERBB; REVERBbeta; RVR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC227948 representing NM\_001145425  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAACAAGCAAAATCGAGTGCACCTGGGATGACAAAAAGTCATAGTGGTGTGACAAAATTTAGTGCCA  
 TGTTTCTACTGTGTAAAGTCTGTGGGATGTGGCGTCAGGATCCACTATGGAGTTCATGCTTGCAGAGG  
 CTGTAAGGGTTTCTTTCGGAGAAGTATTCAACAAAACATCCAGTACAAGAAGTGCCTGAAGAATGAAAAAC  
 TGTTCTATAATGAGAATGAATAGGAACAGATGTGAGCAATGTCGCTTCAAAAAGTGTCTGTCTGTTGGAA  
 TGTCAAGAGATGCTGTTCCGGTTTGGTCGATTCCCTAAGCGTGAAAAACAGAGGATGCTAATTGAAATGCA  
 AAGTGCATGAAGACCATGATGAACAGCCAGTTCAGTGGTCACTTGCAAAAATGACACATTAGTAGAACAT  
 CATGAACAGACAGCCTTGCCAGCCAGGAACAGCTGCGACCCAAGCCCCAACTGGAGCAAGAAAAACATCA  
 AAAGCTCTTCTCCTCCATCTTCTGATTTTGCAAAGGAAGAAGTATTGGCATGGTGACCAGAGCTCACAA  
 GGATACCTTTATGTATAATCAAGAGCAGCAAGAAAACAGCTGAGAGCATGCAGCCCCAGAGAGGAGAA  
 CGGATTCCTCAAGAACATGGAGCAATATAATTTAAATCATGATCATTGCGGCAATGGGCTTAGCAGCCATT  
 TTCCCTGTAGTGAGAGCCAGCAGCATCTCAATGGACAGTTCAAAAGGGAGGAATAATGCATTACCCAAA  
 TGGTCATGCCATTTGTATTGCAATGGACATTGTATGAACTTCTCCAATGCTTATACTCAAAGAGTATGT  
 GATAGAGTTCCGATAGATGGATTTTCTCAGAATGAGAACAAGAATAGTTACCTGTGCAACACTGGAGGAA  
 GAATGCATCTGGTTTGTCCAATGAGTAAGTCTCCATATGTGGATCCTCATAAATCAGGACATGAAATCTG  
 GGAAGAATTTTCGATGAGCTTCACTCCAGCAGTGAAGAAGTGGTGAATTTGCAAAGCGTATTCTCTGGG  
 TTCAGAGATCTCTCAGCATGACCAGGTCAACCTTTTAAAGGCTGGGACTTTTGAGGTTTTAATGGTAC  
 GGTTTCGATCATTATTTGATGCAAAGGAACGACTGTACCTTTTAAAGTGGAAAGAAATATAGTGTGGA  
 TGATTTACACTCAATGGGAGCAGGGATCTGCTAAACTCTATGTTTGAATTTAGTGAGAAGCTAAATGCC  
 CTCCAACTTAGTGATGAAGAGATGAGTTTGTTCACAGCTGTTGCTCCTGGTATCTGCAGATCGATCTGGAA  
 TAGAAAACGTCAACTCTGTGGAGGCTTTGCAGGAAACTCTCATTTCGTGCACTAAGGACCTTAATAATGAA  
 AAACCATCCAAATGAGGCCTCTATTTTTACAAAACGCTTCTAAAGTTGCCAGATCTTCGATCTTTAAAC  
 AACATGCACTCTGAGGAGCTCTTGGCCTTTAAAGTTCACCCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC227948 representing NM\_001145425  
 Red=Cloning site Green=Tags(s)

MKTSKSSAPGMTKSHSGVTKFSGMVLLCKVCGDVASGFHYGVHACEGCKGFFRRSIQQNIQYKKCLKNEN  
 CSIMRMNRNRCQQCRFKKCLSVGMSRDAVRFGRIPKREKQRMLIEMQSAMKTMMSQFSGHLQNDTLVEH  
 HEQTALPAQEQLRPKQLEQENIKSSPPSSDFAKEEVIQMVTRAHKDTFMYNQEQQENSAESMQPQRGE  
 RIPKNMEQYNLNHDHCGNGLSSHFPCESESQHLNGQFKGRNIMHYPNGHAICIANGHCMNFSNAYTQRVC  
 DRVPIDGFQENENKNSYLCNTGGRMHLVCPMSKSPYVDPKSGHEIWEFFSMSFTPAVKEVVEFAKRIPG  
 FRDL SQHDQVNLKAGTFEVLMVRFASLFDKERTVTFLSGKYSVDDLHSMGAGDLLNSMFEFSEKLN  
 LQLSDEEMSLFTAAYLVSADRSGIENVNSVEALQETLIRALRTLIMKNHPNEASIFTKLLKLPDLRSLN  
 NMHSEELLAFKVHP

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

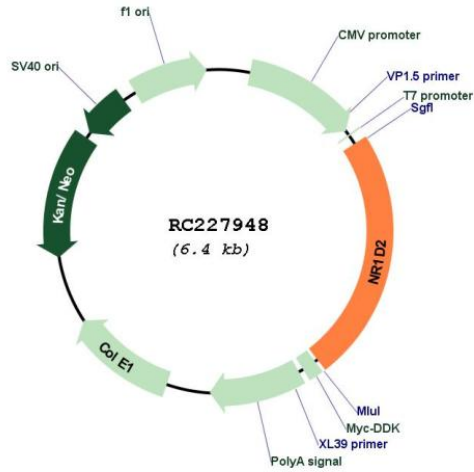
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_001145425

ORF Size: 1512 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<p><a href="#">NM_001145425.1</a>, <a href="#">NP_001138897.1</a></p>
<b>RefSeq Size:</b>	<p>5066 bp</p>
<b>RefSeq ORF:</b>	<p>1515 bp</p>
<b>Locus ID:</b>	<p>9975</p>
<b>Cytogenetics:</b>	<p>3p24.2</p>
<b>Protein Families:</b>	<p>Druggable Genome, Nuclear Hormone Receptor, Transcription Factors</p>
<b>MW:</b>	<p>57.1 kDa</p>
<b>Gene Summary:</b>	<p>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. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2009]</p>