

Product datasheet for **SC101015**

NR1D2 (NM_005126) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NR1D2 (NM_005126) Human Untagged Clone
Tag:	Tag Free
Symbol:	NR1D2
Synonyms:	BD73; EAR-1R; REVERBB; REVERBbeta; RVR
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005126, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGTGAATGCAGGAGGTGTGATTGCCTATATCAGTTCCTCCAGCTCAGCCTCAAGCCCTGCCTCTT
GTCACAGTGAGGGTTCTGAGAATAGTTCCAGTCTCCTCCTCTTCTGTCCATCTTCTCCAAATAGCTC
TAATTCTGATACCAATGGTAATCCCAAGAATGGTGATCTCGCAATATTGAAGGCATCTTGAAGAATGAT
CGAATAGATTGTTCTATGAAAACAAGCAAATCGAGTGCACCTGGGATGACAAAAAGTCATAGTGGTGTGA
CAAAATTTAGTGGCATGTTCTACTGTGTAAGTCTGTGGGGATGTGGCGTCAGGATTCCACTATGGAGT
TCATGCTTGCAGGCTGTAAGGGTTTCTTTCCGAGAAGTATTCAACAAAACATCCAGTACAAGAAGTGC
CTGAAGAATGAAAAGTCTATAATGAGAATGAATAGGAACAGATGTCAGCAATGTCGTTCAAAAAGT
GTCTGTCTGTTGGAATGTCAAGAGATGCTGTTCCGGTTTGGTCGATTCTAAGCGTGAAAAACAGAGGAT
GCTAATTGAAATGCAAAGTGAATGAAGACCATGATGAACAGCCAGTTCAGTGGTCACTTGCAAAATGAC
ACATTAGTAGAACATCATGAACAGACAGCCTTGCCAGCCAGGAACAGCTGCGACCCAAGCCCAACTGG
AGCAAGAAAACATCAAAAAGCTCTTCTCCTCCATCTTCTGATTTTGCAAAGGAAGAAGTATTGGCATGGT
GACCAGAGCTCACAAGGATACCTTTATGTATAATCAAGAGCAGCAAGAAAACCTCAGCTGAGAGCATGCAG
CCCCAGAGAGGAGAACGGATTCCCAAGAACATGGAGCAATATAATTTAAATCATGATCATTGCGGCAATG
GGCTTAGCAGCCATTTTCCCTGTAGTGAGAGCCAGCAGCATCTCAATGGACAGTTCAAAGGGAGGAATAT
AATGCATTACCCAAATGGTCATGCCATTTGATTGCAAAATGGACATTGTATGAACCTTCCAATGCCTAT
ACTCAAAGAGTATGTGATAGAGTCCGATAGATGGATTTTCTCAGAATGAGAACAAGAATAGTTACCTGT
GCAACACTGGAGGAAGAATGCATCTGGTTTGTCCAATGAGTAAGTCTCCATATGTGGATCCTCATAAATC
AGGACATGAAATCTGGGAAGAATTTTCGATGAGCTTCACTCCAGCAGTGAAGAAGTGGTGAATTTGCA
AAGCGTATTCCTGGGTTCCAGAGATCTCTCAGCATGACCAGGTCACCTTTTAAAGCTGGGACTTTTG
AGGTTTTAATGGTACGGTTCGCATCATTATTTGATGCAAAGGAACGTACTGTACCTTTTTAAGTGGAAA
GAAATATAGTGTGGATGATTTACTCAATGGGAGCAGGGGATCTGCTAAACTCTATGTTTGAATTTAGT
GAGAAGCTAAATGCCCTCCAACCTAGTGTGAAGAGATGAGTTTGTTTACAGCTGTTGCTCGTATCTG
CAGATCGATCTGGAATAGAAAACGTCAACTCTGTGGAGGCTTTGCAGGAAACTCTCATTGCTGACTAAG
GACCTTAATAATGAAAACCATCCAATGAGGCCTCTATTTTACAAAACCTGCTTCTAAAGTTGCCAGAT
CTTCGATCTTTAAACAACATGCACTCTGAGGAGCTTTGGCCTTAAAGTTCACCCTTAA
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005126 unedited

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GGCGTTACATTTGTATACGACTCACTATAGGCGCCGCGAATTCGCACGAGCGCGAGGG
CACCATGGNAGTGAATGCAGGAGGTGTGATTGCCTATATCAGTTCCTCCAGCTCAGCCTC
AAGCCCTGCCTCTTGTACAGTGAGGGTCTGAGAATAGTTTCCAGTCTCCTCCTCTTC
TGTTCCATCTTCTCCAAATAGCTCTAATTCTGATACCAATGGTAATCCCAAGAATGGTGA
TCTCGCCAATATTGAAGGCATCTTGAAGAATGATCGAATAGATTGTTCTATGAAAACAAG
CAAATCGAGTGCACCTGGGATGACAAAAAGTCATAGTGGTGTGACAAAATTTAGTGGCAT
GGTTCTACTGTGTAAGTCTGTGGGGATGTGGCGTCAGGATTCCACTATGGAGTTCATGC
TTGCGAAGGCTGTAAGGGTTTCTTTCCGAGAAGTATTCAACAAAACATCCAGTACAAGAA
GTGCTGAAAGAATGAAAAGTCTATAATGAGAATGAATAGGAACAGATGTCAGCAATG
TCGCTTCAAAAAGTGTCTGTCTGTTGGAATGTCAAGAGATGCTGTTCCGGTTTGGTCGAT
TCCTAAGCGTGAAAAACAGAGGATGCTAATTGAAATGCAAAGTGAATGAAGACCATGAT
GAACAGCCAGTTCAGTGGTCACTTGCAAAATGACACATTAGTAGAACATCATGAACAGAC
AGCCTTGGCAGCCAGGAACAGCTGCGACCCAAGCCCAACTGGAGCAAGAAACATCAAA
AGCTCTTCTCCTCCATCTTCTGATTTTGCAAAGGAAGAATGATTGGCATGGTGACCAGA
GCTCACAGGATACCTTTATGTATAATCAAGAGACAGCAAAAACCTCAGCTGAGNACATGC
AGCCCCAGAGAGGAAC
    
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3' Read Nucleotide Sequence: >OriGene 3' read for NM_005126 unedited
 CGGAGTATGCACTGGGGAGGGGTACAGGGATGCCACCCGGGATCTGTTTCAGGAAACAGC
 TATGACTGCGGCCGAATCTAGAGTCGAGTTTTTTTTTTGGGGTTTTTTTTTTTTTTGGTT
 AGAAATATTTATTATCCCCTCCCCCACATACAGATTACTTCTCAGAAACATGAAGATAT
 TATCCATGTCCTCATCAATTACAGTTTGTAGAAAATAAATTAATCATATCCCATCAAC
 AATGTATTTCTATCATTTTTTTAAACAATAGCCATTTTCATTTTTCCATGTTAGTTCCAGA
 ATAGCTTCAAGTTTTATCTTTTGGATCGAATCCAGTCAATCTTTGTTTATAGGTAACAGT
 TTCTAACAGATCCCCTCCCCAACCCCTAAAAAATTCTATATCCTAAGTGATAAACTC
 TTCTTGTACATTAGCAAACTTTATATTGAAAAAGAAAAAGAATAATTGAGATAGGTATT
 TACTTTTCGTGCACAGTAATAAATCTAGCTGAGCTGCTACACCTTGCTTTGCAAAGATGTT
 TACATAAAATAAATCATCTTTTCAAGTTACAATGGTAATTTCTTGAAATGTAGATATG
 AAAGCTATACACTTAATCCACTGGAATTTCTTTTAAATTTTTTAACTGTAAATTAACC
 CATCACCATAAGGACCAAGCTTCTCCCAAGATGTTCCCCCTTTCCCTCAGCTATT
 TTCTATCAACTTGAATCCTTTCTCAGATCATGTAAGAGATCCATTAAGCCACAGGA
 AAAAAAATGTTTAAACCTTGCTTGG

Restriction Sites: NotI-NotI

ACCN: NM_005126

Insert Size: 4700 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 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](#)

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_005126.2](#), [NP_005117.2](#)

RefSeq Size: 4349 bp

RefSeq ORF: 1740 bp

Locus ID:	9975
UniProt ID:	Q14995
Cytogenetics:	3p24.2
Domains:	HOLI, zf-C4
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Gene Summary:	<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> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>