

## Product datasheet for **SC127002**

### **NR1D1 (NM\_021724) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NR1D1 (NM_021724) Human Untagged Clone
Tag:	Tag Free
Symbol:	NR1D1
Synonyms:	ear-1; EAR1; hRev; REVERBA; REVERBalpha; THRA1; THRAL
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC127002 sequence for NM\_021724 edited (data generated by NextGen Sequencing)

```

ATGACGACCTGGACTCCAACAACAACACAGGTGGCGTCATCACCTACATTGGCTCCAGT
GGCTCCTCCCCAAGCCGACCCAGCCCTGAATCCCTCTATAGTGACAACTCCAATGGCAGC
TTCCAGTCCCTGACCCAAGGCTGTCCCACCTACTCCCACCATCCCCACTGGCTCCCTC
ACCCAAGACCCGGCTCGCTCCTTTGGGAGCATTCCACCCAGCCTGAGTGATGACGGCTCC
CCTTCTTCTCATCTTCCCTCGTCGTATCCTCCTCCTTCTATAATGGGAGCCCCCTC
GGGAGTCTACAAGTGGCCATGGAGGACAGCAGCCGAGTGTCGCCCAAGAGCACCAGC
AACATCACCAAGCTGAATGGCATGGTGTACTGTGTAAGTGTGTGGGACGTTGCCTCG
GGCTTCCACTACGGTGTGCACGCCTGCGAGGGCTGCAAGGGCTTTTTCCGTGCGAGCATC
CAGCAGAACATCCAGTACAAAAGGTGTCTGAAGAATGAGAATTGCTCCATCGTCCGCATC
AATCGCAACCGCTGCCAGCAATGTCGCTTCAAGAAGTGTCTCTGTGGGCATGTCTCGA
GACGCTGTGCGTTTTGGGCGCATCCCCAACGAGAGAAGCAGCGGATGCTTGCTGAGATG
CAGAGTGCATGAACCTGGCCAACAACAGTTGAGCAGCCAGTGCCCGCTGGAGACTTCA
CCCACCCAGCACCCACCCAGGCCCATGGGCCCTCGCCACCCCTGCTCCGGTCCCC
TACCCCTGGTGGGCTTCTCCCAGTTTCCACAACAGCTGACGCCTCCAGATCCCCAAGC
CCTGAGCCACAGTGGAGGATGTGATATCCCAGGTGGCCCGGGCCATCGAGAGATCTTC
ACCTACGCCCATGACAAGCTGGGCAGCTCACCTGGCAACTTCAATGCCAACCATGCATCA
GGTAGCCCTCCAGCCACCACCCACATCGCTGGGAAATCAGGGCTGCCACCTGCCCCC
AATGACAACAACACCTTGGCTGCCAGCGTCATAACGAGGCCCTAAATGGTCTGCGCCAG
GCTCCCTCCTCTACCCTCCCACCTGGCCTCCTGGCCCTGCACACCACAGCTGCCACCAG
TCCAACAGCAACGGGCACCGTCTATGCCCAACCCACGTGTATGCAGCCCCAGAAGGCAAG
GCACCTGCCAACAGTCCCCGGCAGGGCAACTCAAAGAATGTTCTGCTGGCATGTCTATG
AACATGTACCCCGATGGACGCAAGTGGGCGAACGGTGCAGGAGATCTGGGAGGATTTCTCC
ATGAGCTTACGCCCGCTGTGCGGGAGGTGGTAGAGTTTGCCAAACACATCCCGGCTTC
CGTGACCTTTCTCAGCATGACCAAGTCACCCTGCTTAAGGCTGGCACCTTTGAGGTGCTG
ATGGTGCCTTTGCTTGTGTTCAACGTGAAGGACCAGACAGTGTGTTCTTAAGCCGC
ACCACCTACAGCCTGCAGGAGCTTGGTGCCATGGGCATGGGAGACCTGCTCAGTGCCATG
TTCGACTTCAGCGAGAAGCTCAACTCCCTGGCGTTACCGAGGAGGAGCTGGGCCTCTTC
ACCGCGGTGGTGTCTGCTGTCAGACCCTCGGGCATGGAGAATCCGCTTCGGTGGAG
CAGCTCCAGGAGACGCTGCTGCGGGCTCTTCGGGCTCTGGTGTGAAGAACCGGCCCTTG
GAGACTTCCCGCTTACCAAGCTGCTGCTCAAGCTGCCGGACCTGCGGACCTGAACAAC
ATGCATTCGAGAAGCTGCTGTCTTCCGGGTGGACGCCAGTGA

```

Clone variation with respect to NM\_021724.3

**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_021724 unedited
TTTTGAATCCGACTTTCTATAGGGCGGCCGGAATTCGGGCACGAGGGAGGCGCTCCCTG
GGATCACATGGTACCTGCTCCAGTGCCGCGTGCCGCCCGGAACCTGGGCTGCTGGCGC
CTGCGCAGAGCCCTCTGTCCCAGGAAAGGCTCGGGCAAAGGCGGCTGAGATTGGCAGA
GTGAAATATTACTGCCGAGGGAACGTAGCAGGGCACACGTCTCGCCTCTTTGCGACTCGG
TGCCCCGTTTCTCCCCATCACCTACTTACTTCTGGTTGCAACCTCTCTCTCTGGGAC
TTTTGCACCGGGAGCTCCAGATTGCTACCCCGCAGCGCTGCGGAGCCGGCAGGCAGAGG
CACCCCGTACACTGCAGAGACCCGACCCCTCCTTGCTACCTTCTAGCCAGAACTACTGCAG
GCTGATCCCCCTACACACTCTCTGCTCTTCCCATGCAAAGCAGAAGTCCGTTGCCTC
AACGTCCAACCCCTTGCAGGGCTGCAGTCCGGCCACCCCAAGACCTTGTGCAGGGTGC
TTCGGATCCTGATCGTGAGTCCGCGGGTCCACTCCCCGCCCTTAGCCAGTCCCAGGGGG
CAACAGCGGGCATCGCAACCTCTAGTTTGTGAGTCAAGGTCCAGTTTGAATGACCGCTCTCA
GCTGGTGAAGACATGACGACCTGGACTCCAACAACAACAGGTGGCGTCATCACCTAC
ATTGGCTCCAGTGGCTCCTCCCCAGCCGACCAGCCCTGAATCCCTCTATAGTGACAACT
CCAATGGCAGCTTCCAGTCCCTGACCCAGGCTGTCCCACTACTTCCACCATCCCCACTGG
CTCCTCACCCAGACCCGCTCGTCTTGGGGACATCCCCACCTGATGAGACGCTCCCTCT
T
```

**3' Read Nucleotide Sequence:**

```
>OriGene 3' read for NM_021724 unedited
CCCCGCTATTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCAGCTGTGAATATTGGATT
GAGACAGGAACAGAACACCTCAGAGGGCCAGGGGAGGGTGTGGGGGAGACATATTGGTT
TAAATAGGGGAGGAGGGGAAGTTCGGTGTGGGGGAGGCAGGCTCCCCCCCCCTCCCC
CTCCTTCTTTTTCCCCCTCTCCCCCCCCCTTTTCTCCTTTCCCTCTTATCTTCTC
CTCCCTCCTCCTCCCTCCTCTCCTCCCCCTCCCCCCCCCCCCCTCTCCTCCTCCCCCT
CTTCTTTCTCCTCTTTCCCCCTTTTCTCCCCCTCTCCTCCTCCCCCCCCCCCCGT
TTTTTCTTTTTCTTTTCTTTTTTTTTTCTTCTCTTTCTCCTCCCTCCCTTCTCCCCCT
CCTCCTTCTTTCCCTCCTCCCCCTCCCCCCCCCTTTCTTTCCCTCTTCTTTCCCCCTC
TCCCCACTCTCCCCCTCCCCCTCTTTCCCTCCCTTACCTCCCTCCTCCCCCTCCT
CTCCCCCTCCTCCTTTCCCCCTTCTCCCCCTCTCCTCCCCCTCCTCCTCCTCCTCCTCCT
CCCCCCCCCCCCCTTCTCCTCTCCTCCTCCCCCCCCCCCCCTTCCCTTTTTTTCCCCCTC
TCTCCTCCTCTTTTTTTCTCCCCCTCTCCTTCTCCTACTCCTTTTTTCTTTCTTT
TCCCCCTCCTCCTCCCCCTCTCCTCCTTTCTTCCCTCCCCCCCCCTCCCTCCTTTCTCCT
CTCTCCTCCTCCCCCTCCTCCTCCTCCTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT
TTGTCCATCCTTCCATCACTTTTCCCTGACTTCTTTCTTCTCATTCTCCTCCTCCTCCT
CTTCTTCTACCCCCACTCCTCTCGTTTTCCGTTTTCTCCTCCTTCTCCTCCTCCTCCTCCT
CCCCCTCCTCCCCCTTCTTTTCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCTCCT
CTACTCTCGTCTTCTCCTCCTTTTTTCTCCTCCTTTATT
```

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_021724

**Insert Size:**

2770 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](#)

**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\\_021724.1](#), [NP\\_068370.1](#)

**RefSeq Size:** 2768 bp

**RefSeq ORF:** 1845 bp

**Locus ID:** 9572

**UniProt ID:** [P20393](#)

**Cytogenetics:** 17q21.1

**Domains:** HOLI, zf-C4

**Protein Families:** Druggable Genome, Nuclear Hormone Receptor, Transcription Factors

**Protein Pathways:** Circadian rhythm - mammal

**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, Jan 2013]