

Product datasheet for **RG206338**

NR1D2 (NM_005126) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NR1D2 (NM_005126) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NR1D2
Synonyms:	BD73; EAR-1R; REVERBB; REVERBBeta; RVR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206338 representing NM_005126
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGGAGGTGAATGCAGGAGGTGTGATTGCCTATATCAGTTCTTCCAGCTCAGCCTCAAGCCATGCCTCTT
 GTCACAGTGAGGGTTCTGAGAATAGTTTCCAGTCCTCCTCTTCTGTTCCATCTTCTCCAAATAGCTC
 TAATTCTGATACCAATGGTAATCCCAAGATGGTGATCTCGCCAATATTGAAGGCATCTTGAAGAATGAT
 CGAATAGATTGTTCTATGAAAACAAGCAATCGAGTGCACCTGGGATGACAAAAAGTCATAGTGGTGTGA
 CAAATTTAGTGGCATGGTTCTACTGTGTAAGTCTGTGGGGATGTGGCGTCAGGATTCCACTATGGAGT
 TCATGCTTGCGAAGGCTGAAGGGTTTCTTTCGGAGAAGTATTCAACAAAACATCCAGTACAAGAAGTGC
 CTGAAGAATGAAACTGTTCTATAATGAGAATGAATAGGAACAGATGTCAGCAATGTCGTTCAAAAAGT
 GTCTGTCTGTTGGAATGTCAAGAGATGCTGTTTCGGTTTGGTCGATTCTAAGCGTGAAAAACAGAGGAT
 GCTAATTGAAATGCAAGTGAATGAAGACCATGATGAACAGCCAGTTTCAGTGGTCACTTGCAAAATGAC
 ACATTAGTAGAACATCATGAACAGACAGCCTTGCCAGCCAGGAACAGCTGCGACCCAAGCCCCAACTGG
 AGCAAGAAAACATCAAAAGCTCTTCTCCTCCATCTTCTGATTTTGCAAGGAAGAAGTGATTGGCATGGT
 GACCAGAGCTCACAAGGATACCTTTATGTATAATCAAGAGCAGCAAGAAAACCTCAGCTGAGAGCATGCAG
 CCCAAGAGAGGAGAACGGATTCGCAAGAACATGGAGCAATATAATTTAAATCATGATCATTGCGGCAATG
 GGCTTAGCAGCCATTTTCCCTGTAGTGAGAGCCAGCAGCATCTCAATGGACAGTTCAAAGGGAGGAATAT
 AATGCATTACCAAAATGGTCATGCCATTTGTATTGCAATGGACATTGTATGAACCTCTCCAATGCTTAT
 ACTCAAAGAGTATGTGATAGAGTTCCGATAGATGGATTTTCTCAGAATGAGAACAAGAATAGTTACCTGT
 GCAACACTGGAGGAAGAATGCATCTGGTTTGTCCAATGAGTAAGTCTCCATATGTGGATCCTCATAATC
 AGGACATGAAATCTGGGAAGAATTTTCGATGAGCTTCACTCCAGCAGTGAAAGAAGTGTTGGAATTTGCA
 AAGCGTATTCTGGGTTGAGAGATCTCTCTCAGCATGACCAGGTCAACCTTTTAAAGGCTGGGACTTTTG
 AGGTTTTAATGGTACGGTTCGCATCATTATTTGATGCAAAGGAACGTAAGTGTACCTTTTAAAGTGAA
 GAAATATAGTGTGGATGATTTACACTCAATGGGAGCAGGGGATCTGCTAACTCTATGTTGAATTTAGT
 GAGAAGCTAAATGCCCTCAACTTAGTGATGAAGAGATGAGTTTGTGTTACAGCTGTTGCTCGGTATCTG
 CAGATCGATCTGGAATAGAAAACGTCACCTCTGTGGAGGCTTTCAGGAACTCTCATTCTGCTGCTAAG
 GACCTTAATAATGAAAAACCATCAAAATGAGGCCTCTATTTTACAAAACCTGCTTCTAAAGTTGCCAGAT
 CTTGATCTTTAAACAACATGCACTCTGAGGAGCTCTTGCCCTTTAAAGTTCACCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206338 representing NM_005126
 Red=Cloning site Green=Tags(s)

MEVNAGGVIAYISSSSASSHASCHSEGSNSFQSSSSVSPSPNSSSDTNGNPKNGDLANIEGILKND
 RIDCSMKTSKSSAPGMTKSHSGVTKFSGMVLLCKVCGDVASGFHYGVHACEGCKGFFRRSIQNNIQYKCC
 LKNENCSIMRMNRNRCQQCRFKCLSVGMSRDAVRFGRIPKREKQRMLEIEMQSAMKTMMSQFSGHLQND
 TLVEHHEQTALPAQEQLRPKPQLEQENIKSSSPSSDFAKEEVIGMVTRAHKDTFMYNQEQQENSAESMQ
 PKRGERIRKNMEQYNLNHDHCGNGLSSHFPCESSQHLNGQFKGRNIMHYPNGHAICIANGHCMNFSNAY
 TQRVCDRVPIDGFSQENKNSYLCNTGGRMHLVCPMSKSPYVDPHKSHEIWEESMSFTPAVKEVVEFA
 KRIPGFRDLSQHDQVNLKAGTFEVLMVRFASLFDKERTVTFLSGKKYSVDDLHSMGAGDLLNSMFEFS
 EKLNALQLSDEEMSLFTAVVLVSADRSIENVNSVEALQETLIRALRTLIMKNHPNEASIFTKLLKLPLD
 LRSLNNMHSEELLAFKVHP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_005126

ORF Size: 1737 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

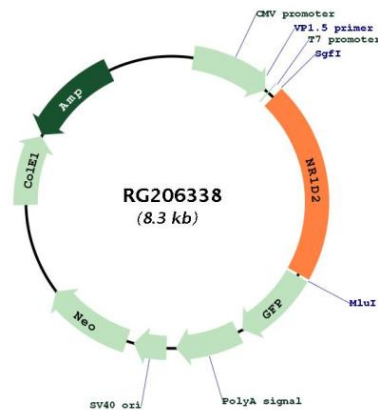
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_005126.3</u>
RefSeq Size:	4349 bp
RefSeq ORF:	1740 bp
Locus ID:	9975
UniProt ID:	<u>Q14995</u>
Cytogenetics:	3p24.2
Domains:	HOLI, zf-C4
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
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. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2009]

Product images:



Circular map for RG206338