

Product datasheet for **RG227948**

NR1D2 (NM_001145425) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NR1D2 (NM_001145425) 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:

>RG227948 representing NM_001145425
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAACAAGCAAAATCGAGTGCACCTGGGATGACAAAAAGTCATAGTGGTGTGACAAAATTTAGTGCCA
 TGTTTCTACTGTGTAAAGTCTGTGGGGATGTGGCGTCAGGATTCCACTATGGAGTTCATGCTTGCAGGAG
 CTGTAAGGGTTTCTTTCGGAGAAGTATTCAACAAAACATCCAGTACAAGAAGTGCCTGAAGAATGAAAAAC
 TGTTCTATAATGAGAATGAATAGGAACAGATGTGAGCAATGTCGCTTCAAAAAGTGTCTGTCTGTTGGAA
 TGTCAAGAGATGCTGTTGCGTTTGGTCGATTCTAAGCGTGAAAAACAGAGGATGCTAATTGAAATGCA
 AAGTGCATGAAGACCATGATGAACAGCCAGTTCAGTGGTCACTTGCAAAAATGACACATTAGTAGAACAT
 CATGAACAGACAGCCTTGCCAGCCAGGAACAGCTGCGACCCAAGCCCCAACTGGAGCAAGAAAAACATCA
 AAAGCTCTTCTCCTCCATCTTCTGATTTTGCAAGGAAGAAGTATTGGCATGGTGACCAGAGCTCACAA
 GGATACCTTTATGTATAATCAAGAGCAGCAAGAAAACCTAGCTGAGAGCATGCAGCCCAAGAGAGGAGAA
 CGGATTCGCAAGAACATGGAGCAATATAATTTAAATCATGATCATTGCGGCAATGGGCTTAGCAGCCATT
 TTCCCTGTAGTGAGAGCCAGCAGCATCTCAATGGACAGTTCAAAAGGGAGGAATATAATGCATTACCCAAA
 TGGTCATGCCATTTGTATTGCAATGGACATTGTATGAACTTCTCCAATGCTTATACTCAAAGAGTATGT
 GATAGAGTTCCGATAGATGGATTTTCTCAGAATGAGAACAAGAATAGTTACCTGTGCAACACTGGAGGAA
 GAATGCATCTGGTTTGTCCAATGAGTAAGTCTCCATATGTGGATCCTCATAAATCAGGACATGAAATCTG
 GGAAGAATTTTCGATGAGCTTCACTCCAGCAGTGAAGAAGTGGTGAATTTGCAAGCGTATTCTCTGGG
 TTCAGAGATCTCTCAGCATGACCAGGTCAACCTTTAAAGGCTGGGACTTTTGAGGTTTTAATGGTAC
 GGTTTCGATCATTATTTGATGCAAGGAACGACTGTACCTTTTAAAGTGGAAAGAAATATAGTGTGGA
 TGATTTACACTCAATGGGAGCAGGGATCTGCTAAACTCTATGTTTGAATTTAGTGAGAAGCTAAATGCC
 CTCCAACTTAGTGATGAAGAGATGAGTTTGTTCAGCTGTTGCTCCTGGTATCTGCAGATCGATCTGGAA
 TAGAAAACGTCAACTCTGTGGAGGCTTTGCAGGAACTCTCATTCTGACTAAGGACCTTAATAATGAA
 AAACCATCCAAATGAGGCCTCTATTTTTACAAAACCTGCTCTAAAGTTGCCAGATCTTCGATCTTTAAAC
 AACATGCACTCTGAGGAGCTCTTGGCCTTTAAAGTTCACCCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227948 representing NM_001145425
 Red=Cloning site Green=Tags(s)

MKTSKSSAPGMTKSHSGVTKFSGMVLLCKVCGDVASGFHYGVHACEGCKGFFRRSIQQNIQYKKCLKNEN
 CSIMRMNRNRCQQCRFKKCLSVGMSRDVRFGRIPKREKQRMLIEMQSAMKTMMSQFSGHLQNDTLVEH
 HEQTALPAQEQLRPKPQLEQENIKSSSPPSSDFAKEEVIQGMVTRAHKDTFMYNQEQQENSAESMQPKRGE
 RIRKNMEQYNLNHDHCGNGLSSHFPCESESQQHLNGQFKGRNIMHYPNGHAICIANGHCMNFSNAYTQKRV
 DRVPIDGFSQENENKNSYLCNTGGRMHLVCPMSKSPYVDPHKSHEIWEFSPVAVKEVVEFAKRIPG
 FRDLSQHDQVNLKAGTFEVLVRFASLFDKERTVTFLSGKKYSVDDLHSMGAGDLLNSMFEFSEKLN
 LQLSDEEMSLFTAVLVSADRSIENVNSVEALQETLIRALRTLIMKNHPNEASIFTKLLKLPDLRSLN
 NMHSEELLAFKVHP

TRTRPLE – GFP Tag – V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2344_a06.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001145425

ORF Size: 1512 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.

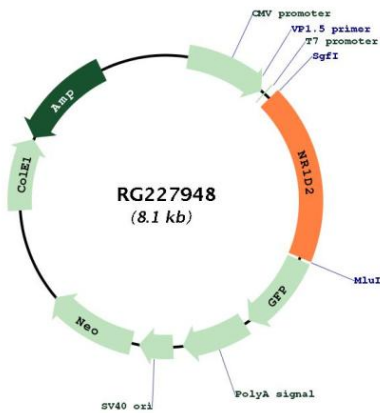
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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: NM_001145425.1, NP_001138897.1
RefSeq Size: 5066 bp
RefSeq ORF: 1515 bp
Locus ID: 9975
Cytogenetics: 3p24.2
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 RG227948