

Product datasheet for **RN200153**

Nr1d1 (NM_145775) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr1d1 (NM_145775) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nr1d1
Synonyms:	REV-ERBAALPHA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN200153 representing NM_145775
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGACAGCAGCCGAGTGTCCCCAGCAAGGGCACCAGCAACATTACCAAGCTTAACGGCATGGTGC
TACTGTGTAAAGTGTGTGGGACGTGGCCTCAGGCTTCCACTATGGCGTGATGCCTGCGAGGGCTGCAA
GGGCTTTTTCCGCGGAGCATCCAGCAGAACATCCAGTACAAGCGGTGTTTAAAAACGAGAAGTCTCC
ATTGTCCGTATCAATCGCAACCGCTGCCAGCAGTGTCCGTTCAAGAAGTGTCTCTCCGTTGGCATGTCTA
GAGACGCTGTGCGTTTTGGACGTATCCCCAAGAGAGAGAAGCAACGAATGCTTGAGATGCAGAACGC
CATGAAGTTGGCCAACAACCACTGAGCAGCCTGTGCCCTCTAGAGACCTCACCTGCCCCGACCCCCACC
TCAGGCTCCGTGGGCCCTCACCACCTCTGCACCAGCCCCGACACCTTTGGTGGCTTCTCTCAGTTCC
CACAACAGCTGACACCACCCAGATCCCCGAGTCTGAGCCACCCTGGAGGATGTGATATCCAGGTGGC
CAGGGCCCATCGAGAAATCTTACCTATGCCCATGACAAATTAGGCACCTCACCTGGCAACTTCAATGCC
AATCATGCATCAGGTAGCCCTCCGGTACCACTCCACAGTGTGGGAGAGTCAGGGATGCCCGTCTACCC
CCAACGACAACAACCTTTTGGCGGCTCAGCGTCATAATGAAGCACTGAATGGTCTACGCCAGGGCCCTC
CTCCTACCTCCTACCTGGCCTTCTGGCCTGCCACCACAGCTGCCACCAGCCTAACAGCAATGGGCAT
CGCCTGTGCCCAACCCACGTATACTCGGCCCAAGGCAAGGCACCTGCCAACGGTCTACGGCAAGGCA
ACACCAAGAATGTTCTGTGGCATGTCCCATGAACATGTATCCCATGGACGTAGTGGCCGGACTGTGCA
GGAGATCTGGGAAGACTTCTCTATGAGCTTACACCCGCTGTGCGGGAGGTGGAAGATTTGCCAAACAC
ATCCCCGGCTCCGTGACCTTTCTCAGCAGCACCAGGTGACCTGCTTAAGGCTGGCACCTTTGAGGTGC
TGATGGTGGCTTTGCGTATTGTTCAACGTGAAGGACCAGACAGTCATGTTCTGAGCCGACACACCTA
CAGCCTGCAGGAGCTCGGTGCCATGGGCATGGGTGACCTGCTCAATGCCATGTTTGACTTCAGCGAGAAG
CTCAACTCTGCGCCTACTGAGGAGGAGCTGGGCCTTTTACGGCAGTGGTACTTGTCTCTGCAGACC
GCTCGGAATGGAGAATCCGCTTCGGTGGAGCAGCTCCAGGAGACGCTGCTGCGGGCTCTTCGGCTCT
GGTGTGAAGAACCGCCCTCGGAGACTTCCGCTTACCAAACCTGCTGCTCAAGCTGCCGGACCTGCGG
ACCCTGAACAACATGCATTCCGAGAAGCTGCTGCTTCCGGGTGGACGCCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_145775

Insert Size: 1527 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_145775.2](#), [NP_665718.2](#)

RefSeq Size: 2314 bp

RefSeq ORF: 1527 bp

Locus ID: 252917

UniProt ID: [Q63503](#)

Cytogenetics: 10q31

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, Feb 2014]
Transcript Variant: This variant (2) has an alternate 5' exon and uses a downstream AUG start codon, as compared to variant 1. The resulting isoform (2) is shorter at the N-terminus, as compared to isoform 1.