

Product datasheet for **RR200153**

Nr1d1 (NM_145775) Rat Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RR200153 representing NM_145775
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGACAGCAGCCGAGTGTCCCCAGCAAGGGCACCAGCAACATTACCAAGCTTAACGGCATGGTGC
 TACTGTGTAAAGTGTGTGGGACGTGGCCTCAGGCTTCCACTATGGCGTGATGCCTGCGAGGGCTGCAA
 GGGCTTTTTCCGCCGGAGCATCCAGCAGAACATCCAGTACAAGCGGTGTTTGAAAAACGAGAACTGCTCC
 ATTGTCCGTATCAATCGCAACCGCTGCCAGCAGTGTGCTTCAAGAAGTGTCTCTCCGTTGGCATGTCTA
 GAGACGCTGTGCGTTTTGGACGTATCCCCAAGAGAGAGAAGCAACGAATGCTTGCTGAGATGCAGAACGC
 CATGAACTTGCCAACAACCACTGAGCAGCCTGTGCCCTCTAGAGACCTCACCTGCCCCGACCCCACC
 TCAGGCTCCGTGGGCCCTCACACCTCTGCACCAGCCCCGACACCTTTGGTGGCTTCTCTCAGTTCC
 CACAACAGCTGACACCACCCAGATCCCCGAGTCTGAGCCACCCTGGAGGATGTGATATCCAGGTGGC
 CAGGGCCCATCGAGAAATCTTCACCTATGCCCATGACAAATTAGGCACCTCACCTGGCAACTTCAATGCC
 AATCATGCATCAGGTAGCCCTCCGGTACCACTCCACAGTGTGGGAGAGTCAGGGATGCCCGTCTACCC
 CCAACGACAACAACCTTTTGGCGGCTCAGCGTCATAATGAAGCACTGAATGGTCTACGCCAGGGCCCTC
 CTCTACCTCTACCTGGCCTTCTGGCCCTGCCACCACAGTCCACCAGCCTAACAGCAATGGGCAT
 CGCCTGTGCCCAACCCAGTATACTCGGCCCCAGAAGGCAAGGCACCTGCCAACGGTCTACGGCAAGGCA
 ACACCAAGAATGTTCTGCTGGCATGTCCCATGAACATGTATCCCCATGGACGTAGTGGCCGGACTGTGCA
 GGAGATCTGGGAAGACTTCTCTATGAGCTTACACCCGCTGTGCGGGAGGTGGAAGATTTGCCAAACAC
 ATCCCCGGCTCCGTGACCTTTCTCAGCAGCACCAGGTGACCTGCTTAAGGCTGGCACCTTTGAGGTGC
 TGATGTGCGCTTTGCGTATTGTTCAACGTGAAGGACCAGACAGTCATGTTCTGAGCCGCACAACCTA
 CAGCCTGCAGGAGCTCGGTGCCATGGGCATGGGTGACCTGCTCAATGCCATGTTTGACTTCAGCGAGAAG
 CTCAACTCTGCGCCTACTGAGGAGGAGCTGGGCCTTTTACGGCAGTGGTACTTGTCTCTGCAGACC
 GCTCGGAATGGAGAATCCGCTTCCGTGGAGCAGCTCCAGGAGACGCTGCTGCGGGCTCTTCGGCTCT
 GGTGCTGAAGAACCGCCCTCGGAGACTTCCCGCTTACCAAACCTGCTGCTCAAGCTGCCGGACCTGCGG
 ACCCTGAACAACATGCATTCCGAGAAGCTGCTGCTCTCCGGGTGGACGCCAG

**ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA**

Protein Sequence:

>RR200153 representing NM_145775
 Red=Cloning site Green=Tags(s)

MEDSSRVSPSKGTSNITKLNMGVLLCKVCGDVASGFHYGVHACEGCKGFFRRSIQQNIQYKRCLKNENCS
 IVRINRRCQQCRFKKCLSVGMSRDAVRFGRIPKREKQRLAEMQAMNLANQLSSLCPLETSPAPHPT
 SGSVGPSPPPAPAPTPLVGFSSQFPQQLTPRSPSPEPTVEDVISQVARAHREIFTYAHDKLTSPGNFNA
 NHASGSPATTPQCWESQGCPSTPNDNLLAAQRHNEALNGLRQGPSSYPPTWPSGPAHHSCHQPNSNGH
 RLCPTHVYSAPEGKAPANGLRQNTKNVLLACPMNMYPHGRSGRTVQEIWEDFSMSFTPAREVVEFAKH
 IPGFRDLSQHDQVTLKAGTFEVLMVRFASL FNVKDQTMFLSRTTYSLQELGAMMGDLLNAMFDFSEK
 LNSLALTEEELGLFTAVVLVSADRSKMENSASVEQLQETLLRALRALVLKNRPSETSRFTKLLLKLPDLR
 TLNNMHSEKLLSFRVDAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

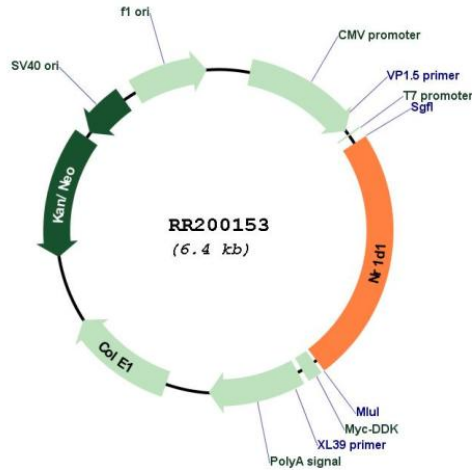
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:


ACCN: NM_145775

ORF Size: 1524 bp

OTI Disclaimer: 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_145775.2](#), [NP_665718.2](#)

RefSeq Size: 2314 bp

RefSeq ORF: 1527 bp

Locus ID: 252917

UniProt ID: [Q63503](#)

Cytogenetics: 10q31

MW: 56 kDa

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]