

Product datasheet for **RR200152**

Nr1d1 (NM_001113422) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nr1d1 (NM_001113422) 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:

>RR200152 representing NM_001113422
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACGACCCCTAGACTCCAACAACAACACAGGTGGTGTATCACCTACATTGGCTCCAGCGGATCCTCCC
 CCAGCCGACCAGCCAGAGTCCCTCTATAGTGACAGCTCCAATGGCAGCTTCCAGTCCCTGACTCAAGG
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 GTGCCACCCAGCCTCAGTGATGATAGTCCCCTTCTTCTGCTTATCATCATCATCTTCTCTCTCT
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Protein Sequence:

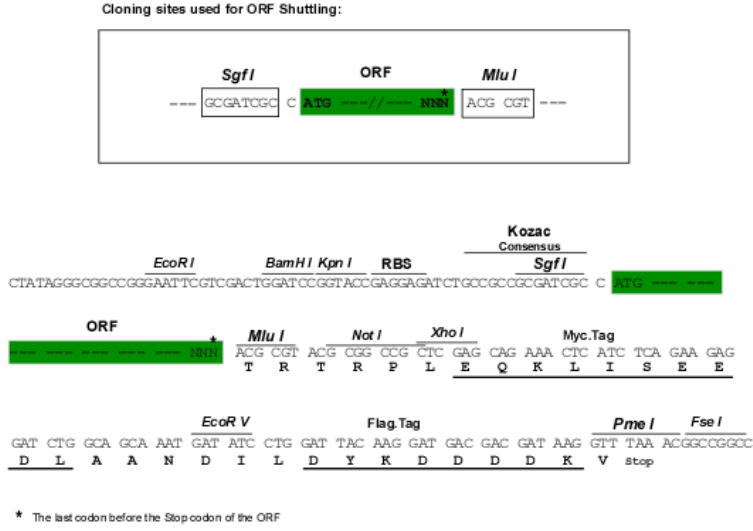
>RR200152 representing NM_001113422
 Red=Cloning site Green=Tags(s)

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 MNMYPHGRSGRTVQEIWEDFSMSFPAVREVVEFAKHIPGFRDLQHDQVTLKAGTFEVLVRFASLFN
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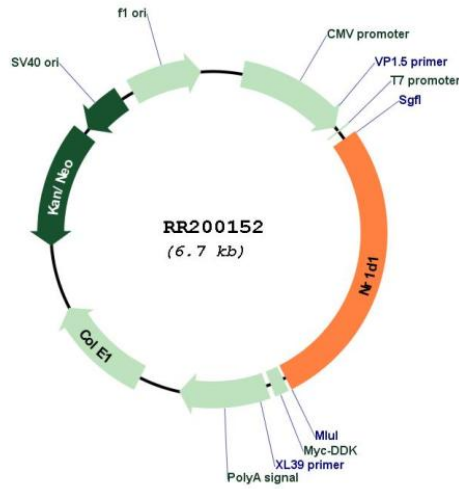
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001113422

ORF Size: 1845 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:	<ol style="list-style-type: none">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_001113422.1 , NP_001106893.1
RefSeq Size:	2344 bp
RefSeq ORF:	1848 bp
Locus ID:	252917
UniProt ID:	Q63503
Cytogenetics:	10q31
MW:	66.7 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]