

## Product datasheet for MR206022

### Rorb (BC024842) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rorb (BC024842) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rorb
Synonyms:	MGC38728, Nr1f2, RZR-beta, RZRB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206022 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCAAGAGATGCTGTAAGTTCGGGAGGATGTCCAAGAAGCAGCGGGACAGCCTGTATGCTGAGGTGC  
AGAAGCATCAGCAAAGGCTGCAGGAGCAGCGGCAGCAGAGTGGGAGGCGGAGGCCCTCGCCAGGGT  
GTACAGCAGCAGCATTAGCAATGGCCTCAGCAACCTGAACACCGAGACCGCGGCACATACGCCAACGGG  
CACGTATTGACCTGCCAAGTCCGAAGTTATTACAGCATAGATTCCGGTCAGCCGTCTCCCGATCAGT  
CAGGACTGGACATGACTGGGATCAAACAGATAAAGCAAGAACCTATCTATGACCTCACATCTGTACCCAA  
CTTGTTTACCTATAGCTCTTTCAACAACGGGCAGTTAGCTCCCGGATAACAATGTCTGAGATCGATCGA  
ATTGCACAGAACATCATTAAAGTCCCATTTGGAGACATGTCAGTACACCATGGAAGAACTCCATCAGCTGG  
CATGGCAGACCCACACCTACGAGGAAATCAAGGCGTATCAAAGCAAGTCCAGGGAGGCTCTGTGGCAGCA  
GTGTGCCATCCAGATCACCCATGCTATCCAGTACGTGGTGGAGTTCGCCAAGCGGATAACAGGCTTCATG  
GAGCTGTGTCAGAACGATCAGATCTTACTTCTGAAGTCAGGTTGCTTGGAAAGTGGTTTTAGTGAGAATGT  
GTCGTGCCTTCAACCCATTAACAACACTGTTCTGTTTGAAGGAAAATATGGAGGAATGCAAATGTTCAA  
AGCCTTAGGTTTCGGATGACCTAGTGAATGAAGCATTGACTTTGCGAAGAATCTGTGTTCCCTGCAGCTG  
ACTGAGGAAGAGATTGCTCTGTTCTCCTGCTGTTCTGATATCCCAGACCGAGCCTGGCTGATCGAAC  
CAAGAAAAGTCCAGAAGCTTCAGGAAAAGATTTATTTTGCAGTCAACATGTGATTGAGAAGAACCACCT  
GGATGATGAGACCCTGGCAAAGTTAATAGCCAAGATACCAACTATCACGGCAGTCTGCAACTTGCATGGG  
GAGAAGCTGCAGGTATTTAAGCAGTCTCATCCAGACATAGTGAATACACTGTTTCTCCATTGTACAAGG  
AGCTCTTTAATCCTGACTGTGCTGCGGTCTGCAAA

**ACCGGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206022 protein sequence  
Red=Cloning site Green=Tags(s)

MSRDAVKFGRMSKKQRDSLVAEVQKHQRLQEQRQQSGEAEALARVYSSISNGLSNLNTETGGTYANG  
 HVIDLPKSEGYSIDSGQSPDQSGLDMTGIKQIKQEPIDYLT SVPNLFYSSFNNGQLAPGITMSEIDR  
 IAQNI IKSHLETCQYTMEELHQLAWQHTHYEEIKAYQSKSREALWQOCAIQITHAIQYVVEFAKRITGFM  
 ELQNDQIILLKSGCLEVVLVRCRAFNP LNNTVL FEGKYGGMQMFKALGSDDLVNEAFDFAKNLC SLQL  
 TEEEIALFSSAVLISPRAWLIEPRKVQKLQEKIYFALQHVIQKNHL DDETLAKLIAKIPTITAVCNLHG  
 EKLQVFKQSHPDIVNTLFPPLYKELFNP DCAAVCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC024842

**ORF Size:** 1155 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:** [BC024842](#), [AAH24842](#)

**RefSeq Size:** 1832 bp

**RefSeq ORF:** 1157 bp

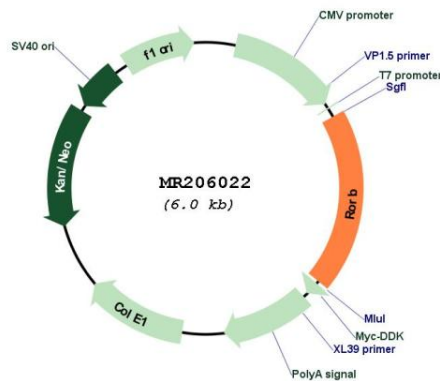
**Locus ID:** 225998

**Cytogenetics:** 19 B

**MW:** 43.6 kDa

**Gene Summary:** The protein encoded by this gene is a member of the NR1 subfamily of nuclear hormone receptors. It is a DNA-binding protein that can bind as a monomer or as a homodimer to hormone response elements upstream of several genes to enhance the expression of those genes. The encoded protein has been shown to interact with NM23-2, a nucleoside diphosphate kinase involved in organogenesis and differentiation, and to help regulate the expression of some genes involved in circadian rhythm. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2014]

### Product images:



Circular map for MR206022