

## Product datasheet for MR229638

### Rorb (NM\_001289921) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rorb (NM_001289921) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rorb
Synonyms:	hstp; Nr1f2; Rorbeta; RZR-beta; RZRB
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229638 representing NM_001289921 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGTCAAGAGATGCTGTAAGTTCGGGAGGATGTCCAAGAAGCAGCGGGACAGCCTGTATGCTGAGGTGC  
AGAAGCATCAGCAAAGGCTGCAGGAGCAGCGGCAGCAGAGTGGGAGCGGAGGCCCTCGCCAGGGT  
GTACAGCAGCAGCATTAGCAATGGCCTCAGCAACCTGAACACCGAGACCGCGGCACATACGCCAACGGG  
CAGTCATTGACCTGCCAAGTCCGAAGTTATTACAGCATAGATTCCGGTCAGCCGTCTCCCGATCAGT  
CAGGACTGGACATGACTGGGATCAAACAGATAAAGCAAGAACCTATCTATGACCTCACATCTGTACCCAA  
CTTGTTTACCTATAGCTCTTTCAACAACGGGCAGTTAGCTCCCGGATAACAATGTCTGAGATCGATCGA  
ATTGCACAGAACATCATTAAGTCCCATTGGAGACATGTCAGTACACCATGGAAGAACTCCATCAGCTGG  
CATGGCAGACCCACACCTACGAGGAAATCAAGGCGTATCAAAGCAAGTCCAGGGAGGCTCTGTGGCAGCA  
GTGTGCCATCCAGATCACCCATGCTATCCAGTACGTGGTGGAGTTCGCCAAGCGGATAACAGGCTTCATG  
GAGCTGTGTCAGAACGATCAGATCTTACTTCTGAAGTCAGTTGCTTGAAGTGGTTTTAGTGAGAATGT  
GTCGTGCCTTCAACCCATTAACAACACTGTTCTGTTTGAAGGAAAATATGGAGGAATGCAAAATGTTCAA  
AGCCTTAGGTTCCGATGACCTAGTGAATGAAGCATTGACTTTGCGAAGAATCTGTGTTCCCTTGCAGCTG  
ACTGAGGAAGAGATTGCTCTGTTCTCTGCTGTTCTGATATCCCAGACCGAGCCTGGCTGATCGAAC  
CAAGAAAAGTCCAGAAGCTTCAGGAAAAGATTTATTTGCACTGCAACATGTGATTGAGAAGAACCCCT  
GGATGATGAGACCCTGGCAAAGTTAATAGCCAAGATACCAACTATCACGGCAGTCTGCAACTTGCATGGG  
GAGAAGCTGCAGGATTTAAGCAGTCTCATCCAGACATAGTGAATACACTGTTTCTCCATTGTACAAGG  
AGCTCTTAATCCTGACTGTGCTGCGGTCTGCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229638 representing NM\_001289921  
 Red=Cloning site Green=Tags(s)

MSRDAVKFGRMSKKQRDSLVAEVQKHQQRLQEQRQQQSGEAEALARVYSSISNGLSNLNTETGGTYANG  
 HVIDLPKSEGYSIDSGQPSDQSGGLDMTGIKQIKQEPIDLT SVPNLFYSSFNNGQLAPGITMSEIDR  
 IAQNIKSHLETCQYTMEELHQLAWQHTHTYEEIKAYQSKSREALWQQCAIQITHAIQYVVEFAKRITGFM  
 ELQNDQIILLKSGCLEVVLVRCRAFNP LNNTVL FEGKYGGMQMFKALGSDDL VNEAFDFAKNLC SLQL  
 TEEEI ALFSSAVLISPRAWLIEPRKVQKLQEKIYFALQHVIQKNHL DDETLAKLI AKIPTITAVCNLHG  
 EKLQVFKQSHPDIVNTLFPPLYKELFNP DCAAVCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

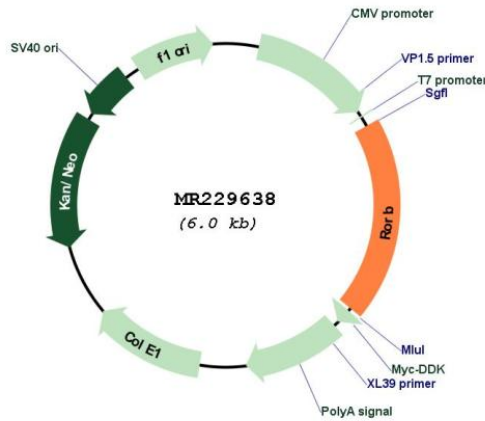
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001289921

<b>ORF Size:</b>	1155 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001289921.1</a> , <a href="#">NP_001276850.1</a>
<b>RefSeq Size:</b>	8808 bp
<b>RefSeq ORF:</b>	1158 bp
<b>Locus ID:</b>	225998
<b>UniProt ID:</b>	<a href="#">Q8R1B8</a>
<b>Cytogenetics:</b>	19 B
<b>MW:</b>	44 kDa
<b>Gene Summary:</b>	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]