

## Product datasheet for **MR229991**

### Rarb (NM\_001289761) Mouse Tagged ORF Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids                        |
| Product Name:      | Rarb (NM_001289761) Mouse Tagged ORF Clone |
| Tag:               | Myc-DDK                                    |
| Symbol:            | Rarb                                       |
| Synonyms:          | A830025K23; Hap; Nr1b2                     |
| Vector:            | pCMV6-Entry (PS100001)                     |
| E. coli Selection: | Kanamycin (25 ug/mL)                       |
| Cell Selection:    | Neomycin                                   |



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**ORF Nucleotide Sequence:**

>MR229991 representing NM\_001289761  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCACCAGCAGCCACGCATGCCAGTCCCGCAGTGGTGGACACATGACTCACTACCCAGCTGCAC  
 CCTACCCATTACTGTTCCCCCTGTATCAGAGGACTCTCCCTGCCTCCACTCCATGGGCTCCATGGCCA  
 CCCACCTCCCAGTGGATGCAGCACCCCATCACAGCCACCATCGAGACACAGAGTACCAGCTCTGAGGAG  
 CTCGTCCCAGGCCACCATCTCCACTTCTCTCTCTCGGGTGTACAAGCCCTGCTTCGTTTGCCAGGACA  
 AGTCATCGGGCTACCACTATGGCGTCAGTGCCTGCGAGGGGTGCAAGGGCTTTTTCCGAGAAGTATTCA  
 GAAGAACATGATCTACACTTGCCATCGAGATAAGAAGTGCCTATTAACAAGGTCAGTACCAAGGATGC  
 CAGTACTGCCCTGCAGAAAGTCTTTGAAGTGGCATGTCCAAAGAGTCTGTTAGGAATGACAGGAACA  
 AGAAAAAGAGGAGCCTTCAAAGCAGGAATGCACAGAGAGCTATGAGATGACAGCGGAGCTAGACGACCT  
 CACTGAGAAGATCCGAAAGCCACCAGAAACCTTTCCCTCACTCTGCCAGCTGGTAAATACACCAGC  
 AATTCCAGCGCTACCACCGGGTCCGATTGGACTTGGGCCTCTGGGACAAATTCAGTGAGCTGGCCACCA  
 AGTGCATTATTAAGATCGTGGAGTTCGCAAGCGTCTGCCGGGCTTACAGGTCTGACCATCGCAGACCA  
 GATCACCTGCTCAAAGCCGCTGCTTGGATATCTTGATTCTCAGAATTTGTACCAGGTATACCCAGAG  
 CAAGACACCATGACTTTCTGTATGGCCTTACACTAAATCGAACTCAGATGCACAATGCTGGCTTCGGTC  
 CTCTGACTGACCTTGTTTACCTTTGCCAACCAGCTCCTGCCTTTGAAATGGATGACACAGAAACAGG  
 CCTTCTCAGTGCATCTGTTAATCTGTGGAGACCGCCAGGACCTTGAGGAACCAACAAAAGTAGACAAG  
 TTCCAAGAACCCTGCTGGAAGCACTAAAGATTTACATTAGAAAACGACGACCCAGCAAGCCTCACATGT  
 CTGAAAATGAAAATTCCTGGATCAATGCCACCTCTCATTAGGAAATGCTGGAGAATTCGAAGGACAT  
 GAACCTTGACCCCAAGTTCAAGTGGGAATATAGCAGAGCACAGTCCCAGCGTGTCCCCAGCTCAGTGG  
 AGAACAGTGGAGTCACTCAGTACCAGTCTGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR229991 representing NM\_001289761  
 Red=Cloning site Green=Tags(s)

MSTSSHACPVPAVRGHMTHYPAAPYPLLFPPVIRGLSLPPLHGLHGHPSPSGCSTPSPATLETQSTSSEE  
 LVPSPSPPLPPRVYKPCFVCQDKSSGYHYGVSACEGCKGFFRRSIQKNMIYTCRDKNCVINKVTRNRC  
 QYCRLLQKCFEVMGSKESVRNDRNKKKKEPSKQECTESYEMTAELDDLTEKIRKAHQETFPSLCQLGKYTT  
 NSSADHRVRLDLGLWDFSELATKCIKIVEFAKRLPGFTGLTIADQITLLKAACLDILILRICTRYTPE  
 QDTMTFSDGLTLNRTQMHNAGFGPLTDLVFTFANQLLPLEMDDTETGLLSAICLCGDRQDLEEPTKVDK  
 LQEPLLEALKIYIRKRRPSKPHMFPKILMKITDLRSISAKGAERVITLKMEIPGSMPLIQEMLENSEGH  
 EPLTPSSSGNIAEHSPSVSPSSVENSGVQSPLLQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

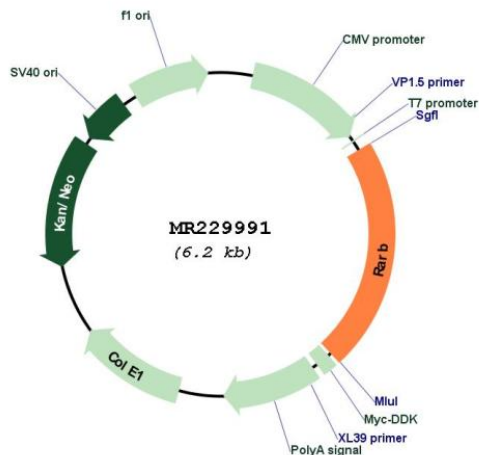
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001289761

ORF Size: 1365 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).

|                               |   |
|-------------------------------|---|
| <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_001289761.1</a> , <a href="#">NP_001276690.1</a>   |
| <b>RefSeq Size:</b>           | 3077 bp   |
| <b>RefSeq ORF:</b>            | 1368 bp   |
| <b>Locus ID:</b>              | 218772  |
| <b>UniProt ID:</b>            | <a href="#">P22605</a>  |
| <b>Cytogenetics:</b>          | 14 7.08 cM  |
| <b>MW:</b>                    | 51.1 kDa  |
| <b>Gene Summary:</b>          | Receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various biological processes. The RAR/RXR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. In the absence of ligand, acts mainly as an activator of gene expression due to weak binding to corepressors (By similarity). The RXRA/RARB heterodimer can act as a repressor on the DR1 element and as an activator on the DR5 element (By similarity). In concert with RARG, required for skeletal growth, matrix homeostasis and growth plate function (PubMed:19389355).[UniProtKB/Swiss-Prot Function] |