

Product datasheet for **MC227780**

Rarb (NM_001289761) Mouse Untagged Clone

Product data:

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



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Fully Sequenced ORF: >MC227780 representing NM_001289761
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCACCAGCAGCCACGCATGCCAGTCCCGGCAGTGGCGTGGACACATGACTCACTACCCAGCTGCAC
 CCTACCCATTACTGTTCCCCCTGTTCATCAGAGGACTCTCCCTGCCTCCACTCCATGGGCTCCATGGCCA
 CCCACCTCCCAGTGGATGCAGCACCCCATCACCAGCCACCATCGAGACACAGAGTACCAGCTCTGAGGAG
 CTCGTCCCAGGCCACCATCTCCACTTCTCCTCCTCGGGTGTACAAGCCCTGCTTCGTTTGCCAGGACA
 AGTCATCGGGCTACCACTATGGCGTCAGTGCCTGCGAGGGGTGCAAGGGCTTTTTCCGAGAAGTATTCA
 GAAGAACATGATCTACACTTGCCATCGAGATAAGAAGTGCCTCATTAAACAAGGTCACTAGGAACCGATGC
 CAGTACTGCCGCTGCAGAAAGTCTTTGAAGTGGGCATGTCCAAAGAGTCTGTTAGGAATGACAGGAACA
 AGAAAAAGAAGGAGCCTTCAAAGCAGGAATGCACAGAGAGCTATGAGATGACAGCGGAGCTAGACGACCT
 CACTGAGAAGATCCGAAAGCCACCAGGAAACCTTTCCCTCACTCTGCCAGCTGGGTAATACACCACG
 AATTCCAGCGCTACCACCGGGTCCGATTGGACTTGGGCCTCTGGGACAAATTCAGTGAGCTGGCCACCA
 AGTGCATTATTAAGATCGTGGAGTTCGCAAGCGTCTGCCGGGCTTACAGGTCTGACCATCGCAGACCA
 GATCACCTGCTCAAAGCCGCTGCTTGGATATCTTGATTCTCAGAATTTGTACCAGGTATACCCAGAG
 CAAGACACCATGACTTTCTGTATGGCCTTACACTAAATCGAACTCAGATGCACAATGCTGGCTTCGGTC
 CTCTGACTGACCTTGTGTTACACCTTTGCCAACCAGCTCCTGCCTTTGGAAATGGATGACACAGAAACAGG
 CCTTCTCAGTGCCATCTGTTAATCTGTGGAGACCGCCAGGACCTTGAGGAACCAACAAAAGTAGACAAG
 CTCCAAGAACCCTGCTGGAAGCACTAAAGATTTACATTAGAAAACGACGACCCAGCAAGCCTCACATGT
 TTCCAAAGATCTTAATGAAAATCACAGATCTCCGCAGCATCAGCGGAAAGGTGCCGAACGTGTAATTAC
 CTTGAAAATGGAAATTCCTGGATCAATGCCACCTCTCATTAGGAAATGCTGGAGAATTCTGAAGGACAT
 GAACCTTTGACCCCAAGTTCAAGTGGGAATATAGCAGAGCACAGTCCCAGCGTGTCCCCAGCTCAGTGG
 AGAACAGTGGAGTCACTCAGTACCCTGCTGCAGTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001289761
- Insert Size:** 1368 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001289761.1](#), [NP_001276690.1](#)

RefSeq Size: 3077 bp

RefSeq ORF: 1368 bp

Locus ID: 218772

UniProt ID: [P22605](#)

Cytogenetics: 14 7.08 cM

Gene Summary: 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]

Transcript Variant: This variant (beta1) lacks an in-frame exon in the 5' coding region, compared to variant beta3. The resulting isoform (beta1) lacks an internal segment, compared to isoform beta3. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.