

Product datasheet for **MC205276**

Rarb (NM_011243) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rarb (NM_011243) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rarb
Synonyms:	A830025K23; Hap; Nr1b2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC076597
 CAGAAGTGGTAGGAAGTGAAGTCTCCGAGGCAGGAGGGTCTATTCTTTGCCAAAGGGGGGACCAGAGT
 TCCCGTGCGCCGCGGCCACAAGACTGGGATGCAGAGGACGCGAGCCACCCGGGCAGGGAGCGTCTGGGCA
 CCGGCGGGGTAGGACCCGCGCGCTCCCGAGGGCTGCGCGGGCGTGCCTGGAAGGGAGAAGTCTGGGATC
 GGTGCGGGAACCCCGCCTGGCTGGATCGGCCGAGCGAGCCTGGAAAATGGTAAATGATCATTTGGATC
 AATTACAGGCTTTAGCTGGCTTGTCTGCATAATTATGATTCGGGGCTGGGAAAAAGACCAACAGCCT
 ACGTGCCAAAAAAGGGGACAGATTTGATGGAGTTCGTGGACTTTTCTGTGCGGCTCGCCTCCACACCTAG
 AGGATAAGCACTTTTGCAGAGCGCGGTGCGGAGAGATCATGTTTACTGTATGGATGTTCTGTGAGTGG
 TCCCGGGCAGATCCTGGATTTCTACACCGCAGCCCTTCTCCTCATGCTGCAGAAAAGGCTCTCAAA
 GCCTGCCTCAGTGGATTCACCCAGGCCGAATGGCAGCACCAGCCATACTGCTCAATCCATCGAGACACAGA
 GTACCAGCTCTGAGGAGCTCGTCCCGAGCCACCATCTCCACTTCTCCTCCTCGGGTGTACAAGCCCTG
 CTTGTTTTGCCAGGACAAGTATCGGGCTACCACTATGGCGTCAGTGCCTGCGAGGGGTGCAAGGGCTTT
 TTCGCAGAAAGTATTCAGAAAGACATGATCTACACTTGCATCGAGATAAGAACTGCGTCATTAACAAGG
 TCACTAGGAACCGATGCCAGTACTGCCGCTGCAGAAAGTCTTTGAAGTGGGCATGTCAAAGAGTCTGT
 TAGGAATGACAGGAACAAGAAAAAGAGGAGCCTTCAAAGCAGGAATGCACAGAGAGCTATGAGATGACA
 GCGGAGCTAGACGACCTCACTGAGAAGATCCGGAAGCCACCAGGAAACCTTTCCCTCACTCTGCCAGC
 TGGGTAATACACCACGAATCCAGCGCTGACCACCGGGTCCGATTGGACTTGGGCTCTGGGACAAT
 CAGTGAGCTGGCCACCAAGTGCATTATTAAGATCGTGGAGTTCGCCAAGCGTCTGCCGGGCTTACAGGT
 CTGACCATCGCAGACCAGATCACCTGCTCAAAGCCGCTGCTTGGATATCTTGATTCTCAGAATTTGTA
 CCAGGTATACCCAGAGCAAGACACCATGACTTTCTCTGATGGCCTTACACTAAATCGAACTCAGATGCA
 CAATGCTGGCTTCGGTCTCTGACTGACCTTGTGTTACCTTTGCCAACCAGTCTCTGCCTTTGAAATG
 GATGACACAGAAACAGGCCTTCTCAGTGCATCTGTTAATCTGTGGAGACCGCCAGGACCTTGAGAAC
 CAACAAAAGTAGACAAGCTCCAAGAACCAGTCTGGAAGCACTAAAGATTTACATTAGAAAAACGACGACC
 CAGCAAGCCTCACATGTTTCCAAGATCTTAATGAAAATCACAGATCTCCGAGCATCAGCGCGAAAGGT
 GCCGAACGTGTAATTACCTTAAAATGGAATTCCTGGATCAATGCCACCTCTCATTAGGAAATGCTGG
 AGAATTCTGAAGGACATGAACCTTGACCCCAAGTTCAAGTGGGAATATAGCAGAGCACAGTCCCAGCGT
 GTCCCCAGCTCAGTGGAGAACAGTGGAGTCACTGAGTCACTGCTGCAGTGCAGATTTCCAGCTGT
 TGCAGACATTTCCAGGACCTTCCAGTCCAGATTGAAAATGCAAGGAAAACATTTTACTGCTGCTTAGT
 TTTTGAAGTGAATATGTTAACTCAAAAAGGACCAAGAAGTTTTATATGATCAATATATATTCCTTA
 CTGTATAACTTCCCTAGAAATACAACTTTTCAAATCTGAAAATCAGCCATTTTATGCCACCAGAATCT
 AGTTTAAAGCTTCTACTTTCCTCTGAAATAGTCAAGATGCATGGCAAAGACCCAGTTGAGATGATTTAG
 CCCTGGTTAAGTTTCTGAAGACTTTGTACATATAGAAGTACGGCTCTGTTCTTTCTATACTGTATGTTGG
 TGCTTTCTTTTGTCTTGCACTCAATAACCAAGACACCGAGGTTGTGGAGTAAACCACTGTACATCCAC
 TGTACGCTCTGCTTTCATGAATAACCAAGCCTCACGGTAAGGAACCAAGGCTCTGTACAGTACAAGATG
 AACTAAAGACTCTGGTTAAGTGTGGAAGCTTCTCCTGCTTTTGTGCTCTCAAGCTTCAAT
 CTTTCCCTTATGTTGCCAGATAGAGTACACCACTTCACTGCACTAGCAGAATTTGTATCACTGAAACT
 GCCAGTTCAGTTAATCCAACATCATTGTTCAATTGTTAATGATGTCACTTAAATTTAAAGTGGTTTGT
 CCTTAATGACACAACCTACCGAATGAAAAAATGAAGCATTTTACAGTCAATGATGCTCAAGGATAAT
 AAAACACTGTCCAGTGTAAATAAGTTTGTACCTGTTTCAAGCCATTGGAGAAATATCACAGGATAAT
 CAGCAAGTTAGTCTGCCGCTGGACTCTAGTAGCCAGTGCCTTGTGACTCAGGCTGATCCTGGGAT
 TCCCCAGTCTTGTGCTTGAAGGTATGGCAAGTGGCCTCCTGCGCTTGTCAATCACCATGATGC
 AGACTGACAGCTCTGGGAGAATGAGTGGTTGACAGACTCAAGTGTGCGCTTCTGAGTTCTCATGTAAGCA
 CTAGTGGAAATTTTGTGTTGTTTGTATATTTAGCAAAAGTCTGTGATGTACCACTAGCTCTGTTT
 GTACATTGAGATGGTTTAAACAGTCTTTCTATGTTTCAATACTGTTTACCTTTTCCATGGAGTCTCCTG
 GCAAGAATAAATATATTTATTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: AscI-NotI
ACCN: NM_011243
Insert Size: 1347 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).
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:	BC076597 , AAH76597
RefSeq Size:	3061 bp
RefSeq ORF:	1347 bp
Locus ID:	218772
UniProt ID:	P22605
Cytogenetics:	14 7.08 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (beta2, also known as beta0) has an alternate 5' UTR and 5' coding region, compared to variant beta3. The resulting isoform (beta2) is shorter and has a distinct N-terminus, compared to isoform beta3.</p>