

Product datasheet for MR229704

Rarb (NM_001289762) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Rarb (NM_001289762) 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
ORF Nucleotide Sequence: >MR229704 representing NM_001289762
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

CTGGAAAATGCCATCGAGACACAGAGTACCAGCTCTGAGGAGCTCGTCCCAGCCCACCATCTCCACTTC
CTCCTCCTCGGGTGTACAAGCCCTGCTTCGTTTCCAGGACAAGTCATCGGGCTACCACTATGGCGTCAG
TGCTCGAGGGGTGCAAGGGCTTTTTCCGAGAAGTATTCAGAAGAACATGATCTACACTTGCCATCGA
GATAAGAACTGCGTCATTAACAAGGTCCTAGGAACCGATGCCAGTACTGCCGCCTGCAGAAGTGCTTTG
AAGTGGGCATGTCCAAAGAGTCTGTTAGGAATGACAGGAACAAGAAAAGAAGGAGCCTTCAAAGCAGGA
ATGCACAGAGAGCTATGAGATGACAGCGGAGCTAGACGACCTCACTGAGAAGATCCGGAAAAGCCCACCAG
GAAACCTTCCCTCACTCTGCCAGCTGGGTAATACACCACGAATTCAGCGCTGACCACCGGGTCCGAT
TGGACTTGGGCCCTCTGGGACAAATTCAGTGAGCTGGCCACCAAGTGCATTATTAAGATCGTGGAGTTCG
CAAGCGTCTGCCGGGCTTACAGGTCTGACCATCGCAGACCAGATCACCTGCTCAAAGCCGCTGCTTG
GATATCTTGATTCTCAGAATTTGTACCAGGTATACCCAGAGCAAGACACCATGACTTTCTCTGATGGCC
TTACACTAAATCGAACTCAGATGCACAATGCTGGCTTCGGTCTCTGACTGACCTGTGTACCTTTG
CAACCAGCTCCTGCCTTTGGAAATGGATGACACAGAAACAGGCCTTCTCAGTGCCATCTGTTAATCTGT
GGAGACCGCCAGGACCTTGAGGAACCAAAAAGTAGACAAGCTCCAAGAACCACTGCTGGAAGCACTAA
AGATTTACATTAGAAAACGACGACCCAGCAAGCCTCACATGTTTCCAAAGATCTTAATGAAAATCACAGA
TCTCCGCAGCATCAGCGCGAAAGGTGCCGAACGTGAATTACCTTGAAAATGGAATTCCTGGATCAATG
CCACCTCTCATTAGGAAATGCTGGAGAATTCTGAAGGACATGAACCTTGACCCCAAGTTCAAGTGGGA
ATATAGCAGAGCACAGTCCCAGCGTGTCCCCAGCTCAGTGGAGAACAGTGGAGTCAGTCAGTCACT
GCTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229704 representing NM_001289762
 Red=Cloning site Green=Tags(s)

LENAIETQSTSSEELVPSPSPPLPPRVYKPCFVCQDKSSGYHYGVSACEGCKGFFRRSIQKNMIYTCHR
 DKNCVINKVTRNRCQYCR LQKCFEVMGMSKESVRNDRNKKKKEPSKQECTESYEMTAE LDDLTEKIRKAHQ
 ETFP SLCQLGKYTTNSSADHRVRLDLGLWDFSELATKCI IKIVEFAKRLPGFTGLTIADQITLLKAACL
 DILILRICTRYTP EQDTMTFSDGLTLNRTQMHNAGFGPLTDLVFTFANQLLPLEMDDTETGLLSAICLIC
 GDRQDLEEPTKVDKLQEP LLEALKIYIRKRRPSKPHMFPKILMKITDLRSISAKGAERVITLKMEIPGSM
 PPLIQEMLENSEGHEPLTPSSSGNIAEHSPSVSPSSVENSGVVSQSPLLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

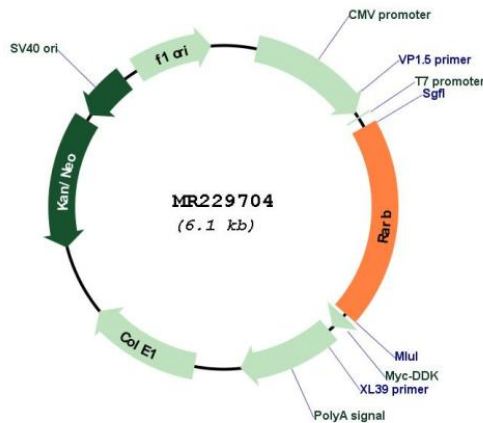
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289762

ORF Size:	1197 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:	<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:	NM_001289762.1 , NP_001276691.1
RefSeq Size:	2687 bp
RefSeq ORF:	1200 bp
Locus ID:	218772
UniProt ID:	P22605
Cytogenetics:	14 7.08 cM
MW:	45.3 kDa
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]