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Product datasheet for MR207145

Rarb (NM_011243) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rarb (NM_011243) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rarb
Synonyms:	A830025K23; Hap; Nr1b2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR207145 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTTGACTGTATGGATGTTCTGTCAGTGAGTCCCGGGCAGATCCTGGATTTCTACACCGCGAGCCCTT
CCTCCTGCATGCTGCAGGAAAAGGCTCTCAAAGCCTGCCTCAGTGGATTCACCCAGGCCGAATGGCAGCA
CCGGCATACTGCTCAATCCATCGAGACACAGAGTACCAGCTCTGAGGAGCTCGTCCCGAGCCCACCATCT
CCACTTCCTCCTCCTCGGGTGTACAAGCCCTGCTTCGTTTGCCAGGACAAGTCATCGGGCTACCACTATG
GCGTCAGTGCCTGCGAGGGGTGCAAGGGCTTTTTCCGCAGAAGTATTCAGAAGAACATGATCTACACTTG
CCATCGAGATAAGAACTGCGTCATTAACAAGGTCACTAGGAACCGATGCCAGTACTGCCGCCTGCAGAAG
TGCTTTGAAGTGGGCATGTCCAAAGAGTCTGTTAGGAATGACAGGAACAAGAAAAAGAAGGAGCCTTCAA
AGCAGGAATGCACAGAGAGCTATGAGATGACAGCGGAGCTAGACGACCTCACTGAGAAGATCCGGAAAGC
CCACCAGGAAACCTTTCCCTCACTCTGCCAGCTGGGTAAATACACCACGAATTCCAGCGCTGACCACCGG
GTCCGATTGGACTTGGGCCTCTGGGACAAATTCAGTGAGCTGGCCACCAAGTGCATTATTAAGATCGTGG
AGTTCGCCAAGCGTCTGCCGGGCTTCACAGGTCTGACCATCGCAGACCAGATCACCCTGCTCAAAGCCGC
CTGCTTGGATATCTTGATTCTCAGAATTTGTACCAGGTATACCCCAGAGCAAGACACCATGACTTTCTCT
GATGGCCTTACACTAAATCGAACTCAGATGCACAATGCTGGCTTCGGTCCTCTGACTGACCTTGTGTTCA
CCTTTGCCAACCAGCTCCTGCCTTTGGAAATGGATGACACAGAAACAGGCCTTCTCAGTGCCATCTGTTT
AATCTGTGGAGACCGCCAGGACCTTGAGGAACCAACAAAAGTAGACAAGCTCCAAGAACCACTGCTGGAA
GCACTAAAGATTTACATTAGAAAACGACGACCCAGCAAGCCTCACATGTTTCCAAAGATCTTAATGAAAA
TCACAGATCTCCGCAGCATCAGCGCGAAAGGTGCCGAACGTGTAATTACCTTGAAAATGGAAATTCCTGG
ATCAATGCCACCTCTCATTCAGGAAATGCTGGAGAATTCTGAAGGACATGAACCCTTGACCCCAAGTTCA
AGTGGGAATATAGCAGAGCACAGTCCCAGCGTGTCCCCCAGCTCAGTGGAGAACAGTGGAGTCAGTCAGT
CACCACTGCTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

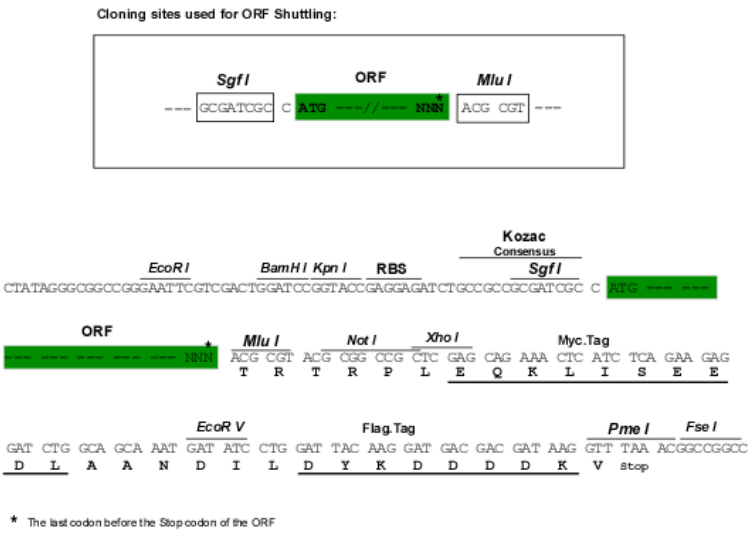
>MR207145 protein sequence
Red=Cloning site Green=Tags(s)

MFDCMDVLSVSPGQILDFYTASPSSCMLQEKALKACLSGFTQAEWQHRHTAQSIETQSTSSEELVPSPPS
PLPPPRVYKPCFVCQDKSSGYHYGVSACEGCKGFFRRSIQKNMIYTCHRDKNCVINKVTRNRCQYCRLQK
CFEVGMSKESVRNDRNKKKKEPSKQECTESYEMTAELDDLTEKIRKAHQETFPSLCQLGKYTTNSSADHR
VRLDLGLWDKFSELATKCIIKIVEFAKRLPGFTGLTIADQITLLKAACLDILILRICTRYTPEQDTMTFS
DGLTLNRTQMHNAGFGPLTDLVFTFANQLLPLEMDDTETGLLSAICLICGDRQDLEEPTKVDKLQEPLLE
ALKIYIRKRRPSKPHMFPKILMKITDLRSISAKGAERVITLKMEIPGSMPPLIQEMLENSEGHEPLTPSS
SGNIAEHSPSVSPSSVENSGVSQSPLLQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011243

ORF Size: 1347 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:
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_011243.2

RefSeq Size: 3041 bp

RefSeq ORF: 1347 bp

Locus ID: 218772

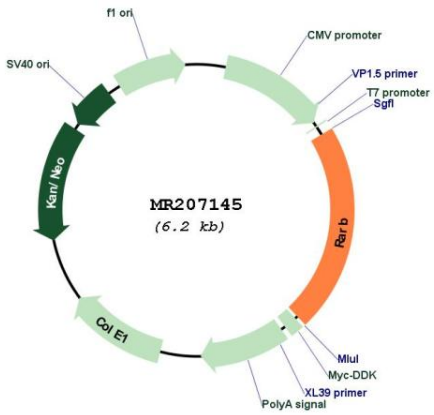
UniProt ID: P22605

Cytogenetics: 14 7.08 cM

MW: 50.3 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]

Product images:



Circular map for MR207145