

Product datasheet for MC227709

Rxra (NM_001290481) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rxra (NM_001290481) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rxra
Synonyms:	9530071D11Rik; Nr2b1; RXRalpha1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC227709 representing NM_001290481 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGTCCCCTCGCTGCACCCCTCCTTGGGTCCGGGAATCGGCTCTCCACTGGGCTCGCCTGGGCAGC
TGCCTCTCCTATCAGCACCCCTGAGCTCCCCATCAATGGCATGGGTCCGCCCTTCTCTGTCATCAGCTC
CCCCATGGGCCCGCACTCCATGTGGTACCCACCACCCACATTGGGCTTCGGGACTGGTAGCCCCAG
CTCAATTCACCCATGAACCCTGTGAGCAGCACTGAGGATATCAAGCCGCCACTAGGCCTCAATGGGTCC
TCAAGTTCTGCCCATCCCTCAGGAAATATGGCTCCTTCAACCAAGCACATCTGTGCTATCTGTGGGGA
CCGCTCCTCAGGCAAACACTATGGGGTATACAGTTGTGAGGGCTGCAAGGGCTTCTTCAAGAGGACAGTA
CGCAAAGACCTGACCTACACCTGCCGAGACAACAAGGACTGCCTGATCGACAAGAGACAGCGGAACCGGT
GTCAGTACTGCCGCTACCAGAAGTGCCTGGCCATGGGCATGAAGCGGGAAGCTGTGAGGAGGAGCGGCA
GCGGGGCAAGGACCGGAATGAGAACGAGGTGGAGTCCACCAGCAGTGCCAACGAGGACATGCCTGTAGAG
AAGATTCTGGAAGCCGAGCTTGTGTGAGCCCAAGACTGAGACATACGTGGAGGCAAACATGGGCTGA
ACCCAGCTCACCAAATGACCCCTGTTACCAACATCTGTCAAGCAGCAGACAAGCAGCTCTCACTCTTGT
GGAGTGGGCAAGAGGATCCACACTTTTCTGAGCTGCCCTAGACGACCAAGTTCATCTGCTACGGGCA
GGCTGGAACGAGCTGCTGATCGCTCCTTCTCCACCGCTCCATAGCTGTGAAAGATGGGATTCTCTGG
CCACCGGCTGCACGTACACCGAACAGCGCTCACAGTGTGGGTGGGCGCCATCTTTGACAGGGTGT
AACAGAGCTGGTGTCTAAGATGCGTGACATGCAGATGGACAAGACGGAGCTGGGCTGCCTGCGAGCCATT
GTCCTGTTCAACCCTGACTCTAAGGGGCTCTCAAACCCTGCTGAGGTGGAGGCGTTGAGGGAGAAGGTGT
ATGCGTACTAGAAGCGTACTGCAAACACAAGTACCCTGAGCAGCCGGCAGGTTTGCAAGCTGCTGCT
CCGCTGCCTGCACTGCGTTCATCGGGCTCAAGTGCCTGGAGCACCTGTTCTTCTCAAGCTCATCGGG
GACACGCCATCGACACCTTCTCATGGAGATGCTGGAGGCACCACATCAAGCCACCTAG

ACGGCTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001290481
Insert Size:	1320 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:	<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:	<u>NM_001290481.1</u> , <u>NP_001277410.1</u>
RefSeq Size:	5088 bp
RefSeq ORF:	1320 bp
Locus ID:	20181
Cytogenetics:	2 19.38 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. The high affinity ligand for RXRs is 9-cis retinoic acid. RXRA serves as a common heterodimeric partner for a number of nuclear receptors. In the absence of ligand, the RXR-RAR heterodimers associate with a multiprotein complex containing transcription corepressors that induce histone acetylation, chromatin condensation and transcriptional suppression. On ligand binding, the corepressors dissociate from the receptors and associate with the coactivators leading to transcriptional activation. The RXRA/PPARA heterodimer is required for PPARA transcriptional activity on fatty acid oxidation genes such as ACOX1 and the P450 system genes.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) contains an alternate 5' terminal exon and it thus differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (2) is shorter at the N-terminus, compared to isoform 1. Both variants 2 and 3 encode isoform 2.</p>