

Product datasheet for **SC323877**

Retinoic Acid Receptor alpha (RARA) (NM_001024809) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoic Acid Receptor alpha (RARA) (NM_001024809) Human Untagged Clone
Tag:	Tag Free
Symbol:	Retinoic Acid Receptor alpha
Synonyms:	NR1B1; RAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_001024809.2
 AGGTGAAGCCGCTGAGTTCCCGGGCCCCGCCAGGCTTCCCTGGGAGAGCCGACGGACCCC
 CCCTCCCAGCACACAACACTTCCCTGCTTTTACCCGGGACTGGCGGAGCGGCCGGCGGAC
 TTAGACGCGGGGACTTCAGGGCAGGGGGCGCCCCCTGCCCGGGTACCAGTCGGGGCGAG
 GGGACGTCCTCTCCCCAGCTGCTCTGCTCGGATGGCGCCCGGGTGTAGTACGGGG
 GCGGCGCGCAGGACTTCCCAGCTCGGACCTTTGCCTTCGAGGGGAAAGATGTACGAGAG
 TGTAGAAGTGGGGGTCCCACCCCTAATCCCTTCTAGTGGTGGATTTTTATAACCAGAA
 CCGGGCCTGTTTCTCCAGAGAAGGGGCTCCCCGCCCGGGTCCGTACTCCACCCCGCT
 CCGGACTCCGCTTTGGAATGGCTCAAACCACTCCATTGAGACCCAGAGCAGCAGTTCTGA
 AGAGATAGTGCCAGCCCTCCCTCGCCACCCCTCTACCCGCATCTACAAGCCTTGCTT
 TGTCTGTGAGGACAAGTCTCAGGCTACCACTATGGGGTACGCGCTGTGAGGGTGCAA
 GGGCTTCTCCGCGCAGCATCCAGAAGAACATGGTGTACACGTGTACCGGGACAAGAA
 CTGCATCATCAACAAGGTGACCCGGAACCGCTGCCAGTACTGCCGACTGCAGAAGTGCTT
 TGAAGTGGGCATGTCCAAGGAGTCTGTGAGAAACGACCGAAACAAGAAGAAGAAGGAGGT
 GCCCAAGCCCGAGTGTCTGAGAGCTACACGCTGACGCCGGAGGTGGGGGAGCTCATTGA
 GAAGGTGCGCAAAGCGCACAGGAAACCTTCCCTGCCCTGTGCCAGCTGGGCAAATACAC
 TACGAACAACAGCTCAGAACAACGTGTCTCTTGACATTGACCTCTGGGACAAGTTCAG
 TGAAGTCTCCACCAAGTGCATCATTAAAGTGTGGAGTTCGCAAAGCAGCTGCCCGGCTT
 CACCACCTCACCATCGCCGACCAGATCACCTCCTCAAGGCTGCCTGCCTGGACATCCT
 GATCCTGCGGATCTGCACGCGGTACACGCCGAGCAGGACACCATGACCTTCTCGGACGG
 GCTGACCTGAACCGGACCCAGATGCACAACGCTGGCTTCGGCCCCCTCACCGACCTGGT
 CTTTGCCTTCGCAACCAGCTGCTGCCCTGGAGATGGATGATGCGGAGACGGGGTGTCT
 CAGCGCCATCTGCCTCATCTGCGGAGACCGCCAGGACCTGGAGCAGCCGGACCGGTGGA
 CATGCTGCAGGAGCCGCTGCTGGAGCGCTAAAGGTCTACGTGCGGAAGCGGAGGCCAG
 CCGCCCCACATGTTCCCAAGATGCTAATGAAGTACTGACCTGCGAAGCATCAGCGC
 CAAGGGGGCTGAGCGGGTATCACGCTGAAGATGGAGATCCCGGGCTCCATGCCGCTCT
 CATCCAGGAAATGTTGGAGAAGTCAAGAGGGCTGGACACTCTGAGCGGACAGCCGGGGG
 TGGGGGGCGGGACGGGGTGGCCTGGCCCCCGCCAGGACGCTGTAGCCCCAGCCTCAG
 CCCCAGCTCCAACAGAAGCAGCCCGGCCACCACTCCCCGTGACCGCCACGCCACATGG
 ACACAGCCCTCGCCTCCGCCCGGCTTTTCTCTGCCTTTCTACCGACCATGTGACCCCG
 CACCAGCCCTGCCCCACCTGCCCTCCCGGGCAGTACTGGGGACCTTCCCTGGGGGACGG
 GGAGGGAGGAGGACGCGACTCCTTGGACAGAGGCTGGGCCCTCAGTGGACTGCCTGCTC
 CCACAGCCTGGGCTGACGTCAGAGGGCCGAGGCCAGGAAGTGAAGTGGGCCCTGGTCTG
 GGTCTCAGGATGGGTCTGGGGGCTCGTGTTCATCAAGACACCCTCTGCCAGCTCAC
 CACATCTTCATCACCAGCAAACGCCAGGACTTGGCTCCCCCATCCTCAGAAGTCAACAAGC
 CATTGCTCCCCAGCTGGGGAACCTCAACCTCCCCCTGCCTCGGTTGGTGACAGAGGGGG
 TGGGACAGGGGCGGGGGTCCCCCTGTACATACCCTGCCATACCAACCCAGGTATTA
 TTCTCGCTGGTTTTGTTTTATTTAATTTTTTTGTTTTGATTTTTTAATAAGAATTTT
 CATTTTAAGCACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_001024809

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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001024809.2</u> , <u>NP_001019980.1</u>
RefSeq Size:	3405 bp
RefSeq ORF:	1374 bp
Locus ID:	5914
UniProt ID:	<u>P10276</u>
Cytogenetics:	17q21.2
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Pathways in cancer
Gene Summary:	<p>This gene represents a nuclear retinoic acid receptor. The encoded protein, retinoic acid receptor alpha, regulates transcription in a ligand-dependent manner. This gene has been implicated in regulation of development, differentiation, apoptosis, granulopoiesis, and transcription of clock genes. Translocations between this locus and several other loci have been associated with acute promyelocytic leukemia. Alternatively spliced transcript variants have been found for this locus.[provided by RefSeq, Sep 2010]</p> <p>Transcript Variant: This variant (2) reflects the use of an alternate promoter and has a distinct 5' exon, compared to transcript variant 1. Translation is predicted to initiate from this alternate exon, and the resulting protein (isoform 2) has a shorter and a distinct N-terminus compared to isoform 1.</p>