

## Product datasheet for **SC122229**

### Retinoic Acid Receptor alpha (RARA) (BC008727) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoic Acid Receptor alpha (RARA) (BC008727) Human Untagged Clone
Tag:	Tag Free
Symbol:	Retinoic Acid Receptor alpha
Synonyms:	NR1B1; nucleophosmin-retinoic acid receptor alpha fusion protein NPM-RAR long form; OTTHUMP00000164454; OTTHUMP00000164456; RAR; retinoic acid receptor, alpha; Retinoic acid receptor, alpha polypeptide
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:**

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>OriGene sequence for BC008727 edited
CAGAAGCAGGGGGGAATCCTGAATCGAGCTGAGAGGGCTTCCCCGGTTCTCTGGGAACC
CCATCGGCCCCCTGCCAGCACACCTGAGCAGCATCACAGGACATGGCCCCCTCAGCCA
CCTAGCTGGGGCCATCTAGGAGTGGCATCTTTTTTGGTGCCCTGAAGGCCAGCTCTGGA
CCTTCCCAGGAAAAGTCCAGCTCACAGAACTGCTTGACCAAAGGACCGGCTCTTGAGAC
ATCCCCAACCCACCTGGCCCCAGCTAGGGTGGGGCTCCAGGAGACTGAGATTAGCT
GCCTCTTTGGACAGCAGCTCCAGGACAGGGCGGGTGGGCTGACCACCCAAACCCCATCT
GGGCCAGGCCCATGCCCCGAGGAGGGTGGTCTGAAGCCACAGAGCCCCCTGCCAG
ACTGTCTGCCTCCCTTCTGACTGTGGCCGCTTGGCATGGCCAGCAACAGCAGCTCCTGCC
CGACACCTGGGGGCGGGCACCTCAATGGGTACCCGGTGCCTCCCTACGCCTTCTTCTTCC
CCCCTATGCTGGGTGGACTCTCCCGCCAGGCGCTTGACCACTCTCCAGCACCAGCTTC
CAGTTAGTGGATATAGCACACCATCCCCAGCCACCATTGAGACCCAGAGCAGCAGTTCTG
AAGAGATAGTGCCAGCCCTCCCTCGCCACCCCTCTACCCGCATCTACAAGCCTTGCT
TTGTCTGTGAGGACAAGTCTCAGGCTACCACTATGGGGTCAAGCCTGTGAGGGCTGCA
AGGGCTTCTTCCGCCGACATCCAGAAGAACATGGTGTACACGTGTACCGGGACAAGA
ACTGCATCATCAACAAGTGAACCCGGAACCGCTGCCAGTACTGCCGACTGCAAGAAGTGT
TTGAAGTGGGCATGTCCAAGGAGTCTGTGAGAAACGACCGAAACAAGAAGAAGGAGG
TGCCCAAGCCCGAGTGTCTGAGAGCTACACGCTGACGCCGGAGGTGGGGGAGCTCATTG
AGAAGGTGCGCAAAGCGCACAGGAAACCTTCCCTGCCCTCTGCCAGCTGGGCAAATACA
CTACGAACAACAGCTCAGAACAACGTGTCTCTCTGGACATTGACCTCTGGGACAAGTTCA
GTGAACTCTCCACCAAGTGCATCATTAAAGACTGTGGAGTTCGCCAAGCAGCTGCCCGGT
TCACCACCTCACCATCGCCGACCAGATCACCTCCTCAAGGCTGCCTGCCTGGACATCC
TGATCCTGCGGATCTGCACGCGGTACACGCCCGAGCAGGACACCATGACCTTCTCGGACG
GGCTGACCCTGAACCCGACCCAGATGCACAACGCTGGCTTCGGCCCCCTACCGACTGG
TCTTTGCCTTCGCCAACAGCTGCTGCCCTGGAGATGGATGATGCGGAGACGGGGCTGC
TCAGCGCCATCTGCCTCATCTGCGGAGACCGCCAGGACCTGGAGCAGCCGGACCGGGTGG
ACATGCTGCAGGAGCCGCTGCTGGAGGCGCTAAAGGTCTACGTGCGGAAGCGGAGGCCCA
GCCGCCCCACATGTTCCCAAGATGCTAATGAAGATTACTGACCTGCGAAGCATCAGCG
CCAAGGGGGCTGAGCGGGTATCAGCTGAAGATGGAGATCCCGGGCTCCATGCCGCTC
TCATCCAGGAAATGTTGGAGAACTCAGAGGGCCTGGACACTCTGAGCGGACAGCCGGGG
GTGGGGGCGGGACGGGGTGGCTGGCCCCCGCCAGGCAGCTGTAGCCCCAGCTCA
GCCCCAGCTCCAACAGAAGCAGCCCGGCCACCCACTCCCCGTGACCGCCACGCCACATG
GACACAGCCCTCGCCCTCCGCCCGGCTTTTCTCTGCCTTTCTACCGACCATGTGACCCC
GCACCAGCCCTGCCCCACCTGCCTCCCGGCAGTACTGGGGACCTTCCCTGGGGGAGG
GGGAGGGAGGAGGAGCGACTCCTTGGACAGAGGCTGGGCCCTCAGTGGACTGCCTGCT
CCCACAGCCTGGGCTGACGTGAGAGGCCGAGGCCAGGAAGTGAAGTGGAGCCCTGGTCT
GGGTCTCAGGATGGGTCTGGGGCCTCGTGTTCATCAAGACACCCCTCTGCCAGCTCA
CCACATTTTCATACCAGCAAACGCCAGGACTTGGCTCCCCATCCTCAGAACTACAAG
CCATTGCTCCCCAGCTGGGGAACCTCAACCTCCCCCTGCCTCGTTGGTGACAGAGGGG
GTGGGACAGGGGCGGGGTTCCCTGTACATACCCTGCCATACCAACCCAGGTATTA
ATTCTCGTGGTTTTGTTTTATTTAATTTTTTTGTTTTGATTTTTTAATAAGAATT
TTCATTTAAGCACAAAAAAAAAAAAAAAAAAAA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC008727 unedited CCCCCGGTTTCAGATTGTAACGATCATTAGGCGGCCGAATCGCACGAGCATAACAGGGGG AATCCTGAATCGAGCTGAGAGGCTTCCCCGGTTCTCCTGGGTAACCCCATCGGCCCCCTG CCAGCACACACCTGAGCAGCATCACAGGACATGGCCCCCTCAGCCACCTAGCTGGGGCCC ATCTAGGAGTGGCATCTTTTTTGGTGCCCTGAAGGCCAGCTCTGGACCTCCCAGGAAAA GTGCCAGCTCACAGAAGTGTGGACCAAGGACCGGCTTTGAGACATCCCCCAACCCAC CTGGCCCCCAGCTAGGGTGGGGCTCCAGGAGACTGAGATTAGCCTGCCCTCTTTGGACA GCAGCTCCAGGACAGGGCGGGTGGGTGACCACCCAAACCCCATCTGGGCCAGGCCCA TGCCCCGAGAGAGGGTGGTNTGAAGCCACCAGAGCCCTGCCAGACTGTCTGCCTC CCTTCTGACTGTGGCCGCTTGGCATGGCCAGCAACAGCAGCTCCTGCCGACACCTGGGG GCGGGCACCTCAATGGGTACCCGGTGCCTCCCTACGCCTTCTTCTCCCCCTATGCTGG GTGGACTCTCCCCGCCAGGCGCTCTGACCACTCTCCAGCACCAGCTTCCAGTTAGTGGAT ATAGCACACCATCCCAGCCACCATTGAGACCCAGAGCAGCTTCTGAAGAGATAGTGC CCAGCCCTCCCTGCCACCCCTCTACCCCGCATACAAGCCTTGCTTTGTCTGTCTCAGG ACAAGTCTCAGGCTACCCTATGGGGGTGAGCGCTGTGAGGGCTGCAAGGGCTTCTTC CGCCGCAGCATCCAGAAGAACATGGTGTACACGTGT
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC008727
<b>Insert Size:</b>	2441 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">BC008727.2</a></u> , <u><a href="#">AAH08727.1</a></u>
<b>RefSeq Size:</b>	2432 bp
<b>Locus ID:</b>	5914
<b>Cytogenetics:</b>	17q21.2
<b>Protein Families:</b>	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
<b>Protein Pathways:</b>	Acute myeloid leukemia, Pathways in cancer

**Gene Summary:**

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]