

Product datasheet for **RG227974**

Retinoic Acid Receptor alpha (RARA) (NM_001145301) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Retinoic Acid Receptor alpha (RARA) (NM_001145301) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RARA
Synonyms:	NR1B1; RAR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227974 representing NM_001145301
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAGCAACAGCAGCTCCTGCCGACACCTGGGGCGGGCACCTCAATGGGTACCCGGTGCCTCCCT
 ACGCCTTCTTCTCCCCCTATGCTGGGTGGACTCTCCCGCCAGGCGCTCTGACCACTCTCCAGCACCA
 GCTTCCAGTTAGTGGATATAGCACACCATCCCCAGCCACCATTGAGACCCAGAGCAGCAGTTCTGAAGAG
 ATAGTGCCAGCCCTCCCTCGCCACCCCTCTACCCCGCATCTACAAGCCTTGCTTTGTCTGTGAGGACA
 AGTCTCAGGCTACCACTATGGGGTCAGCGCTGTGAGGGCTGCAAGGGCTTCTCCGCCGAGCATCCA
 GAAGAACATGGTGTACACGTGTACCCGGGACAAGAAGTGCATCATCAACAAGGTGACCCGGAACCGTGC
 CAGTACTGCCGACTGCAGAAGTGTCTTGAAGTGGGCATGTCCAAGGAGTCTGTGAGAAACGACCGAAACA
 AGAAGAAGAAGGAGGTGCCAAGCCGAGTGTCTGAGAGCTACACGCTGACCCGGAGGTGGGGGAGCT
 CATTGAGAAGGTGCGCAAAGCGCACAGGAAACCTTCCCTGCCCTCTGCCAGCTGGGCAAATACACTACG
 AACACAGCTCAGAACACGTGTCTCTCTGGACATTGACCTCTGGGACAAGTTTCACTGAAGTCTCCACCA
 AGTGCATCATTAAAGACTGTGGAGTTCGCAAGCAGCTGCCCGGCTTACCACCCCTACCATCGCCGACCA
 GATCACCCCTCAAGGCTGCCTGCCTGGACATCCTGATCCTGCGGATCTGCACGCGGTACACGCCCGAG
 CAGGACACCATGACCTTCTCGGACGGGTGACCCTGAACCGGACCCAGATGCACAACGCTGGCTTCGGCC
 CCCTACCCGACCTGGTCTTTGCCCTTCGCAACCCAGCTGCTGCCCTGGAGATGGATGATGCGGAGACGGG
 GCTGCTCAGCGCCATCTGCCTCATCTGCGGAGACCGCCAGGACCTGGAGCAGCCGGACCGGGTGGACATG
 CTCGAGGAGCCGCTGCTGGAGGCGCTAAAGTCTACGTGCGGAAGCGGAGGCCAGCCGCCCATATGATC
 TCCCAAGATGCTAATGAAGATTACTGACCTGCGAAGCATCAGCGCCAAGGGGGCTGAGCGGGTGATCAC
 GCTGAAGATGGAGATCCCGGGCTCCATGCCGCTCTCATCCAGGAAATGTTGGAGAACTCAGAGGGCCTG
 GACACTCTGAGCGGACAGCCGGGGGTGGGGGGGACGGGGTGGCCTGGCCCCCGCCAGGACGCT
 GTAGCCCCAGCTCAGCCCCAGCTCCAACAGAAGCAGCCCGGCCACCACTCCCCG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227974 representing NM_001145301
 Red=Cloning site Green=Tags(s)

MASNSSSCTPGGGHNGYPVPPYAFFFPMLGGLSPPGALTTLQHQLPVSIGYSTPSPAT IETQSSSSEE
 IVPSPSPPLPRIYKPCFVCQDKSSGYHYGVSACEGCKGFFRRSIQKNMYYTCHRDKNCIINKVTRNRC
 QYCR LQKCFEVMGSKESVRNDRNKKKKEVPKPECSESYLTPEVGELIEKVRKAHQETFPALCQLGKYTT
 NNSSEQRVSLDIDLWDFSELSTKCI IKTVEFAKQLPGFTTLTIADQITLLKAACLDILILRICTRYTPE
 QDTMTFSDGLTLNRTQMHNAGFGPLTDLVFAFANQLLPLEMDDAETGLLSAICLICGDRQDLEQPDVDM
 LQEPLLEALKVYVRKRRPSRPHMFPKMLMKITDLRSISAKGAERVITLKMEIPGSMPLIQEMLENSEGL
 DTLSGQPGGGGRDGGGLAPPPGSCSPSLSPSSNRSSPATHSP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_001145301.3
RefSeq Size:	3371 bp
RefSeq ORF:	1389 bp
Locus ID:	5914
UniProt ID:	P10276
Cytogenetics:	17q21.2
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Protein Pathways:	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]