

Product datasheet for **RG216664**

ROR alpha (RORA) (NM_134260) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ROR alpha
Synonyms:	IDDECA; NR1F1; ROR1; ROR2; ROR3; RZR-ALPHA; RZRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence: >RG216664 representing NM_134260
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAATGAGGGGGCCCCAGGAGACAGTGACTTAGAGACTGAGCAAGAGTGCCGTGGTCAATCATGGGTC
 ATTGTCTTCGAACCTGGACAGGCCAGAATGTCTGCCACACCCACACCTGCAGGTGAAGGAGCCAGAAGGGA
 TGAACCTTTTGGGATTCTCAAATACTCCATCAGTGTATCTCTGTCTTCAGGTGATGCTTTTGTCTTACT
 GGCGTCTGTGTTCTGGAGGCAGAATGGCAAGCCACCATATTCACAAAAGGAAGATAAGGAAGTACAAA
 CTGGATACATGAATGCTCAAATTGAAATTATTCATGCAAGATCTGTGGAGACAAATCATCAGGAATCCA
 TTATGGTGTCTATTACATGTGAAGGCTGCAAGGGCTTTTTCAGGAGAAGTCAGCAAAGCAATGCCACCTAC
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 AGAAATGCCTTGCCGTAGGGATGTCTCGAGATGCTGTAAAATTTGGCCGAATGTCAAAAAGCAGAGAGA
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 GTAACCTACATTGACGGGCACACCCCTGAGGGGAGTAAGGCAGACTCCGCCGTCAGCAGCTTCTACCTGGA
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 ACACCAAGCATCAGGCTTCTTCCCTACTGTTCTGTTACCAACGGCGAGACTTCCCCAACTGTGTCATGG
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 GTGATGTGGCAATTGTGTGCCATCAAATTACAGAAGCTATACAGTATGTGGTGGAGTTTGCCTAACGCA
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 GTTCTATGCACCTGACTGAAGATGAAATTCATTATTTCTGCATTTGTACTGATGTCAGCAGATCGCTC
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 CAGAAAGATCACCAGAGAAGATGGAATACTAACAAAGTTAATATGCAAGGTGTCTACATTAAGAGCCTTAT
 GTGGACGACATACAGAAAAGCTAATGGCATTAAAGCAATATACCCAGACATTGTGCGACTTCATTTTCC
 TCCATTATACAAGGAGTTGTTCACTTCAGAATTGAGCCAGCAATGCAAATTGATGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

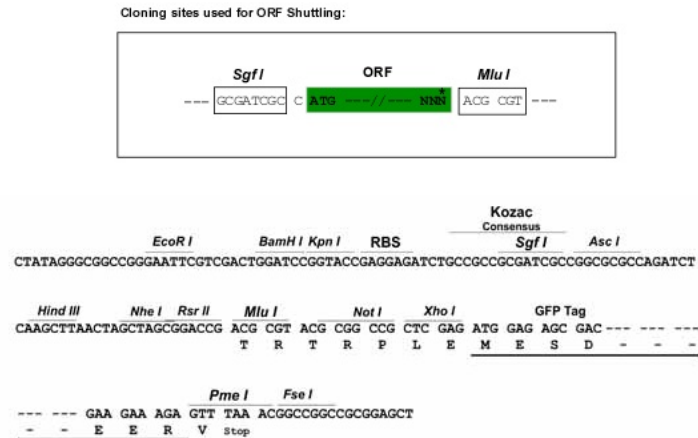
Protein Sequence: >RG216664 representing NM_134260
 Red=Cloning site Green=Tags(s)

MNEGAPGDSLETEARVPWSIMGHCLRTGQARMSATPTPAGEGARDELFGILQILHQICILSSGDAFVLT
 GVCCSWRQNGKPPYSQKEDKEVQTYMNAQIEIIPCKICGDKSSGIHYGVITCEGCKGFFRRSQSNATY
 SCPRQKNCLIDRTSRNQCHRLQKCLAVGMSRDAVKFGRMSKKQRDSLAEVQKHRMQQQQRDHQQQPG
 EAEPLTPYINISANGLTELHDDL SNYIDGHTPEGSKADSAVSSFYLDIQPSPDQSGLDINGIKPEPICDY
 TPASGFFPYCSFTNGETSPTVSMAELEHLAQNISKSHLETQYLREELQQITWQTFLEEEIENYQNKQRE
 VMWQLCAIKITEAIQYVVEFAKRIDGMELCQNDQIVLLKAGSLEVVFIRMCRAFD SQNNVTYFDGKYAS
 PDVFKSLGCEDFISFVFEFGKSLCSMHLTEDEIALFSAFVLSADRSWLQEKVKIEKLQQKIQALQHLV
 QKNHREDGILTKLICKYSTLRALCGRHTEKLMAFKAIYPDIVRLHFPPLYKELFTSEFEPAMQIDG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_134260

ORF Size: 1668 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.

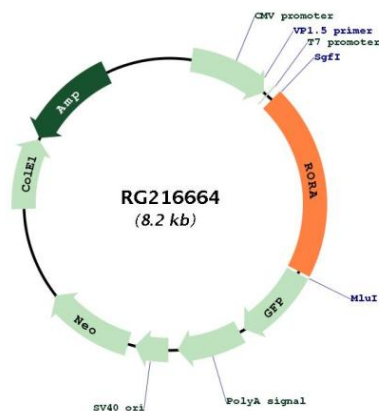
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_134260.2](#)

RefSeq Size: 2020 bp

RefSeq ORF:	1671 bp
Locus ID:	6095
UniProt ID:	P35398
Cytogenetics:	15q22.2
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transcription Factors
Gene Summary:	The protein encoded by this gene is a member of the NR1 subfamily of nuclear hormone receptors. It can bind as a monomer or as a homodimer to hormone response elements upstream of several genes to enhance the expression of those genes. The encoded protein has been shown to interact with NM23-2, a nucleoside diphosphate kinase involved in organogenesis and differentiation, as well as with NM23-1, the product of a tumor metastasis suppressor candidate gene. Also, it has been shown to aid in the transcriptional regulation of some genes involved in circadian rhythm. Four transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Feb 2014]

Product images:



Circular map for RG216664