

Product datasheet for **MR222298**

Rora (NM_013646) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rora (NM_013646) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rora
Synonyms:	9530021D13Rik; nmf267; Nr1f1; ROR1; ROR2; ROR3; sg; staggerer; tmgc26
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR222298 representing NM_013646
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGTCAGCTCCGGCAGCCCCGACCCCGCCGACGGAACCGGGCAGCAGCGCTCGGAGGCGGCCG
 CGGGCTCCAGGGAGACCCGCTGACCCAGGACACGGGCCCAAGAGCGAGGCACCGGGCGGGGCGCAG
 GCAGAGCTATGCGAGCTCCAGCCGAGGTATCTCAGTCACGAAGAAGACACACATCTCAAATTGAAATT
 ATTCCATGCAAGATCTGTGGAGACAAATCGTCAGGAATCCATTATGGTGTATTACGTGTGAAGGCTGCA
 AGGGCTTTTTAGGAGAAGTCAGCAGAGCAATGCCACCTACTCTGTCCTCGTCAGAAGAACTGTTTGT
 TGATCGGACCAGCAGAAACCGCTGCCAGCATTGTCGGCTGCAGAAATGCCTGGCCGTGGGGATGTCTCGA
 GATGCTGTCAAGTTTGGTCGGATGTCCAAGAAGCAGAGAGACAGCTTGTACGCCGAGGTGCAGAAGCACC
 GGATGCAGCAGCAGCAGGAGACCACCAGCAGCAGCCTGGGAGGCGGAGCCGCTGACGCCACCTACAA
 CATCTCAGCCAATGGGCTGACGGAATGCATGATGACCTCAGCACCTATATGGATGGGCACACCCCGAG
 GGCAAGGCGGACTCAGCCGTGAGCAGCTTCTACCTGGACATCCAGCCCTCCCCAGACCAGTCGGGAT
 TGGACATCAATGGGATCAAACCCGAACCCATATGTGACTACACACCAGCATCTGGCTTCTCCCTACTG
 TTCTTACCAACGGAGAGACTTCCCAACCGTGTCCATGGCAGAACTAGAACACCTTGCCAGAACATA
 TCCAAATCCCACCTGAAACCTGCCAGTACTTGCAGGAAAGAGCTCCAGCAGATAACGTGGCAGACCTTCC
 TGCAGGAGGAGATTGAAAACCTCAGAAACAGCAGAGAGAGGTGATGTGGCAGCTGTGTCCATCAAGAT
 TACAGAAGCTATCCAGTATGTGGTGGAGTTTGCAAACGCATTGATGGATTTATGGAGCTGTGTCAAAT
 GATCAAATGTGCTTCTAAAAGCAGGCTCGTAGAGGTGGTGTATTAGGATGTGCCGTGCCTTTGACT
 CTCAGAACAACCCGTACTTTGACGGGAAGTATGCGAGCCCGATGCTTCAAGTCCCTAGGTTGTGA
 AGACTTCATCAGCTTTGTGTTTGAATTTGGGAAGAGTTTGTGTTCTATGCACCTGACCGAAGACGAAATC
 GGGTATTTTCTGCATTCGACTGATGTGAGCGGATCGCTCGTGGCTTACGAAAAAGGTAATAAGAAA
 AGCTGCAACAGAAAATCAGCTGGCCCTCAGCACGTCCTACAGAAGAACCACCGAGAAGATGGAATTCT
 AACCAAGTAATATGCAAGGTGTCTACGTTAAGAGCCCTATGTGGACGACATACGAAAAGCTAATGGCA
 TTTAAAGCAATATACCCAGACATTGTGCGACTCCATTTCTCCATTATAACAAGGAATTGTTCACTTCAG
 AATTTGAGCCAGCCATGCAAATCGATGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR222298 representing NM_013646
 Red=Cloning site Green=Tags(s)

MESAPAAPDPAASEPGSSGSEAAAGSRETPLTQDTGRKSEAPGARRQSYASSSRGIVSVTKKTHTSQIEI
 IPCKICGDKSSGIHYGVITCEGCKGFFRRSQSNATYSCPRQKNCLIDRTSRNRCQHRLQKCLAVGMSR
 DAVKFGKMSKKQRDSLAEVQKHRMQQQRDHQQPGEAEPLTPTYNISANGLTELHDDLSTYMDGHTPE
 GSKADSAVSSFYLDIQSPDQSGLDINGIKPEPICDYTPASGFFPYCSFTNGETSPTVSMAELEHLAQNI
 SKSHLETQCQYLRLEELQQITWQTFLEEEIENYQNKQREVMWQLCAIKITEAIQYVVEFAKRIDGMELCQN
 DQIVLLKAGSLEVVFIRMCRAFDSQNNVYFDGKYASPDVFKSLGCEDFISFVFEFGKSLCSMHLTEDEI
 ALFSAFVMSADRSWLQEKVKIEKLQKIQQLALQHVLPQKNHREDGILTKLICKVSTLRALCGRHTEKLM
 FKAIYPDIVRLHFPLKELFTSEFEPAMQIDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9089_c10.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_013646

ORF Size: 1569 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.

RefSeq: [NM_013646.2](#), [NP_038674.1](#)

RefSeq Size: 10878 bp

RefSeq ORF: 1572 bp

Locus ID: 19883

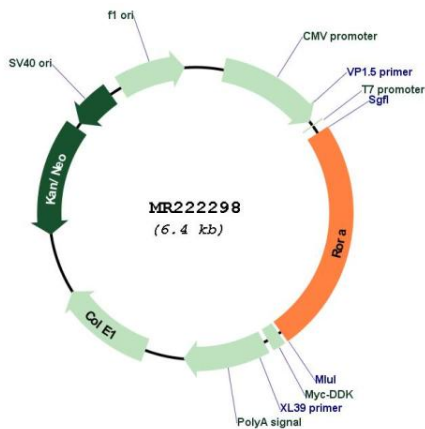
UniProt ID: [P51448](#)

Cytogenetics: 9 37.45 cM

MW: 58.8 kDa

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. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Feb 2014]

Product images:



Circular map for MR222298