

Product datasheet for **MR225771**

Rorb (NM_001043354) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rorb (NM_001043354) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rorb
Synonyms:	hstp; Nr1f2; Rorbeta; RZR-beta; RZRB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225771 representing NM_001043354
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGAGCACAAATTGAAGTGATACCATGCAAAATTTGTGGCGATAAATCCTCCGGGATCCACTACGGAG
 TCATCACGTGTGAAGGCTGCAAGGGATTCTTCAGGAGGAGCCAGCAGAACAATGCCTCTTACTCCTGCC
 AAGGCAGAGAAACTGTTTAATTGACAGAACCAACAGGAACCGTTGCCAACTGCCGCTGCAGAAGTGT
 CTTGCCCTAGGAATGTCAAGAGATGCTGTAAGTTTCGGGAGGATGTCCAAGAAGCAGCGGACAGCCTGT
 ATGCTGAGGTGCAGAAGCATCAGCAAAGGCTGCAGGAGCAGCGGCAGCAGAGTGGGGAGGCGGAGGC
 CCTCGCCAGGGTGTACAGCAGCAGCATTAGCAATGGCCTCAGCAACCTGAACACCGAGACCGCGGCACA
 TACGCCAACGGGCAGTCATTGACCTGCCCAAGTCCGAAGTTATTACAGCATAGATTCCGGTCAGCCGT
 CTCCCGATCAGTCAGGACTGGACATGACTGGGATCAAACAGATAAAGCAAGAACCTATCTATGACCTCAC
 ATCTGTACCCAATTGTTTACCTATAGCTCTTTCAACAACGGGCAGTTAGCTCCCGGATAACAATGTCT
 GAGATCGATCGAATTGCACAGAACATCATTAAAGTCCCATTGGAGACATGTCAGTACACCATGGAAGAAC
 TCCATCAGCTGGCATGGCAGACCCACACCTACGAGGAAATCAAGGCGTATCAAAGCAAGTCCAGGGAGGC
 TCTGTGGCAGCAGTGTGCCATCCAGATACCCATGCTATCCAGTACGTGGTGGAGTTCGCCAAGCGGATA
 ACAGGCTTCATGGAGCTGTGTCAGAACGATCAGATCTTACTTCTGAAGTCAGGTTGCTTGGAAAGTGGTTT
 TAGTGAGAATGTGTCGTGCCCTTCAACCCATTAACAACACTGTTCTGTTTGAAGGAAAATATGGAGGAAT
 GCAATGTTCAAAGCCTTAGGTTTCGGATGACCTAGTGAATGAAGCATTGACTTTGCCAAGAATCTGTGT
 TCCTTGCAGCTGACTGAGGAAGAGATTGCTCTGTTCTCCTCTGCTGTTCTGATATCCCAGACCGAGCCT
 GGCTGATCGAACCAAGAAAAGTCCAGAAGCTTCAGGAAAAGATTTATTTTGCAGTCAACATGTGATTCA
 GAAGAACCACCTGGATGATGAGACCCTGGCAAAGTTAATAGCCAAGATACCAACTATCACGGCAGTCTGC
 AACTTGATGGGAGAAGCTGCAGGTATTTAAGCAGTCTCATCCAGACATAGTGAATACACTGTTTCCTC
 CATTGTACAAGGAGCTCTTAATCCTGACTGTGCTGCGGTCTGCAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225771 representing NM_001043354
 Red=Cloning site Green=Tags(s)

MRAQIEVIPCKICGDKSSGIHYGVITCEGCKGFFRRSQNNASYSQPRQRNCLIDRTNRRNCQHRLQKC
 LALGMSRDAVKFGRMSKKQRDSL YAEVQKHQRLQEQRQQSGEAEALARVYSSISNGLSNLNTETGGT
 YANGHVIDLPKSEGYYSIDSGQSPDQSGLDMTGIKQIKQEPIDLTSPNLFYSSFNNGQLAPGITMS
 EIDRIAQNI IKSHLETQYTMELHQLAWQHTHYEEIKAYQSKSREALWQCAIQITHAIQYVVEFAKRI
 TGFMELCQNDQILLKSGCLEVVLVRCRAFNPLNNTVLFEGKYGMQMFKALGSDDLVNEAFDFAKNLC
 SLQLTEEEIALFSSAVLISPDRAWLIEPRKVQKLQEKIYFALQHVLIQKNHLDDETLAKLIAKIPTITAVC
 NLHGEKLVQFKQSHPDIVNTLFPPLYKELFNPDCAAVCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1165_d12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001043354

ORF Size: 1377 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_001043354.2](#), [NP_001036819.1](#)

RefSeq Size: 3330 bp

RefSeq ORF: 1380 bp

Locus ID: 225998

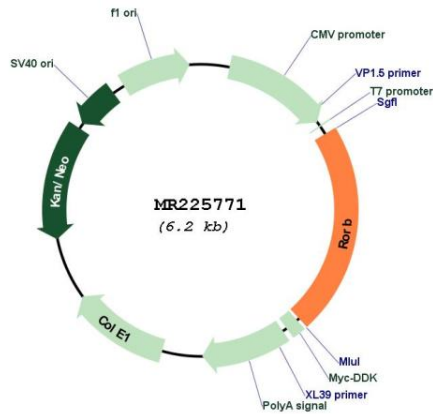
UniProt ID: [Q8R1B8](#)

Cytogenetics: 19 B

MW: 52.5 kDa

Gene Summary: The protein encoded by this gene is a member of the NR1 subfamily of nuclear hormone receptors. It is a DNA-binding protein that 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, and to help regulate the expression 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 MR225771