

## Product datasheet for **RR212568**

### **Rxra (NM\_012805) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rxra (NM_012805) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rxra
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR212568 representing NM\_012805  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGACACCAACATTTCTGCCGCTCGACTTCTCTACCCAGGTGAAGTCTTCATCCCTGAGCTCTCCAA  
 CGGGTCGAGGCTCCATGGCTGCCCCCTCGCTGCACCCCTCCCTGGGTCCAGGACTCGGCTCTCCTCTGGG  
 CCCCCCTGGGCAGCTGCACTCGCCTATCAGCACCTGAGTTCTCCCATCAATGGCATGGGCCACCCCTTC  
 TCGGTCATCAGCTCCCCGATGGGCCCGCACTCCATGTCGGTACCCACCACACCCACTGGGCTTCGGGA  
 CTGGCAGCCCCAGCTCAACTACCCATGAACCCCGTGCAGCAGTGGAGATATCAAACCCCTCTAGG  
 CCTCAATGGCGTCTCAAGTTCTGCCACCCCTCAGGAAATATGTCATCCTTACCAAGCACATCTGC  
 GCTATCTGTGGGACCGCTCCTCAGGCAAACACTATGGGGTCTACAGCTGTGAGGGCTGCAAGGGCTTCT  
 TCAAGAGGACAGTACGCAAAGACCTGACCTACACCTGCCGTGACAACAAGGACTGCCTGATCGACAAGAG  
 ACAGCGGAACCGGTGTCAGTACTGCCGATACCAGAAGTGCCTGGCCATGGGCATGAAGCGGGAAGCCGTG  
 CAGGAGGAGCGGAGCGAGGCAAGGACCGGAACGAGAATGAGGTGGAGTCCACCAGCAGTGCCAACGAGG  
 ACATGCCTGTAGAGAAGATTCTGGAAGCTGAGCTCGCTGTTGAGCCCAAGACTGAGACATACGTGGAGGC  
 AAACATGGGGCTGAACCCAGCTCACAAATGACCCTGTTACCAACATCTGTCAAGCAGCAGACAAGCAG  
 CTCTTCACTCTTGTGGAGTGGGCCAAGAGGATCCACACTTTTCTGAGCTGCCCTGGACGACCAGGTCA  
 TCCTCCTCCGGGCAGGCTGGAACGAGCTGCTGATTGCCTCCTTCTCCACCGCTCCATAGCTGTAAAGA  
 CGGCATCTCTGGCCACCGCCTGCACGTACACAGGAACAGCGCTCACAGTGTGGGTGGGCCCATC  
 TTTGACAGGTGCTAACGGAGCTGGTGTGAAGATGCGTGACATGCAGATGGACAAGACGGAGCTGGGCT  
 GCTTGCAGCGCATTTGCTCTTCAACCCCTGACTCTAAGGGCTCTCAAACCCCTGAGGTGGAGGCGCT  
 GAGGGAGAAGGTGTATGCATCACTAGAAGCGTACTGCAAACACAAGTACCCTGAGCAGCGGGCAGGTTT  
 GCCAAGCTGCTGCTCCGGCTGCCTGCACTGCGATCCATTGGGCTCAAGTGCCTGGAGCACCTGTTCTTCT  
 TCAAGCTCATCGGGATACCCATCGACACTTCTCATGGAGATGCTGGAGGCCCCACATCAAACCAC  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR212568 representing NM\_012805  
 Red=Cloning site Green=Tags(s)

MDTKHFLPLDFSTQVNSSSLSSPTGRGSMAPSLHPSLGPGLGSPQLHSPISTLSSPINGMGPPF  
 SVISSPMGPHMSVPTTPTLGFGTGSPQLNSPMNPVSSSEDIKPLGLNGLVKVPAHPSGNMSSFTKHIC  
 AICGDRSSGKHVYVYSCEGCKGFFKRTVRKDLTYTCRDNDCLIDKRQRNRCQYCRYQKCLAMGMKREAV  
 QEERQRGKDRNENEVESTSSANEDMPVEKILEAELAVEPKTETYVEANMGLNPSSPNDPVTNICQAADKQ  
 LFTLVEWAKRIPHFSELPLDDQVILLRAGWNELLIASFSHRSAIVKDGILLATGLHVHRNSAHSAGVGAI  
 FDRVLTTELVS KM RDMQMDKTELGLRAIVLFNPD SKGLSNPAEVEALREKVYASLEAYCKHKYEQPGRF  
 AKLLLRLPALRSIGLKCLEHLFFFKLIGDTPIDTFLMEMLEAPHQTT

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

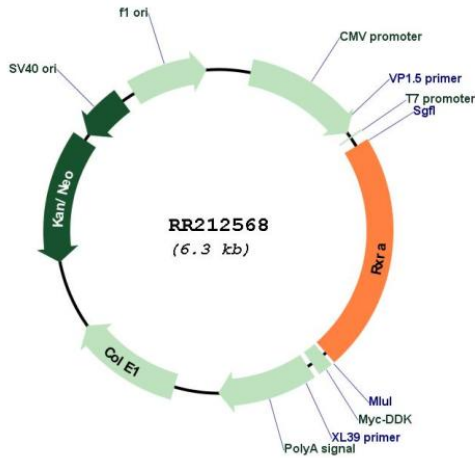
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_012805  
 ORF Size: 1401 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_012805.2](#), [NP\\_036937.2](#)

**RefSeq Size:** 1404 bp

**RefSeq ORF:** 1404 bp

**Locus ID:** 25271

**Cytogenetics:** 3p12

**MW:** 51.2 kDa

**Gene Summary:** displays 9-cis retinoic acid-dependent binding to transcription factor GATA-4 and corepressor FOG-2; regulates cardiac gene expression [RGD, Feb 2006]