

## Product datasheet for **RR212399**

### **Antxr1 (NM\_001044249) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Antxr1 (NM_001044249) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Antxr1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR212399 representing NM\_001044249  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCCCACGGACGCCAGCGAGGCCAGCGCTCCAGCTGCAGCATGGACCGCGGGGCGCCTGGGCACGG  
 GCCTGCGGGGACTCTGCGTGGCTGCGCTCGTGCTCGTGTGCGCCGACAAGGGGGCCGCCGAGAGGACGG  
 GGGACCAGCTTGCTACGGGGGATTTCGACCTCTACTTCATCCTAGACAAGTCAGGAAGCGTCTGCACCCAC  
 TGGAAATGAGATCTACTACTTTGTGGAGCAGCTGGCTCATAGATTCATCAGCCACAGCTAAGGATGTCTT  
 TCATTGTCTTTTCTACTCGAGGGACAATTTAATGAAACTAACTGAGGACAGGGAACAGATCCGGCAAGG  
 CCTCGAGGAGCTCCAGAAGGTTCTGCCAGGAGGAGACACTTACATGCATGAAGGATTCGAGAGGGCCAGT  
 GAGCAGATTTACTACGAGAACAGTCAAGGATACAGGACAGCAAGTGTATCATTGCTCTGACGGATGGGG  
 AGCTGCACGAGGACCTCTTCTTCTATTCGGAGAGGGAGGCTAACAGATCCCGAGACCTTGGCGCGATCGT  
 CTACTGCGTTGGCGTGAAGGATTTCAATGAAACTCAGTTGGCTCGGATTGCAGACAGTAAGACCACGTC  
 TTTCTGTGAATGACGGCTTCCAGGCTCTCCAGGCATCATCCACTCGATTTTAAAGAAATCCTGCATTG  
 AAATTCTAGCAGCTGAACCTCCACCATCTGCGCAGGGGAGTCCCTTCAAGTGGTTGTGAGAGGAAATGG  
 CTTTCGACACGCCCGAATGTGGACAGGGTCTCTGCAGCTTCAAATCAACGATTTCGGTTACACTCAAT  
 GAGAAGCCCTTTGCTGTAGAAGATACTTACTTGTGTGCCCAGCACCAATCTTAAAGAAGTTGGCATGA  
 AGGCTGCACTGCAGGTGAGCATGAATGACGGCCTGTCTTTCATCTCCAGCTCCGTATCATCACCACCAC  
 ACACTGTTGAGACGGCTCCATCCTGGCGATTGCTCTGCTGATCCTTCTCTGCTGCTGGCCCTGGCGCTG  
 CTCTGGTGGTTCTGGCCCTCTGCTGCACAGTATCATTAAAGGAGTCCCTCCACCCCGGTTGAGGAGA  
 GTGAGGAAGAAGACGATGATGGTTTGCACAAAGAAGAAATGGCCACGGTAGACGCCTCTTACTACGGTGG  
 ACGAGGTGTTGGAGGCATTAAGAAGATGGAGTTTCGCTGGGAGAAAAGGGCTCCACAGAAGAAGGGGCG  
 AAGCTAGAAAAGCAAAGAACGCAAGAGTCAAGATGCCTGAGCAGGAGTATGAGTTCGGGAACCTCGGA  
 ACCTCAACAACAACATGCGCCGGCCTTCGTCACCCCGGAAGTGGTACTCCCCATCAAGGAAAACTCGA  
 TGCCTTGTGGTTCTGCTGAGAAAAGGGTATGATCGAGTGTCTGTGATGAGGCCACAGCCGGGAGACACG  
 GGGCGTGTATCAACTTCACCAGAGTGAAGAACAGTCAACCAGCCAAGTATCCCCCAACAACCTGTACC  
 ACTCCAGCTCCCCGCTCCCGCTCCCATCTACACACCCCAACCCCTGCTCCCCACTGCCCTCCCCCAGC  
 CCCCAGTCCCCCACTCCTCCATCCCTCCCCACCCCTCACTCTACCCCTCCTCTCAGGCTCCACCC  
 CCTAACAGGGCACACCCCTCCGACCTCTCCAAGACCTTCTGTC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR212399 representing NM\_001044249  
 Red=Cloning site Green=Tags(s)

MSHGRQRGQRSSCSMDRAGRLGTGLRGLCVAALVLCAGQGGRRDGGPACYGGFDLYFILDKSGSVLHH  
 WNEIYYFVEQLAHRFISPQLRMSFIVFSTRGTTLMKLTEDREQIRQGLEELQKVLPGGDYMHGFERAS  
 EQIYYENSQGYRTASVIALTDGELHEDLFFYSEREANRSRDLAGAIVYCVGVKDFNETQLARIADSKDHV  
 FPVNDGFQALQGIHHSILKKSCIEILAAEPSTICAGESFQVVVRGNGFRHARNVDRVLCSEKINDSVTLN  
 EKPFAVEDTYLLCPAPILKEVGMKAALQVMNDGLSFISSSVITTTTHCSDGSILAIALLILFLLLALAL  
 LWWFWPLCCTVIKEVPPPPVEESEEEDDGLPKKKWPTVDASYGGRGVGGIKRMEVVRWGEKGSTEEGA  
 KLEKAKNARVKMPEQEYEFPEPRNLNNMRRPSSPRKWYSPIKGLDALWVLLRKYDRVSVMPQPQGD  
 GRCINFTRVKNSQPAKYPLNNSYHSSPPPAPIYTPPPPAHPCPPAPSAPTPIPSPPSTLPPPPQAPP  
 PNRAPPSRPPRPSV

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

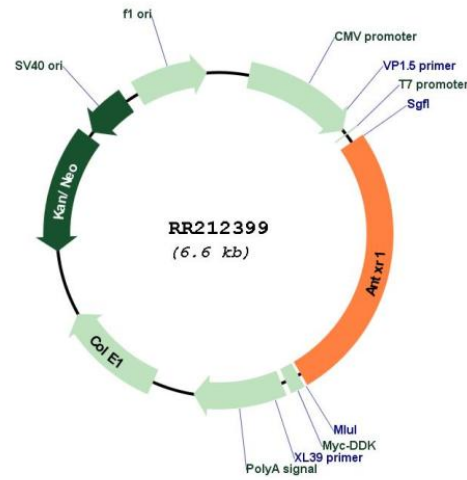
## Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN:

NM\_001044249

<b>ORF Size:</b>	1728 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001044249.2</a> , <a href="#">NP_001037714.1</a>
<b>RefSeq Size:</b>	3384 bp
<b>RefSeq ORF:</b>	1731 bp
<b>Locus ID:</b>	362393
<b>UniProt ID:</b>	<a href="#">Q0PMD2</a>
<b>Cytogenetics:</b>	4q34
<b>MW:</b>	63.9 kDa
<b>Gene Summary:</b>	<p>Plays a role in cell attachment and migration. Interacts with extracellular matrix proteins and with the actin cytoskeleton. Mediates adhesion of cells to type 1 collagen and gelatin, reorganization of the actin cytoskeleton and promotes cell spreading. Plays a role in the angiogenic response of cultured umbilical vein endothelial cells (By similarity). [UniProtKB/Swiss-Prot Function]</p>