

Product datasheet for **RN212399**

Antxr1 (NM_001044249) Rat Untagged Clone

Product data:

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



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Fully Sequenced ORF: >RN212399 representing NM_001044249
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCACGGACGCCAGCGAGGCCAGCGCTCCAGCTGCAGCATGGACCGCGGGGCGCCTGGGCACGG
 GCCTGCGGGGACTCTGCGTGGCTGCGCTCGTGCTCGTGTGCGCCGACAAGGGGGCCGCCGAGAGGACGG
 GGGACCAGCTTGCTACGGGGGATTTCGACCTCTACTTCATCCTAGACAAGTCAGGAAGCGTCTGCACCCAC
 TGGAAATGAGATCTACTACTTTGTGGAGCAGCTGGCTCATAGATTCATCAGCCACAGCTAAGGATGTCTCT
 TCATTGTCTTTTCTACTCGAGGGACAATTTAATGAAACTAACTGAGGACAGGGAACAGATCCGGCAAGG
 CCTCGAGGAGCTCCAGAAGGTTCTGCCAGGAGGAGACACTTACATGCATGAAGGATTCGAGAGGGCCAGT
 GAGCAGATTTACTACGAGAACAGTCAAGGATACAGGACAGCAAGTGTATCATTGCTCTGACGGATGGGG
 AGCTGCACGAGGACCTCTTCTTCTATTCGGAGAGGGAGGCTAACAGATCCCGAGACCTTGGCGCGATCGT
 CTACTGCGTTGGCGTGAAGGATTTCAATGAAACTCAGTTGGCTCGGATTGCAGACAGTAAGGACCACGTC
 TTTCTGTGAATGACGGCTTCCAGGCTCTCCAGGGCATCATCCACTCGATTTTAAAGAAATCCTGCATTG
 AAATTCTAGCAGCTGAACCTCCACCATCTGCGCAGGGGAGTCCCTTCAAGTGGTTGTGAGAGGAAATGG
 CTTTCGACACGCCCGCAATGTGGACAGGGTCTCTGCAGCTTCAAATCAACGATTTCGGTTACACTCAAT
 GAGAAGCCCTTTGCTGTAGAAGATACTTACTTGTGTGCCAGCACCAATCTTAAAGAAGTTGGCATGA
 AGGCTGCACTGCAGGTGAGCATGAATGACGGCCTGTCTTTCATCTCCAGTCCCGTATCATCACCACCAC
 AACTGTTGAGACGGCTCCATCCTGGCGATTGCTCTGCTGATCCTTCTCTGCTGCTGGCCCTGGCGCTG
 CTCTGGTGGTTCTGGCCCTCTGCTGCACAGTATCATTAAAGGAGTCCCTCCACCCCGGTTGAGGAGA
 GTGAGGAAGAAGACGATGATGGTTTGCCTAAAGAAGAAATGGCCACGGTAGACGCCTTTACTACGGTGG
 ACGAGGTGTTGGAGGCATTAAGAAGTGGAGGTTGCTGGGAGAAAAGGGCTCCACAGAAGAAGGGGCG
 AAGCTAGAAAAGGCAAAGAACGCAAGAGTCAAGATGCCTGAGCAGGAGTATGAGTTCCTCGAACCTCGGA
 ACCTCAACAACAACATGCGCCGGCCTTCGTCCTCCCGGAAGTGGTACTCCCCATCAAGGAAAACTCGA
 TGCCTTGTGGTTCTGCTGAGAAAAGGGTATGATCGAGTGTCTGTGATGAGGCCACAGCCGGGAGACACG
 GGGCGCTGTATCAACTTCACCAGAGTGAAGAACAGTCAACCAGCCAAGTATCCCCTCAACAACCTGTACC
 ACTCCAGTCCCCGCTCCCGCTCCCATCTACACACCCCAACCCCTGCTCCCCACTGCCCTCCCCCAGC
 CCCCAGTCCCCCACTCCTCCATCCCTCCCCACCTCCACTTACCCCTCCTCCTCAGGCTCCACCC
 CCTAACAGGGCACACCCCTCCGACCTCTCCAAGACCTTCTGTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1912_b03.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001044249

Insert Size: 1731 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 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](#)

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_001044249.2](#), [NP_001037714.1](#)

RefSeq Size: 3384 bp

RefSeq ORF: 1731 bp

Locus ID: 362393

UniProt ID: [Q0PMD2](#)

Cytogenetics: 4q34

Gene Summary: 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]