

## Product datasheet for **RN202243**

### Ahr (NM\_013149) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ahr (NM_013149) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ahr
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >RN202243 representing NM\_013149  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGCAGCGCGCCAACATCACCTATGCCAGCCGAAGCGGCGCAAGCCGGTGCAGAAAACAGTAAAGC  
 CCGTCCCTGCTGAAGGAATTAAGTCGAACCCCTTCTAAACGACACAGAGACCGGCTGAACACAGAGTTAGA  
 CCGCCTGGCTAGCCTGCTGCCCTTCCCACAAGATGTTATTAGTAAGCTGGACAAACTCTCCGTTCTAAGG  
 CTCAGCGTCAGCTACCTGAGGGCCAAGAGCTTCTTTGATGTTGCATTAATAATCCACCCCGGCTGACAGAA  
 GTAGAGGCCAGGACCAGTGTAGAGCACAAGTCAGAGACTGGCAGGACTTGAAGAAGGAGAGTTCTTGTT  
 ACAGGCGCTGAATGGCTTTGTTCTGTTGTACGGCAGATGCCTTGGTCTTCTATGCGTCTTCCACTATC  
 CAAGATTACCTGGGCTTTCAGCAATCTGATGTCATACATCAGAGCGTGTATGAGCTTATCCATACAGAAG  
 ACCGAGCTGAGTTCAGCGCCAGCTTCACTGGGCTCTAAACCCCTCACAGTGCACAGACTCTGCACAAGG  
 AGTAGACGAGACTCATGGCTCCACAGCCAGCGGTCTACTACAGCCAGACCAGCTTCCCTCAGAGAAT  
 ACCGCTTTCATGGAGAGGTGCTTCAGATGCCGGCTGAGGTGCCTGCTGGATAATTCATCTGGTTTCTCGG  
 CAATGAATTTCCAAGGGAGGTTAAAGTATCTTCATGGACAGAACAAGAAAGGAAAGACGGAGCGCTACT  
 CCCTCCACAGTTGGCTTTGTTTGAATAGCTACTCCACTTCAGCCACCGTCCATCCTGGAATTCGAACC  
 AAAAATTTCATCTTCAGGACCAACACAAACTGGACTTCACACCTATTGGCTGTGATGCCAAAGGGCAGC  
 TTATTCTGGGCTACACAGAAGTAGAGCTGTGCAACAAAGGATCGGGATATCAGTTTATCCACGCCGCTGA  
 CATGCTTCACTGCGCAGAATCCACATCCGCATGATTAAGACTGGAGAAAGTGGCATGACAGTTTTCCGG  
 CTTCTTGCAAAACACAGTCGATGGAGGTGGTCCAGTCCAATGCACGCTTGATTTACAGAAATGGAAGAC  
 CAGATTACATCATCGCAACTCAGAGACCGCTAACGGATGAAGAAGGACCGCAACATTTACAGAAGAAAG  
 TATGACACTGCCATTCATGTTTGGCACTGAAAAGGCTGTACTGTACGAGATCTCCAGCCCTTCTCTCCC  
 ATAATGGATCCCTTGCCAATACGCACCAAAAGCAACACTAGTAGGAAAGACTGGGCTCCCCAGTCAACCC  
 CGAGTAAGGATCTTCCACCCCAATCCCTTATGAGTGCCTTGATCCAACAGGACGAGTCCATCTATCT  
 CTGTCTCCTTCGAGCCCCGACCATTAGACAGCCATTTTCTCATGGACTCCATGAGTGTGCGGCAGT  
 TGGCAAGGACGCTTTCAGCCGCAAGCAATGAAGCTCTGCTGAAACACGAGGAAATCAGACACACTCAGG  
 ACGTGAACCTTACTCTCTGGAGGCCCTCGGAGCTTCTCCAGATAATAAAAAAATGACTTGTATAG  
 CATCATGAGAAACCTAGGGATCGATTTCAAGACATCAGAAGCATGCAGAATGAGGAGTTCTTCCGAACC  
 GACTCCTCCGGTGAGTTGACTTCAAAGACATCGACATAACAGACGAAATCCTGACGTACGTGCAGGATT  
 CTCTGAACAATCAACTCTGCTGAATTCAGCTTGCCAGCAACAGCCTGTGAGCCAGCACCTAAGCTGCAT  
 GCTGCAGGAGCGCTGCAGCTGGAGCAACAACAGCAGCTTCAGCAGCAGCACCCCACTCAGACACTGGAG  
 CCCCAGCGCCAGTTGTGTGAGTGGAGGTCCCCAGCAGCAGCTGGGTGAGAAAACGAAGCACATGCAAG  
 TCAATGGCATGTTGCGCCAGTTGGAACCTGCCCTCCCCTGCTTTCAGCTGTCTCAGCAGGAACGAAA  
 GCACTATAGCCTTCTCCGGCTTACAGGGGACTGCACAGGAGTTCCCTACAAGTCAGAGGTGGACAGT  
 ATGCCTTACACACAGAATTTGCTCCCTGCAACCAGTCACTGCTACCAGAACATTCGAAGGTACACAGT  
 TGGACTTCCCTGGAAGGGATTTTGAACGATCCCTGCACCCTAACGCTTCTAATTTAGAAGACTTTGTCAG  
 TTGTTTACAAGTTCCTGAAAACCAAGACACGGGATAAACTCACAGTCAGCCATGGTCAGTCTCAGGGC  
 TACTACGCTGGGGCCATGTCATGTACCAGTGCCAGGCAGGGCCCTCAGCACACCCCTGTGGACCAGATGC  
 AGTACAGCCCTGAGATTCAGGCTCCCAGGCGTTCCTAAGCAAGTTTTCAGAGTCCGAGCATTTTAAATGA  
 AGCCTACTCGGCAGACTTGTAGCAGCATTGGCCACCTTCAGACTGCTGCTCACCTCCCTCGCTGGCAGAA  
 GCCCAGCCTTCTCTGATATCACACCCAGCGGATTCCT**GTAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_013149  
**Insert Size:** 2562 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](#)

**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\\_013149.3](#), [NP\\_037281.3](#)

**RefSeq Size:** 5144 bp

**RefSeq ORF:** 2562 bp

**Locus ID:** 25690

**Cytogenetics:** 6q16

**Gene Summary:** binds 3-methylcholanthrene and other aromatic hydrocarbons; may play a role in bone formation [RGD, Feb 2006]  
 Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.