

Product datasheet for **MC221747**

Ahr (NM_013464) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ahr (NM_013464) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ahr
Synonyms:	A; Ah; Ahh; Ahre; bHLHe7; bHLHe76; In
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221747 representing NM_013464
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAGCGCGCCAACATCACCTATGCCAGCCGAAGCGGCGCAAGCCGGTGCAGAAAACAGTAAAGC
 CCATCCCCGCTGAAGGAATTAAGTCAAATCCTTCTAAGCGACACAGAGACCGGCTGAACACAGAGTTAGA
 CCGCCTGGCCAGCCTGCTGCCCTTCCCGCAAGATGTTATTAATAAGCTGGACAAACTCTCTGTTCTTAGG
 CTCAGCGTCAGCTACCTGAGGGCCAAGAGCTTCTTTGATGTTGCATTAAGTCCACCCCTGCTGACAGAA
 ATGAGGGCCAGGACCAAGTGTAGAGCACAAATCAGAGACTGGCAGGATTTGCAAGAAGGAGAGTTCTTGTT
 ACAGGGCGTGAATGGCTTTGTGCTGGTTGTACAGCAGATGCCTTGGTCTTCTATGCTTCTCCACTATC
 CAAGATTACCTGGGCTTTCAGCAGTCTGATGTCATCCATCAGAGCGTATATGAGCTCATCCATACAGAAG
 ACCGGGCGGAATTCAGCGCCAGCTTCACTGGGCTCTAAACCCAGACTCTGCACAAGGAGTGGACGAAGC
 CCATGGCCCTCCACAGGCAGCAGTCTATTATACCCAGACCAGCTTCTCCAGAGAACGCTTCTTTTCATG
 GAGAGGTGCTTACAGTGCAGGCTGAGGTGCCTGCCTGGATAAATTCATCTGGTTTTCTGGCAATGAATTTCC
 AAGGGAGGTTAAAGTATCTTCATGGACAGAACAAGAAAGGGAAGGACGGAGCGCTGCTTCTCCACAAC
 GGCTTTGTTTGAATAGCTACTCCACTTCAGCCACCCTCCATCCTGGAATTCGAACAAAAACTTCATC
 TTCAGGACCAACACAAGCTAGACTTCACACCTATTGGTTGTGATGCCAAAGGGCAGCTTATTCTGGGCT
 ATACAGAAGTAGAGCTGTGCACAAGAGGATCGGGTACCAGTTCCATCCATGCTGCAGACATACTTCACTG
 TGCAGAATCCACATCCGCATGATTAAGACTGGAGAAAGTGGCATGACAGTTTTCCGGCTTCTTGCAAAA
 CACAGTCGCTGGAGTGGTCCAGTCCAATGCACGCTTGATTTACAGAAATGGAAGACCAGATTACATCA
 TCGCCACTCAGAGACCAGTGCAGGATGAAGAAGGACGAGAGCATTACAGAAGCGAAGTACGTCCGTGCC
 CTTTCATGTTTGTACCGGAGAGGCTGTGTTGTACGAGATCTCCAGCCCTTCTCTCCATAATGGATCCC
 CTACCAATACGCACCAAAAGCAACACTAGCAGGAAAGACTGGGCTCCCCAGTCAACCCCAAGTAAGGATT
 CTTTCCACCCAGTTCTTATGAGTGCCTCATCCAGCAGGATGAGTCCATCTATCTGTGCTCCTCCTTC
 AAGCCCTGCGCTGTAGACAGCCATTTTCTCATGGGCTCCGTGAGCAAGTGCAGGAGTTGGCAAGACAGC
 TTTGCGGCCGAGGAAGTGGGCTGCGCTGAAACATGAGCAAATGGCCATGCTCAGGACGTGAACCTTG
 CACTCTCTGGCGGCCCTCAGAGCTCTTCCGGATAATAAAAAAATGACTTGTACAGCATCATGAGGAA
 CCTTGGGATTGATTTGAAGATATCAGAAGCATGCAGAACGAGGAGTTCTTCAGAACTGACTCCACCGCT
 GCTGGTGAAGTTGACTTCAAAGACATCGACATAACGGACGAAATCCTGACCTACGTGCAGGATCCCTGA
 ACAATTCAACTTTGCTGAACTCGGCTTGCCAGCAGCAGCCTGTGACTCAGCACCTAAGCTGTATGCTGCA
 GGAGCGCCTGCAACTAGAGCAACAGCAACAGCTTCAGCAGCCCCGCGCAGGCTCTGGAGCCCCAGCAG
 CAGCTGTGTCAGATGGTGTGCCCCAGCAAGATCTGGGTCGAAGCACACGCAAAATCAACGGCACGTTTG
 CAAGTTGGAACCCACCCCTCCCGTGTCTTTCAACTGTCCCAGCAGGAACTAAAGCACTATCAGCTCTT
 TTCCAGCTTACAGGGGACTGCTCAGGAATTTCCCTACAAACCAGAGGTGGACAGTGTGCCTTACACACAG
 AACTTTGCTCCCTGTAATCAGCCTCTGCTTCCAGAACATTCAGAGTGTGCAGTTGGACTTCCCTGGAA
 GGGATTTGAACCGTCCCTGCATCCCACTACTTCTAATTTAGATTTTGTGAGTTGTTACAAGTTCTGTA
 AAACCAAAGTCATGGGATAAACTCACAGTCCGCCATGGTCAGTCCCTCAGGCATACTATGCTGGGGCCATG
 TCCATGTATCAGTGCCAGCCAGGGCCACAGCGCACCCCTGTGGACCAGACGCAGTACAGCTCTGAAATTC
 CAGGTTCTCAGGCATTCTAAGCAAGGTGCAGAGT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_013464
Insert Size: 2418 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_013464.4](#), [NP_038492.1](#)

RefSeq Size: 5494 bp

RefSeq ORF: 2418 bp

Locus ID: 11622

UniProt ID: [P30561](#)

Cytogenetics: 12 15.78 cM

Gene Summary: The protein encoded by this gene is a ligand-activated helix-loop-helix transcription factor involved in the regulation of biological responses to planar aromatic hydrocarbons. This receptor has been shown to regulate xenobiotic-metabolizing enzymes such as cytochrome P450. Before ligand binding, the encoded protein is sequestered in the cytoplasm; upon ligand binding, this protein moves to the nucleus and stimulates transcription of target genes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]
 Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).