

Product datasheet for **SC318200**

AHRR (NM_020731) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AHRR (NM_020731) Human Untagged Clone
Tag:	Tag Free
Symbol:	AHRR
Synonyms:	AHH; AHHR; bHLHe77
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_020731 edited
 ATGCCGAGGACGATGATCCCGCCGGGGAGTGCACGTACGCGGGCCGGAAGCGGAGGAGG
 CCCCTGCAGAAACAGAGGCCCGCGTGGGGGCAGAGAAGTCCAACCCCTCCAAGCGACAC
 CGGGACCGCCTCAACGCCGAGTTGGACCACCTGGCCAGCCTGCTGCCGTTCCCGCCTGAC
 ATCATCTCAAGCTGGACAAGCTTTCTGTCTGCGCCTCAGTGTACAGTTACCTCCGGGTG
 AAGAGCTTCTTCAAGTCGTGCAGGAGCAGAGCTCACGGCAGCCTGCGGCCGGCGCCCC
 TCGCCCCGAGACAGCTGTCTCTTGCAGGGTCTGCCGTGCTGGAGGGAAGGCTGCTGTTG
 GAGTCTCTTAATGGCTTTGCTCTGGTCGTGAGTGCAGAAGGGACGATATTTTATGCATCA
 GCAACGATCGTGGACTATCTGGGCTTCCATCAGACGGATGTAATGCACCAGAACATTTAT
 GACTACATCCACGTGGACGACCGCCAGGACTTCTGCCGCGAGCTCCACTGGGCCATGGAC
 CCTCCCCAGTGGTGTGGGACGCCCCGCCCTTGGAGACAGGAGATGATGCTATCCTG
 GGGAGGCTGCTCAGGGCCAGGAGTGGGGCACAGGCACGCCACCGAGTACTCGGCCTTC
 CTGACCCGCTGCTTCATCTGCCGTGTGCGCTGCCTGCTGGACAGCACCTCGGGCTTCCTG
 GCCCGGGGTACAGGCTTGGCAGCTGCGGCTCTGCTGTCCCAGCCACTCATGACGATG
 CAGTTTCAAGGAAAATAAAATTCCTGTTTGGACAGAAGAAGAAGCGCCGTCAGGAGCC
 ATGCTCCCGCCGGCTGTGCTGTTCTGCATTGCGGCACCCGTTCTCCTCCCCTCCGCA
 GCGGAGATGAAAATGAGGAGCGCCTCCTGAGGGCAAAACCCAGAGCAGACACCGCAGCC
 ACCGCGGATGAAAAGTAAAAGCCACCACAGTCTGTGCGAATCGGAACTGCATGAAAAA
 CCCAATTACTCAGCAGGAAGGAGCAGCAGAGAGAGCGCGTTTTTGGTGTCTAGGGAACAG
 ACTGACGCTGGCCGATGGGCACAGGTTCCCGCCAGGGCCCCATGCCTGTGCCTCCGGGT
 GGCCCTGACCTTGTCTTGAACCAAGGGGGCTCAGGGGACAGGGAGGAGGAGCAGCAC
 AGGATGCTGAGCAGGGCCTCTGGAGTGACAGGGCGGAGGAGACTCCAGGACCCACAAG
 CCCCTGCCCTGGACAGCGGAAAGCACAGTGAGGATGGTGCCAGGCCGAGGCTGCAGCCC
 AGCAAGAATGACCCGCCCTCCCTGCGCCCCATGCCCGCGGCTCCTGCCTGCCCTGCCCG
 TGTGTCCAGGGCACTTTAGGAACTCGCCCATCTCTACCCGCCGAGCCCGTCCCCCAGT
 GCCTACTCCAGCCGACAGCAGACCCATGCGGGATGTCGGTGAGGACCAGGTGCACCCT
 CCCCTCTGCCACTTTCCCGAGAGGAGCCTGCAGCACCAGCTCCCTCAGCCTGGAGCTCAG
 CGTTTTGCCACGAGGGGCTATCCCATGGAGGACATGAAGCTGCAAGGTGTACCGATGCCT
 CCGGGGGACCTGTGTGGTCCGACGCTGCTGCTAGATGTGTCCATCAAGATGGAGAAGGAC
 TCTGGGTGTGAGGGTGTGCAGACGGCTGTGTGCCAGCCAGGTGTGGCTGGGGGCCAGT
 GACAGGAGCCACCAGCCACCTTCCTACCAGGATGCACCTGAAAACAGAGCCAGACTCT
 CGGCAACAGGTGTACATCTCGCACCTGGGGCACGGCGTGCGGGGGCTCAGCCCCATGGG
 AGGGCCACTGCTGGGCGCAGCAGGGAGTGACCCCTTTCACCCTGCACACTGTGCCTGC
 CTGGAGCCACAGACGGCCTTCCCAGTCGGAGCCTCCCACCAGCTCTGTGCACGGGGC
 CGAGGTGAACAGTCTGCACCTGCAGAGCTGCTGAGGCCGCCCTGTGGTCAAGCGGGAG
 CCCTTGGACTACCCAGTGGGCTACTCACAGCCAGGGAATGGTGCCCGGGATGTTGCC
 AAAAGTGCCTTGGCCACGCTGGTCCCGCCCAAGCTTCGGGGTGCACATTCTGCCATAG

Restriction Sites: Please inquire

ACCN: NM_020731

Insert Size: 2200 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](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_020731.3](#), [NP_065782.2](#)

RefSeq Size: 5661 bp

RefSeq ORF: 2160 bp

Locus ID: 57491

UniProt ID: [A9YTQ3](#)

Cytogenetics: 5p15.33

Domains: PAS, HLH

Protein Families: Druggable Genome, Transcription Factors

Gene Summary:

The protein encoded by this gene participates in the aryl hydrocarbon receptor (AhR) signaling cascade, which mediates dioxin toxicity, and is involved in regulation of cell growth and differentiation. It functions as a feedback modulator by repressing AhR-dependent gene expression. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jun 2011]

Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.