

## Product datasheet for **RC234741**

### AHRR (NM\_001242412) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AHRR (NM_001242412) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AHRR
Synonyms:	AHH; AHHR; bHLHe77
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC234741 representing NM\_001242412  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGAGGACGATGATCCCGCCGGGGAGTGCACGTACGCGGGCCGGAAGCGGAGGAGGCCCTGCAGA  
 AACAGAGGCCCGCGTGGGGCAGAGAAGTCCAACCCCTCCAAGCGACACCGGGACCGCCTCAACGCCGA  
 GTTGACCACCTGGCCAGCCTGTGCGCTTCCCGCTGACATCATCTCCAAGCTGGACAAGCTTTCTGTC  
 CTGCGCCTCAGTGTAGTTACCTCCGGGTGAAGAGCTTCTTCCAAGTCGTGCAGGAGCAGAGCTCACGGC  
 AGCCTGCGGCCGGCGCCCTCGCCGGAGACAGCTGTCTCTTGCAGGGTCTGCCGTGTGGAGGGAAG  
 GCTGCTGTTGGAGTCTCTTAATGGCTTTGCTCTGGTCTGAGTGCAGAAGGACGATATTTTATGCATCA  
 GCAACGATCGTGGACTATCTGGGCTTCCATCAGACGGATGTAATGCACCAGAACATTTATGACTACATCC  
 ACGTGGACGACCGCAGGACTTCTGCCGACAGTCCACTGGGCCATGGACCCTCCCAGGTGGTGTGG  
 GCAGCCCCGCCCTTGGAGACAGGAGATGATGCTATCCTGGGGAGGCTGCTCAGGGCCCAGGAGTGGGGC  
 ACAGGCACGCCACCGAGTACTCGGCCTTCTGACCCGCTGCTTCACTGCGGTGTGCGCTGCCTGCTGG  
 ACAGCACCTCGGGCTTCTGACGATGCAGTTTCAAGGAAAATAAAATTCCTGTTTGGACAGAAGAGAA  
 GGCGCCGTGAGGACCATGCTCCCGCCGCGGTGTGCTGTTCTGCATTGCGGCACCCGTTCTCCTCCCC  
 TCCGCAGCGGAGATGAAAATGAGGAGCGCGCTCCTGAGGGCAAAACCCAGAGCAGACCCGACGCCACCG  
 CGGATGCAAAAGTAAAAGCCACCACAGTCTGTGCGAATCGGAACTGCATGGAAAACCAATTAATCAGC  
 AGGAAGGAGCAGCAGAGAGCGCGCTTTTGGTGTCTAGGGAACAGACTGACGCTGGCCGATGGGCACAG  
 GTTCCCAGGAGGCCCATGCCGTGCTCCCGGGTGGCCCTGACCTTGTCTTGACCCAAAGGGGGGCT  
 CAGGGGACAGGGAGGAGGAGCAGCAGGATGCTGAGCAGGGCCCTGAGAGTGACAGGGCGAGGGAGAC  
 TCCAGGACCCACAAAGCCCTGCCCTGGACAGCGGGAAAGCACAGTGAGGATGGTGCCAGGCCGAGGCTG  
 CAGCCCAGCAAGAATGACCCGCCCTCCCTGCGCCCATGCCCCGCGGCTCCTGCCTGCCCTGCCGTGTG  
 TCCAGGGCACTTTCAGGAACTCGCCATCTCTACCCGCGGAGCCGTCCTCCAGTGCCTACTCCAGCCG  
 GACCAGCAGACCCATGCGGGATGTGCGTGAGGACCAGGTGCACCCTCCCCTCTGCCACTTTCAGAGG  
 AGCCTGCAGCACCAGCTCCCTCAGCCTGGAGCTCAGCGTTTTGCCAGGAGGGCTATCCCATGGAGGACA  
 TGAAGCTGCAAGGTGTACCGATGCCTCCGGGGACCTGTGTGGTCCGACGCTGCTGCTAGATGTGCCAT  
 CAAGATGGAGAAGGACTCTGGGTGTGAGGGTGTGCAGACGGCTGTGTGCCAGCCAGGTGTGGCTGGG  
 GCCAGTGACAGGACCCAGCCACTTCCCTACCAGGATGCACCTGAAAACAGAGCCAGACTCTCGGC  
 AACAGGTGTACATCTCGCACCTGGGGCAGGCGTGCAGGGGGCTCAGCCCATGGGAGGGCCACTGCTGG  
 GCGCAGCAGGGAGCTGACCCCTTCCACCTGCACACTGTGCTGCTGGAGCCACAGACGGCCTTCCC  
 CAGTCCGAGCCTCCCACAGCTCTGTGCAGGGGCCAGGTGAACAGTCTGCACCTGCAGAGCTGCTG  
 AGGCCGCCCTGTGGTCAAGCGGGAGCCCTTGGACTCACCCAGTGGGCTACTCACAGCCAGGGAATGGT  
 GCCCGGGATGTTGCCAAAAGTGCCTTGGCCACGCTGGTCCCGCCCAAGCTTCGGGGTGCACATTCCTG  
 CCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC234741 representing NM\_001242412  
 Red=Cloning site Green=Tags(s)

```
MPRTMIPPGECTYAGRKRRRPLQKQRPVAVGAEKSNPSKRHRDRLNAELDHASLLPFPDII SKLDKLSV
LRLSVSYLRVKSFFQVVQEQSSRQPAAGAPSPGDSCPLAGSAVLEGRLLLESNGFALVVS AEGTIFYAS
ATIVDYLGFGHQTDMVHQNIYDYIHVDDRQDFCRQLHWAMPDPQVVFQPPPLETGDDAILGRLLRAQEWG
TGTPTEYSAFLTRCFICRVRCLLDSTSGFLTMQFQGLKFLFGQKKKAPSGAMLPRLSLFCIAAPVLLP
SAAEMKMRSALLRAKPRADTAATAADAKVKATTSLCESELHGKPNYSAGRSSRESGLVLRQTDAGRWAQ
VPARAPCLCLRGPDVLDPKGGSGDREEEQHRMLSRASGVTGRRETPGPTKPLPWTAGKHS EDGARPRL
QPSKNDPPSLRPMRGSCLPCPCVQGTFRNSPISHPPSPSPSAYSSRTRSRPMRDVGEDQVHPPLCHFPQR
SLQHQLPQPGAQRFATRGPYMEDMKLQGVMPMPGDLCGPTLLLDVSIKMEKDSGCEGAADGCVP SQVWLG
ASDRSHPATFPTRMHLKTEPDSRQVYI SHLGHGVRGAQPHGRATAGRSRELTPFHPAHCACLEPTDGLP
QSEPPHQLCARGRGEQSCTCRAAEAAPVVKREPLDSPQWATHSQGMVPGMLPKSALATLVPPQASGCTFL
P
```

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_001242412

**ORF Size:** 2103 bp

**OTI Disclaimer:** 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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\\_001242412.1](#), [NP\\_001229341.1](#)

**RefSeq Size:** 5622 bp

**RefSeq ORF:** 2106 bp

**Locus ID:** 57491

**UniProt ID:** [A9YTQ3](#)

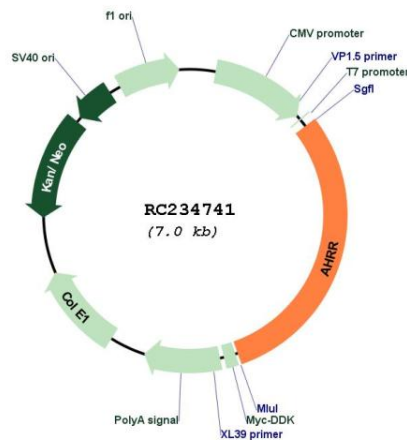
**Cytogenetics:** 5p15.33

**Protein Families:** Druggable Genome, Transcription Factors

**MW:** 76.7 kDa

**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]

### Product images:



Circular map for RC234741