

## Product datasheet for **RG234741**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AHRR (NM_001242412) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AHRR
Synonyms:	AHH; AHHR; bHLHe77
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG234741 representing NM\_001242412  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGAGGACGATGATCCCGCCGGGGAGTGCACGTACGCGGGCCGGAAGCGGAGGAGGCCCTGCAGA  
 AACAGAGGCCCGCGTGGGGCAGAGAAGTCCAACCCCTCCAAGCGACACCGGGACCGCCTCAACGCCGA  
 GTTGACCACCTGGCCAGCCTGTGCCGTTCCCGCTGACATCATCTCCAAGCTGGACAAGCTTTCTGTC  
 CTGCGCCTCAGTGTCACTTACCTCCGGGTGAAGAGCTTCTCCAAGTCGTGCAGGAGCAGAGCTCACGGC  
 AGCCTGCGCCGGCGCCCTCGCCGGAGACAGCTGTCTCTTGCAGGGTCTGCCGTGTGGAGGGAAG  
 GCTGCTGTTGGAGTCTTAATGGCTTTGCTCTGGTCTGAGTGCAGAAGGACGATATTTTATGCATCA  
 GCAACGATCGTGGACTATCTGGGCTTCCATCAGACGGATGTAATGCACCAGAACATTTATGACTACATCC  
 ACGTGGACGACCGCAGGACTTCTGCCGCGAGCTCCACTGGGCCATGGACCCTCCCAGGTGGTGTGG  
 GCAGCCCCGCCCTTGGAGACAGGAGATGATGCTATCCTGGGGAGGCTGCTCAGGGCCCAGGAGTGGGGC  
 ACAGGCACGCCACCGAGTACTCGGCCTTCTGACCCGCTGCTTCATCTGCCGTGTGCGCTGCCCTGCTGG  
 ACAGCACCTCGGGCTTCTGACGATGCAGTTTCAAGGAAAATAAAATTCCTGTTTGGACAGAAGAGAA  
 GGCGCCGTGAGGACCATGCTCCCGCCGCGGTGTGCTGTTCTGCATTGCGGCACCCGTTCTCCTCCCC  
 TCCGCAGCGGAGATGAAAATGAGGAGCGCGCTCCTGAGGGCAAAACCCAGAGCAGACACCGCAGCCACCG  
 CGGATGCAAAAAGTAAAAGCCACCACAGTCTGTGCGAATCGGAACTGCATGGAAAACCAATTAATCAGC  
 AGGAAGGAGCAGCAGAGAGAGCGCGTTTTGGTGTCTAGGGAACAGACTGACGCTGGCCGATGGGCACAG  
 GTTCCCAGGAGGAGGAGGAGCAGCAGGATGCTGAGCAGGGCCTCTGGAGTGACAGGGCGGAGGGAGAC  
 TCCAGGACCCACAAAGCCCTGCCCTGGACAGCGGAAAGCACAGTGAGGATGGTGCCAGGCCGAGGCTG  
 CAGCCCAGCAAGAATGACCCGCCCTCCCTGCGCCCATGCCCCGCGGCTCCTGCCTGCCCTGCCCGTGTG  
 TCCAGGGCACTTTCAGGAACTCGCCATCTCTACCCGCGGAGCCGTCCTCCAGTGCCTACTCCAGCCG  
 GACCAGCAGACCCATGCGGGATGTCCGTGAGGACCAGGTGCACCCTCCCCTCTGCCACTTTCAGGAGG  
 AGCCTGCAGCACCAGCTCCCTCAGCCTGGAGCTCAGCGTTTTGCCAGGAGGGCTATCCCATGGAGGACA  
 TGAAGCTGCAAGGTGTACCGATGCCTCCGGGGACCTGTGTGGTCCGACGCTGCTGCTAGATGTGCCAT  
 CAAGATGGAGAAGGACTCTGGGTGTGAGGGTGTGCAGACGGCTGTGTGCCAGCCAGGTGTGGCTGGGG  
 GCCAGTGACAGGAGCCACCCAGCCACTTCCCTACCAGGATGCACCTGAAAACAGAGCCAGACTCTCGGC  
 AACAGGTGTACATCTCGACCTGGGGCAGGCGTGCAGGGGGCTCAGCCCATGGGAGGGCCACTGCTGG  
 GCGCAGCAGGGAGCTGACCCCTTCCACCTGCACACTGTGCCTGCCTGGAGCCACAGACGGCCTTCCC  
 CAGTCCGAGCCTCCCACAGCTCTGTGCACGGGGCCAGGTGAACAGTCTGCACCTGCAGAGCTGCTG  
 AGGCCGCCCTGTGGTCAAGCGGGAGCCCTTGACTCACCCAGTGGGCTACTCACAGCCAGGGAATGGT  
 GCCCGGATGTTGCCAAAAGTGCCTTGCCACGCTGGTCCCGCCCAAGCTTCGGGTGCACATTCCTG  
 CCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG234741 representing NM\_001242412  
 Red=Cloning site Green=Tags(s)

```
MPRTMIPPGECTYAGRKRRRPLQKQRPVAVGAEKSNPSKRHRDRLNAELDHLASLLPFPDIIISKLDKLSV
LRLSVSYLRVKSFFQVVQEQSSRQPAAGAPSPGDSCPLAGSAVLEGRLLLESLNGFALVVSVAEGTIFYAS
ATIVDYLGFHQTDVVMHQNIYDYIHVDDRQDFCRQLHWAMDPPQVVFQPPPLETGDDAILGRLLRAQEWG
TGTPTEYSAFLTRCFICRVRCLLDSTSGFLT MQFQGKLFQGGKKKAPSGAMLPRLSLFCIAAPVLLP
SAAEMKMRSALLRAKPRADTAATADAKVKATTSLCESELHGKPNYSAGRSSRESGLVLRQTDAGRWAQ
VPARAPCLCLRGGPDLVLDPKGGSGDREEEQHRMLSRASGVTGRRETPGPTKPLPWTAGKHSEDGARPRL
QPSKNDPPSLRPMRGSCLPCPCVQGTFRNSPISHPPSPSPSAYSRTSRPMRDVGEDQVHPPLCHFQR
SLQHQLPQPGAQRFATRGPYMEDMKLQGVMPMPGDL CGPTLLLDVSIKMEKDSGCEGAADGCVPSQVWLG
ASDRSHPATFPTRMHLKTEPDSRQVYI SHLGHGVRGAQPHGRATAGRSRELTPFHPAHCACLEPTDGLP
QSEPPHQLCARGRGEQSCTCRAEAAPVVKREPLDSPQWATHSQGMVPGMLPKSALATLVPPQASGCTFL
P
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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

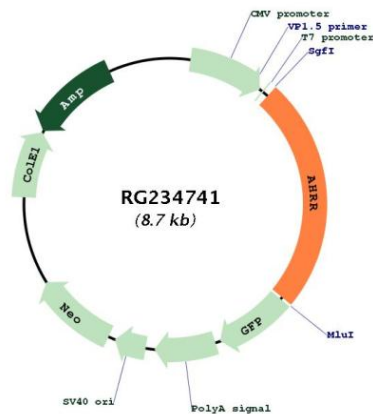
**UniProt ID:** [A9YTQ3](#)

**Cytogenetics:** 5p15.33

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

**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 RG234741