

## Product datasheet for **RN207258**

### Ahrr (NM\_001024285) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ahrr (NM_001024285) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ahrr
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN207258 representing NM\_001024285  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATGATTCCGTCAGGAGAGTGCACGTATGCCGGTAGGAAGAGGAGGAAACCCATTAGAAAGCGGAGGC  
 TTACCATGGGAACTGAGAAATCAAATCCTTCCAACCGCACCGGACCGCCTCAATACAGAGCTGGACCA  
 CCTGGCCAGCCTGCTGCCATTTTCAACCGACATCATCTCCAAGCTGGACAAAATTTCAGTCCTTCGCCTC  
 AGCGTGAGTTACCTCAGGGTGAAGAGCTTCTTCCAAGCCTTGCAGGAGACATGTGTATGGTCAGCTCCAG  
 CTCTGTCACTGAAGTCACTCATCCAGAGGCTTCCCTGTGCAGGAAGGGCGGCTGCTGCTGGAGTCTCT  
 CAATGGCTTTGCTCTGGTGGTGAAGGATGATCTTCTACGCGTCGGCAACAATTGTGGACTAC  
 CTGGGCTTCCACCAGACAGATGTAATGCATCAAATATTTATGACTATATCCATGTGGATGACCGGCAGG  
 ACTTCTGCAGACAGCTACACTGGGCCATGGACCCTCCTCAGGTGGTGTTCGGGCAGTCCCACATGCTGA  
 CACAGACAATACCGTCTAGGGAAGTTGCTCAGGGCCCAAGAAGGGGGCAAGGGCTTGCCTCAGAGTAC  
 TCGGCCTTCTTGACACGCTGCTTCATTTGTCTGTCCGCTGCCTGCTGGACAGCACCTCTGGCTTCTGA  
 CTATGCAGTTCCAAGGAAAACAAAATTCCTGTTTGGACAGAAGAAGAAGACACCATCAGGAACAGCCTT  
 GCCTCCTCGGCTCCTTGTGTTTGCATTGTGGCGCCAGTGTGCCTTCTGTGACTGAGATGAAAAAGAA  
 AGTGCATTCTTGAAGGCAAAGCACAGGGCAGACATTGTGGTCACGATGGACTCAAGGGCAAAGCTGTTA  
 CAAGTCTGTGTGAATCAGAACTGCATCCCAAATCAATTACTTACGAGGAAGGAGCAATGGAGAAAATGT  
 CATTCTACTGTTCAAGGGACAACAGATAGGAGCCATTGGACCCGGGCTCTAGCCAGGTCTTTCATGTCTG  
 TGCCTCAGGGGTGGTCTGACCTGTGGACCCCAAGGGGACTTCAAGGGGACAGAGAAGAGGACGATCAGA  
 AGCACATACTAAGGAGATCCCCTGGTGCCTGGGGGACAGAGGAGATGCACAAGTACAGCTATGGCTTGA  
 GACACCACTACACTTGAGGCACCTGGACTGGAGCACAGAGCAGCGAAGTCAAGGAGGCACTACCAAGCTA  
 ACTCGGCAGCCAGTAAGAGTGAGCCATCCACATGCCTGGTGCCTCATGGTTCCTGTGTGCCCTACCCTG  
 GAAGTCAAGGCATGTTCAAGTGCAGCAACATGGCTTCTTTCAGGGAGTCCCTAGACCATCCCCTGGTAC  
 CTACTGCAGTCAGATGAACAGACCCTTGCAGATATCCACCAGGGCCAGGTGGATCCTTCCACCTGTCAT  
 ATCCCCAGGGAAGTCTGGGCTCTAGGATCCCTCTGTCTGGAATGCAGTCTTCCAGCCAGGGGATTTT  
 CTACAGAGGATGCAAAATGCCAGCTTGCAGTGAACATAGGCACCCCGTGAATCCAGTATTGCTACT  
 GGAAGTGCCAATCAAGATGGAGAACGAATCTGGGTCCCAGGATATAGTTGAAGCCAGCACAACTAGCTGT  
 GTGTGGCTGGGAACCGGCAGATGACCAGAAGACATCTGGTTGGTTCCCTGCCAGGATGCATCTGAAAA  
 CAGAGCCTGACTATAGGCAGCAGGTCTGTACCCACACCGTGGGCATGGTATACTGGGGACTAATCCCCA  
 CAGCAGAGACACTGTGGGTCTGTAGGAGCATGCTCCTCTTACTCTGCACACTGCACCTGCCTGAGT  
 CCAGAGCCTCCTCATCACCTTTCATGTGTAGCCACAGTAAAAGTCAAGTCCCTCCTTGGACCAAGACT  
 GCAGAGCTCCTATTGTTAAGCGTGAGCCTCTGGACTCACCATCATGGGCTGCTCCTGGTCATGTGACTGT  
 GCCCAGGATGTTCCCTAAGAATGCCTCTATAACTGTGATCCCATCCAAGGATCTGATGGGATTTTCTTA  
 CCTAG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-RsrII

**ACCN:** NM\_001024285

**Insert Size:** 2106 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001024285.1</u> , <u>NP_001019456.1</u>
<b>RefSeq Size:</b>	4694 bp
<b>RefSeq ORF:</b>	2106 bp
<b>Locus ID:</b>	498999
<b>UniProt ID:</b>	<u>Q75NT5</u>
<b>Cytogenetics:</b>	1p11
<b>Gene Summary:</b>	Mediates dioxin toxicity and is involved in regulation of cell growth and differentiation. Represses the transcription activity of AHR by competing with this transcription factor for heterodimer formation with the ARNT and subsequently binding to the xenobiotic response element (XRE) sequence present in the promoter regulatory region of variety of genes. Represses CYP1A1 by binding the XRE sequence and recruiting ANKRA2, HDAC4 and/or HDAC5. Autoregulates its expression by associating with its own XRE site.[UniProtKB/Swiss-Prot Function]