

## Product datasheet for **RR207258**

### Ahrr (NM\_001024285) Rat Tagged ORF Clone

#### Product data:

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



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**ORF Nucleotide Sequence:**

>RR207258 representing NM\_001024285  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGATGATTCCGTCAGGAGAGTGCACGTATGCCGGTAGGAAGAGGAGGAAACCCATTAGAAGCGGAGGC  
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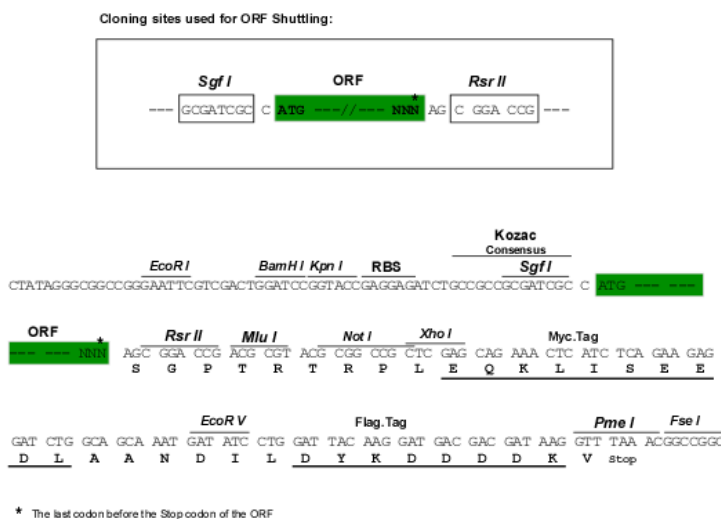
**Protein Sequence:** >RR207258 representing NM\_001024285  
Red=Cloning site Green=Tags(s)

```
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LGFHQTDVMHQNIYDYIHVDDRQDFCRQLHWAMDPQVVFVGFQSPHADTDNTVLGKLLRAQEGGKLPSEY
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VWLGTGDMTRRHLVGFPPARMHLKTEPDYRQVCTPHRGHGILGTNPHSRDVTGSCREHAPLYSAHCTCLS
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P
```

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**



**ACCN:** NM\_001024285

**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\\_001024285.1](#), [NP\\_001019456.1](#)

**RefSeq Size:** 4694 bp

**RefSeq ORF:** 2106 bp

**Locus ID:** 498999

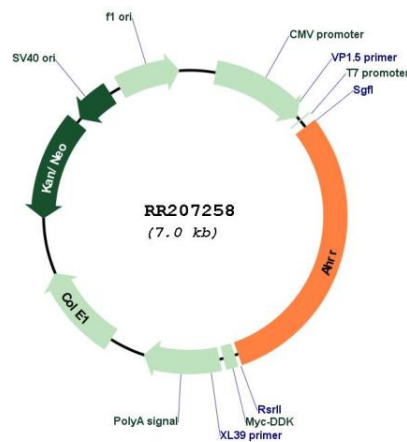
**UniProt ID:** [Q75NT5](#)

**Cytogenetics:** 1p11

**MW:** 77.8 kDa

**Gene Summary:** 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]

### Product images:



Circular map for RR207258