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# Product datasheet for MR223882

## Ahrr (NM_009644) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Ahrr (NM_009644) Mouse Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Ahrr |
| **Synonyms:** | mKIAA1234 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |



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**ORF Nucleotide Sequence:**

>MR223882 representing NM_009644
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGATTCCGTCTGGAGAGTGTACATACGCCGGTAGGAAGAGAAGGAAGCCCATTCAGAAGCGGAGGC
TTACCATGGGAGCTGAGAAATCAAATCCTTCCAAACGGCACCGGGACCGCCTCAATACAGAGCTGGACCA
CCTGGCCAGCCTGCTGCCATTTTCACCTGATATCATCTCCAAGCTGGACAAGCTTTCTGTCCTGCGCCTC
AGCGTTAGCTACCTCAGGGTAAAGAGCTTCTTCCAAGCCTTGCAGGAGACATGTGTATGGTCAGCTCCAG
CCCTGTCACCTGAAGAACACTCATACAGAGGGTTCCCCGTGCAGGAAGGACGGCTGCTGCTGGAGTCTCT
CAATGGCTTCGCTCTGGTGGTGAGTGCCGAAGGGATGATCTTTTATGCATCGGCAACAATTGTGGACTAT
CTGGGCTTTCATCAGACAGATGTCATGCATCAAAACATTTATGACTACATCCATGTGGATGACCGGCAGG
ACTTCTGCAGACAGCTACACTGGGCCATGGACCCTCCTCAGGTGGTGTTTGGGCAGTCCCCACATGCTGA
CACAGACAATACTGTCCTGGGGAAGCTGCTCAGGGCCCAAGAAGGAGGCAAGGGCTTGCCCTCAGAGTAC
TCGGCCTTCTTGACACGCTGCTTCATTTGTCGTGTTCGCTGCCTGCTGGACAGCACCTCTGGCTTTCTGA
CCATGCAGTTCCAAGGAAAACTAAAATTCCTGTTTGGACAGAAGAAGAAGACACCATCAGGAACAGCCCT
GCCTCCTCGACTCTCATTGTTCTGCATTGTGGCACCAGTCTTGCCTTCTGTAACTGAGATGAAAATGAAA
AGCACATTCTTGAAGGCAAAGCACAGGGCAGACATTGTGGTTACGATGGACTCAAGGGCAAAAGCTGTTA
CAAGTCTATGTGAATCAGAATTGCATCCCAAACTCAATTACTTAGCAGGAAAGAGCAATGGAGAAAATGG
CATTTCACTGTTCAGGGGACAAACAGATAGGAGCCACTGGGCCCGGGCTCTAGCCAGATCTTCATGTCTG
TGCCTCAGGGGTGGTCCTGACCTGCTGGACCCCAAGGGGACTTCAGGGGACAGAGAAGAGGAGGACCAGA
AGCACATACTAAGGAGATCCCCTGGTGCCTGGGGGCAGAGGGAGATGCACAAGTACAGTTATGGTTTGGA
GACACCAGTACACTTGAGGCACCTGAACTGGAGCACAGAACAGCGAAGTCAGGAGAGCACTACCAAGCTG
ACTCGGCAGCCCAGTAAGAATGAGCCATCCACGTGTCTGGTGCCCCATGGTTCCTGTGTGCCCTACCCTG
GAAGCCAGGGCATGCTTAGTGCCAGCAACATGGCTTCTTTTAGAGATTCACTAGACCATCCCACTGGTGC
CTACTGCAGTCAGATGAACAGACCCTTGTCGGATATCCACCAGGGCCAGGTGGATCCTTCCACCTGCCAT
ATCTCCCAGGGCAGTCTGGGATCTAGGATCCCTCTGACTGGAATGCAGCGCTTCACAGCTCGGGGATTTT
CTACAGAGGATGCAAAATTACCCAGCCTGCCAGTGACCATAGGCACTCCATGCAACCCAGTATTGTCACT
GGATGTGCCAATCAAGATGGAGAATGAATCTGGGTCCCAGGATATAGTTGAAGCTAGCACAACTAGCTGT
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CAGAGCCCGACTATAGGCAGCAGGCCTGTACCCCACACCTTGGTCATGGTATGCTGGGAACTAATCCCTA
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GCAGAGCTCCTATTGTTAAGCGTGAGCCTCTGGACTCACCATCATGGGCTGCTCCTGGTCAGGTGACTGT
GCCCAGGATGTTCCCTAAGAGTGCCTCTAAAACTGTGATCCCATCCAAAGGCTCTGATGGAATTTTCCTA
CCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223882 representing NM_009644
Red=Cloning site Green=Tags(s)

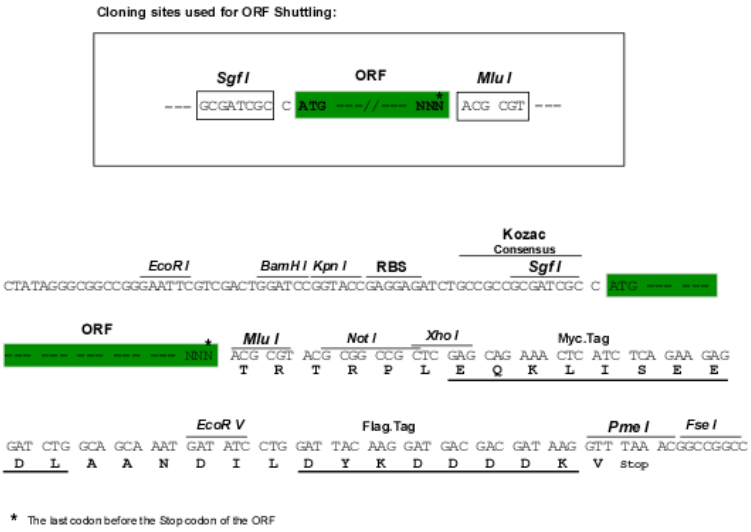
MMIPSGECTYAGRKRRKPIQKRRLTMGAEKSNPSKRHRDRLNTELDHLASLLPFSPDIISKLDKLSVLRL
SVSYLRVKSFFQALQETCVWSAPALSPEEHSYRGFPVQEGRLLLESLNGFALVVSAEGMIFYASATIVDY
LGFHQTDVMHQNIYDYIHVDDRQDFCRQLHWAMDPPQVVFGQSPHADTDNTVLGKLLRAQEGGKGLPSEY
SAFLTRCFICRVRCLLDSTSGFLTMQFQGKLKFLFGQKKKTPSGTALPPRLSLFCIVAPVLPSVTEMKMK
STFLKAKHRADIVVTMDSRAKAVTSLCESELHPKLNYLAGKSNGENGISLFRGQTDRSHWARALARSSCL
CLRGGPDLLDPKGTSGDREEEDQKHILRRSPGAWGQREMHKYSYGLETPVHLRHLNWSTEQRSQESTTKL
TRQPSKNEPSTCLVPHGSCVPYPGSQGMLSASNMASFRDSLDHPTGAYCSQMNRPLSDIHQGQVDPSTCH
ISQGSLGSRIPLTGMQRFTARGFSTEDAKLPSLPVTIGTPCNPVLSLDVPIKMENESGSQDIVEASTTSC
LWLGTSDMARGHLVGFPARMHLKTEPDYRQQACTPHLGHGMLGTNPYSRDTVGSCREHAPLYSAHCTCLD
PEPPHHFFMCSHSESQHPSLDQDCRAPIVKREPLDSPSWAAPGQVTVPRMFPKSASKTVIPSKGSDGIFL
P

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mm9039_g11.zip

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_009644

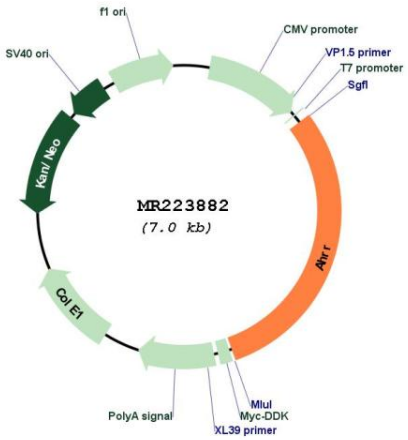
**ORF Size:** 2103 bp

**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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_009644.3, NP_033774.1 |
| **RefSeq Size:** | 4732 bp |
| **RefSeq ORF:** | 2106 bp |
| **Locus ID:** | 11624 |
| **UniProt ID:** | Q3U1U7 |
| **Cytogenetics:** | 13 C1 |
| **MW:** | 78.2 kDa |
| **Gene Summary:** | This gene encodes a protein that represses aryl hydrocarbon receptor-dependent signaling. The encoded protein competes with the aryl hydrocarbon receptor transcription factor for heterodimerization with the aryl hydrocarbon receptor nuclear translocator protein and binding to xenobiotic response element (XRE) sequence in many genes. This protein is implicated in the regulation of cell growth and differentiation as well as mediating dioxin toxicity. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2015] |

## Product images:




Circular map for MR223882