

Product datasheet for **MR227590**

Ahr (NM_013464) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ahr (NM_013464) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ahr
Synonyms:	A; Ah; Ahh; Ahre; bHLHe7; bHLHe76; In
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR227590 representing NM_013464
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCAGCGCGCCAACATCACCTATGCCAGCCGAAGCGGCGCAAGCCGGTGCAGAAAACAGTAAAGC
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 CCGCCTGGCCAGCCTGCTGCCCTTCCCGCAAGATGTTATTAATAAGCTGGACAAACTCTCTGTTCTTAGG
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 ATGGAGGCCAGGACCAGTGTAGAGCACAAATCAGAGACTGGCAGGATTTGCAAGAAGGAGAGTTCTTGTT
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 CAGGTTCTCAGGCATTCTAAGCAAGGTGCAGAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227590 representing NM_013464
Red=Cloning site Green=Tags(s)

MSSGANITYASRKRKPVQKTVKPIAEGIKSNPSKRHRDRLNTELDRLASLLPFPQDVINKLDKLSVLR
LSVSYLRAKSFDFVALKSTPADRNGGQDCRAQIRDWQDLQEGEFLLQALNGFVLVVTADALVFYASSTI
QDYLGQQSDVIHQSVYELIHTEDRAEFQRQLHWALNPDSAQGVDEAHGPPQAAYVYTPDQLPPENASFM
ERCFRCRLRCLLDNSSGFLAMNFQGRKYLHGQNKKGKDGALLPPQLALFAIATPLQPPSILEIRTKNFI
FRTKHKLDFTPIGCDAKGQLILGYTEVELCTRGSGYQFIHAADILHCAESHIRMIKTGESGMTVFRLLAK
HSRWRWQSNARLIYRNGRPDYIIATQRPLTDEEGREHLQKRSTSLPFMFATGEAVLYEISSPFSPIMDP
LPIRTKSNTSRKDWAPQSTPSKDSFHPSSLMSALIQQDESIYLCPPSSPALLDSHFLMGSVSKCGSWQDS
FAAAGSEAAKHEQIGHAQDNLALSGGPSELPDNKNNDLYSIMRNLGIDFEDIRSMQNEEFFRTDSTA
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QLCQMVCPPQDLGPKHTQINGTFASWNPVPPVFNCPQQELKHYQLFSSLQGTAEFFPYKPEVDSVPYTQ
NFAPCNQPLLPEHSKSVQLDFPGRDFEPSLHPTTSLNDFVSLQVPENQSHGINSQSAMVSPQAYYAGAM
SMYQCQPGPQRTQYSSEIPGSQAFLSKVQS

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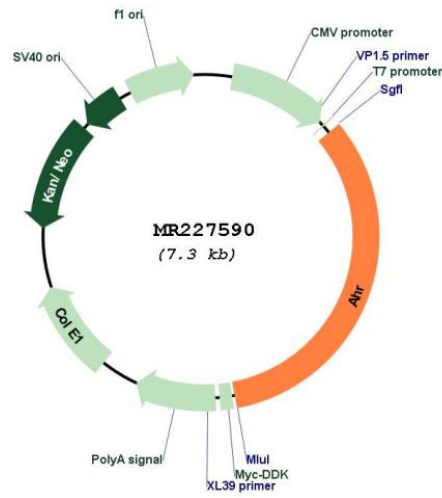
Chromatograms: https://cdn.origene.com/chromatograms/mm9032_a08.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN:	NM_013464
ORF Size:	2415 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:	<ol style="list-style-type: none">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_013464.4 , NP_038492.1
RefSeq Size:	5494 bp
RefSeq ORF:	2418 bp
Locus ID:	11622
UniProt ID:	P30561
Cytogenetics:	12 15.78 cM
MW:	90.8 kDa
Gene Summary:	The protein encoded by this gene is a ligand-activated helix-loop-helix transcription factor involved in the regulation of biological responses to planar aromatic hydrocarbons. This receptor has been shown to regulate xenobiotic-metabolizing enzymes such as cytochrome P450. Before ligand binding, the encoded protein is sequestered in the cytoplasm; upon ligand binding, this protein moves to the nucleus and stimulates transcription of target genes. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015]