

Product datasheet for **MR225496**

Amhr2 (NM_144547) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amhr2 (NM_144547) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amhr2
Synonyms:	Misiir; Misrii; Mrii
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225496 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGGGACACTGGGGCTTTGGACACTGCTTCTCGCGCAGCACAAGTATCCCCAACAGGAGGACCT
 GTGTGTTCTTTGAGGCTCCTGGAGTGCGGGGAAGCACAAGACTGGGGAAATGGTAGATGCAGGACC
 AGGCCCCCCAACGGGTATCCGCTGCCTCTACAGCCATTGCTGCTTTGGGATCTGGAATCTTACCCATGGC
 CGGGCACAAGTGGAGATGCAAGGATGCCGAGACAGTGTAGCCAGGCTGTGAGTCCCTCCACTGTGACC
 CAGTCCCAGAGCCACCCGAACCCAGCTCCACACTTTCACGTGTTCTGTGGCACTGACTTCTGCAA
 TGCCAATTACAGCCATCTGCCTCCTTCGGGAAACCAAGGGGCTCCTGGCCCCAGGAGCCCCAGGCTACC
 CCAGGTGGGCCCTGTGGATGGCACTGTGCTCCTGGGAATGTTTCTCGTGTGTGCTGAGTAGCATCA
 TCTTGGCCCTGTACAACGAAAGGCTGCAGAGTGAAGGTGGTCCAGCCAGAGCCCGGCTCAGCGG
 AGACTGCAGTGAAGAACTGCCAGAGCTGGCCGAGCTGCGTTTCTCCAGGTAATCCAGGAAGGAGTGCAT
 GCAGTCGTCTGGGCCGGGAGGCTTCAGGGTGAGATGGTAGCCATCAAGGCCCTCCCCCAAGGGCTGTGG
 CCCAGTCCGAGCTGAGAGGGCTGTGTACCAGCTGCTAGGCCTACAGCATGACCATATCGTTTCGCTTTAT
 CACTGCTGGCCAGGGAGGCCCTGGCCCTCTGCCCTCTGGGCTTTGCTGGTACTGGAAGTGTACCCTAAG
 GGCTCCTTATGCCACTACTTGACTCAGTACACGAGCGACTGGGGAAGTTCCTTGAGGATGGCTCTGTCCC
 TGGCAGAGGGCTTGGCTTTTCTCCACGAGGAGCGTTGGCAGGATGGCCAGTACAAACCAGGTATCGCCCA
 CCGAGACTGAGCAGCCAGAATGTGCTCATTGGGAAGATAGGTCATGCGCCATCGGGGACTGGGCCTT
 GCCTTGGTACTCCCTGGTCTTGTCTAGCCCCCTGCCTTGGCCCCACTCAACCCGAGGCCCGCTGCCA
 TTTTGGAGGCTGGCACCCAGCGGTACATGGCTCCAGAGCTTTGGACAAGACTTAGACTGCAGGACTG
 GGGTACAGCTCTCCAGAGAGCGGATGTTTACTCTCTGGCGCTACTACTGTGGGAGATCCTGAGCCGCTGT
 TCCGATTTGAGGCCTGACCACAGACCACCCTTTCCAATTGGCTTATGAGGCAGAACTGGGCAGCAATC
 CCAGTGCCTGTGAGCTCTGGGCCCTGGCAGTGGAGGAGAGGAAGCGCCCCAACATCCCATCCACTTGGAG
 CTGCTCTGCCACAGACCCTCGGGGGCTGAGGGAGCTCCTGGAAGATTGCTGGGACGCAGACCCAGAAGCA
 CGGCTGACAGCTGAGTGTGTGCAGCAGCGCTGGCAGCCCTGGCTTACCCTCACGGGGCGTCTCTTTCC
 CAGAGAGTCCACAGGGCTGCCAGAGAACTGCCTTTCAGCTCCCCTCTGCCGTTTTCCCTGTCCGCC
 TCAGCAGAGTCTTGTCTCCTCAGTGTTACGAAGGCCCTGGCTTAGGAGTCCCGATCCTGTAGGCGAC
 ACTGTTCAGGTGTATGTAATGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225496 protein sequence
 Red=Cloning site Green=Tags(s)

MLGTLGLWLLPAAAQVSPNRRTCVFFEAPGVRGSKTLGEMVDAGPGRPPIRCLYSHCCFGIWNLTHG
 RAQVEMQGCRRSDEPGCESLHCDPVRAHPNPSSTLFTCSGTDFCNANYSHLPPSGNQGAPGPQEPQAT
 PGGPVWMLLLLGMFLVLLLSSIIILALLQRKACRVQGGSDPEPGSGGDCSEELPELAELEFSQVIQEGGH
 AVVWAGRLQGEMVAIKAFPPRAVAQFRAERAVYQLLGLQHDHIVRFITAGQGGPGLPSGPLLLELYPK
 GSLCHYLQYTSDWGSSLRMALSLAEGLAFLHEERWQDGQYKPGIAHRDLSSQNVLIREDRSCAIGDLGL
 ALVLPGLAQPPALAPTQPRGPAILEAGTQRYMAPELLDKTLDLQDWGTALQRADVYSLALLLWEILSRC
 SDLRPDHRPPFQLAYEAELEGSNPSACELWALAVEERKRNIPSTWSCSATDPRGLRELEDCWDADPEA
 RLTAECVQORLAALAYPHGASSFPESPQGCPEINCLSAPASAVFPCRPQQSSCLLSVQQGPGSRSPDPVGD
 TVQVYVNE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_144547

ORF Size: 1707 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

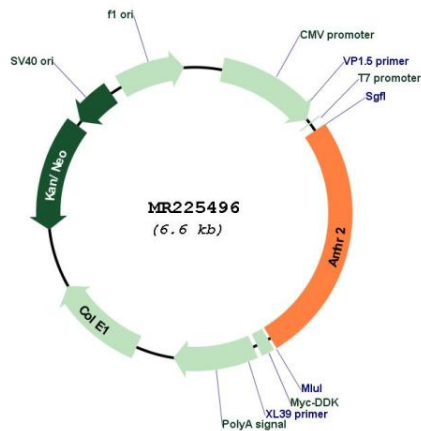
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_144547.2, NP_653130.2](#)
RefSeq Size: 1947 bp
RefSeq ORF: 1707 bp
Locus ID: 110542
UniProt ID: [Q8K592](#)
Cytogenetics: 15 57.58 cM
MW: 61.2 kDa

Gene Summary: On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. Receptor for anti-Muellerian hormone.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225496