

## Product datasheet for **MR225495**

### Amh (NM\_007445) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Amh (NM_007445) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amh
Synonyms:	M; MIS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR225495 representing NM\_007445  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGGGGCCACACCTCTCTCCACTGGTACTGCTGCTAGCGACTATGGGGGCTGTGTTACAGCCTGAGG  
 CGGTTGAAAACCTGGCCACCAATACCAGGGCCTCATCTTCCTTGAAGATGAGCTCTGGCCCCCAGCAG  
 CCCCCCTGAACCTTTGTGCCTGGTGACAGTGAGAGGAGAGGGGAACACAAGCAGAGCTTCCCTGAGGGTG  
 GTGGGGGTCTGAACAGCTATGAGTATGCCTTCTGGAGGCTGTCCAGGAGTCTCGCTGGGGACCCCAAG  
 ACCTGGCCACCTTCGGAGTCTGCAGCACTGACTCCCAGGCTACCCTGCCTGCCCTGCAGCGCCTTGGGGC  
 CTGGCTAGGGGAGACTGGAGAACAGCAGTTGCTAGTCCTACATCTGGCTGAAGTGATATGGGAGCCCGAG  
 CTCTTGTGAAGTTCCAAGAGCCTCCACCTGGGGGAGCCAGCCGCTGGGAGCAGGCCCTGTAGTGTAT  
 ACCCTGGACCAGGCCCCAGGTACAGTCACAGGGACTGGACTGCGGGGCACACAGAACCTCTGCCCTAC  
 TCGGGACACCCGCTATTTGGTGTAAACCTGGACTTCCCAGCGGGGGCCTGGAGCGGCTCGGGCCTCATC  
 TTAACCTTCAACCAAGCAGAGAAGGTGCCACCCTGAGCATCGATCAGCTGCAAGCTTTCTATTTGGCT  
 CTGATTCGCTGTTTACGCGGATGACTCCCACCCTGGTGGTGTGCCACCCGCGGAGCCGTCACCCGA  
 GCCAGCACACGGCCAGCTGGACACCATGCCTTCCCGCAGCCTGGACTGTCCCTGGAGCCTGAGGCCCTG  
 CCACACAGCGCCGACCCCTTCTAGAGACCCTCACTCGCTTGGTTCGTGCTCTGCGGGGACCTCTGACCC  
 AGGCTTCGAACACGCAACTGGCCCTGGACCCTGGTGCCTGGCCAGCTTCCCACAGGGCCTGGTCAACCT  
 GTCAGACCCCGCAGCACTGGGACGCTGCTGACTGGGAGGAACCCCTATTACTGCTGCTGTACCCGCT  
 GCGGCCACGGAGAGGGAACCTATGCCGCTGCACGGCCCGCTTCTGCTCCCTGGGACCGGGCCTGCAAC  
 GCAGGTTGGCAGTGGAGCTGCAGCGGCAGCCTCAGAGCTGCGGGACCTCCCGGCTGCCACCCACAGC  
 TCCCCCGCTGCTGGCGCGCTGCTAGCGCTGTGTCCCAACGACTCCCGCAGCTCCGGGGACCCGCTGCGC  
 GCGCTGCTGCTGCTAAAGGCGCTGCAGGGCTTACGTGCCGAGTGGCATGGGCGGGAAGGCGTGGGAGAA  
 CGGGGCGCAGCGCGGGACAGGGACAGACGGCCCTTGCAGCTGCGCGAGCTGAGTGTAGATCTGCGCGC  
 GGAGCGTTCAGTGTCTATCCCGGAGACCTACCAAGCCAACAACCTGCCAAGGCGCTGCGCGTGGCCGAG  
 TCTGACCGTAATCCGCGCTACGGGAACCACGTGGTGTGCTGCTAAAAATGCAGGCTCGCGGGGCTGCC  
 TGGGCCGCTGCCCTGCTGCGTGCCTACGCGGGCAAGCTGCTCATCAGCTGTCCGAGGAGCG  
 CATCAGCGCGCACCACTGCCAACATGGTAGCCACCGAGTGGGCTGCCGG

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR225495 representing NM\_007445  
 Red=Cloning site Green=Tags(s)

MQGPHLSPLVLLLATMGAVLQPEAVENLATNTRGLIFLEDELWPPSSPPEPLCLVTVRGEINTSRASLRV  
 VGGLNSYEYAFLEAVQESRWGPQDLATFGVCSTDSQATLPALQRLGAWLGETGEQQLLVHLAEVIWEPE  
 LLLKFQEPGGASRWEQALLVYPGPGQVTVTGTGLRGTQNLCPTRDTRYLVLTVDFFPAGAWSGSLI  
 LTLQPSREGATLSIDQLQAFIFGSDSRCFTRMTPTLVVLPPEPSPQPAHQQLDMPFPQGLSLEPEAL  
 PHSADPFLETLTRLVRALRGPLTQASNTQLALDPGALASFPQGLVNLSDPAALGRLLDWEELLLLLSPA  
 AATEREPMPLHGPASAPWAAGLQRRVAVELQAAASELRDLPGLPPTAPLLARLLALCPNDRSSGDPLR  
 ALLLLKALQGLRAEWHGREGRGRTGRSAGTGTGPCALRELSVDLRAERSVLIPETYQANNCQGACAWPQ  
 SDRNPRYGNHVLLLLKMQARGAALGRLPCCVPTAYAGKLLISLSEERISAHHVPMNVATECGCR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9007\\_h05.zip](https://cdn.origene.com/chromatograms/mm9007_h05.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_007445

**ORF Size:** 1662 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](mailto: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).

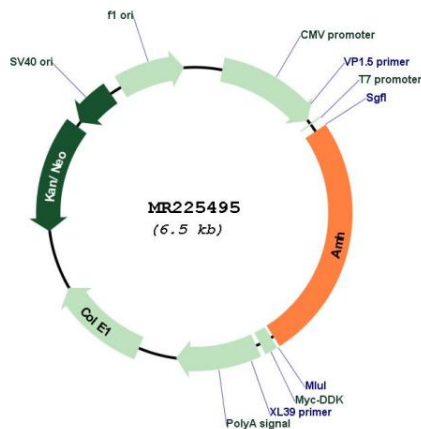
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_007445.3](#)

**RefSeq Size:** 1665 bp  
**RefSeq ORF:** 1665 bp  
**Locus ID:** 11705  
**Cytogenetics:** 10 39.72 cM  
**MW:** 59.8 kDa

**Gene Summary:** This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate N- and C-terminal cleavage products that homodimerize and associate to form a biologically active noncovalent complex. This complex binds to the anti-Mullerian hormone receptor type 2 and causes the regression of Mullerian ducts in the male embryo that would otherwise differentiate into the uterus and fallopian tubes. This protein also plays a role in Leydig cell differentiation and function and follicular development in adult females. Homozygous knockout male mice develop female reproductive organs and are often sterile, while homozygous knockout female mice exhibit premature depletion of primordial follicles. [provided by RefSeq, Jul 2016]

### Product images:



Circular map for MR225495