

Product datasheet for **MG225495**

Amh (NM_007445) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Amh (NM_007445) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Amh
Synonyms:	M; MIS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225495 representing NM_007445
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGGGGCCACACCTCTCTCCACTGGTACTGCTGCTAGCGACTATGGGGGCTGTGTTACAGCCTGAGG
 CGGTTGAAAACCTGGCCACCAATACCAGGGCCTCATCTTCTTGAAGATGAGCTCTGGCCCCCAGCAG
 CCCCCCTGAACCTTTGTGCCTGGTGACAGTGAGAGGAGAGGGGAACACAAGCAGAGCTTCCCTGAGGGTG
 GTGGGGGTCTGAACAGCTATGAGTATGCCTTCTGGAGGCTGTCCAGGAGTCTCGCTGGGGACCCCAAG
 ACCTGGCCACCTTCGGAGTCTGCAGCACTGACTCCCAGGCTACCCTGCCTGCCCTGCAGCGCCTTGGGGC
 CTGGCTAGGGGAGACTGGAGAACAGCAGTTGCTAGTCTACATCTGGCTGAAGTGATATGGGAGCCCGAG
 CTCTTGTGAAGTTCCAAGAGCCTCCACCTGGGGGAGCCAGCCGCTGGGAGCAGGCCCTGTAGTGTAT
 ACCCTGGACCAGGCCCCAGGTACAGTACAGGGACTGGACTGCGGGGCACACAGAACCTTGCCTAC
 TCGGGACACCCGCTATTTGGTGTAAACCTGGACTTCCCAGCGGGGGCCTGGAGCGGCTCGGGCCTCATC
 TTAACCTTCAACCAAGCAGAGAAGGTGCCACCCTGAGCATCGATCAGCTGCAAGCCTTCTATTTGGCT
 CTGATTCGCTGTTTACGCGGATGACTCCCACCCTGGTGGTGTGCCACCCGCCGAGCCGTCACCCGA
 GCCAGCACACGGCCAGCTGGACACCATGCCTTCCCGCAGCCTGGACTGTCCCTGGAGCCTGAGGCCCTG
 CCACACAGCGCCGACCCCTTCTAGAGACCCTCACTCGCTTGGTTCGTGCTCTGCGGGGACCTTGACCC
 AGGCTTCGAACACGCAACTGGCCCTGGACCCTGGTGCCTGGCCAGCTTCCCACAGGGCCTGGTCAACCT
 GTCAGACCCCGCAGCACTGGGACGCTGCTGACTGGGAGGAACCCCTATTACTGCTGCTGCACCCGCT
 GCGGCCACGGAGGGAACCTATGCCGCTGCACGGCCCGCTTCTGCTCCCTGGGACGCGGCCTGCAAC
 GCAGGTTGGCAGTGGAGCTGCAGCGGCAGCCTCAGAGCTGCGGGACCTCCCGGCTGCCACCCACAGC
 TCCCCCGCTGCTGGCGCGCTGCTAGCGCTGTGTCCCAACGACTCCCGCAGCTCCGGGGACCCGCTGCGC
 GCGCTGCTGCTGCTAAAGGCGCTGCAGGGCTTACGTGCCGAGTGGCATGGGCGGGAAGGCGTGGGAGAA
 CGGGGCGCAGCGCGGGGACAGGGACAGACGGCCCTTGCAGCTGCGCGAGCTGAGTGTAGATCTGCGCGC
 GGAGCGTTCAGTGTCTATCCCGGAGACCTACCAAGCCAACAACCTGCCAAGGCGCTGCGCGTGGCCGAG
 TCTGACCGTAATCCGCGCTACGGGAACACGTGGTGTGCTGCTAAAAATGCAGGCTCGCGGGGCTGCC
 TGGGCCGCTGCCCTGCTGCGTGCCTACGCTACGCGGGCAAGCTGCTCATCAGCTGTCCGAGGAGCG
 CATCAGCGCGCACCACTGCCAACATGGTAGCCACCGAGTGGGCTGCCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225495 representing NM_007445
 Red=Cloning site Green=Tags(s)

MQGPHLSPLVLLLATMGAFLQPEAVENLATNTRGLIFLEDELWPPSSPPEPLCLVTVRGEANTSRASLRV
 VGGLNSYEYAFLEAVQESRWGPQDLATFGVCSTDSQATLPALQRLGAWLGETGEQQLVLHLAEVIWEPE
 LLLKQFQPPPGASRWEQALLVLYPGPGQVTVTGTGLRGTQNLCPTRDTRYLVLTVDFFPAGAWSGLI
 LTLQPSREGATLSIDQLQAFLLFGSDSRCTTRMTPTLVVLPPEAEPSPQPAHQQLDMPFPQGLSLEPEAL
 PHSADPFLETLTRLVRALRGPLTQASNTQLALDPGALASFPQGLVNLSDPAALGRLLDWEPELLLLLSPA
 AATEREPMLHGPASAPWAAGLQRRVAVELQAAASELRLDPLPPTAPPLARLLALCPNDSRSSGDPLR
 ALLLLKALQGLRAEWHGREGRGRTGRSAGTGTGPCALRELSVDLRAERSVLIPETYQANNCQACAWPQ
 SDRNPRYGNHVLLLLKMQARGAALGRLPCCVPTAYAGKLLISLSEERISAHHVPMNVATECGCR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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 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.

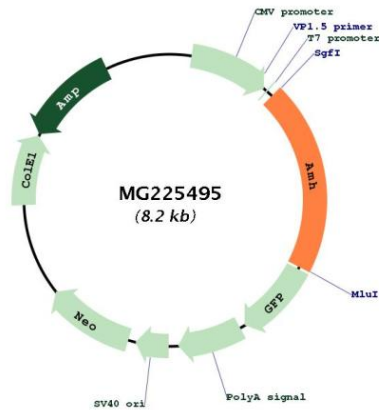
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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

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 MG225495