

## Product datasheet for **RC208397**

### AMH (NM\_000479) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMH (NM_000479) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMH
Synonyms:	MIF; MIS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC208397 representing NM\_000479  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGGGACCTGCCTCTCACCAGCTGGCCCTAGTGCTGTCTGCCCTGGGGGCTCTGCTGGGACTGAGG  
 CCTCAGAGCAGAGGAGCCAGCTGTGGCACCAGTGGCCTCATCTTCCGAGAAGACTTGGACTGGCCTCC  
 AGGCAGCCACAAGACCTCTGTGCCTGGTGGCACTGGGCGGGGACAGCAATGGCAGCAGCTCCCCCTG  
 CGGGTGGTGGGGCTCTAAGCGCCTATGAGCAGGCCTTCTGGGGCCGTGCAGAGGGCCCGCTGGGGCC  
 CCCGAGACCTGGCCACCTTCGGGGTCTGCAACACCGGTGACAGGCAGGCTGCCTTGCCCTCTCTACGGC  
 GCTGGGGGCTGGCTGCGGGACCCTGGGGGACAGCGCCTGGTGGTCTACACCTGGAGGAAGTACCTGG  
 GAGCCAACACCTCGCTGAGGTTCCAGGAGCCCCCGCTGGAGGAGCTGGCCCCCAGAGCTGGCGCTGC  
 TGGTGTGTACCTGGGCTGGCCCTGAGGTACTGTGACGAGGGCTGGGCTGCCAGGTGCCAGAGCCT  
 CTGCCCTCCCGAGACCCGCTACCTGGTGTAGCGGTGGACCGCCCTGCGGGGCTGGCGCGGCTCC  
 GGCTGGCCTTGACCCTGCAGCCCCGCGAGAGGACTCCCGGCTGAGTACCGCCCGCTGCAGGCACTGC  
 TGTTTCGGCGACGACCACCGCTGCTTACACGGATGACCCCGCCCTGCTCCTGCTGCCCGGTCCGAGCC  
 CGCGCCGCTGCCTGCGCACGGCCAGCTGGACACCGTGCCTTCCCGCCGCCAGGCCATCCCGGAACTC  
 GAGGAGTGCACCCAGCGCAGACCCCTTCTGGAGACGCTCACGCGCTGGTGCGGGCGCTGCGGGTCC  
 CCCCAGCCCGGGCTCCGCGCCGCGCTGGCCCTGGATCCGACGCGCTGGCCGGCTTCCCGAGGGCT  
 AGTCAACTGTGCGACCCCGCGCGCTGGAGCGCTACTCGACGCGGAGGAGCCGCTGCTGCTGCTGCTG  
 AGGCCACTGCGGCCACACCGGGATCCTGCGCCCTGCACGACCCACGTGCGCGCTGGGGCCACGG  
 CCCTGGCGCGCCGCTGGTGTGAAGTGAAGCGCGGCTGCCGAGCTGCGAAGCCTCCCGGTCTGCC  
 TCCGGCCACAGCCCCGCTGCTGGCGCGCTGCTGCGCTCTGCCAGGAGGCCCGCGGCTCGGCGAT  
 CCCCTGCGAGCGCTGCTGCTCCTGAAGCGCTGCAGGGCTGCGCGTGGAGTGGCGGGGCGGGATCCGC  
 GCGGGCCGGTGGGACAGCGCAGCGGGGGCCACCGCCGCGACGGCCGTGCGCGCTGCGCGAGCT  
 CAGCGTAGACCTCCGCGCGAGCGCTCCGTACTCATCCCCGAGACCTACCAGGCCAAATGTCAGGGC  
 GTGTGCGGCTGGCCTCAGTCCGACCGCAACCGCGCTACGGCAACACGTGGTGTGCTGCTGAAGATGC  
 AGGCCCTGGGGCCCGCTGGCGCGCCACCTGCTGCTGCCACCGCTACCGGGCAAGCTGCTCAT  
 CAGCCTGTGCGAGGAGCGCATCAGCGCGCACACGTGCCAACATGGTGGCCACCGAGTGTGGCTGCCG

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC208397 representing NM\_000479  
 Red=Cloning site Green=Tags(s)

MRDLPLTSLALVLSALGALLGTEALRAEPAVGTSGLIIFREDLDWPPGSPQEPLCLVALGGDSNGSSSPL  
 RVVGALSAYEQAFLLGAVQRARWGRDLATFGVCNTGDRQAALPSLRRLGAWLRDPGGQRLVVLHLEEVW  
 EPTPSLRFQEPGGAGPPELALLVLYPGPEVTVTRAGLPGAQSLCPSRDTRYLVLAVDPRPAGAWRGS  
 GLALTLQPRGEDSRLSTARLQALLFGDDHRCFTRMTPALLLLPRSEPAPLPAHQQLDTPFPFPPRPSAEL  
 EESPPSADPFLETLTRLVRALRVPPARASAPRLALDPDALAGFPQGLVNLSDPAALERLLDGEPLLLLL  
 RPTAATTGDPAPLHDPTSAPWATALARRVAAELQAAAELRSLPGLPPATAPLLARLLALCPGGPGLGD  
 PLRALLLLKALQGLRVEWRGRDPRGPGRAQRSAGATAADGPCALRELSVDLRAERSVLIPETYQANNCQG  
 VCGWPQSDRNPRYGNHVLLLLKMQARGAALARPPCCVPTAYAGKLLISLSEERISAHVPMNVATECGCR

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg3074\\_d01.zip](https://cdn.origene.com/chromatograms/mg3074_d01.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**

**ACCN:** NM\_000479

**ORF Size:** 1680 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).

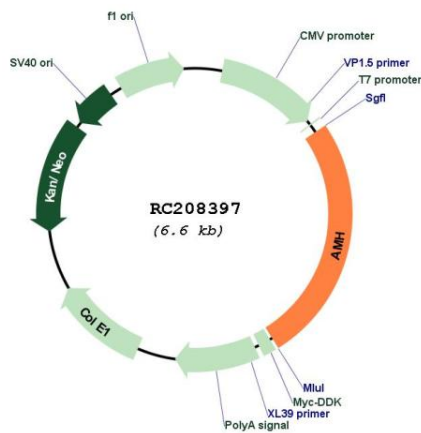
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
  2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
  3. Close the tube and incubate for 10 minutes at room temperature.
  4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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\\_000479.5](#)

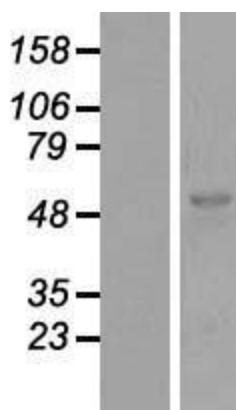
**RefSeq Size:** 2008 bp  
**RefSeq ORF:** 1683 bp  
**Locus ID:** 268  
**UniProt ID:** [P03971](#)  
**Cytogenetics:** 19p13.3  
**Protein Families:** Druggable Genome, Secreted Protein  
**Protein Pathways:** Cytokine-cytokine receptor interaction, TGF-beta signaling pathway  
**MW:** 59.17 kDa

**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. Mutations in this gene result in persistent Mullerian duct syndrome. [provided by RefSeq, Jul 2016]

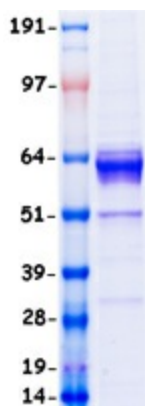
### Product images:



Circular map for RC208397



Western blot validation of overexpression lysate (Cat# [LY424689]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208397 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AMH protein (Cat# [TP308397]). The protein was produced from HEK293T cells transfected with AMH cDNA clone (Cat# RC208397) using MegaTran 2.0 (Cat# [TT210002]).