

Product datasheet for **RG208397**

AMH (NM_000479) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMH (NM_000479) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMH
Synonyms:	MIF; MIS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208397 representing NM_000479
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGGGACCTGCCTCTCACCAGCCTGGCCCTAGTGCTGTCTGCCCTGGGGGCTCTGCTGGGACTGAGG
 CCCTCAGAGCAGAGGAGCCAGCTGTGGCACCAGTGGCCTCATCTTCCGAGAAGACTTGGACTGGCCTCC
 AGGCATCCCAAGACCTCTGTGCCTGGTGGCACTGGGCGGGGACAGCAATGGCAGCAGCTCCCCCTG
 CGGGTGGTGGGGGCTCTAAGCGCCTATGAGCAGGCCTTCTGGGGGCGTGCAGAGGGCCCGCTGGGGCC
 CCCGAGACCTGGCCACCTTCGGGGTCTGCAACACCGGTGACAGGCAGGCTGCCTTGCCCTCTCTACGGCG
 GCTGGGGGCTGGCTGCGGGACCCTGGGGGACAGCGCCTGGTGGTCTACACCTGGAGGAAGTACCTGG
 GAGCCAACACCTCGCTGAGGTTCCAGGAGCCCCGCCTGGAGGAGCTGGCCCCCAGAGCTGGCGCTGC
 TGGTGTGTACCTGGGCTGGCCCTGAGGTACTGTGACGAGGGCTGGGCTGCCGGGTGCCAGAGCCT
 CTGCCCTCCCGAGACCCCGTACCTGGTGTAGCGGTGACCGCCCTGCGGGGCGCTGGCGGGCTCC
 GGCTGGCCTTGACCCTGCAGCCCCGCGAGAGGACTCCCGGCTGAGTACCGCCCGGCTGCAGGCACTGC
 TGTTTCGGCGACGACCACCGCTGCTTACACGGATGACCCCGCCCTGCTCCTGCTGCCCGGTCCGAGCC
 CGCGCCGCTGCCTGCGCACGGCCAGCTGGACACCGTGCCTTCCCGCCGCCAGGCCATCCCGGAACTC
 GAGGAGTGCACCCAGCGCAGACCCCTTCTGGAGACGCTCACGCGCTGGTGCGGGCGCTGCGGGTCC
 CCCCAGCCCGGGCTCCGCGCCGCGCTGGCCCTGGATCCGACGCGCTGGCCGGCTTCCCGAGGGCT
 AGTCAACTGTGCGACCCCGCGCGCTGGAGCGCTACTCGACGGCGAGGAGCCGCTGCTGCTGCTGCTG
 AGGCCACTGCGGCCACACCGGGATCCTGCGCCCTGCACGACCCACGTGCGCGCTGGGGCCAGG
 CCCTGGCGCGCGCTGGCTGCTGAAGTGAAGCGCGCTGCGGAGCTGCGGAGCTGCGAAGCCTCCCGGGTCTGCC
 TCCGGCCACAGCCCCGCTGCTGGCGCGCTGCTGCGCTCTGCCAGGAGGCCCGCGGCGCTCGCGAT
 CCCCTGCGAGCGCTGCTGCTCCTGAAGCGCTGCAGGGCCTGCGCGTGGAGTGGCGGGGCGGGATCCGC
 GCGGGCCGGTGGGACAGCGCAGCGCGGGGGCCACCGCCGCGACGGCCGTGCGCGCTGCGCGAGCT
 CAGCGTAGACCTCCGCGCCGAGCGCTCCGTACTCATCCCCGAGACCTACCAGGCCAAACAATTGCCAGGGC
 GTGTGCGGCTGGCCTCAGTCCGACCGCAACCCGCGCTACGGCAACACGTGGTGTGCTGCTGAAGATGC
 AGGCCCTGGGGCCCGCTGGCGCGCCACCTGCTGCTGCCACCGCTACCGGGCAAGCTGCTCAT
 CAGCCTGTGGAGGAACGCATCAGCGCGCACACGTGCCAACATGGTGGCCACCGAGTGTGGCTGCCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG208397 representing NM_000479
 Red=Cloning site Green=Tags(s)

MRDLPLTSLALVLSALGALLGTEALRAEPAVGTSGLIIFREDLDWPPGIPQEPLCLVALGGDSNGSSSPL
 RVVGALSAYEQAFLLGAVQRARWGPRLATFGVCNTGDRQAALPSLRRLGAWLRDPGGQRLVVLHLEEVW
 EPTPSLRFQEPPEPPGAGPPELALLVLYPGPGPEVTVTRAGLPGAQSLCPSRDTRYLVLAVDRPAGAWRGS
 GLALTLQPRGEDSRLSTARLQALLFGDDHRCFTRMTPALLLLPRSEPAPLPAHQQLDTPFPFPPRPSAEL
 EESPPSADPFLETTRLVRLRVPPARASAPRLALDPDALAGFPQGLVNLSDPAALERLLDGEELLLLLL
 RPTAATTGDPAPLHDPTSAPWATALARRVAAELQAAAELRSLPGLPPATAPLLARLLALCPGGPGLGD
 PLRALLLLKALQGLRVEWRGRDPRGPGRAQRSAGATAADGPCALREL SVDLRAERSVLIPETYQANNCQG
 VCGWPQSDRNPRYGNHVLLLLKMQARGAALARPPCCVPTAYAGKLLISLSEERISAHVPMVATECGCR

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_000479
ORF Size:	1680 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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_000479.2 , NP_000470.1
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

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]