

Product datasheet for **SC314059**

AMHR2 (NM_020547) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMHR2 (NM_020547) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMHR2
Synonyms:	AMHR; MISR2; MISRII; MRII
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_020547 edited
 CAGCTGTGCTGGCTTATGCTCTTCTCCTTCTGCTGCTGCCATCCTCCAGCAAGATGCTAG
 GGTCTTTGGGGCTTTGGGCATTACTTCCCACAGCTGTGGAAGCACCCCAAACAGGCGAA
 CCTGTGTGTTCTTTGAGGCCCTGGAGTGCAGGGAAGCACAAAGACACTGGGAGAGCTGC
 TAGATACAGGCACAGAGCTCCCCAGAGCTATCCGCTGCCTCTACAGCCGCTGCTGCTTTG
 GGATCTGGAACCTGACCCAAGACCGGGCACAGGTGAAATGCAAGGATGCCGAGACAGTG
 ATGAGCCAGGCTGTGAGTCCCTCCACTGTGACCCAAGTCCCGAGCCACCCAGCCCTG
 GCTCCACTCTTTCACCTGCTCCTGTGGCACTGACTTCTGCAATGCCAATTACAGCCATC
 TGCTCCTCCAGGGAGCCCTGGGACTCCTGGCTCCCAGGGTCCCAGGCTGCCCCAGGTG
 AGTCCATCTGGATGGCACTGGTGTCTGGGGTGTTCCTCCTCCTGCTGCTGCTGG
 GCAGCATCATTTGGCCCTGCTACAGCGAAAGAACTACAGAGTGCAGGAGTGGCCAGTGC
 CAGAGCCAAGGCCAGACTCAGGCAGGGACTGGAGTGTGGAGTGCAGGAGCTGCCTGAGC
 TGTGTTTCTCCCAGCAGTAATCCGGGAAGGAGGTGATGCAGTGGTTTGGCCGGGCAGC
 TGCAAGGAAAAGTGGTTGCCATCAAGGCCTTCCCACCGAGGTCTGTGGCTCAGTTCCAAG
 CTGAGAGAGCATTGTACGAACCTCCAGGCCTACAGCACGACCACATTGTCGGATTATCA
 CTGCCAGCCGGGGGGTCTGGCCGCTGCTCTCTGGGCCCTGCTGGTACTGGAAGTGC
 ATCCCAAGGGCTCCCTGTGCCACTACTTGACCCAGTACACCAGTACTGGGGAAGTTCCC
 TGCGGATGGCACTGTCCCTGGCCAGGGCTGGCATTCTCCATGAGGAGCGCTGGCAGA
 ATGGCCAAAATAAACAGGTATTGCCACCGAGATCTGAGCAGCCAGAATGTGCTCATTC
 GGGGAAGATGGATCGTGTGCCATTGGAGACTGGGCCTTGCCCTGGTGCTCCCTGGCCCA
 CTCAGCCCCCTGCCTGGACCCCTACTCAACCACAAGGCCAGCTGCCATCATGGAAGCTG
 GCACCCAGAGGTACATGGCACCAGAGCTTTGGACAAGACTCTGGACCTACAGGATTGGG
 GCATGGCCCTCCGACGAGCTGATATTTACTCTTTGGCTCTGCTCCTGTGGGAGATACTGA
 GCCGCTGCCAGATTTGAGGCCTGACAGCAGTCCACCACCTTCCAAGTGGCCTATGAGG
 CAGAACTGGGCAATACCCTACCTCTGATGAGCTATGGGCCTTGCAAGTGCAGGAGAGGA
 GGCGTCCCTACATCCCATCCACCTGGCGCTGCTTTGCCACAGACCCTGATGGGCTGAGGG
 AGCTCCTAGAAGACTGTTGGGATGCAGACCCAGAAGCACGGCTGACAGCTGAGTGTGTAC
 AGCAGCGCTGGCTGCCTGGCCATCCTCAAGAGAGCCACCCCTTCCAGAGAGCTGTC
 CACGTGGCTGCCACCTCTGCCCAGAAGACTGTAATTCAATCCTGCCCTACCATCC
 TCCCTGTAGGCCTCAGCGGAGTGCCTGCCACTCAGCGTTCAGCAAGGCCCTTGTTC
 GGAACTCCTCAGCCTGCCTGTACCCTTTCTCCTGTGTAATATGCAGTTTATGTGTCATCA
 ATGTACATGCCAACATAAATATGGCGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_020547 unedited
 GTTCAAATTTTGAATACGACTCACTATAGNNGGCGGCCGNCNNNATTNNGCCCTTCA
 GCTGTGCTGGCTTATGCTCTTCTCCTTCTGCTGCTGCCATCCTCCAGCAAGATGCTAGGG
 TCTTTGGGGCTTTGGGCATTACTTCCCACAGCTGTGGAAGCACCCCAAACAGGCGAAC
 TGTGTGTTCTTTGAGGCCCTGGAGTGCAGGGAAGCACAAAGACACTGGGAGAGCTGCTA
 GATACAGGCACAGAGCTCCCCAGAGCTATCCGCTGCCTCTACAGCCGCTGCTGCTTTGGG
 ATCTGGAACCTGACCCAAGACCGGGCACAGGTGGAATGCAAGGATGCCGAGACAGTGT
 GAGCCAGGCTGTGAGTCCCTCCACTGTGACCCAAGTCCCGAGCCACCCAGCCCTGGC
 TCCACTCTTTCACCTGCTCCTGTGGCACTGACTTCTGCAATGCCAATTACAGCCATCTG
 CCTCCTCCAGGGAGCCCTGGGACTCCTGGCTCCCAGGGTCCCAGGCTGCCCCAGGTGAG
 TCCATCTGGATGGCACTGGTGTCTGGNGCTGTTCTCCTCCTCCTGCTGCTGCTGGGC
 AGCATCATCTTGGCCCTGCTACAGCGAAAGAACTACAGAGTGCAGGAGTGCAGGAGTGC
 GAGCCAAAGGCCAGACTCANGCAGGGACTGGAGTGTGGAGCTGCNAGAGCTGCCTGAGCTG
 TGNTTCTCCCAGCAGGTAATCCGGGAAGGGAGTATGCAGTGTGTTTGGGCCGGGCAGCTG
 CAAGGAAAAGTGGTTGCCATCAAGCCCTTCCACCGAGGTCTGTGGCTCAGTTCCCAACT
 GAGAAAGCATTGTACGAACCTTNCAGGGCTACAGGACGACCACATTGTGCGATTTTTC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_020547 unedited CCCCATTTGGNGATGGCAACTTCCAGNCCAGGNAAGCACTNNGGGGNNAGGGGTNCACA GGGATGCCACCCGGGATCTGTTCAGGAAACAGCTATGACCCGCGCCGCAATCTAGAGTCG ACAAGCTTGATATCGGTACCAGATCTGAATTCGCCCTTTCGCCATATTTATGTTGGCATG TACATTGATGACACATAAACTGCATATTTACACAGGAGAAAGGGTACAGGCAGGCTGAGG ATTCTTGAACAAGGGCCTTGCTGAACGCTGAAGTGGCAGGCACTCCGCTGAGGCCTACA GGGGAGGATGGTAGGGGAGGAATTGAAGTACAGTCTTCTGGGAGAGAGGTGGGCAGCC ACGTGGACAGCTCTCTGAAAGGGTGGCTCTCTTGAGGATGGGCAAGGCAGCCAGGCG CTGCTGTACACACTCAGCTGTACGCCGTCTTCTGGGTCTGCATCCCAACAGTCTTCTAG GAGCTCCCTCAGCCATCAGGGTCTGTGGCAAAGCAGCGCCAGGTGGATGGGATGTAGGG ACGCTCTCTCTGCACTGCCAAGGCCATAGCTCATCAGAGGTAGGGGTATTGCCAG TTCTGCCTCATAGGCCAGTTGGAAGGGTGGTGGACTGCTGTGAGGCTCANATCTGGCA GCGGCTCAGTATCTCCACAGGAGCAGGCCAAAGAGTAAATATCAGCTCGTCGGAAGGC CATGCCCAATCCTGTNAGTCCAGAGTCTGTCCAAGAGCTCTGGTGCCATGTACCTCTG GGTGCCAGCTTCCATGATGGCAGCTGGGCCTTGTGGTTGAGTANGGGTCCAGCAGGGGG CTGAGTGAAGCCAGGGAGCACCAAGGCAGNCCAGTCTNCAATGGCACACGATCCCAT CTCCCGAATGAGCACAATTCTGC
Restriction Sites:	Please inquire
ACCN:	NM_020547
Insert Size:	1800 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 1 aa and insertion of 1 aa.
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:	<u>NM_020547.1</u> , <u>NP_065434.1</u>
RefSeq Size:	1855 bp
RefSeq ORF:	1722 bp
Locus ID:	269
UniProt ID:	<u>Q16671</u>
Cytogenetics:	12q13.13

Protein Families: Druggable Genome, Protein Kinase, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction, TGF-beta signaling pathway

Gene Summary: This gene encodes the receptor for the anti-Mullerian hormone (AMH) which, in addition to testosterone, results in male sex differentiation. AMH and testosterone are produced in the testes by different cells and have different effects. Testosterone promotes the development of male genitalia while the binding of AMH to the encoded receptor prevents the development of the mullerian ducts into uterus and Fallopian tubes. Mutations in this gene are associated with persistent Mullerian duct syndrome type II. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Sep 2009]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).