

## **Product datasheet for RC403210**

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OriGene Technologies, Inc.

## AMHR2 (NM 020547) Human Mutant ORF Clone

**Product data:** 

**Product Type:** Mutant ORF Clones

Product Name: AMHR2 (NM 020547) Human Mutant ORF Clone

Mutation Description: R80X
Affected Codon#: 80
Affected NT#: 238

**Nucleotide Mutation:** AMHR2 Mutant (R80X), Myc-DDK-tagged ORF clone of Homo sapiens anti-Mullerian hormone

receptor, type II (AMHR2), transcript variant 1 as transfection-ready DNA

**Effect:** Persisen Mullerin dus syndrome

Symbol: AMHR2

Synonyms: AMHR; MISR2; MISRII; MRII

E. coli Selection: Kanamycin (25 ug/mL)

Mammalian Cell Neomycin

Selection:

**Vector:** pCMV6-Entry (PS100001)

 Tag:
 Myc-DDK

 ACCN:
 NM\_020547

ORF Size: 237 bp
Restriction Sites: Sgfl-Mlul

ORF Nucleotide >RC403210 representing NM\_020547

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$ 

GCCGCGATCGCC

ATGCTAGGGTCTTTGGGGCTTTGGGCATTACTTCCCACAGCTGTGGAAGCACCCCCAAACAGGCGAACCTGTGTGTTCTTTGAGGCCCCTGGAGTGCGGGGAAGCACAAAGACACTGGGAAGCTGCTAGATACAGGCACAGAGCTCCCCAGAGCTATCCGCTGCCTCTACAGCCGCTGCTTTTGGGATCTGGAACCTGACCCAAGAC

CGGGCACAGGTGGAAATGCAAGGATGC

AGCGGACCG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC

TGGATTACAAGGATGACGACGA TAAGGTTTAA





Protein Sequence: >RC403210 representing NM\_020547

Red=Cloning site Green=Tags(s)

 ${\tt MLGSLGLWALLPTAVEAPPNRRTCVFFEAPGVRGSTKTLGELLDTGTELPRAIRCLYSRCCFGIWNLTQD}$ 

RAQVEMQGC

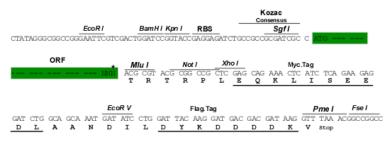
**SGPTRTRRL**EQKLISEEDLAANDILDYKDDDDK**V** 

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codes before the Stan codes of the OR

**OTI Disclaimer:** 

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. <u>More info</u>

**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).

**RefSeq:** NP 065434

RefSeq Size: 237 bp
RefSeq ORF: 1722 bp
Locus ID: 269

Cytogenetics: 12q13.13

**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

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

**MW:** 8.7 kDa





## **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]