

## Product datasheet for **RC212425**

### AMHR2 (NM\_020547) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMHR2 (NM_020547) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMHR2
Synonyms:	AMHR; MISR2; MISRII; MRII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC212425 representing NM\_020547  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTAGGGTCTTTGGGCTTTGGGCATTACTTCCCACAGCTGTGGAAGCACCCCAAACAGGCGAACCT  
 GTGTGTTCTTTGAGGCCCTGGAGTGCGGGGAAGCACAAAGACTGGGAGAGCTGCTAGATACAGGCAC  
 AGAGCTCCCCAGAGCTATCCGCTGCCTCTACAGCCGCTGTGCTTTGGGATCTGGAACCTGACCCAAGAC  
 CGGGCACAGGTGGAATGCAAGGATGCCGAGACAGTGATGAGCCAGGCTGTGAGTCCCTCCACTGTGACC  
 CAAGTCCCGAGCCACCCAGCCCTGGCTCCACTCTTTCACCTGCTCCTGTGGCACTGACTTCTGCAA  
 TGCCAATTACAGCCATCTGCCTCCTCCAGGAGCCCTGGGACTCCTGGCTCCCAGGGTCCCAGGCTGCC  
 CCAGGTGAGTCCATCTGGATGGCACTGGTGTGCTGGGGCTGTTCTCCTCCTCCTGCTGCTGCTGGCA  
 GCATCATCTTGGCCCTGTACAGCGAAAGAACTACAGAGTGCGAGGTGAGCCAGTGCCAGAGCCAAGGCC  
 AGACTCAGGCAGGACTGGAGTGTGGAGCTGCAGGAGCTGCCTGAGCTGTGTTTCTCCAGCAGGTAACT  
 CGGAAGGAGGTCATGCAGTGGTTTGGGCCGGCAGCTGCAAGGAAAAGTGGTTGCCATCAAGGCCCTCC  
 CACCGAGGTCTGTGGCTCAGTTCGAAGCTGAGAGAGCATTGTACGAACTCCAGGCCACAGCACACCA  
 CATTGTCCGATTTACTGCGACCCGGGGGGTCTGGCCGCTGCTCTCTGGGCCCTGCTGGTACTG  
 GAACTGCATCCCAAGGGCTCCCTGTGCCACTACTTGACCCAGTACACCAGTGACTGGGGAAGTCCCTGC  
 GGATGGCACTGTCCCTGGCCAGGGCTGGCATTCTCCATGAGGAGCGCTGGCAGAATGGCCAAAATAA  
 ACCAGGTATTGCCACCGAGATCTGAGCAGCCAGAATGTGCTCATTGGGAAGATGGATCGTGTGCCATT  
 GGAGACCTGGGCCTTGCCTTGGTGTCCCTGGCCTCACTCAGCCCCCTGCCTGGACCCCTACTCAACCAC  
 AAGGCCAGCTGCCATCATGGAAGCTGCCACCCAGAGGTACATGGCACCAGAGCTTTGGACAAGACTCT  
 GGACTACAGGATTGGGGCATGGCCCTCCGACGAGCTGATATTTACTCTTTGGCTCTGCTCCTGTGGGAG  
 ATACTGAGCCGCTGCCAGATTTGAGGCCTGACAGCAGTCCACCACCCTTCCAAGTGGCCTATGAGGAG  
 AACTGGGCAATACCCCTACCTCTGATGAGCTATGGGCCTTGGCAGTGCAGGAGAGGAGGCGTCCCTACAT  
 CCCATCCACCTGGCGCTGCTTTGCCACAGACCCTGATGGGCTGAGGGAGCTCCTAGAAGACTGTTGGGAT  
 GCAGACCCAGAAGCACGGCTGACAGCTGAGTGTGTACAGCAGCGCTGGCTGCCTTGCCCATCCTCAAG  
 AGAGCCACCCCTTCCAGAGAGCTGTCCACGTGGCTGCCACCTCTGCCCAGAAGACTGTACTTCAAT  
 TCCTGCCCTACCATCTCCCTGTAGGCCTCAGCGGAGTGCCTGCCACTCAGCGTTCAGCAAGGCCCT  
 GTTCCAGGAATCCTCAGCTGCCTGTACCCTTCTCCTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC212425 representing NM\_020547  
 Red=Cloning site Green=Tags(s)

MLGSLGLWALLPTAVEAPPNRRTCVFFEAPGVRGSKTLGELLDGTGELPRAIRCLYSRCCFGIWNLTQD  
 RAQVEMQGRDSEPGCESLHCDPSRAHPSPGSTLFTCSGTDFCNANYSHLPPPGSPGTPGSQGPQAA  
 PGESIWMALVLLGLFLLLLLLSIILALLQRKNYRVRGEPVPEPRPDSGRDWSVELQELPELFCFSQQVI  
 REGGHAVVWAGQLQGKLVAIKAFPPRSVAQFQAERALYELPGLQHDHIVRFITASRGGPGRLLSGPLLV  
 ELHPKGSGLCHYLQYTSDWGSSLRMALSLAQGLAFLHEERWQNGQNKPGIAHRDLSSQNVLIREDGSCAI  
 GDLGLALVLPGLTQPPAWTPTQPQGPAAIMEAGTQRYMAPELLDKTLDLQDWGMALRRADIYSLALLLWE  
 ILSRCPDLRPDSSPPFQLAYEELGNTPTSDELWALAVQERRRPYIPSTWRCFATDPDGLRELLEDWCW  
 ADPEARLTAECVQQLAALAHQPESHPPESCPRGCPPLCPEDCTSIPAPTILPCRPQRSACHFSVQQGP  
 CSRNPQPACTLSPV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk6111\\_h08.zip](https://cdn.origene.com/chromatograms/mk6111_h08.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_020547

**ORF Size:** 1722 bp

**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. [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\\_020547.3](#)

**RefSeq Size:** 1855 bp

**RefSeq ORF:** 1722 bp

**Locus ID:** 269

**UniProt ID:** [Q16671](#)

**Cytogenetics:** 12q13.13

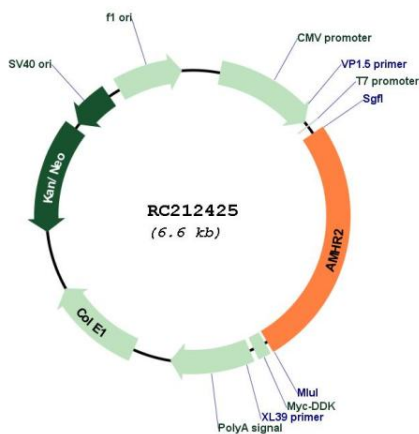
**Protein Families:** Druggable Genome, Protein Kinase, Transmembrane

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

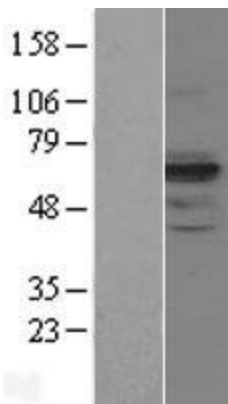
**MW:** 62.6 kDa

**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]

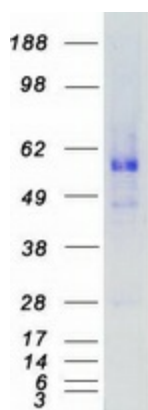
**Product images:**



Circular map for RC212425



Western blot validation of overexpression lysate (Cat# [LY402792]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC212425 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AMHR2 protein (Cat# [TP312425]). The protein was produced from HEK293T cells transfected with AMHR2 cDNA clone (Cat# RC212425) using MegaTran 2.0 (Cat# [TT210002]).