

## Product datasheet for **RC228924**

### AMHR2 (NM\_001164690) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMHR2 (NM_001164690) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	AMHR2
Synonyms:	AMHR; MISR2; MISRII; MRII
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC228924 representing NM\_001164690  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCTAGGGTCTTTGGGGCTTTGGGCATTACTTCCCACAGCTGTGAAGCACCCCAACAGGCGAACCT  
 GTGTGTTCTTTGAGGCCCTGGAGTGCGGGGAAGCACAAAGACTGGGAGAGCTGCTAGATACAGGCAC  
 AGAGCTCCCCAGAGCTATCCGCTGCCTCTACAGCCGCTGCTGCTTTGGGATCTGGAACCTGACCCAAGAC  
 CGGGCACAGGTGGAATGCAAGGATGCCGAGACAGTGATGAGCCAGGCTGTGAGTCCCTCCACTGTGACC  
 CAAGTCCCGAGCCACCCAGCCCTGGCTCCACTCTCTTACCTGCTCCTGTGGCACTGACTTCTGCAA  
 TGCCAATTACAGCCATCTGCCTCCTCCAGGAGCCCTGGGACTCCTGGCTCCCAGGGTCCCAGGCTGCC  
 CCAGGTGAGTCCATCTGGATGGCACTGGTGTGCTGGGGCTGTTCTCCTCCTCCTGCTGCTGCTGGCA  
 GCATCATCTTGGCCCTGTACAGCGAAAGAACTACAGAGTGCGAGGTGAGCCAGTGCCAGAGCCAAGGCC  
 AGACTCAGGCAGGACTGGAGTGTGGAGCTGCAGGAGCTGCCTGAGCTGTGTTTTCTCCAGGTAATCCGG  
 GAAGGAGTTCATGCAAGTGGTTTGGGCGGGCAGCTGCAAGGAAAAGTGGTTGCCATCAAGGCCTTCCCAC  
 CGAGGTCTGTGGCTCAGTTCCAAGCTGAGAGAGCATTGTACGAATTCCAGGCCTACAGCACGACCACAT  
 TGTCCGATTTATCACTGCCAGCCGGGGGGTCTGGCCGCTGCTCTCTGGGCCCTGCTGGTACTGGAA  
 CTGCATCCCAAGGGCTCCCTGTGCCACTACTTGACCCAGTACACCAGTGACTGGGGAAGTTCCCTGCGGA  
 TGGCACTGTCCCTGGCCAGGGCTGGCATTCTCCATGAGGAGCGCTGGCAGAAATGGCCAATAAACC  
 AGGTATTGCCACCGAGATCTGAGCAGCCAGAAATGTGCTCATTGCGGAAGATGGATCGTGTGCCATTGGA  
 GACCTGGGCTTGCCTTGGTGTCCCTGGCCTCACTCAGCCCCCTGCCTGGACCCCTACTCAACCACAAG  
 GCCCAGCTGCCATCATGGAAGCTGGCACCAGAGGTACATGGCACCAGAGCTCTTGGCAAGACTCTGGA  
 CCTACAGGATTGGGGCATGGCCCTCCGACGAGCTGATATTTACTCTTTGGCTCTGCTCCTGTGGGAGATA  
 CTGAGCCGCTGCCAGATTTGAGCCTGCAGTCCACCACCTTCCAAGTGGCCTATGAGGAGAAGTGGG  
 CAATACCCTACCTCTGATGAGCTATGGCCCTGGCAGTGCAGGAGAGGAGGCGTCCCTACATCCCATCC  
 ACCTGGCGCTGCTTTGCCACAGACCCTGATGGGC

**ACGCGT**ACGCGGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC228924 representing NM\_001164690  
 Red=Cloning site Green=Tags(s)

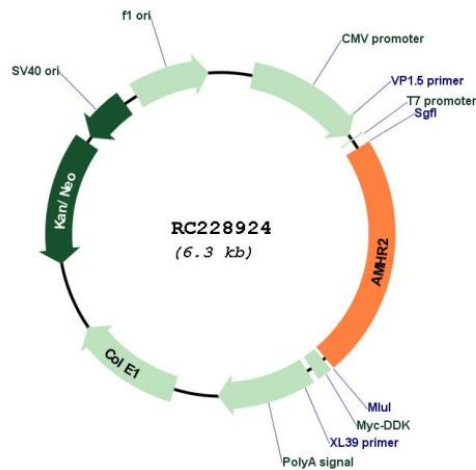
MLGSLGLWALLPTAVEAPPNRRTCFFVFEAPGVRGSKTLGELLDGTGELPRAIRCLYSRCCFGIWNLTQD  
 RAQVEMQGCGRDSEPGCESLHCDPSRAHPSPGSTLFTCSCGTFDFCNANYSHLPPPGSPGTPGSQGPQAA  
 PGESIWMALVLLGLFLLLLLLLLLSIILALLQRKNYRVRGEPVPEPRPDSGRDWSVELQELPELCFSQVIR  
 EGGHAVVWAGQLQGKLVAIKAFPPRSVAQFQAERALYELPGLQHDHIVRFITASRGGPGRLLSGPLL VLE  
 LHPKGSLSCHYLTYTSDWGSRLMALSLAQGLAFLHEERWQNGQYKPGIAHRDLSSQNVLIREDGSCAIG  
 DLGLALVLPGLTQPPAWTPTQPQGPAAIMEAGTQRYMAPELLDKTLDLQDWGMALRRADIYSLALLLWEI  
 LSRCPDLRPAVHHPNWPMPQNWAIPLPLMSYGPWQCRRGGVPTSHPPGAALPQTLMG

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_001164690

**ORF Size:** 1434 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001164690.2</a>
<b>RefSeq Size:</b>	1859 bp
<b>RefSeq ORF:</b>	1437 bp
<b>Locus ID:</b>	269
<b>UniProt ID:</b>	<a href="#">Q16671</a>
<b>Cytogenetics:</b>	12q13.13
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transmembrane
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, TGF-beta signaling pathway
<b>MW:</b>	52.2 kDa
<b>Gene Summary:</b>	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]