

## Product datasheet for **RC403212**

### 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:	G142V
Affected Codon#:	142
Affected NT#:	425
Nucleotide Mutation:	AMHR2 Mutant (G142V), 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 Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
Tag:	Myc-DDK
ACCN:	NM_020547
ORF Size:	1719 bp
Restriction Sites:	Sgfi-Mlul



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**ORF Nucleotide Sequence:**

>RC403212 representing NM\_020547  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTAGGGTCTTTGGGGCTTTGGGCATTACTTCCCACAGCTGTGGAAGCACCCCAACAGCGCAACCT  
 GTGTGTTCTTTGAGGCCCTGGAGTGC GGGAAGCACAAAGACTGGGAGAGCTGCTAGATACAGGCAC  
 AGAGCTCCCCAGAGCTATCCGCTGCCTCTACAGCCGCTGCTGCTTTGGGATCTGGAACCTGACCCAAAGC  
 CGGGCACAGGTGAAATGCAAGGATGCCGAGACAGTGATGAGCCAGGCTGTGAGTCCCTCCACTGTGACC  
 CAAGTCCCCGAGCCACCCAGCCCTGGCTCCACTCTCTTACCTGCTCTGTGGCACTGACTTCTGCAA  
 TGCCAATTACAGCCATCTGCCTCCTCCAGGGAGCCCTGGGACTCCTGGCTCCAGGGTCCCAGGCTGCC  
 CCAGTTGAGTCCATCTGGATGGCACTGGTGTCTGCTGGGGCTGTTCTCTCTCTCTGCTGCTGCTGGCA  
 GCATCATCTTGGCCCTGTACAGCGAAAGAAGTACAGAGTGCAGGAGTGCCTGAGCTGTGTTTCTCCAGGTAATCCGG  
 AGACTCAGGCAGGGACTGGAGTGTGGAGCTGCAGGAGTGCCTGAGCTGTGTTTCTCCAGGTAATCCGG  
 GAAGGAGGTATGCAGTGGTTTGGGCCGGCAGCTGCAAGGAAAAGTGGTTGCCATCAAGGCCTTCCCAC  
 CGAGGTCTGTGGCTCAGTTCCAAGCTGAGAGAGCATTGTACGAACTTCCAGGCCACAGCACGACCACAT  
 TGTCCGATTTACTGCTGCCAGCCGGGGGGTCTGCGCCGCTGCTCTGCGCCCTGCTGGTACTGGAA  
 CTGCATCCCAAGGGTCCCTGTGCCACTACTTGACCCAGTACACCAGTACTGGGGAAGTTCCTGCGGA  
 TGGCACTGTCCCTGGCCAGGGCTGGCATTCTCCATGAGGAGCGTGGCAGAAATGGCCAATAAAACC  
 AGGTATGCCCACCGAGATCTGAGCAGCCAGAATGTGCTATTCGGAAGATGGATCGTGTGCCATTGGA  
 GACCTGGGCCCTTGCTTGGTCTCCCTGGCCTCACTCAGCCCTGCTGGACCCTACTCAACCACAAG  
 GCCAGTGGCCATCATGGAAGCTGGCACCAGAGGTACATGGCACCAGAGCTCTGGACAAGACTGGA  
 CCTACAGGATTGGGGCATGGCCCTCCGACGAGCTGATATTTACTCTTTGGCTCTGCTCCTGTGGGAGATA  
 CTGAGCCGCTGCCAGATTTGAGGCCTGACAGCAGTCCACCACCCTTCCAAGTGGCTATGAGGCAGAAC  
 TGGGCAATACCCCTACCTCTGATGAGCTATGGGCCTTGGCAGTGCAGGAGAGGAGGCGTCCCTACATCCC  
 ATCCACCTGGCGCTGCTTTGCCACAGACCCTGATGGGCTGAGGGAGCTCCTAGAAGACTGTTGGGATGCA  
 GACCCAGAAGCACGGCTGACAGCTGAGTGTGTACAGCAGCGCCTGGTGCCTTGGCCATCTCAAGAGA  
 GCCACCCTTTCCAGAGAGCTGTCCACGTGGCTGCCACCTCTCTGCCAGAAGACTGTACTTCAATTCC  
 TGCCCTACCATCTCCCTGTAGGCCTCAGCGGAGTGCCTGCCACTTACGCTTCAGCAAGGCCCTTGT  
 TCCAGGAATCCTCAGCCTGCCTGTACCTTTCTCTGTG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

**Protein Sequence:**

>RC403212 representing NM\_020547  
 Red=Cloning site Green=Tags(s)

MLGSLGLWALLPTAVEAPPNRRTCVFFEAPGVRGSKTLGELLDGTGTELPRAIRCLYSRCCFGIWNLTQD  
 RAQVEMQGRDSEPGCESLHCDPSRAHPSPGSTLFTCSCGTDFCNANYSHLPPPGSPGTPGSQGPQAA  
 PVESIWMALVLLGLFLLLLLLLLSIILALLQRKNYRVRGEPVPEPRPDSGRDWSVELQELPELFCFSQVIR  
 EGGHAVVWAGQLQGKLVAIKAFPPRSVAQFQAERALYELPGLQHDHIVRFITASRGGPGRLLSGPLLVLE  
 LHPKGSLSCHYLQYTSDWGSSLRMALSLAQGLAFLHEERWQNGQYKPGIAHRDLSSQNVLIREDGSCAIG  
 DLGLALVLPGLTQPPAWTPTQPQGPAAIMEAGTQRYMAPELLDKTLDLQDWGMALRRADIYSLALLLWEI  
 LSRCPLDRPDSSPPFQLAYEAE LGNTPTSDDELWALAVQERRRPIYIPSTWRCFATDPDGLRELLEDWCWA  
 DPEARLTAEVQQLAALAHQPESHPPFESCPRGCPPLCPEDCTSIPTILPCRQRSACHFSVQQGPC  
 SRNPQPACTLSPV

**SGP**TRTRRLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**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).

**RefSeq:**

[NP\\_065434](#)

**RefSeq Size:**

1719 bp

**RefSeq ORF:**

1722 bp

**Locus ID:**

269

<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>	63 kDa
<b>Gene Summary:</b>	<p>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]</p>