

Product datasheet for **RC403213**

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:	H282Q
Affected Codon#:	282
Affected NT#:	846
Nucleotide Mutation:	AMHR2 Mutant (H282Q), 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:

>RC403213 representing NM_020547
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTAGGGTCTTTGGGGCTTTGGGCATTACTTCCACAGCTGTGGAAGCACCCCAACAGGCGAACCT
 GTGTGTTCTTTGAGGCCCTGGAGTGC GGGAAGCACAAAGACTGGGAGAGCTGCTAGATACAGGCAC
 AGAGCTCCCCAGAGCTATCCGCTGCCTCTACAGCCGCTGCTGCTTTGGGATCTGGAACCTGACCCAAAGC
 CGGGCACAGGTGAAATGCAAGGATGCCGAGACAGTGATGAGCCAGGCTGTGAGTCCCTCCACTGTGACC
 CAAGTCCCCGAGCCACCCAGCCCTGGCTCCACTCTCTTACCTGCTCTGTGGCACTGACTTCTGCAA
 TGCCAATTACAGCCATCTGCCTCCTCCAGGGAGCCCTGGGACTCCTGGCTCCAGGGTCCCAGGCTGCC
 CCAGGTGAGTCCATCTGGATGGCACTGGTGTCTGCTGGGGCTGTTCTCCTCCTCCTGCTGCTGCTGGCA
 GCATCATCTTGGCCCTGTACAGCGAAAGAACTACAGAGTGCAGGAGTGCCTGAGCTGTGTTTCTCCAGGTAATCCGG
 AGACTCAGGCAGGGACTGGAGTGTGGAGCTGCAGGAGTGCCTGAGCTGTGTTTCTCCAGGTAATCCGG
 GAAGGAGGTATGCAGTGGTTTGGGCCGGCAGCTGCAAGGAAAAGTGGTTGCCATCAAGGCCTTCCCAC
 CGAGGTCTGTGGCTCAGTTCCAAGCTGAGAGAGCATTGTACGAACTTCCAGGCCACAGCACGACCACAT
 TGTCCGATTTACTGTCAGCCGGGGGGTCTGCGCCGCTGCTCTGCGCCCTGCTGGTACTGGAA
 CTGCAGCCCAAGGGTCCCTGTGCCACTACTTGACCCAGTACACCAGTACTGGGGAAGTTCCCTGCGGA
 TGGCACTGTCCCTGGCCAGGGCTGGCATTCTCCATGAGGAGCGTGGCAGAATGGCCAATATAAACC
 AGGTATGCCCACCGAGATCTGAGCAGCCAGAATGTGCTATTCGGAAGATGGATCGTGTGCCATTGGA
 GACCTGGGCCTTGCTTGGTCTCCCTGGCCTACTCAGCCCTGCTGGACCCTACTCAACCACAAG
 GCCAGTGCATCATGGAAGCTGGCACCAGAGTACATGGCACCAGAGCTCTGGACAAGACTGGA
 CCTACAGGATTGGGGCATGGCCCTCCGACGAGCTGATATTTACTCTTTGGCTCTGCTCCTGTGGGAGATA
 CTGAGCCGCTGCCAGATTTGAGGCCTGACAGCAGTCCACCACCCTTCCAAGTGGCTATGAGGCAGAAC
 TGGGCAATACCCCTACCTCTGATGAGCTATGGGCCTTGGCAGTGCAGGAGAGGAGGCGTCCCTACATCCC
 ATCCACCTGGCGCTGCTTTGCCACAGACCCTGATGGGCTGAGGGAGCTCCTAGAAGACTGTTGGGATGCA
 GACCCAGAAGCACGGCTGACAGCTGAGTGTGTACAGCAGCGCCTGGTGCCTTGGCCATCCTCAAGAGA
 GCCACCCTTTCCAGAGAGCTGTCCACGTGGCTGCCACCTCTCTGCCAGAAGACTGTACTTCAATTCC
 TGCCCTACCATCCTCCCTGTAGGCCTCAGCGGAGTGCCTGCCACTTACGCGTTCAGCAAGGCCCTTGT
 TCCAGGAATCCTCAGCCTGCCTGTACCTTTTCTCTGTG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC403213 representing NM_020547
 Red=Cloning site Green=Tags(s)

MLGSLGLWALLPTAVEAPPNRRTCVFFAPGVRGSKTLGELLDGTGTELPRAIRCLYSRCCFGIWNLTQD
 RAQVEMQGRDSEPGCESLHCDPSRAHPSPGSTLFTCSCGTDFCNANYSHLPPPGSPGTPGSQGPQAA
 PGESIWMALVLLGLFLLLLLLLLLSIILALLQRKNYRVRGEPVPEPRPDSGRDWSVELQELPELFCFSQVIR
 EGGHAVVWAGLQGLVAIKAFPPRSVAQFQAERALYELPGLQHDHIVRFITASRGGPGRLLSGPLLVLE
 LQPKGSLCHYLTYTSDWSSLRMALSLAQGLAFLHEERWQNGQYKPGIAHRDLSSQNVLIREDGSCAIG
 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

Cytogenetics:	12q13.13
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Cytokine-cytokine receptor interaction, TGF-beta signaling pathway
MW:	63 kDa
Gene Summary:	<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>