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Product datasheet for RC403209

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:	R54C
Affected Codon#:	54
Affected NT#:	160
Nucleotide Mutation:	AMHR2 Mutant (R54C), 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-MluI

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ORF Nucleotide Sequence:

>RC403209 representing NM_020547
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTAGGGTCTTTGGGGCTTTGGGCATTACTTCCCACAGCTGTGGAAGCACCCCCAAACAGGCGAACCT
GTGTGTTCTTTGAGGCCCCTGGAGTGCGGGGAAGCACAAAGACACTGGGAGAGCTGCTAGATACAGGCAC
AGAGCTCCCCAGAGCTATCTGCTGCCTCTACAGCCGCTGCTGCTTTGGGATCTGGAACCTGACCCAAGAC
CGGGCACAGGTGGAAATGCAAGGATGCCGAGACAGTGATGAGCCAGGCTGTGAGTCCCTCCACTGTGACC
CAAGTCCCCGAGCCCACCCCAGCCCTGGCTCCACTCTCTTCACCTGCTCCTGTGGCACTGACTTCTGCAA
TGCCAATTACAGCCATCTGCCTCCTCCAGGGAGCCCTGGGACTCCTGGCTCCCAGGGTCCCCAGGCTGCC
CCAGGTGAGTCCATCTGGATGGCACTGGTGCTGCTGGGGCTGTTCCTCCTCCTCCTGCTGCTGCTGGGCA
GCATCATCTTGGCCCTGCTACAGCGAAAGAACTACAGAGTGCGAGGTGAGCCAGTGCCAGAGCCAAGGCC
AGACTCAGGCAGGGACTGGAGTGTGGAGCTGCAGGAGCTGCCTGAGCTGTGTTTCTCCCAGGTAATCCGG
GAAGGAGGTCATGCAGTGGTTTGGGCCGGGCAGCTGCAAGGAAAACTGGTTGCCATCAAGGCCTTCCCAC
CGAGGTCTGTGGCTCAGTTCCAAGCTGAGAGAGCATTGTACGAACTTCCAGGCCTACAGCACGACCACAT
TGTCCGATTTATCACTGCCAGCCGGGGGGGTCCTGGCCGCCTGCTCTCTGGGCCCCTGCTGGTACTGGAA
CTGCATCCCAAGGGCTCCCTGTGCCACTACTTGACCCAGTACACCAGTGACTGGGGAAGTTCCCTGCGGA
TGGCACTGTCCCTGGCCCAGGGCCTGGCATTTCTCCATGAGGAGCGCTGGCAGAATGGCCAATATAAACC
AGGTATTGCCCACCGAGATCTGAGCAGCCAGAATGTGCTCATTCGGGAAGATGGATCGTGTGCCATTGGA
GACCTGGGCCTTGCCTTGGTGCTCCCTGGCCTCACTCAGCCCCCTGCCTGGACCCCTACTCAACCACAAG
GCCCAGCTGCCATCATGGAAGCTGGCACCCAGAGGTACATGGCACCAGAGCTCTTGGACAAGACTCTGGA
CCTACAGGATTGGGGCATGGCCCTCCGACGAGCTGATATTTACTCTTTGGCTCTGCTCCTGTGGGAGATA
CTGAGCCGCTGCCCAGATTTGAGGCCTGACAGCAGTCCACCACCCTTCCAACTGGCCTATGAGGCAGAAC
TGGGCAATACCCCTACCTCTGATGAGCTATGGGCCTTGGCAGTGCAGGAGAGGAGGCGTCCCTACATCCC
ATCCACCTGGCGCTGCTTTGCCACAGACCCTGATGGGCTGAGGGAGCTCCTAGAAGACTGTTGGGATGCA
GACCCAGAAGCACGGCTGACAGCTGAGTGTGTACAGCAGCGCCTGGCTGCCTTGGCCCATCCTCAAGAGA
GCCACCCCTTTCCAGAGAGCTGTCCACGTGGCTGCCCACCTCTCTGCCCAGAAGACTGTACTTCAATTCC
TGCCCCTACCATCCTCCCCTGTAGGCCTCAGCGGAGTGCCTGCCACTTCAGCGTTCAGCAAGGCCCTTGT
TCCAGGAATCCTCAGCCTGCCTGTACCCTTTCTCCTGTG

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGA TAAGGTTTAA

Protein Sequence:

>RC403209 representing NM_020547
Red=Cloning site Green=Tags(s)

MLGSLGLWALLPTAVEAPPNRRTCVFFEAPGVRGSTKTLGELLDTGTELPRAICCLYSRCCFGIWNLTQD
RAQVEMQGCRDSDEPGCESLHCDPSPRAHPSPGSTLFTCSCGTDFCNANYSHLPPPGSPGTPGSQGPQAA
PGESIWMALVLLGLFLLLLLLLGSIILALLQRKNYRVRGEPVPEPRPDSGRDWSVELQELPELCFSQVIR
EGGHAVVWAGQLQGKLVAIKAFPPRSVAQFQAERALYELPGLQHDHIVRFITASRGGPGRLLSGPLLVLE
LHPKGSLCHYLTQYTSDWGSSLRMALSLAQGLAFLHEERWQNGQYKPGIAHRDLSSQNVLIREDGSCAIG
DLGLALVLPGLTQPPAWTPTQPQGPAAIMEAGTQRYMAPELLDKTLDLQDWGMALRRADIYSLALLLWEI
LSRCPDLRPDSSPPPFQLAYEAELGNTPTSDELWALAVQERRRPYIPSTWRCFATDPDGLRELLEDCWDA
DPEARLTAECVQQRLAALAHPQESHPFPESCPRGCPPLCPEDCTSIPAPTILPCRPQRSACHFSVQQGPC
SRNPQPACTLSPV

SGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

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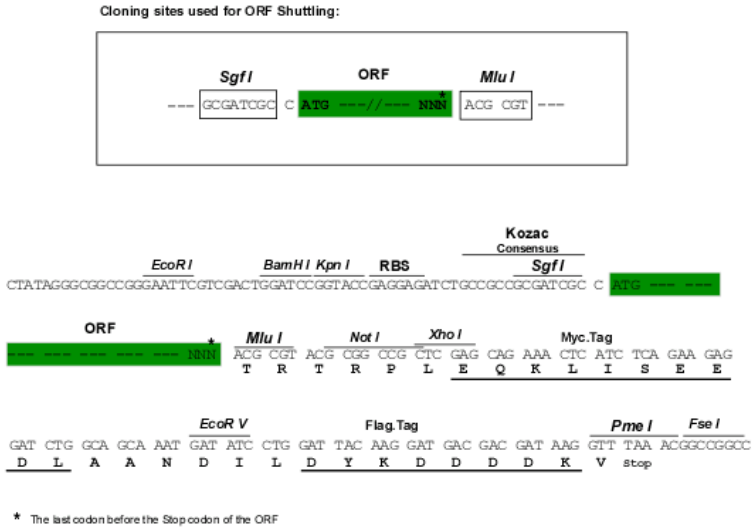
Cloning Scheme:



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).

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NP_065434

RefSeq Size: 1719 bp

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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:	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]

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