

## Product datasheet for **RG212425**

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

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | AMHR2 (NM_020547) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                 |
| Symbol:                   | AMHR2                                    |
| Synonyms:                 | AMHR; MISR2; MISRII; MRII                |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-AC-GFP (PS100010)                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |



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**ORF Nucleotide Sequence:**

>RG212425 representing NM\_020547  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTAGGGTCTTTGGGGCTTTGGGCATTACTTCCCACAGCTGTGGAAGCACCCCAACAGGGCAACCT  
 GTGTGTTCTTTGAGGCCCTGGAGTGCGGGGAAGCACAAGACACTGGGAGAGCTGCTAGATACAGGCAC  
 AGAGCTCCCCAGAGCTATCCGCTGCCTCTACAGCCGCTGTGCTTTGGGATCTGGAACCTGACCCAAGAC  
 CGGGCACAGGTGGAATGCAAGGATGCCGAGACAGTGATGAGCCAGGCTGTGAGTCCCTCCACTGTGACC  
 CAAGTCCCGAGCCACCCAGCCCTGGCTCCACTCTCTTACCTGCTCCTGTGGCACTGACTTCTGCAA  
 TGCCAATTACAGCCATCTGCCTCCTCCAGGAGCCCTGGGACTCCTGGCTCCCAGGGTCCCAGGCTGCC  
 CCAGGTGAGTCCATCTGGATGGCACTGGTGTGCTGGGGCTGTTCTCCTCCTCCTGCTGCTGCTGGCA  
 GCATCATCTTGGCCCTGTACAGCGAAAGAACTACAGAGTGCGAGGTGAGCCAGTGCCAGAGCCAAGGCC  
 AGACTCAGGCAGGACTGGAGTGTGGAGCTGCAGGAGCTGCCTGAGCTGTGTTTCTCCAGCAGGTAACT  
 CGGAAGGAGGTCATGCAGTGGTTTGGGCCGGCAGCTGCAAGGAAAACCTGGTTGCCATCAAGGCCCTCC  
 CACCGAGGTCTGTGGCTCAGTTCGAAGCTGAGAGAGCATTGTACGAACTCCAGGCCACAGCACACCA  
 CATTGTCCGATTTACTGCGACCCGGGGGGTCTGGCCGCTGCTCTCTGGGCCCTGCTGGTACTG  
 GAACTGCATCCCAAGGGCTCCCTGTGCCACTACTTGACCCAGTACACCAGTGACTGGGGAAGTCCCTGC  
 GGATGGCACTGTCCCTGGCCAGGGCTGGCATTCTCCATGAGGAGCGCTGGCAGAATGGCCAAAATAA  
 ACCAGGTATTGCCACCAGATCTGAGCAGCCAGAATGTGCTCATTGGGAAGATGGATCGTGTGCCATT  
 GGAGACTGGGCCTTGCCTTGGTGTCCCTGGCCTCACTCAGCCCCCTGCCTGGACCCCTACTCAACCAC  
 AAGGCCAGCTGCCATCATGGAAGCTGGCACCCAGAGGTACATGGCACCAGAGCTTTGGACAAGACTCT  
 GGACTACAGGATTGGGGCATGGCCCTCCGACGAGCTGATATTTACTCTTTGGCTCTGCTCCTGTGGGAG  
 ATACTGAGCCGCTGCCAGATTTGAGGCCTGACAGCAGTCCACCACCCTTCCAACCTGGCCTATGAGGAG  
 AACTGGGCAATACCCCTACCTCTGATGAGCTATGGGCCTTGGCAGTGCAGGAGAGGAGGCGTCCCTACAT  
 CCCATCCACCTGGCGCTGCTTTGCCACAGACCCTGATGGGCTGAGGGAGCTCCTAGAAGACTGTTGGGAT  
 GCAGACCCAGAAGCACGGCTGACAGCTGAGTGTGTACAGCAGCGCTGGCTGCCTTGCCCATCTCAAG  
 AGAGCCACCCCTTCCAGAGAGCTGTCCACGTGGCTGCCACCTCTGCCCAGAAGACTGTACTTCAAT  
 TCCTGCCCTACCATCTCCCTGTAGGCCTCAGCGGAGTGCCTGCCACTCAGCGTTCAGCAAGGCCCT  
 GTTCCAGGAATCCTCAGCCTGCCTGTACCCTTCTCCTGTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG212425 representing NM\_020547  
 Red=Cloning site Green=Tags(s)

MLGSLGLWALLPTAVEAPPNRRTCVFFEAPGVRGSKTLGELLDGTGELPRAIRCLYSRCCFGIWNLTQD  
 RAQVEMQGRDSDPEGCESLHCDPSRAHPSPGSTLFTCSGTDFCNANYSHLPPPGSPGTPGSQGPQAA  
 PGESIWMALVLLGLFLLLLLLGSIIALLQRKNYRVRGEPVPEPRPDSGRDWSVELQELPELFCFSQQVI  
 REGGHAVVWAGLQGKLVAIKAFPPRSVAQFQAERALYELPGLQHDHIVRFITASRGGPGRLLSGPLLVL  
 ELHPKGSLSLCHYLQYTSDWGSSLRMALSLAQGLAFLHEERWQNGQNKPGIAHRDLSSQNVIREDGSCAI  
 GDLGLALVLPGLTQPPAWTPTQPQGPAAIMEAGTQRYMAPELLDKTLDLQDWGMALRRADIYSLALLLWE  
 ILSRCPDLRPDSSPPPFQLAYEAEAGLNTPTSDELWALAVQERRRPYIPSTWRCFATDPDGLRELLED  
 CWDADPEARLTAECVQQLAALAHQPESHPPFESCPRGCPPLCPEDCTSIPAPTILPCRQRSACHFSVQGP  
 CSRNQPACTLSPV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**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](#)

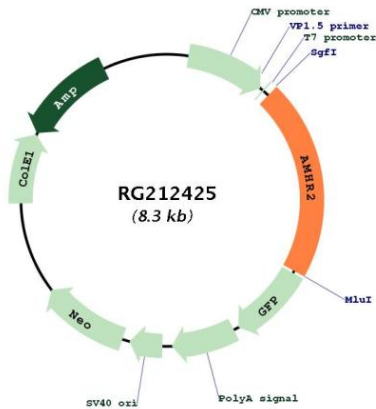
**Cytogenetics:** 12q13.13

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

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

**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 RG212425