

## Product datasheet for **MR209712**

### Amfr (NM\_011787) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Amfr (NM_011787) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Amfr
Synonyms:	gp78
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209712 representing NM\_011787  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGCTGCTTCTCCTCGAGCGCTTCCCGTGGCCAGCCTCCGCACCTACACGGGCCTCAGCGGCCTGG  
 CCTTGCTGGGCACCATCGTCAGCGCCTACCGCGCCTCAGTCAGCCGGAGGACGGCTCGGGTGAAGCCGGA  
 GCCGCTAACGGCCCCACTGCAGCCCGAGCGCGCCTGACCGCGCGGCCCGGCCCGCGACGTGGCC  
 CAGTACCTGCTGTCGGACAGCCTGTTCTGTGGGTTCTGGTGAATACTGCTTGTGTGTTTTGATGTTGG  
 TGGCTAAGCTTATCCAGTGTATTGTGTTCCGCCCTCTTCGAGTGAGTAAAAGACAGCATCTCAAAGACAA  
 GTTTTGGAATTTTATTTCTACAAGTTCATTTTCATTTTGGAGTGTGAATGTCCAGACTGTGGAGGAA  
 GTGGTGTGTGGTGCCTCTGGTTTGTGGACTTGTCTTCTGCATCTGATGGTTCAGCTCTGCAAAGACA  
 GATTTGAATACCTTCTTTTCTCCCACTCCAATGAGCAGCCATGGGAGAGTCTGTCCCTGCTGAT  
 TGCTATGCTGCTCTCCTGCTGTGGACTGGCAGTCTGCTGTGTGCACAGGCTACACACATGGCATGCAC  
 ACCTTGGCTTTCATGGCTGCAGAGTCTTCTTGTGACCGTGAGAACAGCTCATGTGATTTAAGATATG  
 TAATTCACCTCTGGGACCTCAACCACGAAGGGACGTGGGAAGGAAAGGGAACCTATGTGTATTACCCGA  
 CTTTGTGATGGAGCTCGCTCTCCTGTCCCTGGACCTCATGCACCACATCCACATGCTGTTATTTGGCAAC  
 ATCTGGTTATCTATGGCTAGCTTGGTCACTTTATGCAACTTCGTTACCTGTTCCATGAGGTACAGCGTC  
 GAATCCGTCGACACAAGAATTATTTGCGAGTGGTAGGAAACATGGAAGCCAGGTTTGTGTTGCAACTCC  
 AGAGGAACTAGCTGTCAATAATGATGACTGTGCAATCTGCTGGGACTCCATGCAGGCTGCAAGGAAACTG  
 CCCTGTGGACATCTTTTCACAACTCTGCCTTCGTTCTTGGCTAGAACAAGACACCTCTGTCCAACAT  
 GCAGAATGTCTTAATATTGCTGATGGCAGTCTGCCAGGGAAGACCATCAAGGAGAGAACCTGGACGA  
 GAACTTGGTTCCGTAGCAGCTGCCGAAGGCAGGCTCGCTTGAACCAGCACAACTCACTTCTTCCACTTC  
 GATGGGTCGCCGATTGCAAGCTGGCTGCCAAGTTTTTCAGTTGAAGTGATGCACACTACCAACATCTTG  
 GCATCACGCAAGCAACTCTCAGCTAAATGCCATGGCTCATCAGATTGAGGAGATGTTCCCTCAGGT  
 CCCGTACCACCTTGTGCTCCAGGACCTCCAGATGACACGCTCCGTGGAGATAACAACAGATAACATCTTA  
 GAAGGACGGATTCAAGTACCTTTCCCAACGCGGTCGGATAGCCTGAGGCTGCACTGAACAGCCAG  
 TGGAGAGGCCAGCCCTGACCTGGAGGAGGAGAAGCTTCTGTCCAGACGGAGCGTGTACCACTGGACCT  
 CAGTCCCGCTAGAGGAGACCTTGGACTTCAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA  
 GAGGCCGTGGAAGCCGCTTCTCAAGTCTGCTGATGAGAGACAGCGCATGTTAGTTCAGCGCAAGGATG  
 ACCTCCTGCAGCAGGCTCGAAAGCGGTTCTTAAACAAAAGTTCTGAAGATGATGGGCCTCAGAGAGACT  
 CCTCCCTTCTGAAGGCACATCCTCTGACCCCGTGACCCTGCGCCGAAGGATGCTGGCAGCCGCTGCTGAG  
 CGGAGACTTCAGAGGCAACGGACAACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR209712 representing NM\_011787  
Red=Cloning site Green=Tags(s)

MPLLFLERFPWPSLRTYTGLSGLALLGTIVSAYRALSQPEDGSGEPEPLTAPLQPEARLTAGGPRARDVA  
 QYLLSDSLFVWVLVNTACCVLMLVAKLIQCIVFGPLRVSERQHLKDKFWNFIFYKFIFFIGVLNVQTVEE  
 VVMWCLWFAGLVFLHLMVQLCKDRFEYLSFSPTTPMSSHGRVLSLLIAMLLSCCGLAVVCCVTGYTHGMH  
 TLAFAAAESLLVTRTAHVILRYVVIHLWDLNHEGTWEGKGTYYVYDFVMELALLSLDLMHIIHMLLFGN  
 IWLSMASLVIFMQLRYLFHEVQRRIRRHKNYLRVVGNEARFAVATPEELAVNDDCAICWDSMQAARKL  
 PCGHLFHNSCLRSLWEQDTSCPTCRMSLNIADGSRAREDHQENLDENLVPVAAAEGRPRLNQHNHFFHF  
 DGSRIASWLPSPSVEVMHTTNILGITQASNSQLNAMAHQIQEMFPQVPYHLVLQDLQMTSRVEITDNLIL  
 EGRIQVPFPPTQRSDSLRPALNSPVERPSPDLEEGEASVQTERVPLDLSPRLEETLDFSEVELEPIEVEDF  
 EARGSRFSKASADERQRMVLVQRKDDLLQQARKRFLNKSSEDDGASERLLPSEGTSSDPVTLRRRMLAAAAE  
 RRLQRQRTT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9014\\_c03.zip](https://cdn.origene.com/chromatograms/mm9014_c03.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_011787

**ORF Size:** 1917 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\\_011787.2](#), [NP\\_035917.2](#)

**RefSeq Size:** 3694 bp

**RefSeq ORF:** 1920 bp

**Locus ID:** 23802

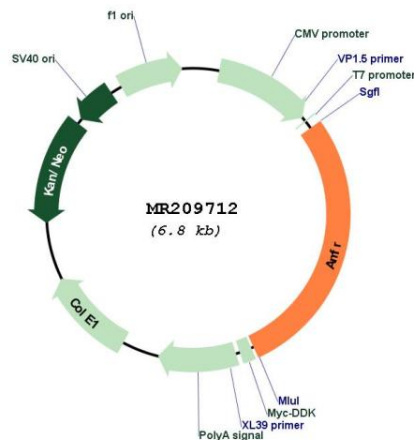
**UniProt ID:** [Q9R049](#)

**Cytogenetics:** 8 45.96 cM

**MW:** 73.2 kDa

**Gene Summary:** E3 ubiquitin-protein ligase that mediates the polyubiquitination of a number of proteins such as CD3D, CYP3A4, CFTR and APOB for proteasomal degradation. Component of a VCP/p97-AMFR/gp78 complex that participates in the final step of endoplasmic reticulum-associated degradation (ERAD). The VCP/p97-AMFR/gp78 complex is involved in the sterol-accelerated ERAD degradation of HMGCR through binding to the HMGCR-INSIG complex at the ER membrane and initiating ubiquitination of HMGCR. The ubiquitinated HMGCR is then released from the ER by the complex into the cytosol for subsequent destruction. Also regulates ERAD through the ubiquitination of UBL4A a component of the BAG6/BAT3 complex. Also acts as a scaffold protein to assemble a complex that couples ubiquitination, retranslocation and deglycosylation. Mediates tumor invasion and metastasis (By similarity). [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR209712