

## Product datasheet for **MG209712**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Amfr (NM_011787) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Amfr
Synonyms:	gp78
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG209712 representing NM\_011787  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCCGCTGCTTCTCCTCGAGCGCTTCCGTGGCCAGCCTCCGCACCTACACGGGCCTCAGCGGCCTGG  
 CCTTGCTGGGCACCATCGTCAGCGCCTACCGCCCTCAGTCAGCCGGAGGACGGCTCGGGTGAAGCCGGA  
 GCCGCTAACGGCCCCACTGCAGCCCAGGCGCGCCTGACCGCCGCGGCCCGGCCCGCGACGTGGCC  
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 GTTTTGGAATTTTATTTCTACAAGTTCATTTTCATTTTGGAGTGTGAATGTCCAGACTGTGGAGGAA  
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 CCTCCCTTCTGAAGGCACATCCTCTGACCCCGTACCCTGCGCCGAAGGATGCTGGCAGCCGCTGCTGAG  
 CGGAGACTTCAGAGGCAACGGACAACC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209712 representing NM\_011787  
 Red=Cloning site Green=Tags(s)

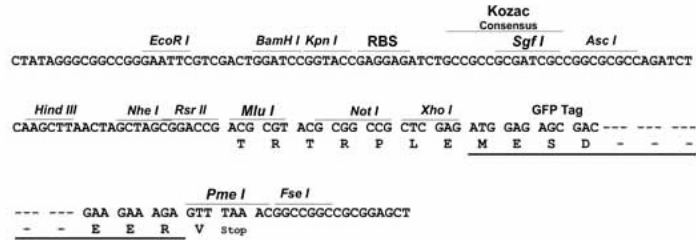
MPLLFLERFPWPSLRTYTGLSGLALLGTIVSAYRALSQPEDGSGEPEPLTAPLQPEARLTAGGPRARDVA  
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 RRLQRQRTT

**TRTRPLE** – GFP Tag – V

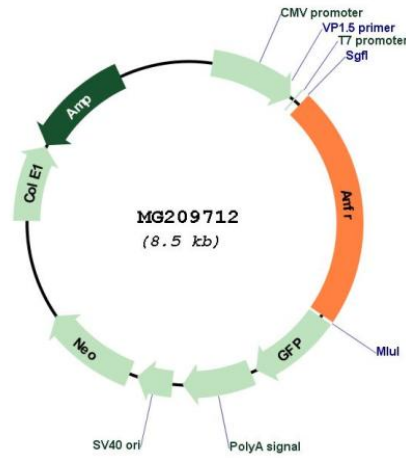
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM\_011787

ORF Size: 1917 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_011787.2</a> , <a href="#">NP_035917.2</a>
<b>RefSeq Size:</b>	3694 bp
<b>RefSeq ORF:</b>	1920 bp
<b>Locus ID:</b>	23802
<b>UniProt ID:</b>	<a href="#">Q9R049</a>
<b>Cytogenetics:</b>	8 45.96 cM
<b>Gene Summary:</b>	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]