

## Product datasheet for **RG206620**

### Amphiphysin (AMPH) (NM\_001635) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Amphiphysin (AMPH) (NM_001635) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Amphiphysin
Synonyms:	AMPH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206620 representing NM\_001635  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGACATCAAGACGGGCATCTTCGCCAAGAACGTCCAGAAGCGACTCAACCGCGCAGGAAAAGG  
 TCCTCCAAAAGCTGGGGAAAGCTGATGAGACAAAAGACGAACAGTTTCAAGAATATGTCCAGAATTCAA  
 ACGGCAAGAAGCAGAGGGTACCAGACTTCAGCGAGAACTCCGAGGATATTTAGCAGCAATCAAAGGCATG  
 CAGGAGGCCTCCATGAAGCTCACAGAGTCGCTGCATGAAGTCTATGAGCCTGACTGGTATGGGCGGGAAG  
 ATGTGAAAATGGTTGGTGAAGAAATGTGATGTGCTGTGGGAAGACTTCCATCAAAAACCTCGTGGATGGGTC  
 CTTGCTAACACTGGATACCTACCTGGGGCAATTTCTGACATAAAGAATCGCATCGCCAAGCGCAGCAGG  
 AAGCTAGTGGACTATGACAGTGCCCGCCACCCTGGAAGCTCTGCAGAGCTCCAAGAGGAAGGATGAGA  
 GTCGAATCTTAAGGCAGAAGAAGAATTCAGAAAAGCACAGAAAGTGTGTTGAAGAGTTTAACTGACTT  
 ACAAGAAGAGTTACCATCATTATGGTCAAGACGAGTTGGATTTTATGTTAATACTTTCAAAAACGTCTCC  
 AGCCTTGAAGCCAAGTTTCATAAGGAAATTCGGGTGCTTTGCCACAAAACCTGATGAAGTATGACAAAAC  
 TGGGTGACCAGCAGCCGACAAGGCCTTACCATCCAAGGAGCGCCAGTGATTCGGGTCTCTCCGCAT  
 TGCAAAGACACCATCACCGCTGAGGAGCCTTACCCCTCCCGAGCCGACAGCAAGTCCAAATCATACA  
 TTAGCACCTGCGTCTCCCGCACCAGCACGGCCTCGGTACCTTCACAGACAAGGAAAGGGCCTCCTGTCC  
 CACCTCTACCTAAAGTCAACCCGACAAGGAAGTGCAGCAGGAGAACATCATCAGTTTCTTTGAGGACAA  
 CTTTGTCCAGAAATCAGTGTGACAACACCTTCCAGAAATGAAGTCCCTGAGGTGAAGAAAGAGGAGACT  
 TTGCTGGATCTGGACTTTGATCCTTTCAAGCCCGAGGTGACACCTGCAGGTTCTGCTGGAGTGACCCACT  
 CACCCATGTCTCAGACATTGCCCTGGGACCTATGGACGACAAGCACTGATTTGGTACAGCCGGCTTCTGG  
 TGGTTCAATTAATGGATTACACAGCCCGAGGATACTTCAATTTACAATGCAGACAGACCAGAGTATG  
 ATCTGCAACTTGCTGAATCTGAACAGGCTCCACCCACAGAGCCAAAAGCAGAGGAGCCTCTGGCTGCTG  
 TCACACCTGCCGTTGGTCTGGACCTTGGAAATGGACACTCGGGCTGAGGAGCCAGTGGAGGAGGCAGTGAT  
 CATACCTGGAGCTGATGCTGATGCAGCTGTTGGAACCTTGGTGTGACGAGCTGAGGGGGCCCGAGGAG  
 GAAGCAGAGGGGAGACGGCCACTGTCCCTGCCGGGAAGGAGTAAGTTTAGAGGAGGCCAAAATTGGAA  
 CTGAAACCACTGAGGGTGCAGAGAGTGCCCAACCTGAAGCAGAGGAGCTCGAAGCAACAGTGCCTCAGGA  
 GAAGGTCATTCTCGTGGTTCATAGAGCCTGCCTCAACCATGAAGAGGAAGGAGAAAACGAAATAACT  
 ATAGGTGCAGAGCCCAAGGAGACCACGAGGACCGGCTCCTCCGGGCCCCACCAGCAGACACCGGAGC  
 TGGCTACGGAGCAGAAGCCTATCCAGGACCTCAGCCACGCCTTCTGCACCAGCCATGGGGGCTGCTGA  
 CCAGCTAGCATCTGCAAGGGAGGCTCTCAGGAATTGCCTCCTGGCTTTCTTACAAGGTGGAAACTG  
 CATGATTTTGGAGCAGCAAACTTCTGATGAACCTTACCTTACAAAGGGGTGATGTGGTGTGGTGGTCCCCT  
 CAGATTGAGAAGCTGATCAGGATGCAGGCTGGCTGGTGGGAGTGAAGGAATCAGACTGGCTTCACTACAG  
 AGACCTTGCCACCTACAAAGGCCTTTTCCAGAGAAGTTCACCCGACGCTTAGAT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG206620 representing NM\_001635  
Red=Cloning site Green=Tags(s)

MADIKTGIFAKNVQKRLNRAQEKVLQKLGKADETKDEQFEEYVQNFKRQEAEGTRLQRELRGYLAAIKGM  
 QEASMKL TESLHEVYEPDWYGREDEVKMGVEKCDVLWEDFHQKLV DGSLLTLDTYLGQFPDIKNRIAKRSR  
 KLV D YDSARHHL EALQSSKRKDESRI SKAE EEFQKAQKVFE EFNVDLQEELPSLWSRRVGFYVNTFKNVS  
 SLEAKFHKEIAVLCHKLYEVMTKLGDQHADKAF TIQGAPSDSGPLRIAKTPSPPEEPSPLPSPTASPNHT  
 LAPASPARPRSPSQTRKGPPVPLPKVTPTKELQQENIISFFEDNFVPEISVTTPSQNEVPEVKKEET  
 LLDLDFDPFKPEVTPAGSAGVTHSPMSQTLPWDLWTTSTDLVQPASGGSFNGFTQPQDTSLFTMQTDQSM  
 ICNLAESEQAPPTPKAEELAAVTPAVGLDLGMDTRAEEPVEEAVIIPGADADA VGTLYSAAEGAPGE  
 EAEAETATVPAGEGVSLEEAKIGTETTEGAESAQPEAELEATVPQEKVIPSVVIEPASNHEEEGENEIT  
 IGAEPKETTEDAAPP GPTSETPELATEQKPIQDPQPTPSAPAMGAADQLASAREASQELPPGF LYK VETL  
 HDFEAANDELTLQRGDVVLVVPDSEADQDAGWL VGVKESDWLQYRDLATYKGLFPENFTRRLD

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001635

**ORF Size:** 2085 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.

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

**RefSeq:** [NM\\_001635.2](#), [NP\\_001626.1](#)

**RefSeq Size:** 3287 bp

**RefSeq ORF:** 2088 bp

**Locus ID:** 273

**UniProt ID:** [P49418](#)

**Cytogenetics:** 7p14.1

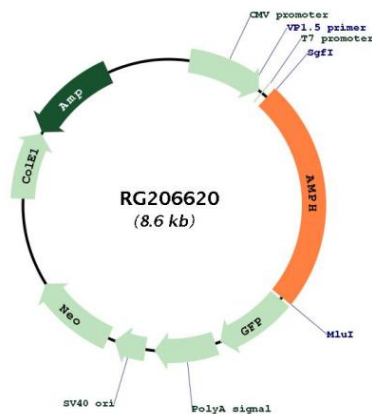
**Domains:** SH3, BAR, BAR

**Protein Families:** Secreted Protein

**Protein Pathways:** Fc gamma R-mediated phagocytosis

**Gene Summary:** This gene encodes a protein associated with the cytoplasmic surface of synaptic vesicles. A subset of patients with stiff-man syndrome who were also affected by breast cancer are positive for autoantibodies against this protein. Alternate splicing of this gene results in two transcript variants encoding different isoforms. Additional splice variants have been described, but their full length sequences have not been determined. A pseudogene of this gene is found on chromosome 11.[provided by RefSeq, Nov 2010]

**Product images:**



Circular map for RG206620