

## Product datasheet for **RG233733**

### AMCase (CHIA) (NM\_001040623) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMCase (CHIA) (NM_001040623) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AMCase
Synonyms:	AMCASE; CHIT2; TSA1902
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233733 representing NM_001040623 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGCGTGAAGCTTTTGGAGCAGGAGGCCAAGCAGATCAACAAGCCAGGCTGATGGTCACTGCTGCAGTAG  
CTGCTGGCATCTCCAATATCCAGTCTGGCTATGAGATCCCCAACTGTCACAGTACCTGGACTACATCCA  
TGTCATGACCTACGACCTCCATGGCTCCTGGGAGGGCTACACTGGAGAGAACAGCCCCCTCTACAAATAC  
CCGACTGACACCGGCAGCAACGCCTACCTCAATGTGGATTATGTCATGAAGTACTGGAAGGACAATGGAG  
CACCAGCTGAGAAGCTCATCGTTGGATTCCCTACCTATGGACACAACCTCATCCTGAGCAACCCCTCCAA  
CACTGGAATTGGTGCCCCACCTCTGGTCTGGTCTGCTGGGCCCTATGCCAAGGAGTCTGGGATCTGG  
GCTTACTACGAGATCTGTACCTTCTGAAAAATGGAGCCACTCAGGGATGGGATGCCCTCAGGAAGTGC  
CTTATGCCTATCAGGGCAATGTGTGGGTTGGCTATGACAACATCAAGAGCTTCGATATTAAGGCTCAATG  
GCTTAAGCACAACAAATTTGGAGGCGCCATGGTCTGGGCCATTGATCTGGATGACTTCACTGGCACTTTC  
TGCAACCAGGGCAAGTTTCCCCTAATCTCCACCCTGAAGAAGGCCCTCGGCCTGCAGAGTGAAGTTGCA  
CGGCTCCAGCTCAGCCCATTGAGCCAATAACTGCTGCTCCAGTGGCAGCGGGAACGGGAGCGGGAGTAG  
CAGCTCTGGAGGCAGCTCGGGAGGCAGTGGATTCTGTGCTGTGAGAGCCAACGGCCTCTACCCCGTGGCA  
AATAACAGAAATGCCTTCTGGCACTGCGTGAATGGAGTCACGTACCAGCAGAAGTCCAGGCCGGGCTTG  
TCTTCGACACCAGCTGTGATTGCTGCAACTGGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233733 representing NM\_001040623  
 Red=Cloning site Green=Tags(s)

MREAFEQEAKQINKPRLMVTAAVAAGISNIQSGYEIPQLSQYLDYIHVMTYDLHGSGWEGYTGENSPLYKY  
 PTDTGSNAYLNVDYVMNYWKDNGAPAELKLVGFPTYGHNFILSNPSNTGIGAPTSGAGPAGPYAKESGIW  
 AYYEICTFLKNGATQGDAPQEVYAYQGNVWVGYDNIKSFDIKAQWLKHNKFGGAMVWAIDDLDDFTGTF  
 CNQGGKFLISTLKKALGLQASCTAPAQPIEPITAAPSGSGNGSGSSSSGGSSGGSGFCAVRANGLYPVA  
 NNRNAFWHCVNGVTYQQNCQAGLVFDTSDCDCNWA

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001040623

**ORF Size:** 945 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\\_001040623.3](#)

**RefSeq Size:** 1371 bp

**RefSeq ORF:** 948 bp

**Locus ID:** 27159

**UniProt ID:** [Q9BZP6](#)

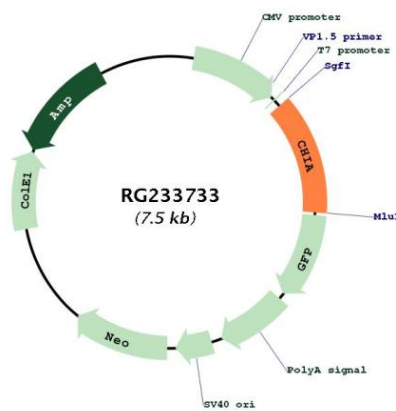
**Cytogenetics:** 1p13.2

**Protein Families:** Secreted Protein

**Protein Pathways:** Amino sugar and nucleotide sugar metabolism

**Gene Summary:** The protein encoded by this gene degrades chitin, which is found in the cell wall of most fungi as well as in arthropods and some nematodes. The encoded protein can also stimulate interleukin 13 expression, and variations in this gene can lead to asthma susceptibility. Several transcript variants encoding a few different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

### Product images:



Circular map for RG233733