

Product datasheet for **RG233736**

AMCase (CHIA) (NM_001258002) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMCase (CHIA) (NM_001258002) 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:	>RG233736 representing NM_001258002 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGTGAAGCTTTTGGAGCAGGAGGCCAAGCAGATCAACAAGCCCAGGCTGATGGTCACTGCTGCAGTAG
CTGCTGGCATCTCCAATATCCAGTCTGGCTATGAGATCCCCAACTGTCACAGTACCTGGACTACATCCA
TGTCATGACCTACGACCTCCATGGCTCCTGGGAGGGCTACACTGGAGAGAACAGCCCCCTCTACAAATAC
CCGACTGACACCCGACGCAACGCCTACCTCAATGTGGATTATGTCATGAAGTACTGGAAGGACAATGGAG
CACCAGCTGAGAAGCTCATCGTTGGATTCCCTACCTATGGACACAACCTCATCCTGAGCAACCCCTCCAA
CACTGGAATTGGTGCCCCACCTCTGGTCTGGTCTGCTGGGCCCTATGCCAAGGAGTCTGGGATCTGG
GCTTACTACGAGATCTGTACCTTCTGAAAAATGGAGCCACTCAGGGATGGGATGCCCTCAGGAAGTGC
CTTATGCCTATCAGGGCAATGTGTGGGTTGGCTATGACAACATCAAGAGCTTCGATATTAAGGCTCAATG
GCTTAAGCACAACAAATTTGGAGGCGCCATGGTCTGGGCCATTGATCTGGATGACTTCACTGGCACTTTC
TGCAACCAGGGCAAGTTTCCCCTAATCTCCACCCTGAAGAAGGCCCTCGGCCTGCAGAGTGAAGTTGCA
CGGCTCCAGCTCAGCCCATTGAGCCAATAACTGCTGCTCCAGTGGCAGCGGGAACGGGAGCGGGAGTAG
CAGCTCTGGAGGCAGCTCGGGAGGCAGTGGATTCTGTGCTGTGAGAGCCAACGGCCTCTACCCCGTGGCA
AATAACAGAAATGCCTTCTGGCACTGCGTGAATGGAGTCACGTACCAGCAGAAGTCCAGGCCGGGCTTG
TCTTCGACACCAGCTGTGATTGCTGCAACTGGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233736 representing NM_001258002
Red=Cloning site Green=Tags(s)

MREAFEQEAKQINKPRLMVTAAVAAGISNIQSGYEIPQLSQYLDYIHVMTYDLHGSGWEGYTGENSPLYKY
 PTDTGSNAYLNVDYVMNYWKDNGAPAELKLVGFPTYGHNFILSNPSNTGIGAPTSGAGPAGPYAKESGIW
 AYYEICTFLKNGATQGDAPQEVYAYQGNVWVGYDNIKSFDIKAQWLKHNKFGGAMVWAIDDLDDFTGTF
 CNQGGKFLISTLKKALGLQASCTAPAQPIEPITAAPSGSGNGSGSSSSGGSSGGSGFCAVRANGLYPVA
 NNRNAFWHCVNGVTYQQNCQAGLVFDTSDCDCNWA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001258002

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_001258002.2](#)

RefSeq Size: 1248 bp

RefSeq ORF: 948 bp

Locus ID: 27159

UniProt ID: [Q9BZP6](#)

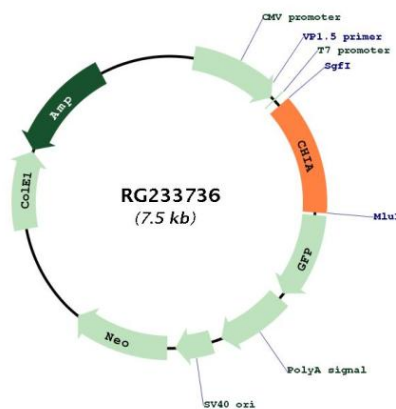
Cytogenetics: 1p13.2

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 RG233736