

Product datasheet for **RG221549**

AMCase (CHIA) (NM_201653) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMCase (CHIA) (NM_201653) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHIA
Synonyms:	AMCASE; CHIT2; TSA1902
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG221549 representing NM_201653
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACAAAGCTTATTCTCCTCACAGGTCTGTGCTTATACTGAATTTGCAGCTCGGCTCTGCCTACCAGC
 TGACATGCTACTTACCAACTGGGCCAGTACCGGCCAGGCTGGGGCGCTTCATGCCTGACAACATCGA
 CCCCTGCCTCTGTACCCACCTGATCTACGCCTTTGCTGGGAGGCAGAACAACGAGATCACCACCATCGAA
 TGGAAATGATGTGACTCTCTACCAAGCTTCAATGGCCTGAAAAATAAGAACAGCCAGCTGAAAACTCTCC
 TGGCCATTGGAGGCTGGAACCTCGGGACTGCCCTTTCACTGCCATGGTTTCTACTCCTGAGAACCGCCA
 GACTTTCATCACCTCAGTCATCAAATTCCTGCGCCAGTATGAGTTTGACGGGCTGGACTTTGACTGGGAG
 TACCCTGGCTCTCGTGGGAGCCCTCCTCAGGACAAGCATCTTCTACTGTCTGGTGCAGGAAATGCGTG
 AAGCTTTTGGCAGGAGCCAAGCAGATCAACAAGCCAGGCTGATGGTCACTGCTGCAGTAGCTGCTGG
 CATCTCCAATATCCAGTCTGGCTATGAGATCCCCAACTGTCACAGTACCTGGACTACATCCATGTCATG
 ACCTACGACCTCCATGGCTCCTGGGAGGCTACACTGGAGAGAACAGCCCCTCTACAAATACCCGACTG
 ACACCGGCAGCAACGCCTACCTCAATGTGGATTATGTCATGAACTACTGGAAGGACAATGGAGCACCAGC
 TGAGAAGCTCATCGTTGGATTCCCTACCTATGGACACAATTCATCCTGAGCAACCCCTCCAACACTGGA
 ATTGGTCCCCCACCCTCTGGTCTGGTCTGCTGGGCCCTATGCCAAGGAGTCTGGGATCTGGGCTTACT
 ACGAGATCTGTACCTTCTGAAAAATGGAGCCACTCAGGGATGGGATGCCCTCAGGAAGTGCCTTATGC
 CTATCAGGGCAATGTGTGGTTGGCTATGACAACATCAAGAGCTTCGATATTAAGGCTCAATGGCTTAAG
 CACAACAAATTTGGAGGCGCCATGGTCTGGGCCATTGATCTGGATGACTTCACTGGCACTTCTGCAACC
 AGGGCAAGTTTCCCCTAATCTCCACCCTGAAGAAGGCCCTCGGCCTGCAGAGTGAAGTGCACGGCTCC
 AGCTCAGCCCATTGAGCCAATAACTGCTGCTCCAGTGGCAGCGGGAACGGGAGCGGGAGTAGCAGCTCT
 GGAGGCAGCTCGGGAGGAGTGGATTCTGTGCTGTGAGGCAACGGCCCTACCCCGTGGCAAATAACA
 GAAATGCCTTCTGGCACTGCGTGAATGGAGTACGTACCAGCAGAAGTCCAGGCCGGGCTGTCTTCGA
 CACCAGCTGTGATTGCTGCAACTGGGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG221549 representing NM_201653
 Red=Cloning site Green=Tags(s)

MTKLILLTGLVLILNLQLGSAYQLTCYFTNWAQYRPLGRFMPDNIDPCLCTHLIYAFAGRQNEITTIE
 WNDVTLYQAFNGLKKNKSQLKTLAIGGWNFGTAPFTAMVSTPENRQTFITSVIKFLRQYEFDGLDFDWE
 YPGSRGSPQDKHLFTVLVQEMREAFEQEAKQINKPRLMVTAAVAAGISNIQSGYEIPQLSQYLDYIHVM
 TYDLHGSWEGYTGENSPLYKYPTDTGSNAYLNVDYVMNYWKDNGAPAEKLIYVGFPTYGHNFILSNPSNTG
 IGAPTSAGAPAGPYAKESGIWAYYEICTFLKNGATQGDAPQEVYAYQGNVWVGYDNIKSFDIKAQWLK
 HNKFGGAMVWAIIDLDDFTGTFCNQKFLPILSTLKKALGLQASCTAPAQPIEPITAAPSGSGNGSGSSSS
 GGSSGSGSFCVAVRANGLYPVANNRNAFWHCVNGVTYQNCQAGLVFDTSCDCCNWA

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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_201653.4
RefSeq Size:	1631 bp
RefSeq ORF:	1431 bp
Locus ID:	27159
UniProt ID:	Q9BZP6
Cytogenetics:	1p13.2
Protein Families:	Secreted Protein
Protein Pathways:	Amino sugar and nucleotide sugar metabolism
Gene Summary:	<p>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]</p>