

## Product datasheet for **RG233892**

### AMCase (CHIA) (NM\_001258001) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AMCase (CHIA) (NM_001258001) 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)
ORF Nucleotide Sequence:	>RG233892 representing NM_001258001 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTTTCTACTCCTGAGAACC GCCAGACTTTCATCACCTCAGTCATCAAATTCCTGCGCCAGTATGAGT  
TTGACGGGCTGGACTTTGACTGGGAGTACCCTGGCTCTCGTGGGAGCCCTCCTCAGGACAAGCATCTCTT  
CACTGTCTGGTGCAGGAAATGCGTGAAGCTTTGAGCAGGAGGCCAAGCAGATCAACAAGCCAGGCTG  
ATGGTCACTGCTGCAGTAGCTGCTGGCATCTCCAATATCCAGTCTGGCTATGAGATCCCCAACTGTCAC  
AGTACCTGGACTACATCCATGTCATGACCTACGACCTCCATGGCTCCTGGGAGGGCTACTGAGAGAA  
CAGCCCCCTCTACAAATACCCGACTGACACCGGCAGCAACGCCTACCTCAATGTGGATTATGTCATGAAC  
TACTGGAAGGACAATGGAGCACCAGCTGAGAAGCTCATCGTTGGATTCCCTACCTATGGACACAACCTCA  
TCCTGAGCAACCCCTCCAACACTGGAATTGGTGCCCCACCTCTGGTGTGGTCTGCTGGGCCCTATGC  
CAAGGAGTCTGGGATCTGGGCTTACTACGAGATCTGTACCTTCTGAAAAATGGAGCCACTCAGGGATGG  
GATGCCCTCAGGAAGTGCCTTATGCCTATCAGGGCAATGTGTGGTTGGCTATGACAACATCAAGAGCT  
TCGATATTAAGGCTCAATGGCTTAAGCACAACAAATTTGGAGGCCCATGGTCTGGGCCATTGATCTGGA  
TGACTTCACTGGCACTTTCTGCAACCAGGGCAAGTTTCCCCTAATCTCCACCCTGAAGAAGGCCCTCGGC  
CTGCAGAGTGCAAGTTGCACGGCTCCAGCTCAGCCATTGAGCCAATACTGCTGCTCCAGTGGCAGCG  
GGAACGGGAGCGGGAGTAGCAGCTCTGGAGGCAGCTCGGGAGGCAGTGGATTCTGTGCTGTGAGAGCCAA  
CGGCCTCTACCCGTTGGCAAATAACAGAAATGCCTTCTGGCACTGCGTGAATGGAGTACAGTACCAGCAG  
AACTGCCAGGCCGGGCTTGTCTTCGACACCAGCTGTGATTGCTGCAACTGGGCA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG233892 representing NM\_001258001  
 Red=Cloning site Green=Tags(s)

MVSTPENRQTFITSVIKFLRQYEFDGLDFDWEYPGSRGSPQDKHLFTVLVQEMREAFEQEAKQINKPRL  
 MVTAAVAAGISNIQSGYEIPQLSQYLDYIHVMTYDLHGSWEGYTGENSPLYKYPTDTGSNAYLNVDYVMN  
 YWKDNGAPAEKLI VGFPTYGHNFI LSNPNTGIGAPTSGAGPAGPYAKESGIWAYYEICTFLKNGATQGW  
 DAPQEVPIAYQGNVWVGYDNIKSFDIKAQWLKHNKFGGAMVWAIDLDDFTGTFCNQGFPLISTLKKALG  
 LQASACTAPAQPIEPITAAPSGSGNGSGSSSSGGSSGGSGFC AVRANGLYPVANNRNFAFWHCVNGVTYQQ  
 NCQAGLVFDTSDCDCNWA

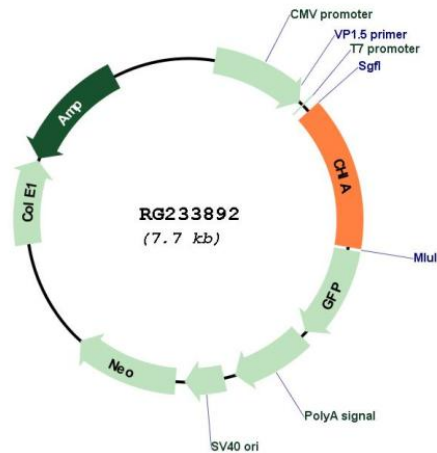
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001258001

<b>ORF Size:</b>	1104 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_001258001.2</a>
<b>RefSeq Size:</b>	1537 bp
<b>RefSeq ORF:</b>	1107 bp
<b>Locus ID:</b>	27159
<b>UniProt ID:</b>	<a href="#">Q9BZP6</a>
<b>Cytogenetics:</b>	1p13.2
<b>Protein Families:</b>	Secreted Protein
<b>Protein Pathways:</b>	Amino sugar and nucleotide sugar metabolism
<b>Gene Summary:</b>	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]