

## Product datasheet for **SC332565**

### AMCase (CHIA) (NM\_001258005) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AMCase (CHIA) (NM\_001258005) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** AMCase  
**Synonyms:** AMCASE; CHIT2; TSA1902  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC332565 representing NM\_001258005.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
ATGCGTGAAGCTTTTGAGCAGGAGGCCAAGCAGATCAACAAGCCCAGGCTGATGGTCACTGCTGCAGTA  
GCTGCTGGCATCTCCAATATCCAGTCTGGCTATGAGATCCCCAACTGTCACAGTACCTGGACTACATC  
CATGTCATGACCTACGACCTCCATGGCTCTGGGAGGGCTACACTGGAGAGAACAGCCCCCTCTACAAA  
TACCCGACTGACACCGGCAGCAACGCCTACCTCAATGTGGATTATGTCATGAACTACTGGAAGGACAAT  
GGAGCACCAGCTGAGAAGCTCATCGTTGGATTCCCTACCTATGGACACAACCTTCATCCTGAGCAACCCC  
TCCAACACTGGAATTGGTGCCCCACCTCTGGTCTGGTCTGCTGGGCCCTATGCCAAGGAGTCTGGG  
ATCTGGGCTTACTACGAGATCTGTACCTTCTGAAAAATGGAGCCACTCAGGGATGGGATGCCCTCAG  
GAAGTGCCTTATGCCTATCAGGGCAATGTGTGGTTGGCTATGACAACATCAAGAGCTTCGATATTAAG  
GCTCAATGGCTTAAGCACAACAAATTTGGAGGCGCCATGGTCTGGGCCATTGATCTGGATGACTTCACT  
GGCACTTTCTGCAACCAGGGCAAGTTTCCCCTAATCTCCACCCTGAAGAAGGCCCTCGGCCCTGCAGAGT  
GCAAGTTGCACGGCTCCAGCTCAGCCCATTGAGCCAATAACTGCTGCTCCAGTGGCAGCGGGAACGGG  
AGCGGGAGTAGCAGCTCTGGAGGAGCTCGGGAGGAGTGGATTCTGTGCTGTGAGCCAAACGGCTC  
TACCCCGTGGCAAATAACAGAAATGCCTTCTGGCACTGCGTGAATGGAGTCACGTACCAGCAGAAGTGC  
CAGGCCGGGCTTGTCTTCGACACCAGCTGTGATTGCTGCAACTGGGCATAA
```

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001258005  
**Insert Size:** 948 bp  
**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).  
**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).



[View online »](#)

**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\\_001258005.1](#)

**RefSeq Size:** 1510 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

**MW:** 33.9 kDa

**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]  
Transcript Variant: This variant (9) lacks exons and contains another exon in the 5' coding region, initiating translation at a downstream AUG compared to variant 4. The encoded isoform (b, also known as TSA1902-S) has a shorter N-terminus and lacks a signal peptide compared to isoform c. Variants 3, 6, 8, and 9 all encode the same isoform (b).