

Product datasheet for **SC304955**

AMCase (CHIA) (NM_021797) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMCase (CHIA) (NM_021797) Human Untagged Clone
Tag:	Tag Free
Symbol:	AMCase
Synonyms:	AMCASE; CHIT2; TSA1902
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_021797 edited GTCTGGAACAGCCAGCTGAAAACTCTCCTGGCCATTGGAGGCTGGAACCTCGGGACTGCC CCTTTCACTGCCATGGTTTCTACTCCTGAGAACCAGCCAGACTTTTCATCACCTCAGTCATC AAATTCCTGCGCCAGTATGAGTTTGACGGGCTGGACTTTGACTGGGAGTACCCTGGCTCT CGTGGGAGCCCTCCTCAGGACAAGCATCTCTTCACTGTCCTGGTGCAGGAAATGCGTGAA GCTTTTGAGCAGGAGGCCAAGCAGATCAACAAGCCAGGCTGATGGTCACTGCTGCAAGTA GCTGCTGGCATCTCCAATATCCAGTCTGGCTATGAGATCCCCAACTGTCACAGTACCTG GACTACATCCATGTCATGACCTACGACCTCCATGGCTCCTGGGAGGGCTACACTGGAGAG AACAGCCCCCTTACAAATACCCGACTGACACCGGCAGCAACGCCTACCTCAATGTGGAT TATGTCATGAACACTGGAAGGACAATGGAGCACCAGCTGAGAAGCTCATCGTTGGATTC CCTACCTATGGACACAACCTTCATCCTGAGCAACCCTCCAACACTGGAATTGGTGCCCC ACCTCTGGTGCTGGTCTGCTGGGCCCTATGCCAAGGAGTCTGGGATCTGGGCTTACTAC GAGATCTGTACCTTCTGAAAAATGGAGCCACTCAGGGATGGGATGCCCTCAGGAAGTG CCTTATGCCTATCAGGGCAATGTGTGGTTGGCTATGACAACATCAAGAGCTTCGATATT AAGGCTCAATGGCTTAAGCACAACAAATTTGGAGGCGCCATGGTCTGGGCCATTGATCTG GATGACTTCACTGGCACTTTCTGCAACCAGGGCAAGTTTCCCCTAATCTCCACCTGAAG AAGGCCCTCGGCCTGCAGAGTGAAGTTGCACGGCTCCAGCTCAGCCCATTGAGCCAATA ACTGCTGCTCCCAGTGGCAGCGGGAACGGGAGCGGGAGTAGCAGCTCTGGAGGCAGCTCG GGAGGCAGTGGATTCTGTGCTGTCAGAGCCAACGGCCTTACCCCGTGGCAAATAACAGA AATGCCTTCTGGCACTGGTGAATGGAGTACAGTACCAGCAAGAACTGCCAGGCCGGGCTT GTCTTCGACACCAGCTGTGATTGCTGCAACTGGGCATAAACCTGACCTGGTCTATATTCC CTAGAGTTCAGTCTCTTTTGGTTAGGACATGTTGCCCTACCTAAAGTCTGCAATATT
Restriction Sites:	Please inquire
ACCN:	NM_021797



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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).
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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:	<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:	<u>NM_021797.2</u> , <u>NP_068569.2</u>
RefSeq Size:	1360 bp
RefSeq ORF:	1107 bp
Locus ID:	27159
UniProt ID:	<u>Q9BZP6</u>
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> <p>Transcript Variant: This variant (2) lacks exons in the 5' coding region and initiates translation at a downstream AUG compared to variant 4. The encoded isoform (a, also known as TSA1902-L) has a shorter N-terminus and lacks a signal peptide compared to isoform c. Variants 2, 5, and 7 all encode the same isoform (a).</p>