

Product datasheet for **MC216422**

Chia1 (NM_023186) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chia1 (NM_023186) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chia1
Synonyms:	2200003E03Rik; AMCCase; Chia; YNL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC216422 representing NM_023186
 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCAAGTACTTCTCGTCACAGGTCTGGCTCTTCTGCTGAATGCTCAGCTGGGTCTGCCTACAATC
 TGATATGCTATTTACCAACTGGGCCAGTATCGGCCAGGTCTGGGAGCTTCAAGCCTGATGACATTAA
 CCCCTGCCTGTACTACCTGATCTATGCCTTTGCTGGGATGCAGAACAATGAGATCACCACCATAGAA
 TGGAAATGATGTTACTCTATAAAGCTTTCAATGACTTAAAAACAGGAACAGCAAAGTAAAAACCTCC
 TGGCAATTGGAGGCTGGAACCTTTGGAAGTCTCTTTCACTACCATGGTTTCCACTTCTCAGAACCGCCA
 GACCTTACCTACCTCAGTCATCAAATTTCTGCGTCAGTATGGGTTTGGTGGACTGGACCTGGACTGGGAA
 TACCCAGGCTCACGTGGGAGCCCTCCTCAGGACAAGCATCTTCTACTGTCCTGGTGAAGGAAATGCGTG
 AAGCTTTTGGAGGAGGCTATTGAGAGCAACAGGCCAGACTGATGGTTACTGCTGCTGTAGCTGGTGG
 GATTTCCAACATCCAGGCTGGCTATGAGATCCCTGAACCTTCTAAGTACCTGGATTTCCATCCATGTCATG
 ACATATGACCTCCATGGCTCCTGGGAGGCTACACTGGGAGAATAGTCCTCTTTACAAATACCCTACTG
 AGACTGGTAGCAATGCCTACCTCAATGTGGATTATGTCATGAACCTATTGGAAGAACAATGGAGCCCCAGC
 TGAGAAGCTCATTGTTGGATTCCAGAGTATGGACACACCTTTCATCCTGAGAAACCCCTCTGATAATGGA
 ATTGGTGGCCCTACCTCTGGTATGGCCCTGCTGGGCCCTATACCAGACAGGCTGGGTTCTGGGCCCTACT
 ATGAGATTTGCACCTTTCTGAGAAGTGGAGCCACTGAGGTCTGGGATGCCTCCCAAGAAGTGGCCCTATGC
 CTATAAGGCCAACGAGTGGCTTGGCTATGACAATCAAGAGCTTCAGTGTTAAGGCTCAGTGGCTTAAG
 CAGAACAATTTGGAGGTGCCATGATCTGGGCCATTGACCTTGATGACTTCACTGGCTCTTCTGTGATC
 AGGAAAATTTCTCTGACTTCTACTTTGAACAAGCCCTTGGCATATCCACTGAAGTTGCACAGCTCC
 TGACGTGCCTTCCGAGCCAGTGACTACTCTCCAGGAAGTGGGAGTGGGGTGGAAAGCTCCGGAGGAAGC
 TCTGGAGGCAGTGGATTCTGTGCCGACAAGCAGATGGCCTCTACCCTGTGGCAGATGACAGAAATGCTT
 TTTGGCAGTGCATCAATGGAATCACATACCAGCAGCATTGTCAAGCAGGCTTGTTTTTGATACCAGCTG
 TAATTGCTGCAACTGGCCATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_023186

Insert Size: 1422 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).

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: [BC034548](#), [AAH34548](#)

RefSeq Size: 1557 bp

RefSeq ORF: 1422 bp

Locus ID: 81600

UniProt ID: [Q91XA9](#)

Cytogenetics: 3 F2.2

Gene Summary: Degrades chitin and chitotriose. May participate in the defense against nematodes, fungi and other pathogens. Plays a role in T-helper cell type 2 (Th2) immune response. Contributes to the response to IL-13 and inflammation in response to IL-13. Stimulates chemokine production by pulmonary epithelial cells. Protects lung epithelial cells against apoptosis and promotes phosphorylation of AKT1. Its function in the inflammatory response and in protecting cells against apoptosis is inhibited by allosamidin, suggesting that the function of this protein depends on carbohydrate binding. Presence in saliva and gastric juice suggests a function as a digestive enzyme.[UniProtKB/Swiss-Prot Function]