

## Product datasheet for MR205616

### Chia (BC011134) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chia (BC011134) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chia
Synonyms:	YNL, AMCase
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205616 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTTTCCACTTCTCAGAACC GCCAGACCTTCATTACCTCAGTCATCAAATTTCTGCGTCAGTATGGGT  
TTGATGGACTGGACCTGGACTGGGAATACCCAGGCTCACGTGGGAGCCCTCCTCAGGACAAGCATCTCTT  
CACTGTCCTGGTGAAGGAAATGCGTGAAGCTTTTGAGCAGGAGGCTATTGAGAGCAACAGGCCCAGACTG  
ATGGTTACTGCTGCTGTAGCTGGTGGGATTTCCAACATCCAGGCTGGCTATGAGATCCCTGAACCTTTCTA  
AGTACCTGGATTTTCATCCATGTCATGACATATGACCTCCATGGCTCCTGGGAGGGCTACACTGGGGAGAA  
TAGTCCTCTTTACAAATACCCTACTGAGACTGGTAGCAATGCCTACCTCAATGTGGATTATGTCATGAAC  
TATTGGAAGAACAATGGAGCCCCAGCTGAGAAGCTCATTGTTGGATTCCCAGAGTATGGACACACCTTCA  
TCCTGAGAAACCCCTCTGATAATGGAATTGGTGCCCTACCTCTGGTGATGGCCCTGCTGGGCCCTATAC  
CAGACAGGCTGGGTTCTGGGCCTACTATGAGATTTGCACCTTTCTGAGAAGTGGAGCCACTGAGGCTCGG  
GATGCCTCCCAAGAAGTGCCTATGCCTATAAGGCCAACGAGTGGCTTGCTATGACAATATCAAGAGCT  
TCAGTGTTAAGGCTCAGTGGCTTAAGCAGAACAATTTGGAGTGCCATGATCTGGGCCATTGACCTTGA  
TGACTTCACTGGCTCTTTCTGTGATCAGGAAAAATTTCTCTGACTTCTACTTTGAACAAAGCCCTTGGC  
ATATCCACTGAAGTTGCACAGCTCCTGACGTGCCTCCGAGCCAGTGACTACTCCTCCAGGAAGTGGGA  
GTGGGGGTGGAAGCTCCGAGGAAGCTCTGGAGGCAAGTGGATTCTGTGCCGACAAAGCAGATGGCCTCTA  
CCCTGTGGCAGATGACAGAAATGCTTTTGGCAGTGCATCAATGGAATCACATACCAGCAGCATTGTCAA  
GCAGGGCTGTTTTGATACCAGCTGTAATTGCTGCAACTGGCCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205616 protein sequence  
 Red=Cloning site Green=Tags(s)

MVSTSQNRQTFITSVIKFLRQYGF DGLDL DWEY PGRSGSP PQDKHLFTVLVKEMREAFEQEAIENRPRL  
 MVTA AVAGGISNIQAGYEIPELSKYLDFIHVMTYDLHGSWEGYTGENSPLYKYPTETGSNAYLNVDYVMN  
 YWKNNGAPAEKLI VGFPEYGH TFI LRNP SDNGI GAPTSGDGPAGPYTRQAGFWAYYEICTFLRSGATEVW  
 DASQEV PYAYKAN EWLGYDNIKFSVKAQWLKQNNFGGAMIWAIDLDDFTG SFCDQ GK FPLTSTLNKALG  
 ISTE GCTAPDVPSEPV TTPPGSGSGGSSGGSSGGSGFCADKADGLYPVADDRNAFWQCINGITYQQHCQ  
 AGLVFDTSCNCCNWP

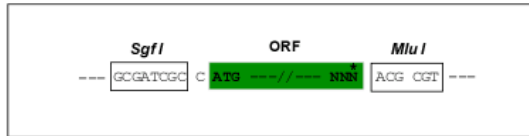
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC011134

**ORF Size:** 1095 bp

**OTI Disclaimer:** 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](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:** [BC011134](#), [AAH11134](#)

**RefSeq Size:** 1538 bp

**RefSeq ORF:** 1097 bp

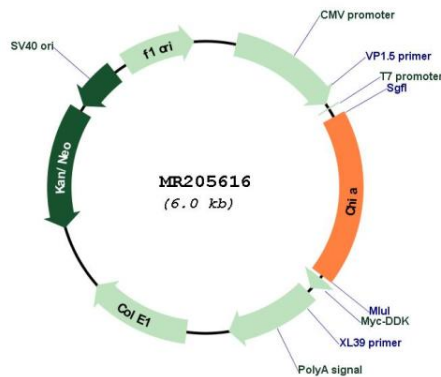
**Locus ID:** 81600

**Cytogenetics:** 3 F2.2

**MW:** 40 kDa

**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]

### Product images:



Circular map for MR205616