

Product datasheet for **RN201701**

Chia (NM_207586) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chia (NM_207586) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Chia
Synonyms:	MGC112572
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

Fully Sequenced ORF: >RN201701 representing NM_207586
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCCAAGCTCATTCTGTGCACAGGTCTGGTTCTTCTGCTGAATGTTTCAGCTGGGGTCTGCCTACAATC
TGGTATGCTACTTCACCAACTGGGCCAGTATCGGCCAGGCCCTGGGGAGTTTCAAGCCTGATGACATTAA
TCCTGCCTGTGTACTACCTGATCTATGCCTTTGCTGGGATGCAGAACAATCAAATCACCACCATAGAA
TGGAAATGATGTTACTCTATAAAGCTTCAATGACTTGAAAAACAGGAACAGCAAACCTGAAAACTCTCC
TGGCAATTGGAGTTGGAACCTTGAAGTCTCTTCCACCACATGGTTTCCACTTCTCAGAACCGCCA
GACCTTTATTACCTCAGTCATCAAATTCCTGCGACAGTATGGGTTTGGTGGACTGGACCTGGACTGGGAA
TACCCAGGTTACGTGGGAGCCCTCCTCAGGACAAGCATCTTCTACTGCTCCTGGTGAAGGAACTACGTG
AAGCTTTTGGCAGGAGGCTATTGAGAGCAACAGGCCAGATTGATGGTACTGCTGCTGTAGCTGCTGG
CATTTCCAACATCCAGGCTGGCTACGAGATCCCTGAACCTTCTCAGTACCTGGATTTCCATCCACGTCATG
ACATATGACCTCCATGGCTCCTGGGATGGCTACACTGGGAGAACAGTCCCTTTACAACTCCCTACTG
AGACTGGCAGCAATGCCTACCTCAATGTGGATTATGTCATGAATTAAGGATAATGGAGCCCCAGC
TGAGAAGCTCATTGTTGGATTTCCAGAGTATGGACACACCTACATCCTAAGCAACCTTCTGATACTGGA
ATTGGTGGCCCTACCTCTGGTAATGGCCCTGCTGGGCCCTATACCAGGCAGGCTGGGTTCTGGGCCCTACT
ATGAGATTTGTACCTTTCTGAGAAATGGAGCCACTCAGGACTGGGATGCCCCCAGGAAGTTCCCTATGC
CTACAAGGCAATGAGTGGTGGCTATGATAATCAAGAGCTTCAGTGTCAAGGCTCAGTGGCTTAAG
CAGAACAACCTTGGTGGTGGCCATGATCTGGGCCATTGACCTTGATGACTTCACTGGCTCTTCTGTGACC
AGGGAAAATCCCTCTGACTTCTACTTTGAATAAAGCCCTTGATATACCCACAGCAGGTTGCACAGCCCC
TGACTTACCTTCTGAACAGTAACCTACTCTCCAGGAAGTGGGAGTGGTGGTGGAAAGCTCTGGTGGAGGT
TCTGAAGCAGTGGATTCTGTGCTGGCAAAGCAGATGGCCTCTACCCTGTGGCAGATGACAGAAATGCTT
TCTGGCACTGCATCAATGGAATCACATATCAGCAGCATTGTCAGGCAGGTTAGTTTTTGATACCAGCTG
TAATTGCTGCAACTGGCCATGA

ACCGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_207586

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: [NM_207586.2](#), [NP_997469.1](#)

RefSeq Size: 1538 bp

RefSeq ORF: 1422 bp

Locus ID: 113901

UniProt ID: [Q6RY07](#)

Cytogenetics: 2q34

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 (By similarity).[UniProtKB/Swiss-Prot Function]