

## Product datasheet for **MR219126**

### **Chit1 (NM\_027979) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Chit1 (NM_027979) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chit1
Synonyms:	2300002L19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR219126 representing NM\_027979  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTGCAGTCCCTGGCCTGGCAGGTGTGATGACTCTGCTGATGGTCCAGTGGGGCTCTGCTGCAAAAC  
 TGGTCTGTACCTCACCACCTGGTCCCAGTACCGACGGAGGCAGTTCGGTCTTTCCAGGGATGTGGA  
 TCCCAACCTGTGTACCCACGTACTCTTTGCTTTTCTGGAATGGACAACCATCAGCTCAGCACTGTGGAG  
 CACAATGACGAACTTCTCTACCAGGAGCTGAACAGCCTAAAGACTAAGAACCCCAAGCTCAAGACCTGT  
 TAGCCGTTGGAGGCTGGACCTTTGGTACCCAGAAGTTCACAGACATGGTGGCCACCGCCAGCAACCCGGCA  
 GACCTTTGTGAAGTCAGCCCTAAGTTTCTGCGCACTCAAGGTTTTGATGGCCTTGACCTTGACTGGGAG  
 TTCCAGGTGGACGTGGGAGCCCCACAGTAGACAAAGAGAGATTCACAGCCCTGATACAGGACTTGGCCA  
 AAGCCTTCCAGGAGGAAGCCAGTCTCAGGGAAGGAACGCCTCCTTCTGACTGCAGCTGTACCGAGTGA  
 TCGAGGCTGGTGGATGTGGCTACGAGGTGGACAAGATTGCCAGAGCTGGATTTTCATCAACCTTATG  
 GCCTACGACTTCCACAGCTCCTTGAAAAGACCACAGGGCATAACAGCCCTCTACAAAAGGCAAGGAG  
 AAAGTGGGGCAGCCGCTGAGCAAAACGTGGATGCTGCTGTGACGCTCTGGCTGCAGAAGGGGACCCAGC  
 CAGCAAACTGATCCTTGGCATGCCTACCTATGGACGCTCTTTCACCTTGGCCTCCTCGTCAGACAATGGA  
 GTTGGGGCCCCAGCCACAGGGCCTGGTGGCCAGGCCCTATACGAAGGACAAAGGGTCTGGCTTACT  
 ATGAGGCTGCTCCTGGAAGGAAAGACACAGAATCGAGGACCAGAAGGTGCCTTACGCCTCCAGGACAA  
 CCAGTGGGTGAGCTTTGACGACGTGGAAGCTTCAAAGCCAAGGCTGCCTACCTGAAACAGAAGGGGCTG  
 GGAGGAGCCATGGTCTGGTCTGGACTTGGATGACTTCAAGGTTCTTCTGCAACCAGGGCCCGTACC  
 CTCTCATCCGGACACTACGGCAGGAATAAATCTCCATCCGAGACTCCAAGGAGCCAGAACAGATAAT  
 ACCTGAGCCACGCCATCTTCTATGCCAGAGCAGGGACCCAGCCAGGGCTAGATAAATCTGCCAAGGC  
 AAAGCTGATGGGGTCTACCCCAACCCTGGAGACGAGTCCACTTACTACAACGTGGAGGAGGGCGGCTGT  
 TCCAGCAGAGCTGCTCCAGGCTGGTGTTAGAGCCTTTGCAATGTTGTACCTGGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR219126 representing NM\_027979  
 Red=Cloning site Green=Tags(s)

MVQSLAWAGVMTLLMVQWGSAAKLVCYL TNWSQYRTEAVRFFPRDVPNLCTHVIFAFAGMDNHQLSTVE  
 HNDELLYQELNSLKTKNPKLKTL LAVGGWTFGTQKFTDMVATASNQTFVKSALSFLRTQGF DGLDLDWE  
 FPGGRGSP TVDKERF TALIQDLAKAFQEEAQSSGKERLLL TAAVPSDRGLVDAGYEVDKIAQSLDFINLM  
 AYDFHSSLEKTTGHNSPLYKRQGESGAAAEQNVDAAVTLWLQKGT PASKLILGMPTYGRSFTLASSSDNG  
 VGAPATGPGAPGYPYTKDKGVLA YYEACSWKERHRIEDQKVYAFQDNQWVSFDDVESFKAKAAYLKQKGL  
 GGAMVWVLDLDDFKGSFCNQGPYPLIRTLRQELNLPSETPRSP EQIIP EPRPSSMPEQGPSPLDNFCQG  
 KADGVYPNPGDESTY YNCGGRLFQQSCPPGLVFRASCKCTWS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9006\\_f09.zip](https://cdn.origene.com/chromatograms/mm9006_f09.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_027979

**ORF Size:** 1392 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:** [NM\\_027979.2](#), [NP\\_082255.1](#)

**RefSeq Size:** 1711 bp

**RefSeq ORF:** 1395 bp

**Locus ID:** 71884

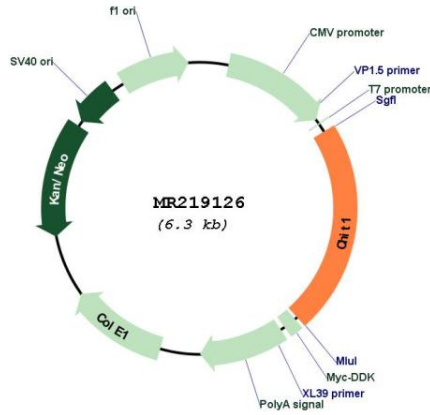
**UniProt ID:** [Q9D7Q1](#)

**Cytogenetics:** 1 E4

**MW:** 51.6 kDa

**Gene Summary:** Degrades chitin, chitotriose and chitobiose. May participate in the defense against nematodes and other pathogens (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR219126