

Product datasheet for **MG219126**

Chit1 (NM_027979) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chit1 (NM_027979) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chit1
Synonyms:	2300002L19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG219126 representing NM_027979
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGCAGTCCCTGGCCTGGCAGGTGTGATGACTCTGCTGATGGTCCAGTGGGGCTCTGCTGCAAAAC
 TGGTCTGCTACCTCACCAACTGGTCCCAGTACCGACGGAGGCAGTTCGGTCTTTCCAGGGATGTGGA
 TCCCAACCTGTGTACCCACGTACTCTTTGCTTTTCTGGAATGGACAACCATCAGCTCAGCACTGTGGAG
 CACAATGACGAACTTCTCTACCAGGAGCTGAACAGCCTAAAGACTAAGAACCCCAAGCTCAAGACCTGT
 TAGCCGTTGGAGGCTGGACCTTTGGTACCCAGAAGTTCACAGACATGGTGGCCACCGCCAGCAACCCGGCA
 GACCTTTGTGAAGTCAGCCCTAAGTTTCTGCGCACTCAAGGTTTTGATGGCCTTGACTTGGGAG
 TTCCAGGTGGACGTGGGAGCCCCACAGTAGACAAAGAGAGATTCACAGCCCTGATACAGGACTTGGCCA
 AAGCCTTCCAGGAGGAAGCCAGTCTCAGGGAAGGAACGCCTCCTTCTGACTGCAGCTGTACCGAGTGA
 TCGAGGCTGGTGGATGTGGCTACGAGGTGGACAAGATTGCCAGAGCTGGATTTTCATCAACCTTATG
 GCCTACGACTTCCACAGCTCCTTGAAAAGACCACAGGGCATAACAGCCCTCTACAAAAGGCAAGGAG
 AAAGTGGGGCAGCCGCTGAGCAAAACGTGGATGCTGCTGTGACGCTCTGGCTGCAGAAGGGGACCCAGC
 CAGCAAACTGATCCTTGGCATGCCTACCTATGGACGCTCTTTCACCTTGGCCTCCTCGTCAGACAATGGA
 GTTGGGGCCCCAGCCACAGGGCCTGGTGGCCAGGCCCTATACGAAGGACAAAGGGTCTGGCTTACT
 ATGAGGCTGCTCCTGGAAGGAAAGACACAGAATCGAGGACCAGAAGGTGCCTTACGCCCTCCAGGACAA
 CCAGTGGGTGAGCTTTGACGACGTGGAAGCTTCAAAGCCAAGGCTGCCTACCTGAAACAGAAGGGGCTG
 GGAGGAGCCATGGTCTGGTCTGGACTTGGATGACTTCAAGGGTCTCTGCAACCAGGGCCCCGTACC
 CTCTCATCCGGACACTACGGCAGGAATAAATCTCCATCCGAGACTCCAAGGAGCCAGACAAGATAAT
 ACCTGAGCCACGCCATCTTCTATGCCAGAGCAGGGACCCAGCCAGGGCTAGATAACTTCTGCCAAGGC
 AAAGCTGATGGGGTCTACCCCAACCCTGGAGACGAGTCCACTTACTACAACGTGGAGGAGGGCGGCTGT
 TCCAGCAGAGCTGCTCCAGGCCTGGTGTAGAGCCTTGTGCAATGTTGTACCTGGAGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG219126 representing NM_027979
 Red=Cloning site Green=Tags(s)

MVQSLAWAGVMTLLMVQWGSAAKLVCYL TNWSQYRTEAVRFFPRDVPNLCTHVIFAFAGMDNHQLSTVE
 HNDELLYQELNSLKTKNPKLKTL LAVGGWTFGTQKFTDMVATASNRQTFVKLSLSFLRTQGFGLDLDWE
 FPGGRGSPTVDKERFTALIQDLAKAFQEEAQSSGKERLLL TAAVPSDRGLVDAGYEVDKIAQSLDFINLM
 AYDFHSSLEKTTGHNSPLYKRQGESGAAAEQNVDAAVTLWLQKGT PASKLILGMPTYGRSFTLASSSDNG
 VGAPATGPGAPGPYTKDKGVLAYYEACSWKERHRIEDQKVYAFQDNQWVSFDDVESFKAKAAAYLKQKGL
 GGAMVWVLDLDDFKGSFCNQGPYPLIRTLRQELNLPSETPR SPEQI IPEPRPSSMPEQGPSGLDNFCQG
 KADGVYYPNGDESTYYNCGGGRLFQQSCPPGLVFRASCKCCTWS

TRTRPLE – GFP Tag – V

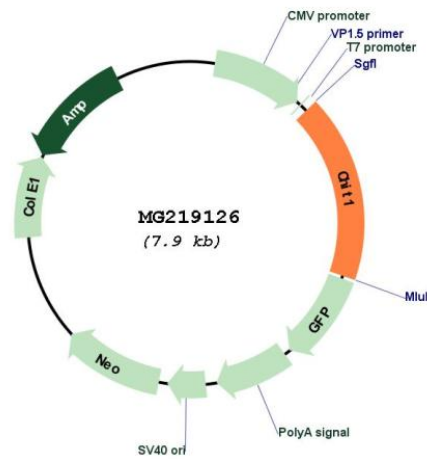
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_027979.2</u> , <u>NP_082255.1</u>
RefSeq Size:	1711 bp
RefSeq ORF:	1395 bp
Locus ID:	71884
UniProt ID:	<u>Q9D7Q1</u>
Cytogenetics:	1 E4
Gene Summary:	Degrades chitin, chitotriose and chitobiose. May participate in the defense against nematodes and other pathogens (By similarity).[UniProtKB/Swiss-Prot Function]