

Product datasheet for **MR230046**

Chit1 (NM_001284525) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Chit1 (NM_001284525) 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) |



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ORF Nucleotide Sequence:

>MR230046 representing NM_001284525
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGCAGTCCCTGGCCTGGCAGGTGTGATGACTCTGCTGATGGTCCAGTGGGGCTCTGCTGCAAAAC
 TGGTCTGTACCTCACCACCTGGTCCCAGTACCGACGGAGGCAGTTCGGTCTTTCCAGGGATGTGGA
 TCCCAACCTGTGTACCCACGTACTCTTTGCTTTTCTGGAATGGACAACCATCAGCTCAGCACTGTGGAG
 CACAATGACGAACTTCTCTACCAGGAGCTGAACAGCCTAAAGACTAAGAACCCCAAGCTCAAGACCCTGT
 TAGCCGTTGGAGGCTGGACCTTTGGTACCCAGAAGTTCACAGACATGGTGGCCACCGCCAGCAACCCGGCA
 GACCTTTGTGAAGTCAGCCCTAAGTTTCTGCGCACTCAAGGTTTTGATGGCCTTGACCTTGACTGGGAG
 TTCCAGGTGGACGTGGGAGCCCAAGTAGACAAAGAGAGATTCACAGCCCTGATACAGGACTTGGCCA
 AAGCCTTCCAGGAGGAAGCCAGTCTCAGGGAAGGAACGCCTCCTTCTGACTGCAGCTGTACCGAGTGA
 TCGAGGCTGGTGGATGTGGCTACGAGGTGGACAAGATTGCCAGAGCTTGGATTTTCATCAACCTTATG
 GCCTACGACTTCCACAGCTCCTTGGAAAAGACCACAGGGCATAACAGCCCTCTACAAAAGGCAAGGAG
 AAAGTGGGGCAGCCGCTGAGCAAAACGTGGATGCTGCTGTGACGCTCTGGCTGCAGAAGGGGACCCAGC
 CAGCAAACTGATCCTTGGCATGCCTACCTATGGACGCTCTTTCACCTTGGCCTCCTCGTCAGACAATGGA
 GTTGGGGCCCCAGCCACAGGGCCTGGTGGCCAGGCCCTATACGAAGGACAAAGGGTCTGGCTTACT
 ATGAGGCTGCTCCTGGAAGGAAAGACACAGAATCGAGGACCAGAAGGTGCCTTACGCCTCCAGGACAA
 CCAGTGGTGAGCTTTGACGACGTGGAAGCTTCAAAGCCAAGGCTGCCTACCTGAAACAGAAGGGGCTG
 GGAGGACCATGGTCTGGTCTGGACTTGGATGACTTCAAGGTTCTTCTGCAACCAGGGCCCGTACC
 CTCTCATCCGGACACTACGGCAGGAATAAATCTCCATCCGAGACTCCAAGGAGCCAGAACAGATAAT
 ACCTGAGCCACGCCATCTTCTATGCCAGAGCAGGGACCCAGCCAGGGCTAGATAAATCTGCCAAGGC
 AAAGCTGATGGGGTCTACCCCAACCCTGGAGACGAGTCCACTTACTACAACGTGGAGGAGGGCGGCTGT
 TCCAGCAGAGCTGCTCCAGGCCTGGTGTAGAGCCTTGTCAATGTTGTACCTGGAGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230046 representing NM_001284525
 Red=Cloning site Green=Tags(s)

MVQSLAWAGVMTLLMVQWGSAAKLVCYL TNWSQYRTEAVRFFPRDVPNLCTHVIFAFAGMDNHQLSTVE
 HNDELLYQELNSLKTKNPKLKTLLAVGGWTFGTQKFTDMVATASNQTFVKSALSFLRTQGF DGLDLDWE
 FPGGRGSPTVDKERFTALIQDLAKAFQEEAQSSGKERLLLTAAVPSDRGLVDAGYEVDKIAQSLDFINLM
 AYDFHSSLEKTTGHNSPLYKRQGESGAAAEQNVDAAVTLWLQKGPASKLILGMPTYGRSFTLASSSDNG
 VGAPATGPGAPGPYTKDKGVLAYYEACSWKERHRIEDQKVYAFQDNQWVSFDDVESFKAKAAYLKQKGL
 GGAMVWVLDLDDFKGSFCNQGPYPLIRTLRQELNLPSETPRSPQIIPERPRSSMPEQGPSPLDNFCQG
 KADGVYPNPGDESTYINC GGRLFQQSCPPGLVFRASCKCTWS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001284525

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_001284525.1](#), [NP_001271454.1](#)

RefSeq Size: 1851 bp

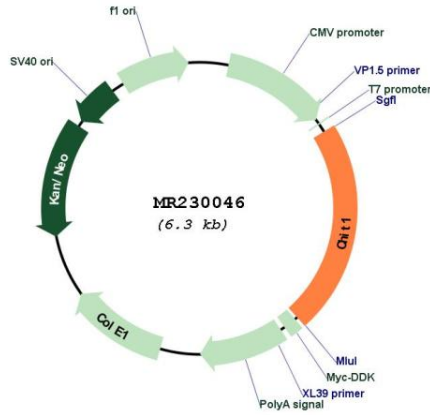
RefSeq ORF: 1395 bp

Locus ID: 71884

UniProt ID: [Q9D7Q1](#)

Cytogenetics: 1 E4
MW: 51.1 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 MR230046