

Product datasheet for **MC227480**

Chit1 (NM_001284524) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Chit1 (NM_001284524) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Chit1 |
| Synonyms: | 2300002L19Rik |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >MC227480 representing NM_001284524 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGCAGTCCCTGGCCTGGGCAGGTGTGATGACTCTGCTGATGGTCCAGTGGGGCTCTGCTGCAAAAC
TGGTCTGCTACCTACCAACTGGTCCCAGTACCGGACGGAGGCAGTTCGGTTCCTTCCCAGGGATGTGGA
TCCCAACCTGTGTACCCACGTCACTTTGCTTTTGGTGGAAATGGACAACCATCAGCTCAGCACTGTGGAG
CACAATGACGAACTTCTCTACCAGGAGCTGAACAGCCTAAAGACTAAGAACCCCAAGCTCAAGACCTGT
TAGCCGTTGGAGGCTGGACCTTTGGTACCCAGAAGTTCACAGACATGGTGGCCACCGCCAGCAACCGGCA
GACCTTTGTGAAGTCAGCCCTAAGTTTCTGCGCACTCAAGGTTTTGATGGCCTTGACCTTGACTGGGAG
TTCCCAGGTGGACGTGGGAGCCCCACAGTAGACAAAGAGAGATTCACAGCCCTGATACAGGACTTGCCCA
AAGCCTTCCAGGAGGAAGCCAGTCTCAGGGAAGGAACGCCCTCTTCTGACTGCAGCTGTACCGAGTGA
TCGAGGCTGGTGGATGCTGGCTACGAGGTGGACAAGATTGCCAGAGCTGGATTTCAACCTTATG
GCCTACGACTTCCACAGCTCCTTGAAAAGACCACAGGGCATAACAGCCCCCTACAAAAGGCAAGGAG
AAAGTGGGGCAGCCGCTGAGCAAAACGTGGATGCTGCTGTGACGCTCTGGCTGCAGAAGGGGACCCAGC
CAGCAAACTGATCCTTGGCATGCCTACCTATGGACGCTCTTTCACCTTGGCCTCCTCGTCAGACAATGGA
GTTGGGGCCCCAGCCACAGGGCCTGGTGGCCAGGCCCTATACGAAGGACAAAGGGTCTGGCTTACT
ATGAGGCCTGCTCCTGGAAGGAAAGACACAGAATCGAGGACCAGAAGGTGCCTTACGCCTTCCAGGACAA
CCAGTGGGTGAGCTTTGACGACGTGAAAAGCTTCAAAGCCAAGGCAAAGCTGATGGGGTCTACCCCAACC
CTGGAGACGAGTCCACTTACTACAACTGTGGAGGAGGGCGGCTGTCCAGCAGAGCTGTCTCCAGGCCCT
GGTGTGTTAGAGCCTTTGCAAATGTTGTACCTGGAGCTAAGTTCTGGAACCCCACTCAACTCCAGTCTG
A

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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| | |
|-------------------------------|---|
| Restriction Sites: | Sgfl-Mlul |
| ACCN: | NM_001284524 |
| Insert Size: | 1191 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). |
| OTI Annotation: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| 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_001284524.1</u> , <u>NP_001271453.1</u> |
| RefSeq Size: | 1580 bp |
| RefSeq ORF: | 1191 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] Transcript Variant: This variant (2) differs in the 5' UTR and lacks an alternate exon in the 3' coding region which causes a frameshift, compared to variant 1. The resulting protein (isoform 2) is shorter and has a distinct C-terminus compared to isoform 1. |