

Product datasheet for **MC200936**

Ggt1 (NM_008116) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ggt1 (NM_008116) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ggt1
Synonyms:	CD224; dwg; GGT; GGT-1; GGT 1; Ggtp
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC012969 sequence for NM_008116
 CCACGCGTCCGAGCCTGCTCTAGCAGTTTCAGGGAAGATCGGTCTCTGCAGAGTGTGGAGAGAGTTCTCTGC
 CCATCCATACAGCTGTTTTTCAAAGCCACCTCCCAAGAAAGTTTGGGGGCTCCTACTGGAAGCAGAG
 CCATGAAGAATCGGTTTCTGGTCTGGGCTGGTGGCTGTGGTTCTGGTATTTGTATCATCGGCCCTCTG
 TATCTGGTTGCCCTACACCTCTGGGAAGCCCGACCACGTGTACTCCAGGGCGGCGGTGGCCACCGACGCC
 AAGCGCTGCTCAGAGATTGGACGGGATATCCTACAGGAAGGTGGTCCGTGGTGGATGCAGCCATCGCAA
 GCCTGCTGTGTATGGGGCTCATGAATGCCACAGTATGGGCATCGGGGGCGGCCTGTTCTTCACCATCTA
 CAACAGCACACAGGAAAAGTTGAGGTTATCAATGCCCGTGAGGTAGCTCCAGGTTGGCCAATACCACC
 ATGTTCAACAACCTCCAAGGACTCTGAAGAAGGTGGCCTTTCAGTGGCTGTCCCTGGTGAAATCCGTGGTT
 ATGAGCTGGCACACCAACGACACGGCCGGCTCCCTGGGCTCGCCTTTCACACCCAGCATCCAGCTGGC
 TCGCCACGGCTTCCCTGTGGCAAGGGTTTGGCAATAGCCCTGGACAAAAACGGGACGTATTGAGAAG
 ACCCCTGCCTTGTGCGAGGTGTTCTGCCGCAAGGGAAGGTGCTTCAAGAAGGAGAGACGGTACTATGC
 CGAAGCTGGCTGACACATTGCAGATACTGGCCAGGAGGGCGCCAAGGCCTTCTACAATGGGAGCCTCAC
 AGCCAGATTGTAAAGACATCCAGGAGGCTGGTGGCATTATGACGGTTGAGGACCTCAACAACCTACCGT
 GCTGAGCTGATTGAGCATCCGATGAGCATCGGCCCTCGGTGATGCGACCCTGTACGTGCCAGTGCCCCAC
 TCAGCGGGCCCGTGTGATTCTCATCTTGAACATCCTCAAAGGATACAACCTTCTCCGAAGAGCGTAGC
 GACCCCTGAACAGAAGGCACTGACGTATCACCGTATCGTGGAGGCCTTTCGGTTTGCCTATGCCAAGAGG
 ACCATGCTCGGTGACCCAAAGTTTGTGATGTGTCTCAGGTGATCCGCAACATGAGCTCTGAGTTCTACG
 CCACCCAGCTCCGAGCCCGCATCACTGATGAAACCACCCACCCAGCCGCTACTATGAGCCTGAATTCTA
 CCTTCAGGATGATGGAGGCACCGCTCACCTGTCTGCGGTTTCAGAGGATGGCAGTGTGTGGCTGCCACT
 AGTACCATCAACCTCTACTTTGGCTCCAAGGTCTGTCTCGGGTCACTGGCATCCTGTTTAAATGATGAGA
 TGGATGACTTCAGCTCGCCCAACTTCATCAACCAGTTCAGGGTAGCCCTCACCAGCCAACCTTCATCAA
 GCCAGGTAAGCAGCCTCTTTCATCCATGTGCCCTCAATCATCCTGGATAAGGACGGCCAGGTTCCGATG
 GTGGTCGGAGCCTCAGGGGGTACCCAGATCACACATCTGTTGCACTGGCCATCATCAACAGCCTGTGGT
 TCGGATACGATGTGAAGAGAGCTGTGGAGGAGCCCGGCTGCACAACCAGCTTTTACCTAATACCACAAC
 GGTAGAGAAAAGACATTGATCAGGTGGTACTGCAGGCCTGAAGATTTCGGCACCACCATACAGAAGTCACG
 CCCACCTTCATCGCTGTAGTTCAGGCTGTCTGTCGAGCATCAGGTGGTTGGGAGCTGCCTCAGACTCCA
 GAAAAGGCGGGGAACCTGCTGGCTACTGAGTGCCCGGAAGAGGCAAGATTGACCCGACGCAAGGGACGA
 GAATGGGAACAGGAGCAAGAGTGGGACGTTGGAGAATCGCCGCTCTGGGTGGGACAGAGGGAGCGCAA
 TAAATGGAGGCCACCGCAAGCTGCGGGAAGCCTTTCGGGCTGAACTTCCAAAAA AAAAAAAAAA AAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_008116

Insert Size: 1707 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: [BC012969](#), [AAH12969](#)

RefSeq Size: 2039 bp

RefSeq ORF: 1707 bp

Locus ID: 14598

UniProt ID: [Q60928](#)

Cytogenetics: 10 C1

Gene Summary:

This gene encodes gamma-glutamyl transpeptidase, a plasmamembrane-associated enzyme that cleaves the peptide bond between gamma-glutamyl and cysteinyl glycine moieties of glutathione. The encoded protein is autocatalytically processed to generate an enzymatically active heterodimer comprised of heavy and light chains. Mice lacking the encoded protein grow slowly, develop cataracts and have elevated levels of glutathione in plasma and urine. Transgenic overexpression of the encoded protein in mice enhances osteoclastic bone resorption. The mutant alleles termed 'Dwarf grey' and 'Dwarf grey Bayer' in mice are associated with deletions in this gene. A gamma-glutamyl transpeptidase paralog is located adjacent to this gene. Alternative splicing results in multiple transcript variants. Additional transcripts using alternate promoters and differing in 5' UTRs have been described. [provided by RefSeq, Apr 2015]

Transcript Variant: This variant (1) represents the longer transcript. Both variants 1 and 2 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.