

## Product datasheet for **RR207237**

### **Ggt1 (NM\_053840) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ggt1 (NM_053840) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ggt1
Synonyms:	GGLUT; Ggt; Ggtp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR207237 representing NM\_053840  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGAATCGGTTTCTGGTGTGGCCTGGTGGCGGTGGTTCTGGTGTTCGTCATCATCGGCCCTGCA  
 TCTGGCTACCCACCACCTCTGGGAAGCCTGACCATGTGTACTCCAGGGCGGCCGTGGCCACAGATGCCAA  
 CGGTTGCTCAGAGATTGGGCGGGATATGCTACAGGAAGCGGCTCCGTAGTGACGCGGCCATCGCAAGC  
 CTGCTGTGTATGGGGCTCATTAATGCCACAGTATGGGCATCGGGGGCGGCCTCTTCTCACCATCTACA  
 ACAGCACCACACGAAAAGCTGAAGTTATCAATGCCCGTGAATGGCTCCCAGGTTGGCCAATACCAGCAT  
 GTTCAATAATTCTAAGGACTCTGAAGAAGGAGGCCTTTCAGTGGCAGTTCCTGGTAAATCCGTGGCTAT  
 GAGCTGGCACACCAACGGCATGGCCGGCTACCTGGGCTCGCCTTCCAACCCAGCATCCAACCTGGCTC  
 GCCATGGCTTCCCTGTGGCAAGGGCTTGCAAGAGCCCTGGACAAAAACGGGACATCATTGAGAAGAC  
 ACCTGCTTTGTGCGAGGTGTTCTGCCGGCAAGGAAGGTCTTCAGGAAGGAGAGACAGTAACTATGCCG  
 AAGTTGGCCGATACGTTGCAAACTACTGGCCAGGAAGGGGCCAGGGCCTTCTACAATGGGAGCCTCACAG  
 CCCAGATTGTGAAAGACATCCAGGAGGCTGGGGCATTATGACGGTTGAGGACCTTAACAACATATCGTGC  
 GGAAGTATCGAGCATCCGATGAGCATCGGCCTCGGGACTCCACCCTGTACGTGCCAGCGCCCACTC  
 AGCGGGCCCGTGCTGATTCTCATCTTGAACATCCTCAAAGGATACAACCTCTCTCCAAAGAGCGTGGCAA  
 CCCAGAACAAGAGCGCTGACGTATCACCGTATCGTGGAGGCCCTTTCGGTTTGCCTATGCCAAGAGGAC  
 CATGCTCGGTGACCCAAAGTTTGTGATGTGTCTCAGGTATCCGCAACATGAGTCTGAGTTCTACGCT  
 ACTCAGCTCGAGCCCGCATCACTGATGAAACCACTACCCAACCGCCTACTATGAGCCTGAATTTCTACC  
 TTCCAGACGATGGGGTACCGCTACCTGTCGGTGGTTTCCGAGGATGGCAGTGTGTGGCCGCCACCAG  
 TACCATCAACCTCTACTTTGGCTCCAAGTCTCTCTCGGGTCAGTGGCATCCTGTTAATGACGAGATG  
 GATGACTTCAGCTCGCCAACTTCACCAACCAGTTTGGGGTAGCGCCCTACCAGCCAACCTCATCAAGC  
 CAGGTAAGCAACCGCTTTCATCCATGTGCCCTCAATCATCGTGGATAAAGGACGGCAAGGTTTCGGATGGT  
 GGTGGAGCCTCGGGAGGTACCCAGATCACACGTCTGTTGCACTGGCCATCATCAACAGCCTGTGGTTC  
 GGGTATGATGTGAAGAGAGCTGTGGAGGAGCCCGTCTTCAACACAGCTTTGCCCAATACCACAACAG  
 TAGAGAAAAATTTGATCAGGTGGTACTGCAGGTCTGAAGACTCGCACCACCATACAGAGGTACACCC  
 CGACTTCATCGCTGTGGTTCAGGCCGCTGTTTCAACGTCAGGTGGTTGGGCAGCTGCCTCAGATTCAGA  
 AAAGCGGGGAGCCCGCTGGCTAC

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR207237 representing NM\_053840  
 Red=Cloning site Green=Tags(s)

MKNRFLV LGLVAVVLVFVIIGLCIWLPTTSGKPDHVYSRAAVATDAKRCSEIGRDMQLQEGGSVVDAAIAS  
 LLCMGLINAHSMGIGGLFFTIYNSTTRKAEVINAREMAPRLANTSMFNNSKDSEEGGLSVAVPGEIRGY  
 ELAHRHGRPLPWARLFQPSIQLARHGFPVKGGLARALDKKRDIIIEKTPALCEVFCRQGKVLQEGETVTMP  
 KLADTLQILAQEGARAFYNGSLTAQIVKDIQEAGGIMTVEDLNYYRAEVI EHPMSIGLGDSTLYVPSAPL  
 SGPVLIILNLIKGYNFSPKSVATPEQKALTYHRIVEAFRFAYAKRTMLGDPKFVDVSVQVIRNMSSEFYA  
 TQLRARI TDETTHTPTAYYEPEFYLPDDGGTAHLSVVSSEDGSAAVATSTINLYFGSKVL SRVSGILFNDEM  
 DDFSSPNFTNQFVAPSPANFIKPGKQPLSSMCPSEIIVDKDGKVRMVGASGGTQITTSVALAIINSLWF  
 GYDVKRAVEEPRLHNQLLPNTTTVEKNIDQVVTAGLKRHHHTEVTPDFIAVVQAVVRTSGGWAAASDSR  
 KGGEPAGY

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

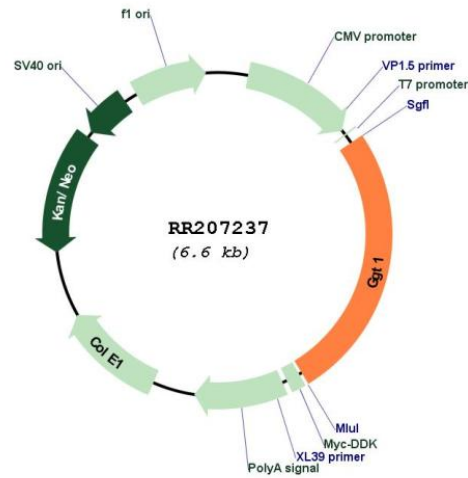
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_053840  
 ORF Size: 1704 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_053840.2</a> , <a href="#">NP_446292.2</a>
<b>RefSeq Size:</b>	2068 bp
<b>RefSeq ORF:</b>	1707 bp
<b>Locus ID:</b>	116568
<b>UniProt ID:</b>	<a href="#">P07314</a>
<b>Cytogenetics:</b>	20p12
<b>MW:</b>	61.6 kDa
<b>Gene Summary:</b>	required in the glutathione metabolism [RGD, Feb 2006]