

Product datasheet for **RC236213**

GGT6 (NM_001288704) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GGT6 (NM_001288704) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GGT6
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236213 representing NM_001288704
Red=Cloning site Blue=ORF Green=Tags(s)

```
TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCCGATCGCC
```

```
ATGGAGCGGGCAGAAGAGCCCGTGGTCTATCAGAAGCTGCTGCCCTGGGAGCCAAGCTTGGAGTCGGAGG  
AGGAAGTGGAGGAGGAGGAGACATCAGAGGCGCTGGTTCTAAACCCCGGAGGCACCAGGACTCTCCAG  
GAACAAGGCTGGCGGGCTGCCCGAACCTGGGCCGTGTAGTGGCAGCCCTGCTGCTGCTGTTGGC  
TGCTCCCTGGCTGTGAGGCAGCTCCAGAATCAGGGCAGGTCGACAGGAAGCTTGGGCTCTGTGGCCCTC  
CACCCGGCGGACACTCCACGGCCCTGGCGTATACCACCAGGTGCCATCATCAGCCCTGCAGACTGCTG  
TGAGCCCCGAGAGCAGTGCCCTGGCCGCGTGGACAGCAGCGGCTCTGTGCTCCTTCTCACCTCCTCGT  
CAACTGCTCCTTTGGCTCTGCACACCTGTCCCAAGCACTGGGGTTCTGCTCAGCAACCTGGTGGCCAAG  
TCTACCAC
```

```
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA
```

Protein Sequence: >RC236213 representing NM_001288704
Red=Cloning site Green=Tags(s)

```
MERAEEPVVYQKLLPWEPSLESEEEVEEETSEALVLNPRRHQDSSRNKAGGLPGTWARVVAALLLAVG  
CSLAVRQLQNQRSTGSLGSAVPPPGHSHGPGVYHHGAIISPADCCPREQCPGRRGQRLCAPSHLLA  
QLLLWLCTPVPKHWGSAQQPGGQVYH
```

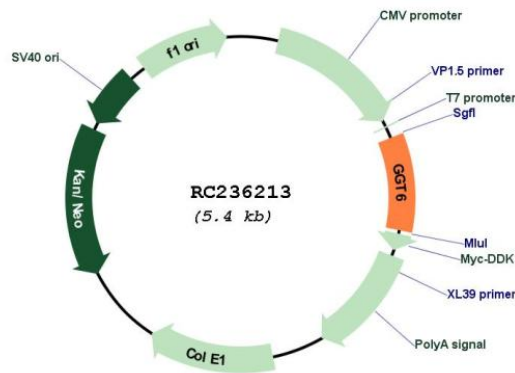
```
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Restriction Sites: SgfI-MluI



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Cloning Scheme:

Plasmid Map:


ACCN: NM_001288704

ORF Size: 498 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_001288704.2</u>
RefSeq Size:	1966 bp
RefSeq ORF:	501 bp
Locus ID:	124975
UniProt ID:	<u>Q6P531</u>
Cytogenetics:	17p13.2
Protein Pathways:	Arachidonic acid metabolism, Cyanoamino acid metabolism, Glutathione metabolism, Metabolic pathways, Selenoamino acid metabolism, Taurine and hypotaurine metabolism
MW:	18.4 kDa
Gene Summary:	GGT6 belongs to the gamma-glutamyltransferase (GGT; EC 2.3.2.2) gene family. GGT is a membrane-bound extracellular enzyme that cleaves gamma-glutamyl peptide bonds in glutathione and other peptides and transfers the gamma-glutamyl moiety to acceptors. GGT is also key to glutathione homeostasis because it provides substrates for glutathione synthesis (Heisterkamp et al., 2008 [PubMed 18357469]).[supplied by OMIM, Oct 2008]