

Product datasheet for **RC214174**

GGT6 (NM_153338) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGT6 (NM_153338) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GGT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC214174 representing NM_153338
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCGGGCAGAAGAGCCCGTGGTCTATCAGAAGCTGCTGCCCTGGGAGCCAAGCTTGGAGTCGGAGG
 AGGAAGTGGAGGAGGAGACATCAGAGGCGCTGGTTCTAAACCCCGGAGGCACCAGGACTCTTCCAG
 GAACAAGGCTGGCGGGCTGCCCGAACCTGGGCGCGTGTAGTGGCAGCCCTGCTGCTGCTGGCTGTTGGC
 TGCTCCCTGGCTGTGAGGCAGCTCCAGAATCAGGGCAGGTCGACAGGAAGCTTGGGCTCTGTGGCCCTC
 CACCCGGCGGACACTCCCACGGCCCTGGCGTATACCACCAGGTGCCATCATCAGCCCTGCAGGTGCCAT
 GTTTTGGGGCTCTTCCACGATAGCTCCTCAGGCAATCCACGGCCCTGACATCAGGCCACGACAGACC
 CTGGCCCCGGCTGGGGCTGCCCGGGCTCTGCCACCCTGCACCTGCTGCATGCACGCTTCGGCCGCC
 TGCCCTGGCCACGCTGTAGTGGGCCACCACGCTGGCTCAGGAGGGTTCTGGTGGACACACCCT
 GGCAAGGGCTCTGGTGGCTCGGGGCACAGAAGGCTCTGTCCACTACTTTGCCATGCTGATGGGACACC
 CTGGGCGCTGGGGCCGAGCCACCAACCAACTGGCAGCTGTGCTTCGCAGCGCAGCCCTCGCTCCCA
 CCTCAGACCTTGCTGGGGATGCTCTACTGAGTCTACTGGCGGGAGACCTGGGGGTGGAGGTGCCCTCGGC
 TGTGCCAGGCCACTTTGGAACAGCAGAGCAGCTACCTGTGCCAGGGCATCCTGTTACCACCCCC
 AGTCCCTCAGCTGGCCAGAAGTCTGGCACTGTTGGAGGCAGCCCTGCCTCGGGGCGCCATCCCTG
 ACCCTGCCACCGTTCCTGCAGACTGCTGTGAGCCCCGAGAGCAGTGCCTGGCCGCGTGGACAGCAG
 CGGCTCTGTGCTCCTTCTCACCTCCTCGCTCAACTGCTCCTTTGGCTCTGCACACCTGTCCCAAGCACT
 GGGTTCTGCTCAGCAACTGGTGGCCAAGTCTACCCTAGTGCCTGGGCTGCCCTCATCCTCCGTG
 GCAGCTGGATGACACAGAGGCTGATGTGTTGGGCTTGTGGCTCAGGGACCCCTGATGTGCCAGGGC
 CATGACTCACACCCTACTCAGGCATCTGGCAGCAAGGCCCTACCCAGGCCAGCACCAGCATCAGGGT
 CAGCAAGAACCAACAGAGCATCCCAGCACTTGTGGCCAAGGGACCTGCTCCAGGTGGCAGCCACACAG
 AGCAGCCCATGTCTCCAGTGTCCCCATGCTGCTGCCCTTCCAGGGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC214174 representing NM_153338
 Red=Cloning site Green=Tags(s)

MERAEEPVVYQKLLPWEPSESEEEVEEEETSEALVLNPRRHQDSSRNKAGGLPGTWARVVAALLLAVG
 CSLAVRQLQNQRSTGSLGVSAPPPGGHSHGPGVYHHGAIISPAGAMFWGLFHDSSSGNSTALTSGPAQT
 LAPGLGLPAALPTLHLLHARFGRPLWPRLLVGPTTLAQEGFLVDTPALARALVARGTEGLCPLLCHADGTP
 LGAGARATNPQLAAVLRSAALAPTSDLAGDALLSLLAGDLGVEVPSAVPRPTLEPAEQLPVPQGIFFTP
 SPSAGPELLALLEAALRSGAPIPDPCPPFLQTAVSPESSALAAVDSSGSVLLLTSSLNCSFSGAHLSPST
 GVLLSNLVAKSTTSAWACPLILRGLDDTEADVGLVASGTPDVARAMHTLLRHLAARPPPTQAQHQHQG
 QQEPTEHPSTCGQGTLLQVAANTEHAHVSSVPHACCPFQGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8029_c04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_153338

ORF Size: 1383 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_153338.4](#)
RefSeq Size: 2528 bp

RefSeq ORF: 1386 bp

Locus ID: 124975

UniProt ID: [Q6P531](#)

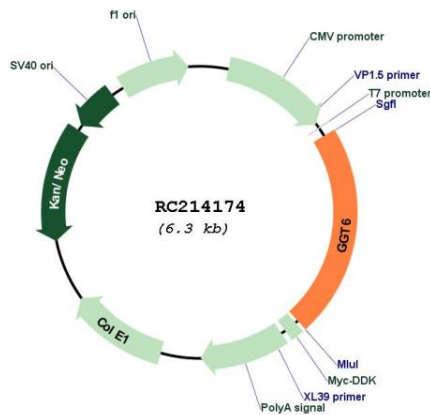
Cytogenetics: 17p13.2

Protein Pathways: Arachidonic acid metabolism, Cyanoamino acid metabolism, Glutathione metabolism, Metabolic pathways, Selenoamino acid metabolism, Taurine and hypotaurine metabolism

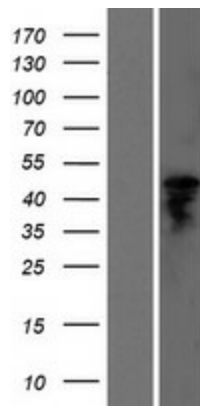
MW: 47.3 kDa

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]

Product images:



Circular map for RC214174



Western blot validation of overexpression lysate (Cat# [LY407056]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214174 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).