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Product datasheet for SC316775

GGT5 (NM_001099782) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGT5 (NM_001099782) Human Untagged Clone
Tag:	Tag Free
Symbol:	GGT5
Synonyms:	GGL; GGT-REL; GGT 5; GGTLA1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>SC316775 representing NM_001099782.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCCCGGGGCTACGGGGCCACGGTCAGCCTAGTCCTGCTGGGTCTGGGGCTGGCGCTGGCTGTCATT
GTGCTGGCTGTGGTCCTCTCTCGACACCAGGCCCCATGTGGCCCCCAGGCCTTTGCCCACGCTGCTGTT
GCCGCCGACTCCAAGGTCTGCTCGGATATTGGACGAGCCATCCTCCAGCAGCAGGGCTCACCCGTGGAT
GCCACCATCGCGGCTCTGGTCTGCACCAGCGTCGTCAACCCTCAGAGCATGGGCCTGGGCGGAGGGGTC
ATCTTCACCATCTACAATGTGACAACAGGGGCCCAGTGGATCGGGGTGCCCGGGGAGCTCCGTGGCTAT
GCCGAGGCCCACCGCCGCCATGGCCGCCTGCCCTGGGCGCAGCTGTTCCAGCCCACCATCGCGCTGCTC
CGAGGGGGGCATGTGGTGGCCCCTGTCCTCAGCCGTTTCCTGCACAACAGCATCCTGCGGCCTTCCTTG
CAGGCGTCAACCCTGCGCCAGCTCTTCTTCAACGGGACAGAACCCCTGAGGCCTCAGGACCCACTCCCA
TGGCCTGCACTGGCCACCACCCTGGAGACCGTGGCCACAGAGGGCGTGGAGGTCTTCTACACGGGGAGG
CTGGGCCAGATGCTGGTGGAGGACATTGCCAAGGAAGGGAGCCAGCTGACGCTGCAGGACCTGGCCAAG
TTCCAGCCCGAGGTGGTGGATGCCCTGGAGGTGCCCCTGGGGGACTATACCCTGTACTCACCACCGCCG
CCTGCAGGGGGTGCCATTCTCAGCTTTATCCTCAACGTGCTAAGAGGGTTCAACTTCTCAACAGAGTCT
ATGGCCAGGCCTGAAGGGAGGGTGAACGTGTACCACCACCTTGTAGAGACGCTCAAGTTTGCCAAGGGG
CAGAGGTGGAGGCTGGGGGACCCTCGAAGCCACCCGAAGCTCCAGAATGCCTCCCGGGACCTGCTGGGG
GAGACCCTGGCCCAGCTCATCCGCCAACAGATCGATGGCCGGGGGGACCACCAGCTCAGCCACTACAGC
TTGGCCGAGGCCTGGGGCCACGGGACAGGCACGTCCCATGTGTCTGTGCTGGGGGAGGATGGCAGCGCC
GTGGCTGCCACCAGCACCATCAACACACCCTTTGGAGCGATGGTGTATTCACCACGGACAGGCATCATC
CTCAACAACGAGCTCCTGGACTTATGCGAGCGATGCCCCCGGGGTTCCGGCACCACCCCCTCACCTGTG
AGTGGAGACAGGGTGGGTGGAGCTCCCGGAAGGTGCTGGCCCCCAGTTCCAGGCGAGCGTTCCCCATCC
TCCATGGTGCCCTCCATCTTGATCAACAAAGCCCAGGGGTCGAAGCTAGTGATTGGCGGGGCTGGCGGG
GAGCTCATCATCTCTGCTGTGGCCCAGGCCATCATGAGCAAGCTGTGGCTTGGCTTTGACCTGAGAGCG
GCCATTGCAGCCCCCATCCTGCATGTCAACAGCAAGGGCTGTGTGGAGTACGAGCCCAACTTCAGCCAG
GAGGTGCAGAGGGGACTCCAAGACCGTGGCCAGAACCAGACCCAGAGGCCCTTCTTCCTGAACGTGGTC
CAGGCTGTGTCCCAGGAGGGGGCCTGTGTGTACGCCGTCTCGGACCTGAGGAAGAGTGGGGAGGCCGCA
GGCTACTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:

ACCN: NM_001099782

Insert Size: 1665 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: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001099782.2
RefSeq Size:	2415 bp
RefSeq ORF:	1665 bp
Locus ID:	2687
UniProt ID:	P36269
Cytogenetics:	22q11.23
Protein Families:	Protease, Transmembrane
Protein Pathways:	Arachidonic acid metabolism, Cyanoamino acid metabolism, Glutathione metabolism, Metabolic pathways, Selenoamino acid metabolism, Taurine and hypotaurine metabolism
MW:	59 kDa
Gene Summary:	This gene is a member of the gamma-glutamyl transpeptidase gene family, and some reports indicate that it is capable of cleaving the gamma-glutamyl moiety of glutathione. The protein encoded by this gene is synthesized as a single, catalytically-inactive polypeptide, that is processed post-transcriptionally to form a heavy and light subunit, with the catalytic activity contained within the small subunit. The encoded enzyme is able to convert leukotriene C4 to leukotriene D4, but appears to have distinct substrate specificity compared to gamma-glutamyl transpeptidase. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014] Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 5' coding region and uses an alternate in-frame splice site in the 3' coding region, compared to variant 1. The encoded isoform (3) is shorter than isoform 1.