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Product datasheet for SC302638

GGT1 (NM_001032365) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GGT1 (NM_001032365) Human Untagged Clone
Tag:	Tag Free
Symbol:	GGT1
Synonyms:	CD224; D22S672; D22S732; GGT; GGT 1; GTG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

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>SC302638 representing NM_001032365.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGAAGAAGTTAGTGGTGCTGGGCCTGCTGGCCGTGGTCCTGGTGCTGGTCATTGTCGGCCTCTGT
CTCTGGCTGCCCTCAGCCTCCAAGGAACCTGACAACCATGTGTACACCAGGGCTGCCGTGGCCGCGGAT
GCCAAGCAGTGCTCGAAGATTGGGAGGGATGCACTGCGGGACGGTGGCTCTGCGGTGGATGCAGCCATT
GCAGCCCTGTTGTGTGTGGGGCTCATGAATGCCCACAGCATGGGCATCGGGGGTGGCCTCTTCCTCACC
ATCTACAACAGCACCACACGAAAAGCTGAGGTCATCAACGCCCGCGAGGTGGCCCCCAGGCTGGCCTTT
GCCACCATGTTCAACAGCTCGGAGCAGTCCCAGAAGGGGGGGCTGTCGGTGGCGGTGCCTGGGGAGATC
CGAGGCTATGAGCTGGCACACCAGCGGCATGGGCGGCTGCCCTGGGCTCGCCTCTTCCAGCCCAGCATC
CAGCTGGCCCGCCAGGGCTTCCCCGTGGGCAAGGGCTTGGCGGCAGCCCTGGAAAACAAGCGGACCGTC
ATCGAGCAGCAGCCTGTCTTGTGTGAGGTGTTCTGCCGGGATAGAAAGGTGCTTCGGGAGGGGGAGAGA
CTGACCCTGCCGCAGCTGGCTGACACCTACGAGACGCTGGCCATCGAGGGTGCCCAGGCCTTCTACAAC
GGCAGCCTCACGGCCCAGATTGTGAAGGACATCCAGGCGGCCGGGGGCATTGTGACAGCTGAGGACCTG
AACAACTACCGTGCTGAGCTGATCGAGCACCCGCTGAACATCAGCCTGGGAGACGTGGTGCTGTACATG
CCCAGTGCGCCGCTCAGCGGGCCCGTGCTGGCCCTCATCCTCAACATCCTCAAAGGGTACAACTTCTCC
CGGGAGAGCGTGGAGAGCCCCGAGCAGAAGGGCCTGACGTACCACCGCATCGTAGAGGCTTTCCGGTTT
GCCTACGCCAAGAGGACCCTGCTTGGGGACCCCAAGTTTGTGGATGTGACTGAGGTGGTCCGCAACATG
ACCTCCGAGTTCTTCGCTGCCCAGCTCCGGGCCCAGATCTCTGACGACACCACTCACCCGATCTCCTAC
TACAAGCCCGAGTTCTACACGCCGGATGACGGGGGCACTGCTCACCTGTCTGTCGTCGCAGAGGACGGC
AGTGCTGTGTCCGCCACCAGCACCATCAACCTCTACTTTGGCTCCAAGGTCCGCTCCCCGGTCAGCGGG
ATCCTGTTCAATAATGAAATGGACGACTTCAGCTCTCCCAGCATCACCAACGAGTTTGGGGTACCCCCC
TCACCTGCCAATTTCATCCAGCCAGGGAAGCAGCCGCTCTCGTCCATGTGCCCGACGATCATGGTGGGC
CAGGACGGCCAGGTCCGGATGGTGGTGGGAGCTGCTGGGGGCACACAGATCACCACGGCCACTGCACTG
GCCATCATCTACAACCTCTGGTTCGGCTATGACGTGAAGCGGGCCGTGGAGGAGCCCCGGCTGCACAAC
CAGCTTCTGCCCAACGTCACGACAGTGGAGAGAAACATTGACCAGGCAGTGACTGCAGCCCTGGAGACC
CGGCACCATCACACCCAGATCGCGTCCACCTTCATCGCTGTGGTGCAAGCCATCGTCCGCACGGCTGGT
GGCTGGGCAGCTGCCTCGGACTCCAGGAAAGGCGGGGAGCCTGCCGGCTACTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

ACCN: NM_001032365

Insert Size: 1710 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).

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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_001032365.2
RefSeq Size:	2393 bp
RefSeq ORF:	1710 bp
Locus ID:	2678
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:	61.4 kDa
Gene Summary:	The enzyme encoded by this gene is a type I gamma-glutamyltransferase that catalyzes the transfer of the glutamyl moiety of glutathione to a variety of amino acids and dipeptide acceptors. The enzyme is composed of a heavy chain and a light chain, which are derived from a single precursor protein. It is expressed in tissues involved in absorption and secretion and may contribute to the etiology of diabetes and other metabolic disorders. Multiple alternatively spliced variants have been identified. There are a number of related genes present on chromosomes 20 and 22, and putative pseudogenes for this gene on chromosomes 2, 13, and 22. [provided by RefSeq, Jan 2014] Transcript Variant: This variant (5) differs in the 5' UTR compared to variant 1. Variants 1, 3, 4, and 5 all encode the same protein.

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