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Product datasheet for SC320596

Aspartate Aminotransferase (GOT1) (NM_002079) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aspartate Aminotransferase (GOT1) (NM_002079) Human Untagged Clone
Tag:	Tag Free
Symbol:	Aspartate Aminotransferase
Synonyms:	AST1; ASTQTL1; cAspAT; cCAT; GIG18
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_002079.1
GAAATCTCTTGATTCCTAGTCTCTCGATATGGCACCTCCGTCAGTCTTTGCCGAGGTTCC
GCAGGCCCAGCCTGTCCTGGTCTTCAAGCTCACTGCCGACTTCAGGGAGGATCCGGACCC
CCGCAAGGTCAACCTGGGAGTGGGAGCATATCGCACGGATGACTGCCATCCCTGGGTTTT
GCCAGTAGTGAAGAAAGTGGAGCAGAAGATTGCTAATGACAATAGCCTAAATCACGAGTA
TCTGCCAATCCTGGGCCTGGCTGAGTTCCGGAGCTGTGCTTCTCGTCTTGCCCTTGGGGA
TGACAGCCCAGCACTCAAGGAGAAGCGGGTAGGAGGTGTGCAATCTTTGGGGGGAACAGG
TGCACTTCGAATTGGAGCTGATTTCTTAGCGCGTTGGTACAATGGAACAAACAACAAGAA
CACACCTGTCTATGTGTCCTCACCAACCTGGGAGAATCACAATGCTGTGTTTTCCGCTGC
TGGTTTTAAAGACATTCGGTCCTATCGCTACTGGGATGCAGAGAAGAGAGGATTGGACCT
CCAGGGCTTCCTGAATGATCTGGAGAATGCTCCTGAGTTCTCCATTGTTGTCCTCCACGC
CTGTGCACACAACCCAACTGGGATTGACCCAACTCCGGAGCAGTGGAAGCAGATTGCTTC
TGTCATGAAGCACCGGTTTCTGTTCCCCTTCTTTGACTCAGCCTATCAGGGCTTCGCATC
TGGAAACCTGGAGAGAGATGCCTGGGCCATTCGCTATTTTGTGTCTGAAGGCTTCGAGTT
CTTCTGTGCCCAGTCCTTCTCCAAGAACTTCGGGCTCTACAATGAGAGAGTCGGGAATCT
GACTGTGGTTGGAAAAGAACCTGAGAGCATCCTGCAAGTCCTTTCCCAGATGGAGAAGAT
CGTGCGGATTACTTGGTCCAATCCCCCCGCCCAGGGAGCACGAATTGTGGCCAGCACCCT
CTCTAACCCTGAGCTCTTTGAGGAATGGACAGGTAATGTGAAGACAATGGCTGACCGGAT
TCTGACCATGAGATCTGAACTCAGGGCACGACTAGAAGCCCTCAAAACCCCTGGGACCTG
GAACCACATCACTGATCAAATTGGCATGTTCAGCTTCACTGGGTTGAACCCCAAGCAGGT
TGAGTATCTGGTCAATGAAAAGCACATCTACCTGCTGCCAAGTGGTCGAATCAACGTGAG
TGGCTTAACCACCAAAAATCTAGATTACGTGGCCACCTCCATCCATGAAGCAGTCACCAA
AATCCAGTGAAGAAACACCACCCGTCCAGTACCACCAAAGTAGTTCTCTGTCATGTGTGT
TCCCTGCCTGCACAAACCTACATGTACATACCATGGATTAGAGACACTTGCAGGACTGAA
AGGCTGCTCTGGTGAGGCAGCCTCTGTTTAAACCGGCCCCACATGAAGAGAACATCCCTT
GAGACGAATTTGGAGACTGGGATTAGAGCCTTTGGAGGTCAAAGCAAATTAAGATTTTTA
TTTAAGAATAAAAGAGTACTTTGATCATGAGAAAAAAAACAAAAAAAAAAAAAAAAAAAA
AAAAAA

Restriction Sites: Please inquire

ACCN: NM_002079

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_002079.1, NP_002070.1
RefSeq Size:	1941 bp
RefSeq ORF:	1242 bp
Locus ID:	2805
UniProt ID:	P17174
Cytogenetics:	10q24.2
Domains:	aminotran_1_2
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, Cysteine and methionine metabolism, Metabolic pathways, Phenylalanine, tyrosine and tryptophan biosynthesis, Phenylalanine metabolism, Tyrosine metabolism
Gene Summary:	Glutamic-oxaloacetic transaminase is a pyridoxal phosphate-dependent enzyme which exists in cytoplasmic and mitochondrial forms, GOT1 and GOT2, respectively. GOT plays a role in amino acid metabolism and the urea and tricarboxylic acid cycles. The two enzymes are homodimeric and show close homology. [provided by RefSeq, Jul 2008]