

Product datasheet for SC118816

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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118816 sequence for NM_002079 edited (data generated by NextGen Sequencing)

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ATGGCACCTCCGTCAGTCTTTGCCGAGGTTCCGCAGGCCAGCCTGTCCTGGTCTTCAAG
CTCACTGCCGACTTCAGGGAGGATCCGGACCCCGCAAGGTCAACCTGGGAGTGGGAGCA
TATCGCACGGATGACTGCCATCCCTGGGTTTTGCCAGTAGTGAAGAAAGTGGAGCAGAAG
ATTGCTAATGACAATAGCCTAAATCACGAGTATCTGCCAATCCTGGGCCTGGCTGAGTTC
CGGAGCTGTGCTTCTCGTCTTGCCTTGGGGATGACAGCCAGCACTCAAGGAGAAGCGG
GTAGGAGGTGTGCAATCTTTGGGGGAACAGGTGCACTTCGAATTGGAGCTGATTTCTTA
GCGCGTTGGTACAATGGAACAAACAACAAGAACACACCTGTCTATGTGCCTCACCAACC
TGGGAGAATCACAATGCTGTGTTTTCCGCTGCTGGTTTTAAAGACATTCGGTCTATCGC
TACTGGGATGCAGAGAAGAGAGGATTGGACCTCCAGGGCTTCTGATGATCTGGAGAAT
GCTCCTGAGTTCTCCATTGTTGCTCCTCCACGCTGTGCACACAACCAACTGGGATTGAC
CCAACCTCCGGAGCAGTGGAAAGCAGATTGCTTCTGTGATGAAGCACCGGTTTCTGTCCCC
TTCTTTGACTCAGCCTATCAGGGCTTCGCATCTGGAAACCTGGAGAGAGATGCCTGGGCC
ATTCGCTATTTTGTGCTGAAGGCTTCGAGTCTTCTGTGCCAGTCCTTCTCCAAGAAC
TTCGGGCTCTACAATGAGAGAGTCGGGAATCTGACTGTGGTTGGAAAAGAACCTGAGAGC
ATCCTGCAAGTCTTTCCAGATGGAGAAGATCGTGCGGATTACTTGGTCCAATCCCCC
GCCAGGGAGCACGAATTGTGGCCAGCACCTCTCTAACCTGAGCTCTTTGAGGAATGG
ACAGGTAATGTGAAGACAATGGCTGACCGGATTCTGACCATGAGATCTGAATCAGGGCA
CGACTAGAAGCCCTCAAACCCCTGGGACCTGGAACCACATCACTGATCAAATTGGCATG
TTCAGTCTCACTGGGTTGAACCCCAAGCAGGTTGAGTATCTGGTCAATGAAAAGCACATC
TACCTGCTGCCAAGTGGTCAATCAACGTGAGTGGCTTAACCACCAAAAATCTAGATTAC
GTGGCCACCTCCATCCATGAAGCAGTCACCAAAATCCAGTGA
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Clone variation with respect to NM_002079.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_002079 unedited ACTCACTATAGGCGGCCGGAATTTCGCACGAGGGGCCAGACCTGACCTGCCAGCTCCGGG CGTGGGGTGAAATCTCTTGATTCTAGTCTCTCGATATGGCACCTCCGTCACTTTTGGC GAGGTTCCGCGAGGCCAGCCTGTCTGGTCTTCAAGCTCACTGCCGACTCAGGGAGGAT CCGACCCCGCAAGGTCAACCTGGGAGTGGGAGCATATCGCACGGATGACTGCCATCCC TGGGTTTTGCCAGTAGTAAGAAAGTGGAGCAGAAGATTGCTAATGACAATAGCCTAAAT CACGAGTATCTGCCAATCCTGGCCTGGCTGAGTTCGGAGCTGTGCTTCTCGTCTTGCC CTTGGGGATGACAGCCAGCACTCAAGGAGAAGCGGGTAGGAGGTGTCAATCTTTGGGG GGAACAGGTGCACTTCAATTGGAGCTGATTTCTAGCGGTTGGTACAATGGAACAAAC AACAGAACACACCTGTCTATGTGTCTCACCAACCTGNGAGAATCACAATGCTGTGTTT TCCGCTGTGGTNTAAAGACATTCGGTCTATCGCTACTGNGATGCAGAGAGAGAGGAT TGGACCTCCAGGGCTTCTGAATGATCTGGAGAATGCTCCTGAGTTCTCCATTGNTGTCC TCCACGCTGTGCACACCACCAACTGGNGATGACCNACTCNGNAGCAGTGAAGCAGA TTGCTTCTGTATGAAGACCGTTTNNCTGTNCCCTTCTTTGACTCANCTATCAGGNCTT CGCATCTGGAACCCCTGAGAGAGATGCCCTGGCCATTGCTATTTTGTGTCTGAAGGCTT CAGTTCTTCTGTGCCAGTCTCTNCAGAACTNCGGCTTACATGANAGAGTTCGGAAT CTGACTGTGGGTGAAAAAGACCTGANAGCTNCTTGCAGGTCTTCCCAATGGGAAAGATC GTGCGATTACTTGTTCATNCCCGCCAGGAGACAGATTGGGGCCGACCCTCCTAACCTG ACCTTTGGGAAGGG</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_002079 unedited AAACCCCGGCCNCCCTAACTCCTATATCCCCTGCTTTTACTTGANCCGCGGCACGCTA TTCTANATCGAGTTTTTTTTTTTTTTTTTGCACAACATTTTTATTTTATTTTTTAGGC GAAGTACAACACAATAACAATGGCTCAAAAATATCAGAATGCACTACGCACATCACGAGTA AATACTGTCTGGTAAAATTGTTTCAGTTAAATATGTACGTGCCCGCATGTCATGATT AAATATCCTTCTTACCACAGTCACCCTAAAGAACCAAAGCTTAGGACTAGGGACACACCC ATGCAGAAAGAGCAGGGAGACCAGACACTCTGGGTTGAGATGATGAATTTAATGCCCGAG CCGACACCCACATTACACTTTGGCTCCTTTACACAACCTGATCTTTGGGACTACCAATT TGTACAGAGTTAAACACCACATAGAAGCACGCGGCCGCCACACAACACTCCTTTTTAG TGAGAGGGACACCACCCCTATGTCTCATGATCCAAGCACTCTTTTATTCTTAAATAAAAA TCTTAATTTGCCCTTGCACCTCAAAGGCTCTAATCCCAGTCTCAAATTCGTCTCAAGGG ATGTTCTTTCATGTGGGGCTCGGTCCAACCGCACGCTGCTTACCACACCCGCTTTC ACCTCCTCGCAGCGTCCCTCTACCCCCATGGCCATGTCCATGCACGTTTCGTCCCGCCAG CGACCCCCCTTAAACAGAAACTTCTTTGGGGCCACTGGACCGGGTGGAGTTCCCTTCCC CTGCATTCTCGGTACCTGTCTTTATGGCCTGGAGAGTCCACCCCCACTCCAATCTT TCCGGGCCAAACCACTTACGCCGATTTCCACACCTCGCCAACCCCTTCCAATTCCTC TTTTACTTGGCTCAAACTTACAACCGCTTCGGGGTTCACACCAAG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_002079
Insert Size:	2080 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).
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:	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]