

Product datasheet for **SC106218**

TAT (BC020707) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAT (BC020707) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAT
Synonyms:	tyrosine aminotransferase; tyrosine aminotransferase, cytosolic
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for BC020707, the custom clone sequence may differ by one or more nucleotides

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ATGGACCCATACATGATTGAGATGAGCAGCAAAGGCAACCTCCCCTCAATTCTGGACGTGCATGTCAACG
TTGGTGGGAGAAGCTCTGTGCCGGGAAAAATGAAAGGCAGAAAGGCCAGGTGGTCTGTGAGGCCCTCAGA
CATGGCCAAGAAAACCTTCAACCCCATCCGAGCCATTGTGGACAACATGAAGGTGAAACCAATCCAAAC
AAAACCATGATTTCCCTGTCCATTGGTGAGTTGGGGACTACTGAGGGGCTGTCATTGCCTCCTCTAC
TCTCATGTTACAGGCTGGTTGGAGAAGATGCCAGTTGGGGTGAGTCTGAGTACTGAACATGGGAGAAT
AACCTCTGGCTCCTTTGTGTTTTCTCCATAAAAAGGGGACCCTACTGTGTTTGAAACCTGCCTAC
AGACCTGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for BC020707 unedited GCGGTCACATTTGTATACGACTCACTATAGGGCGGCCGCGAATTCGCACGAGCAAANAAA AGCTAAGGGAGCTTTTCGGGGTTGGCTTCTTGGAGGCTGCTTTCTCCTTTACTTGGAAAGGC TTCGCTAGTGATGGACCCATACATGATTGAGATGAGCAGCAAAGGCAACCTCCCCTCAAT TCTGGACGTGCATGTCAACGTTGGTGGGAGAAGCTCTGTGCCGGGAAAAATGAAAGGCAG AAAGGCCAGGTGGTCTGTGAGGCCCTCAGACATGGCCAAGAAAACTTTCAACCCCATCCG AGCCATTGTGGACAACATGAAGGTGAAACCAAATCCAAACAAAACCATGATTTCCCTGTC CATTGGGACCCACTGTGTTTGGAAACCTGCCTACAGACCTGAAGTTACCCAGGCAAT GAAAGATGCCCTGGACTCGGGCAAATATAATGGCTATGCCCATCCATCGGCTTCTATC CAGTCGGGAGGAGATTGCTTCTTATTACCACTGCTCCTGAGGCACCCCTAGAAGCTAAGGA CGTCATTCTGACAAGTGGCTGCAGCCAAGCTATTGACCTTTGTTTAGCTGTGTTGGCCAA CCCAGGGCAAACATCCTGGTTCCAAGACCTGGTTTCTCTCTACAAGACTCTGGCTGA GTCTATGGGAATTGAGGTCAAACCTACAATTTGTTGCCAGAGAAATCTTGNGAAATTGA CCTGAACAACTGGAATATCTAATTGATGAAAAGACAGCTTGTCTCATTGTCAATAATCCA TCAAACCCCTGTGGGTGAGTGTTCAGCAAACGTCATCTTCAGAAGATTCTGCAGTGGCTG CACGGCAGTGTGCCCATCTTAGCTGATGAGATCTATGGAGACATGGTGTTCNGAT TTGCAATATGAAACACTGGCCAC
Restriction Sites:	NotI-NotI
ACCN:	BC020707
Insert Size:	4000 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:	BC020707.1 , AAH20707.1
RefSeq Size:	1116 bp
RefSeq ORF:	1116 bp
Locus ID:	6898
Cytogenetics:	16q22.2
Protein Families:	Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS
Protein Pathways:	Cysteine and methionine metabolism, Metabolic pathways, Phenylalanine, tyrosine and tryptophan biosynthesis, Phenylalanine metabolism, Tyrosine metabolism, Ubiquinone and other terpenoid-quinone biosynthesis

Gene Summary:

This nuclear gene encodes a mitochondrial protein tyrosine aminotransferase which is present in the liver and catalyzes the conversion of L-tyrosine into p-hydroxyphenylpyruvate. Mutations in this gene cause tyrosinemia (type II, Richner-Hanhart syndrome), a disorder accompanied by major skin and corneal lesions, with possible cognitive disability. A regulator gene for tyrosine aminotransferase is X-linked. [provided by RefSeq, Jul 2008]