

Product datasheet for SC119924

TAT (NM_000353) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAT (NM_000353) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAT
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC119924 sequence for NM_000353 edited (data generated by NextGen Sequencing)

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ATGGACCCATACATGATTGAGATGAGCAGCAAAGGCAACCTCCCCTCAATTCTGGACGTG
CATGTCAACGTTGGTGGGAGAAGCTCTGTGCCGGGAAAAATGAAAGGCAGAAAGGCCAGG
TGGTCTGTGAGGCCCTCAGACATGGCCAAGAAAACCTTCAACCCCATCCGAGCCATTGTG
GACAACATGAAGGTGAAACCAAATCCAAACAAAACCATGATTTCCCTGTCCATTGGGGAC
CCTACTGTGTTTGGAAACCTGCCTACAGACCCTGAAGTTACCCAGGCAATGAAAGATGCC
CTGGACTCGGGCAAATATAATGGCTATGCCCATCCATCGGCTTCCATCCAGTCGGGAG
GAGATTGCTTCTTATTACCACTGCCTGAGGCACCCCTAGAAGCTAAGGACGTCATTCTG
ACAAGTGGCTGCAGCCAAGCTATTGACCTTTGTTAGCTGTGTTGGCCAACCCAGGGCAA
AACATCGTGGTTCCAAGACCTGGTTTCTCTCTACAAGACTCTGGCTGAGTCTATGGGA
ATTGAGGTCAAACCTCTACAATTTGTTGCCAGAGAAATCTTGGGAAATTGACCTGAAACAA
CTGGAATATCTAATTGATGAAAAGACAGCTTGTCTCATTGTCAATAATCCATCAAACCC
TGTGGGTGAGTTCAGCAAACGTCATCTTCAGAAGATTCTGGCAGTGGCTGCACGGCAG
TGTGTCCCATCTTAGCTGATGAGATCTATGGAGACATGGTGTTCGGATTGCAAATAT
GAACCACTGGCCACCCTCAGCACCGATGTCCCATCCTGTCTGTGGAGGGCTGGCCAAG
CGCTGGCTGGTTCCTGGCTGGAGGTTGGGCTGGATCCTCATTGACCGAAGAGACATT
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ACCATTGTCCAGGGAGCTCTGAAAAGCATCCTATGTCGCACCCCGGGAGAGTTTTACCAC
AACACTCTGAGCTTCTCAAGTCCAATGCTGATCTCTGTTATGGGGCGTTGGCTGCCATC
CCTGGACTCCGGCCAGTCCGCCCTTCTGGGGCTATGTACCTCATGGTTGGAATTGAGATG
GAACATTTCCAGAATTTGAGAACGATGTGGAGTTCACGGAGCGGTTAGTTGCTGAGCAG
TCTGTCCACTGCCTCCAGCAACGTGCTTTGAGTACCCGAATTTCCATCCGAGTGGTCATC
ACAGTCCCGAGGTGATGATGCTGGAGGCGTGCAGCCGGATCCAGGAGTTCTGTGAGCAG
CACTACCATTGTGCTGAAGGCAGCCAGGAGGAGTGTGATAAATAG

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Clone variation with respect to NM_000353.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000353 unedited
 GGGGTCAGATTTTGTAAACGACTCATATAGGCGGCCGCGNAATTCGCACGAGCAAANAAA
 AGCTAAGGGAGCTTTTCGGGGTTGGCTTCTTGGAGGCTGCTTTCTCCTTTACTTGGAAAGGC
 TTCGCTAGTGATGGACCCATACATGATTGAGTGCAGCAGCAAAGGCAACCTCCCCTCAAT
 TCTGGACGTGCATGTCAACGTTGGTGGGAGAAGCTCTGTGCCGGGAAAAATGAAAGGCAG
 AAAGGCCAGGTGGTCTGTGAGGCCCTCAGACATGGCCAAGAAAACCTTTCAACCCCATCCG
 AGCCATTGTGGACAACATGAAGGTGAAACCAAATCCAAACAAAACCATGATTTCCCTGTC
 CATTGGGGACCCCTACTGTGTTTGGAAACCTGCCTACAGACCCCTGAAGTTACCCAGGCAAT
 GAAAGATGCCCTGGACTCGGGCAAATATAATGGCTATGCCCCATCCATCGGCTTCTATC
 CAGTCGGGAGGAGATTGCTTCTTATTACCACTGTCCTGAGGCACCCCTAGAAGCTAAGGA
 CGTCATTCTGACAAGTGGCTGCAGCCAAGCTATTGACCTTTGTTAGCTGTGTTGGCCAA
 CCCAGGGCAAACATCCTGGTTCCAAGACCTGGTTTCTCTCTACAAGACTCTGGCTGA
 GTCTATGGGAATTGAGGTCAAACCTACAATTTGTTGCCAGAGAAATCTTNGAAATTGA
 CCTGAAACAACTGGAATATCTAATTGATGAAAAGACAGCTTGCTCATTGTCAATAATCC
 ATCANACCCCTGTGGGTCAGTGTTGAGCAACGTCATCTTCAGAAGATCTGGCAGTGGCT
 GCACGGCAGTGTGCCCATCTTAGCTGATGAGATCTATGGAGACATGGTGTNTTCGAT
 TGCAAATATGACCAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_000353 unedited
 CCCCCAATTCGTGTGNACCGCGGCCCAATTCTAGACNCGGCTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTACAAAGTTGAGTAATACTTTATTTGAAAAATGAAAAGTGCACACACAC
 ACACACACTTACATAGGCACAGGATAATCTGGAAGTATGACCAGCAAATGATAACTGA
 TTCCCTCAGGGCAGAACAACCTGGTGGCTGACGGACCGGAATGAGAAAACAAGGACAGTT
 GCGTTTGTGTATCGTTTGAATTTGCCAGTGTATGTGTTCTTTTCAAATGTTTGAA
 GAACCATTGGCTCCCTTATCAAAATGTAACACCCAGGGAAAACAGGAATTCAGAAGGCC
 TACCAATTCTGTAATGCTGGGTACAATTTTCTGCACGTGTACAATAAAAAGGCCCTTTGT
 AAATCACTGAGCCTTCTGTTTATTTCTGGTTACGAGATCTTTGGGGGCTTGGATGGAGG
 AACAGGAAAAGAGGAGCCAGCCTTTTTTGGAAAATTGGCGCCAGCGGCGCATACGGCAA
 ACTGAAACCTTTATCAACCTCATCCTTTGTATATTGCGCTTGGATTTGCTGAAAAAAA
 TAAAAGGCAAACCTTGTGTGAGCTCACTGACCTCCCCTGAACGGGACACCTATGCTGT
 TTATTTTTGTGACAGGACATTAATGCCTGTGACTGCCACGGCTGCACACCTGAAACTCC
 CTCTTTTACATAAGGAAAATCCCTTGGTGCACATCTTCCCCTCGTTCTGAAAGAAT
 TCTTACCCTCCCCTCTGACAGGTACTCAAGGATCCCTTCTTAAGGGAAGGCTTTA
 CCAAAAAATTCAAACAGCCATTGTGCTCACGACGACTTGCCTCAACAAATAACTCCCC
 AACTCCTTTGCCCTTTTTCACTCCCTGTTCAAGCC

Restriction Sites:

NotI-NotI

ACCN:

NM_000353

Insert Size:

3860 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:	<u>NM_000353.1</u> , <u>NP_000344.1</u>
RefSeq Size:	2754 bp
RefSeq ORF:	1365 bp
Locus ID:	6898
UniProt ID:	<u>P17735</u>
Cytogenetics:	16q22.2
Domains:	aminotran_1_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]