

Product datasheet for **RG216782**

TAT (NM_000353) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: TAT (NM_000353) Human Tagged ORF Clone
 Tag: TurboGFP
 Symbol: TAT
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >RG216782 representing NM_000353
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACCCATACATGATTGAGTGCAGATGAGCAGCAAAGGCAACCTCTCCTCAATTCTGGACGTGCATGTCAACG
 TTGGTGGGAGAAGCTCTGTGCCGGGAAAAATGAAAGGCAGAAAGGCCAGGTGGTCTGTGAGGCCCTCAGA
 CATGGCCAAGAAAACCTTCAACCCCATCCGAGCCATTGTGGACAACATGAAGGTGAAACCAATCCAAAC
 AAAACCATGATTTCCCTGTCCATTGGGGACCCTACTGTGTTTGGAAACCTGCCTACAGACCCTGAAGTTA
 CCCAGGCAATGAAAGATGCCCTGGACTCGGGCAAATATAATGGCTATGCCCATCCATCGGCTTCCATC
 CAGTCGGGAGGAGATTGCTTCTTATTACCACTGTCTGAGGCACCCTAGAAGCTAAGGACGTCAATCTG
 ACAAGTGGCTGCAGCCAAGCTATTGACCTTTGTTAGCTGTGTTGGCCAACCCAGGGCAAAACATCCTGG
 TTCCAAGACCTGGTTTCTCTCTACAAGACTCTGGCTGAGTCTATGGGAATTGAGGTCAAACCTCTACAA
 TTTGTTGCCAGAGAAATCTTGGGAAATTGACCTGAAACAACCTGGAATATCTAATTGATGAAAAGACAGCT
 TGTCTCATTGTCAATAATCCATCAAACCCCTGTGGGTGAGTGTTCAGCAAACGTCATCTTCAGAAGATTC
 TGGCAGTGGCTGCACGGCAGTGTGCCCATCTTAGCTGATGAGATCTATGGAGACATGGTGTTCGGA
 TTGCAAAATGAACCACTGGCCACCCTCAGCACCGATGTCCCATCTGTCTGTGGAGGGCTGGCCAAG
 CGCTGGCTGGTTCCTGGCTGGAGTTGGGCTGGATCCTCATTGATGACCGAAGAGACATTTTGGCAATG
 AGATCCGAGATGGCTGGTGAAGCTGAGTCAGCGCATTGTTGGACCCCTGTACCATTGTCCAGGGAGCTCT
 GAAAAGCATCCTATGTCCGACCCCGGAGAGTTTTACCACAACACTCTGAGCTTCCCTCAAGTCCAATGCT
 GATCTCTGTTATGGGGCCTGGCTGCCATCCCTGGACTCCGGCCAGTCCGCCCTTCTGGGGCTATGTACC
 TCATGGTTGGAATTGAGATGGAACATTTCCAGAAATTTGAGAACGATGTGGAGTTCACGGAGCGGTTAGT
 TGCTGAGCAGTCTGTCCACTGCCTCCAGCAACGTGCTTTGAGTACCCGAATTTTCATCCGAGTGGTCATC
 ACAGTCCCCGAGGTGATGATGCTGGAGGCGTCAGCCGGATCCAGGAGTCTGTGAGCAGCACTACCATT
 GTGCTGAAGGCAGCCAGGAGGAGTGTGATAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216782 representing NM_000353
Red=Cloning site Green=Tags(s)

MDPYMIQMSSKGNLSSILDVHVNVGRRSSVPGMKMKGRKARWSVRPSDMAKKT FNP IRAIVDNMKVKPNPN
 KTMISLSIGDPTVFGNLPTDPEVTQAMKDALDSGKYNGYAPSIGFLSSREEIASYYHCPEAPLEAKDVIL
 TSGCSQAIDLCLAVLANPGQNILVPRPGFSLYKTLAESMGIEVKLYNLLPEKSWEIDLKQLEYLIDEKTA
 CLIVNPNPNPCGSYVFSKRHLQKILAVAARQCVPILADEIYGDVMVSDCKYEPLATLSTDVPILSCGGLAK
 RWLVPGWRLGWILIHDRRDI FGNEIRDGLVKLSQRILGPCTIVQGALKSILCRTPGEFYHNTLSFLKSNA
 DLCY GALAAIPGLRPVRPSGAMVLMVGIEMEHFPEFENDVEFTERLVAEQSVHCLPATCFEYPNFIRVVI
 TVPEVMMLEACSRIQEFCEQHYYCAEGSQEECDK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000353

ORF Size: 1362 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_000353.1](#), [NP_000344.1](#)

RefSeq Size: 2754 bp

RefSeq ORF: 1365 bp

Locus ID: 6898

UniProt ID: [P17735](#)

Cytogenetics: 16q22.2

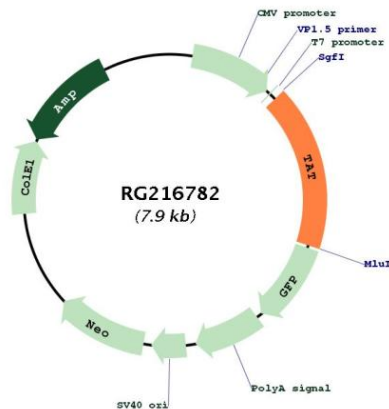
Domains: aminotran_1_2

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]

Product images:



Circular map for RG216782