

Product datasheet for **MG207246**

Tat (NM_146214) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tat (NM_146214) Mouse 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: >MG207246 representing NM_146214
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACTCCTACGTAATCCAGACGAATGTCAATGACAGCCTACCTTCAGTGCTGGATGTTTCGCGTCAATA
TTGGCGGGAGAAGCTCGGTGCAAGGGAGAGCGAAGGGCAGGAAGGCCAGGTGGAATGTGAGGCCCTCTGA
CATGTCCAATAAAACCTTCAATCCCATCCGAGCCATTGTGGACAACATGAAGGTGAAGCCGAATCCGAAC
AAAACCGTGATCTCTGTCAATTGGGGACCCTACTGTGTTTGGGAACCTGCCACAGACCCTGAAGTGA
CCCAAGCCATGAAGGATGCCCTGGACTCCGGGAAGTACAATGGCTATGCCCATCTATCGGCTACATATC
CAGTCGGGAGGAGGTCGCTTCTATTACCACTGTCTGAGGCTCCTCTGGAAGCTAAGGATGTCATTCTG
ACGAGTGGCTGCAGTCAGGCCATTGAGCTGTGTCTAGCCGTGTTGGCCAATCCTGGACAGAACATCCTCA
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TGTCTCGTGGTCAACAACCCGTCCAATCCCTGTGGCTCTGTGTTTCAGTAAGCGGCACCTTCAGAAGATT
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GAAGAGCATCCTTCAGCGCACCCCTCAGGAGTTCTACCAGGACACTTTAAGCTTCCTTAAGTCCAATGCG
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TTATGGTGGGAATTGAGATGGAGCACTCCAGAAATTTGAGAAATGACGTGGAATTCACAGAGCGGTTAAT
TGCGGAGCAGTCTGTCCACTGCCTCCAGCCAGTGTCTCGAGTACCAAATTTCTCCGGGTTGTCTATC
ACAGTCCCGAGGTGATGATGCTGGAGGCTTGTAGCCGGATCCAGGAGTCTGTGAACAGCACTACCACT
GTGCTGAAGGCAGCCAGGAGGAGTGTGACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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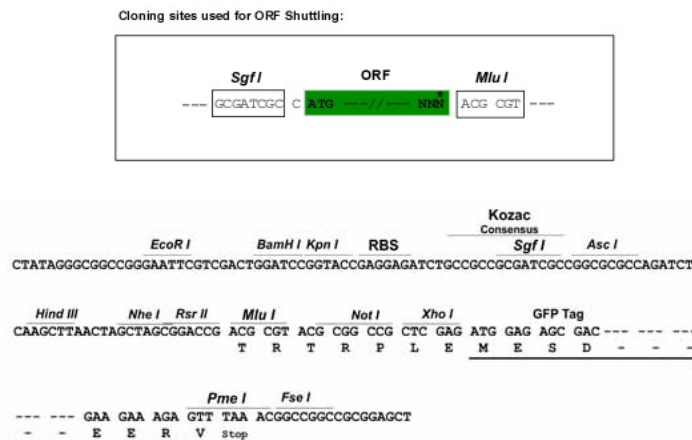
Protein Sequence: >MG207246 representing NM_146214
Red=Cloning site Green=Tags(s)

MDSYVIQTNVNDLSPLVDVRVNIIGRSSVQGRAKGRKARWNVRPDMSNKT FNP IRAIVDNMKVKPNPN
 KTVISLSIGDPTVFGNLPTDPEVTQAMKDALDSGKYNGYAPSIGYLS SREEVASYYHCPEAPLEAKDVIL
 TSGCSQAIELCLAVLANPGQNILIPRPGFSLYR TLAESMGIEVKLYNLLPEKSWEIDLKQLES IDEKTA
 CLVVNNPSNPCGSYF SKRHLQKILAVAERQCVPI LADEIYGD MVFSDCKYEPMATLSTNVPILSCGGLAK
 RWLVPGWRLGWILIHDRRDI FGNEIRDGLVKLSQRILGPCTIVQ GALKSILQRTPQEFYQDTLSFLKSNA
 DLCYGALSAIPGLQPV RPSGAMVLMVGIEMEHFPEFENDVEF TERLIAEQSVHCLPATCFEYPNFFRVVI
 TVPEVMMLEACSRIQEFCEQH YHCAEGSQEECDK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_146214

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_146214.3](#)

RefSeq Size: 2353 bp

RefSeq ORF: 1365 bp

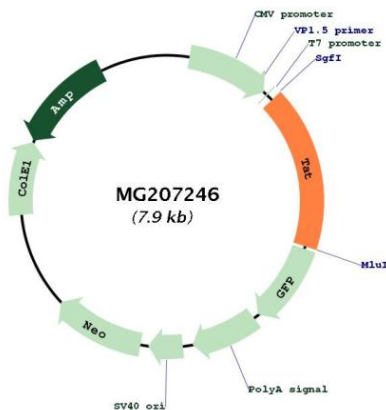
Locus ID: 234724

UniProt ID: [Q8QZR1](#)

Cytogenetics: 8 57.38 cM

Gene Summary: This gene encodes a liver-specific mitochondrial enzyme that catalyzes the conversion of L-tyrosine into p-hydroxyphenylpyruvate. Regulated by glucocorticoid and polypeptide hormones, this gene's expression is affected by deletion of a regulatory region near the albino locus on chromosome 7. Mutations in this gene cause tyrosinemia type II in humans. [provided by RefSeq, Mar 2010]

Product images:



Circular map for MG207246