

Product datasheet for **RR206539**

Tat (NM_012668) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tat (NM_012668) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tat
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR206539 representing NM_012668
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGACTCCTACGTGATTCAGACGGATGTCGACGACAGCTTGCTCCTCAGTTCTGGATGTGCATGTCAATA
 TTGGTGGGAGAACTCGGTACAAGGAAGAAAGAAAGGCAGGAAGGCCAGATGGGACGTGAGACCCTCTGA
 CATGTCCAATAAGACCTTCAATCCCATCCGAGCCATCGTGGACAACATGAAGGTGCAGCCCAATCCGAAC
 AAGACCGTGATTCTCTGTCAATTGGGGACCCTACTGTGTTTGGGAACCTGCCTACAGACCCTGAAGTTA
 CCCAAGCCATGAAAGATGCCCTGGACTCGGGGAAGTACAATGGCTATGCCCCGTCCATCGGCTACCTATC
 CAGTCGGGAGGAGGTGCTTCTTACTACCACTGTCATGAGGCTCCTCTGGAAGCTAAGGATGTCATTCTG
 ACAAGCGGCTGCAGTCAGGCCATTGAGCTATGTCTAGCTGTGTTGGCCAATCCTGGACAAAACATCTCA
 TTCCAAGCCCGGGTTTTCCCTCTATAGGACTTTGGCTGAGTCTATGGGAATTGAGGTCAAGCTCTACAA
 TCTCCTGCCGAGAAGTCTTGGGAAATTGACCTAAAACAAGTGAATCTCTGATCGATGAAAAACAGCG
 TGTCTTGTGTCAACAACCCATCCAATCCCTGTGGCTCCGTGTTAGTAAGCGGCACCTTCAGAAGATTT
 TGGCAGTGGCTGAAAGGCAGTGTGTCCCATCTTAGCTGACGAGATCTATGGTGACATGGTGTTCAGAT
 TTGCAATACGAACCACTGGCCAACTCAGCACCAATGTTCCCATCCTGTCTGTGGTGGGCTGGCCAAG
 CGCTGGCTGGTTCCTGGCTGGAGGTTGGGCTGGATCCTCATTGATGATCGAAGAGACATTTTGGCAATG
 AGATTCGAGACGGGCTGGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
 GAAGAGCATCCTTCAGCGAACCCCTCAGGAGTTCTATCACGACACGTTAAGCTTCCTCAAGTCCAATGCG
 GACCTCTGCTATGGGGCACTGGCTGCCATCCCTGGACTCCAGCCGGTCCGCCCTTCTGGAGCCATGTACC
 TTATGGTGGGAATTGAGATGGAGCATTCCCGGAATTCGAGAACGACGTGGAGTTCACAGAGCGGTTGAT
 TCGCGGAGCAGGCTGTCCACTGTCTCCAGCAACGTGCTTCGAGTACCCAAATTTCTCCGAGTGGTCATC
 ACAGTCCCGAGGTGATGATGCTGGAGGCTGTAGCCGGATCCAGGAGTTCTGTGAACAGCACTACCACT
 GTGCTGAAGGCAGCCAGGAGGTGTGACAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206539 representing NM_012668
 Red=Cloning site Green=Tags(s)

MDSYVIQTDVDDSLSSVLDVHVNIIGGRNSVQGRKKGRKARWDVRPSDMSNKTFNPIRAIVDNMKVQPNPN
 KTVISLSIGDPTVFGNLPTDPEVTQAMKDALDSGKYNGYAPSIGYLSREEVASYYHCHEAPLEAKDVIL
 TSGCSQAIELCLAVLANPGQNILIPRPGFSLYRTLAESMGIEVKLYNLLPEKSWEIDLKQLESLEIDEKTA
 CLVVNNPSNPGSVFSKRHLQKILAVAERQCVPILADEIYGDMVFSCKYEPLANLSTNVPILSCGGLAK
 RWLVPGWRLGWILIHRRDIFGNEIRDGLVKLSQRILGPCTIVQGALKSILQRTPEFYHDTLSFLKSNA
 DLCYALAAIPGLQPVPSGAMVLMVGIEMEHFPEFENDVEFTERLIAEQAVHCLPATCFEYPNFFRVVI
 TVPEVMMLEACSRIQEFCEQHYHCAEGSQEECDK

TRTRPLE**QKLISEEDLAANDILDYKDDDDK**V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_012668

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_012668.2](#), [NP_036800.1](#)

RefSeq Size: 2037 bp

RefSeq ORF: 1365 bp

Locus ID: 24813

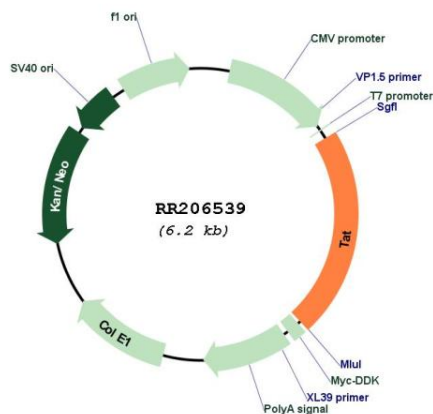
UniProt ID: [P04694](#)

Cytogenetics: 19q12

MW: 50.6 kDa

Gene Summary: catalyzes the conversion of L-tyrosine and 2-oxoglutarate to 4-hydroxyphenylpyruvate and L-glutamate; involved in gluconeogenesis [RGD, Feb 2006]

Product images:



Circular map for RR206539