



NIH AIDS Research & Reference Reagent Program
20301 Century Boulevard
Bldg. 6, Suite 200
Germantown, MD 20874
USA

Phone: 240 686-4740
Fax: 301-515-4015
www.aidsreagent.org

pCEP4SIVTat prokaryotic/eukaryotic vector description

SIVmne mRNA coding for Tat was amplified from *M. fascicularis* PBMC using RT-PCR with specific primers beginning at the AUG initiation codon and ending at the UAG stop codon. The SIV *tat* gene is 396 bases in length, comprised of exon 1 (1-296) and exon 2 (297-396). The complete spliced Tat nucleotide DNA sequence is given below:

```
>SIVtat from SIVmne R. Grant UWNPRC Seattle WA
ATGGAGACACCCTTGAGGGAGCAGGAGAACTCATTAAAATCCTCCAACGGGGCGCTCTTCATGC
ACTTCAGAGGGCGGCTGCAACCACTCTAGAATCGGCCAATCTGGAGGAGGAAATCCTCTCTCAA
CTATACCGACCTCTAGAAGCATGCTATAACACGTGCTATTGCAAAAAGTGTGCTACCATTGCCAGT
TTGTTTTCTAAAAAGGGCTTGGGGATATGTTATGAGCAGTCACGCAGAAAAAGAAGAACTCCGA
AGAAGGCTAAGGTTAATACATCTTCTGCATCAAACAACAGACCCATATCTGACAGGACCAGGCA
CTGCCAACCAAAGAAGGAACAGAAGGAGACGGTGGAGGCAGCGGTGGCAACAGCTCCTGG
CCTTGGCAGATAG
```

The complete SIV Tat gene PCR product was cloned into pCRII (Invitrogen) and then subcloned into pCEP4 (Invitrogen) between the XhoI and BamHI sites as illustrated.

-----pCEP4 CMV IE promoter —XhoI – ATG Tat-----Tat TAG – BamHI –pCEP4-----

The pCEP4-SIVTat plasmid was used to transform *E. coli* JM109 and positive clones were selected by growth on ampicillin and were confirmed by DNA sequencing.

pCEP4SIVTat eukaryotic expression vector propagation

- 1) Remove some of the frozen stock culture using a sterile loop and place in desired volume of LB media containing 100 µg/ml ampicillin. (Note: If stock culture is kept frozen it may be used many times)
- 2) Incubate liquid culture at 37°C overnight with vigorous shaking.
- 3) Proceed with plasmid purification or subculture for future use.

ALL RECIPIENTS OF THIS MATERIAL MUST COMPLY WITH ALL APPLICABLE BIOLOGICAL, CHEMICAL, AND/OR RADIOCHEMICAL SAFETY STANDARDS INCLUDING SPECIAL PRACTICES, EQUIPMENT, FACILITIES, AND REGULATIONS. NOT FOR USE IN HUMANS.