

Centre for AIDS Reagents.

Data Sheet.

NAME : pT4B

REPOSITORY REFERENCE : ARP2005

CLONING VECTOR : pSP65 Promega vector – 3005bp

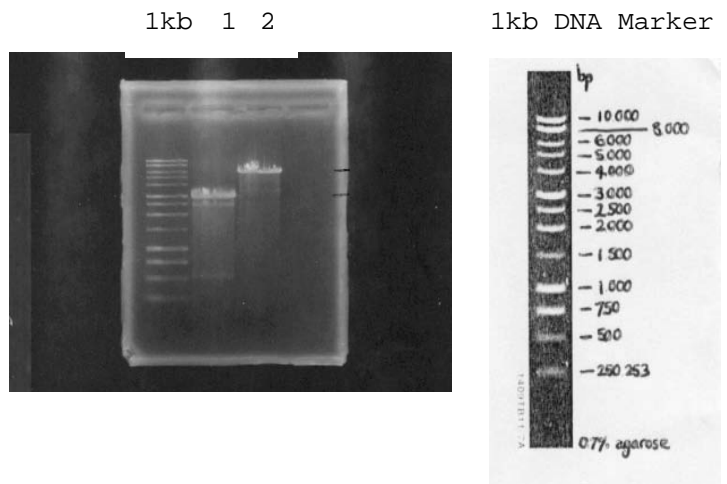
CLONING SITE : EcoR1

DESCRIPTION OF CLONE : cDNA insert is 3.0kb, encoding the CD4 receptor of human T lymphocytes of which 1.5kb is the coding sequence. Contains a 5' EcoR1 restriction site and a 3' BamH1 site.

CHARACTERISTICS : The cDNA insert has been cloned in eukaryotic expression systems to convert CD4- fibroblasts to the CD4+ phenotype.

RESTRICTION DIGEST :

- 1) EcoRI Digest – Cuts out insert 3kb, Vector also 3kb, so two bands seen at 3kb.
- 2) HindIII – Linearises plasmid, one band at 6kb.



PRESENTATION :

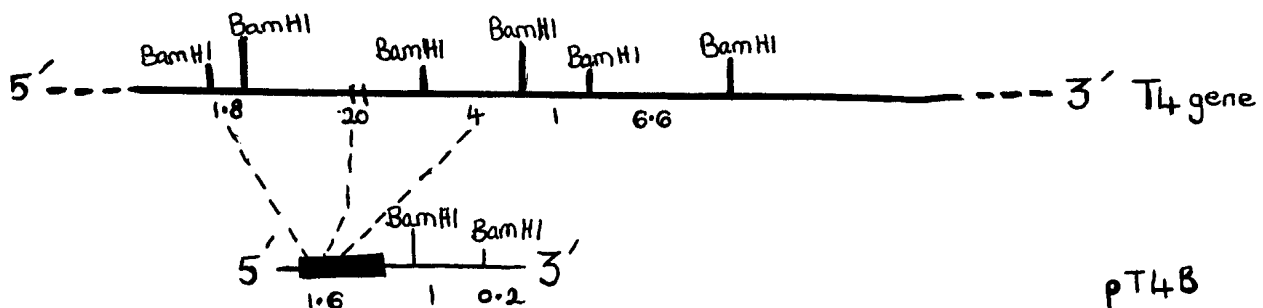
Supplied as DNA in TE buffer (1035µg/ml).
50µl aliquots = 51.5µg.

SOURCE :

Dr R Axel

ALIGNMENT OF RESTRICTION FRAGMENTS :

Alignment of the BamHI restriction fragments of pT4B cDNA and the T4 gene. The order of BamHI fragments in the T4 gene was determined by Southern blot analysis and genomic clone mapping. The alignment of the 5' end of the pT4B and the T4 gene is shown by dotted lines, and the shaded region in pT4B corresponds to the coding sequence. The indicated sizes are in kilobases.



REFERENCES :

Maddon PJ, Littman DR, Godfrey M, Maddon DE, Chess L, Axel R. "The isolation and nucleotide sequence of a cDNA encoding the T cell surface protein T4: A new member of the immunoglobulin gene family." Cell 42: 93-104, 1985.

ACKNOWLEDGEMENTS :

Publications should acknowledge the donor of the reagent and the Programme EVA Centre for AIDS Reagents. Suggested wording can be found on our website at <http://www.nibsc.ac.uk/spotlight/aidsreagent/index.html> in the "Acknowledgements" section. Please also ensure that you send us a copy of any papers resulting from work using reagents acquired through CFAR (this can be electronically or as a paper copy)