

- [HOME](#)
- [ABOUT US](#)
- [TECHNOLOGY](#)
- [PRODUCTS](#)
- [LICENSING](#)
- [LINKS](#)
- [CONTACT US](#)

[Vectors](#)

[In vivo Biotinylation-Strains](#)

[In vitro Biotinylation-Enzyme](#)

[Purification & Detection](#)

[Biotinylated recombinant proteins](#)



[Mammalian Cell Free Protein Expression](#)

[Protocols](#)

[Literature](#)

[FAQs](#)

C-terminus AviTag vectors

pAC Series (C terminus vectors)

The pAC series of vectors are used to express C-terminal AviTag-protein fusions. The AviTag peptide sequence used is the #85 sequence described in [Schatz \(1993\)](#). In April of 1999, Avidity improved the C-terminal AviTag vectors to include a glutamic acid residue that has been shown to greatly enhance biotinylation rates of the AviTag. ([Beckett et al., 1999](#))

Three versions of the pAC series vector exist: pAC-4 pAC-5 pAC-6 allowing any gene to be placed in frame with the AviTag. Expression of the AviTagged gene is under the control of the tightly repressed Trc promoter and is IPTG-inducible ([induction protocol](#)). The vectors confer ampicillin resistance.

Note: All genes inserted into the multiple cloning site **MUST** contain both the natural ATG start codon to allow for desired protein folding and the stop codon must be removed to allow read-through into the AviTag coding region.

Below are the vector maps and sequences of each of the three pAC vectors in either Vector NTI format or text. Please use diagrams in planning your cloning strategies.

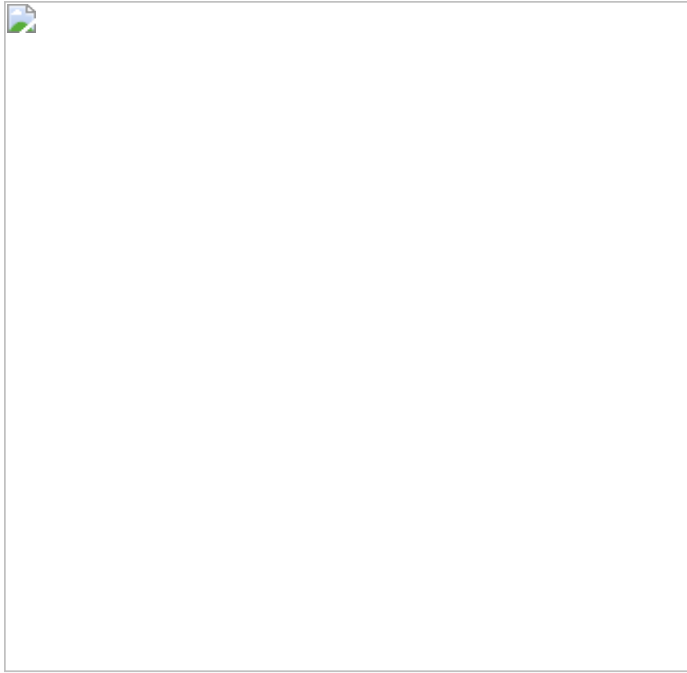
pAC 4 
[pac4.txt](#)

pAC 5 
[pac5.txt](#)

pAC 6 
[pac6.txt](#)

RE Cut Sites
[RE pac.pdf](#)





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