



**Comments for pThioHis A:  
4365 nucleotides**

Ampicillin resistance ORF: bases 201-1061  
 pUC origin: bases 1206-1879  
 Lac Repressor (*lacI<sup>q</sup>*) ORF: bases 1967-3049  
 Trc Promotor Region: bases 3261-3470  
   -35 region: bases 3281-3292  
   -10 region: bases 3304-3309  
 lac operator (*lacO*): bases 3316-3336  
 rrnB antitermination: bases 3352-3421  
 gene 10 region: bases 3434-3442  
 Ribosome binding site: bases 3457-3461  
 Thioredoxin ATG: bases 3471-3473  
 Trx forward priming site: bases 3777-3794  
 Enterokinase site: bases 3813-3827  
 Multiple cloning site: bases 3827-3892  
 aspA Termination: bases 3893-3959  
 Trx reverse priming site: bases 3967-3986

\* *Nsi* I is unique at this location in pThioHis A only.

*Nco* I is unique at this location in pThioHis B only.

*Sph* I is unique at this location in pThioHis C only.

† There is a stop codon following the *Xba* I site in pThioHis C