pET-29a-c(+) Vectors

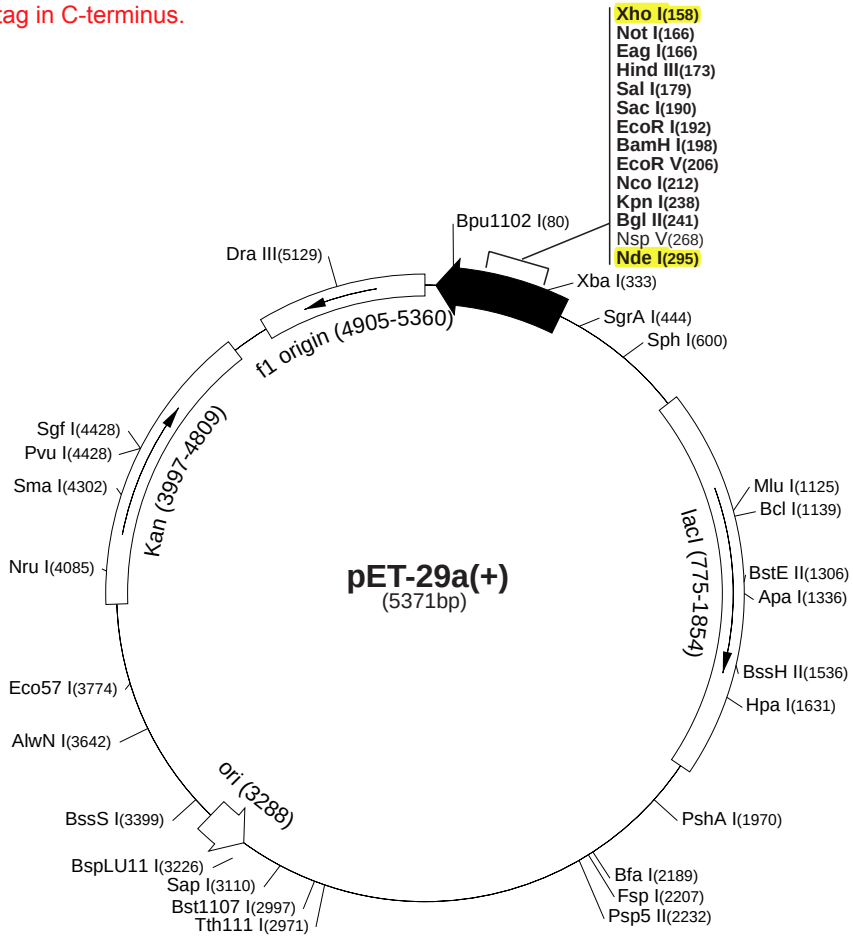
	Cat. No.
pET-29a DNA	69871-3
pET-29b DNA	69872-3
pET-29c DNA	69873-3

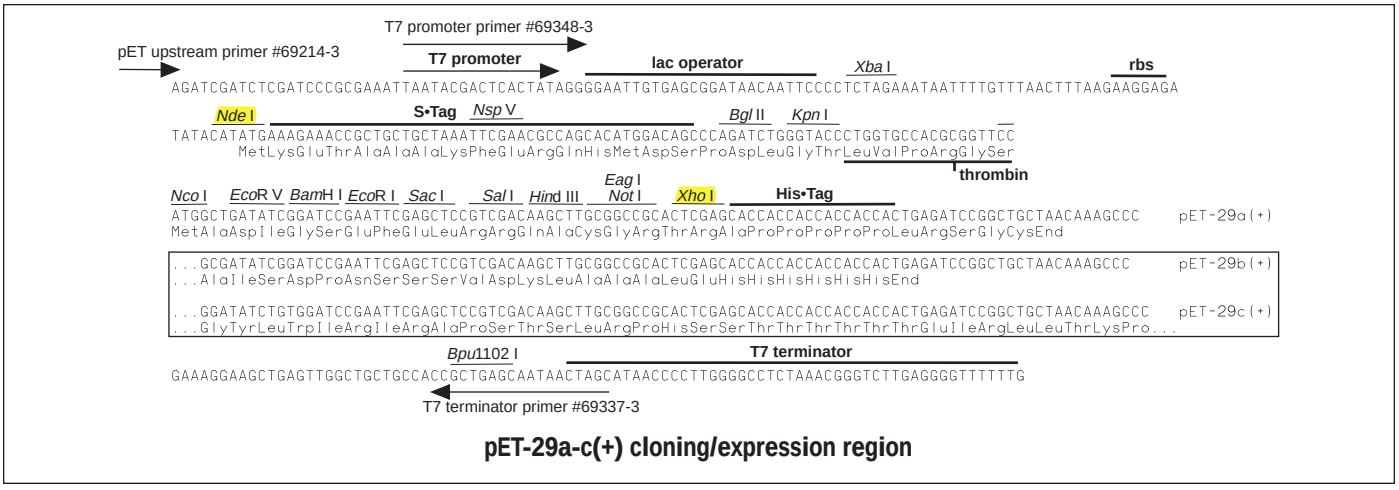
The pET-29a-c(+) vectors carry an N-terminal S•Tag™/thrombin configuration plus an optional C-terminal His•Tag® sequence. Unique sites are shown on the circle map. Note that the sequence is numbered by the pBR322 convention, so the T7 expression region is reversed on the circular map. The cloning/expression region of the coding strand transcribed by T7 RNA polymerase is shown below. The f1 origin is oriented so that infection with helper phage will produce virions containing single-stranded DNA that corresponds to the coding strand. Therefore, single-stranded sequencing should be performed using the T7 terminator primer (Cat. No. 69337-3).

insert hNABP1 N-terminus +hNABP2 C-terminus: Nde I/Xho I
S tag was removed, GOI was fused with His tag in C-terminus.

pET-29a(+) sequence landmarks	
T7 promoter	368-384
T7 transcription start	367
S•Tag coding sequence	249-293
Multiple cloning sites	
(*Nco* I - *Xho* I)	158-217
His•Tag coding sequence	140-157
T7 terminator	26-72
lacI coding sequence	775-1854
pBR322 origin	3288
Kan coding sequence	3997-4809
f1 origin	4905-5360

The maps for pET-29b(+) and pET-29c(+) are the same as pET-29a(+) (shown) with the following exceptions: pET-29b(+) is a 5370bp plasmid; subtract 1bp from each site beyond *Bam*H I at 198. pET-29c(+) is a 5372bp plasmid; add 1bp to each site beyond *Bam*H I at 198.





pET-29a-c(+) cloning/expression region