

pMiniT 2.0

Sequence available at www.neb.com
See page 97 for more information.

Feature	Coordinates	Source
Constitutive promoter	1-214	pNK2138
SP6 promoter	479-496	SP6
Toxic minigene	541-549	-
Synthetic T7 promoter	619-602	T7
<i>bla</i> (Ap ^R)	733-1593	<i>Tn3</i>
origin	1764-2352	pUC19

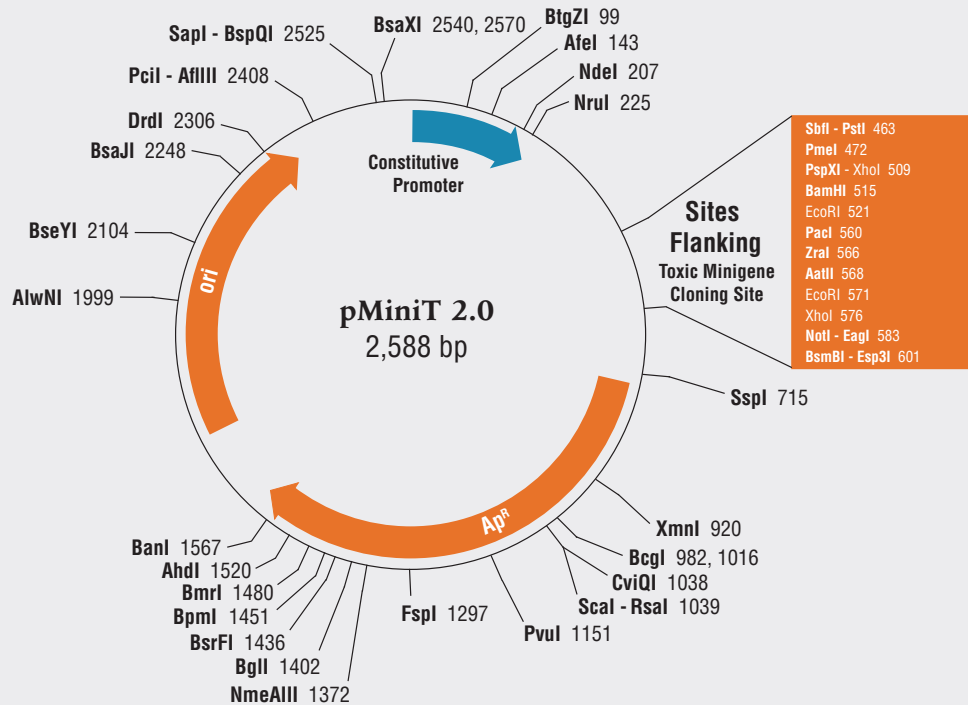
There are no restriction sites for the following enzymes: AbsI(x), Acc65I, AccI, AflII, AgeI, AjuI(x), AleI, AloI(x), ApaI, Arsl(x), AscI, AsiSI, AvrII, BaeI, BanII, Bari(x), BbsI, BbvCI, BclI, BglII, BlpI(x), BmgBI, BmtI, BpII(x), Bpu10I, BsaI, BsaAI, BsaBI, BseRI, BsgI, BsiWI, BsmFI, BsmI, BspDI, BspEI, BsrGI, BssHII, BstAPI, BstBI, BstEII, BstXI, BstZ17I, Bsu36I, BtgI, ClaI, CspCI, DraIII, Eco53kI, EcoNI, EcoO109I, EcoRV, Fall(x), FseI, FspAI(x), HincII, HindIII, HpaI, KasI, KfiI(x), KpnI, MauBI(x), MfeI, MluI, MreI(x), MscI, MteI(x), NaeI, NarI, NcoI, NgoMIV, NheI, NsiI, PaeI(x), PfiFI, PflMI, PfoI(x), PfuTI, PmlI, PpuMI, PshAI, PstI, PspOMI, PstI(x), PvuII, RsrII, SacI, SacII, Sall, SexAI, SfiI, SfoI, SgrAI, SgrDI(x), SmaI, SnaBI, SpeI, SphI, SrfI, StuI, StyI, SwaI, TspMI, Tth11I, XbaI, XcmI, XmaI

(x) = enzyme not available from NEB

pMiniT 2.0 is an *E. coli* plasmid cloning vector designed for cloning blunt-ended or single-base overhang PCR products, or amplicons, using the NEB PCR Cloning Kit (NEB #E1202, #E1203). The pMiniT2.0 also enables *in vitro* transcription using SP6 and T7 promoters. It is compatible with Golden Gate Assembly as the BsaI site has been removed from the Ampicillin resistance gene.

In *E. coli*, it replicates using the pMB1 origin of replication from pUC19 and carries the *bla* (Ap^R) marker for selection with ampicillin. pMiniT2.0 contains a toxic minigene that is under the control of a constitutive promoter. If the pMiniT 2.0 vector recircularizes without an insert, the toxic minigene it will cause lethal inhibition of protein synthesis and no colony will result. If the pMiniT 2.0 Vector carries an insert, a colony will grow.

The map shown below displays the construct formed if no insert is present. Unique restriction sites are shown in **bold**. Additional restriction sites that can be used for subcloning are also shown. Expanded box below shows location of sequencing primers, restriction sites for subcloning or linearization for *in vitro* transcription, RNA Polymerase promoter sequences and placement of insertion site within the toxic minigene. **Coordinates indicate position of cutsite on the top strand. In previous catalogs, coordinates referred to the position of the 5' most base on the top strand, please make note of new numbering system.**



 We recommend NEBcutter at NEBcutter.com to identify the restriction sites within your DNA sequence. NEBcutter indicates cut frequency and methylation-state sensitivity.

Features within Sequence Flanking the Toxic Minigene/Cloning Site:

