pBluescript® SK (+/-) phagemid

The pBluescript SK (+/-) phagemid is a 2958-bp phagemid derived from pUC19. The SK designation indicates the polyliner is oriented such that lac Z transcription proceeds from Sac I to Kpn I.

f1 (+) origin: (6-462) f1 filamentous phage origin of replication allowing recovery of the sense strand of the *lac Z* gene when a host strain containing the pBluescript phagemid is co-infected with helper phage.

f1 (-) origin: (6-462) f1 filamentous phage origin of replication allowing recovery of the antisense strand of the*lac Z* gene when a host strain containing the pBluescript phagemid is co-infected with helper phage.

ColE1 origin: (1032-1912 bp) Plasmid origin of replication used in the absence of helper phage.

lac Z gene: (lac promoter: 816-938 bp) This portion of the *lac Z* gene provides α-complementation for blue/white color selection of recombinant phagemids. An inducible lac promoter upstream from the *lac Z* gene permidts fusion protein expression with β-galactosidase gene product.

MCS: (657-759 bp) Multiple cloning site flanked by T3 and T7 RNA promoters (polylinker sequence is shown below).

Ampicillin: (1975-2832 bp) Ampicillin-resistance gene (Amp^r) for antibiotic selection of the phagemid vector.

Note: The upper strand is designated the (+) strand and the lower stand the is designated the (-) strand.

GenBank #52325 [SK (+)] & #52324 [SK(-)]