

Background/Technical Information

Location of Features:

P_{CMV IE}: 1-589

Enhancer region: 59-465

TATA box: 554-560

Transcription start point: 583

MCS: 591-671

VisionGFP

Kozak consensus translation initiation site: 672-682

Start codon (ATG): 679-681;

Stop codon: 1375-1377

SV40 early mRNA polyadenylation signal

Polyadenylation signals: 1531-1536 & 1560-1565

mRNA 3' ends: 1569 & 1581

f1 single-strand DNA origin: 1628-2083

(packages the noncoding strand of VisionGFP)

Bacterial promoter expression of Kan^r gene:

-35 region: 2145-2150; -10 region: 2168-2173

Transcription start point: 2180

SV40 origin of replication: 2424-2559

SV40 early promoter

Enhancer (72-bp tandem repeats): 2257-2328 & 2329-2400

21-bp repeats: 2404-2424, 2425-2445, & 2447-2467

Early promoter element: 2480-2486

Major transcription start points: 2476, 2514, 2520 & 2525

Kanamycin/neomycin resistance gene

Neomycin phosphotransferase coding sequences:

Start codon (ATG): 2608-2610; stop codon: 3400-3402

G->A mutation to remove *Pst* I site: 2790

C->A (Arg to Ser) mutation to remove *Bss*H II site: 3136

Herpes simplex virus (HSV) thymidine kinase (TK) polyadenylation signal

Polyadenylation signals: 3638-3643 & 3651-3656

pUC plasmid replication origin: 3987-4630

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