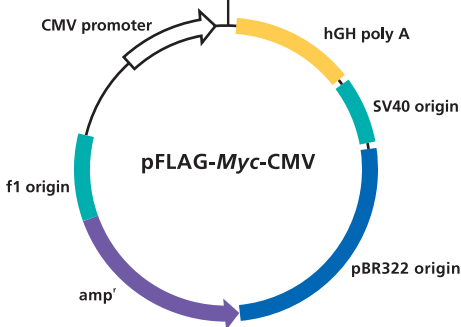
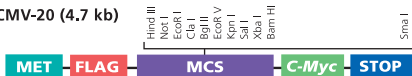


## pFLAG-Myc-CMV-19 (4.8 kb)



## pFLAG-Myc-CMV-20 (4.7 kb)



## Multiple Cloning Site

(pFLAG-Myc-CMV-19\* and pFLAG-Myc-CMV-20\*\*)

| FLAG Peptide Sequence |     |     |        |     |     |       |     |       |       |          |     |        |     |     |       |  |  |  |  |
|-----------------------|-----|-----|--------|-----|-----|-------|-----|-------|-------|----------|-----|--------|-----|-----|-------|--|--|--|--|
| Met*                  | Asp | Tyr | Lys    | Asp | Asp | Asp   | Asp | Lys   | Not I |          |     | EcoR I |     |     | Cla I |  |  |  |  |
| ATG                   | GAC | TAC | AAA    | GAT | GAC | GAT   | GAC | AAG   | CTT   | GCG      | GCC | GCG    | AAT | TCA | TCC   |  |  |  |  |
| TAC                   | CTG | ATC | TTT    | CTA | CTG | CAA   | CTG | TTC   | GAA   | CGC      | CGG | CGC    | TTA | AGT | AGC   |  |  |  |  |
|                       |     |     |        |     |     |       |     |       |       | Hind III |     |        |     |     |       |  |  |  |  |
| Bgl III               |     |     | EcoR V |     |     | Kpn I |     | Sal I |       | Xba I    |     | Bam HI |     |     |       |  |  |  |  |
| ATA                   | GAT | CTG | ATA    | TCG | GTA | CCA   | GTC | GAC   | TCT   | AGA      | GGA | TCC    |     |     |       |  |  |  |  |
| TAT                   | CTA | GAC | TAT    | AGC | CAT | GGT   | CAG | CTG   | AGA   | TCT      | CCT | AGG    |     |     |       |  |  |  |  |

| C-Myc Sequence |     |     |     |     |     |     |     |     |     |      |     |    |     |    |  |  |  |  |  |
|----------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|----|-----|----|--|--|--|--|--|
| Glu            | Gln | Lys | Leu | Ile | Ser | Glu | Glu | Asp | Leu | STOP |     |    |     |    |  |  |  |  |  |
| GAA            | CAA | AAA | CTC | ATC | TCA | GAA | GAG | GAT | CTG | TGA  | CCC | CC | GGG | TG |  |  |  |  |  |
| CTT            | GTT | TTT | GAG | TAG | AGT | CTT | CTC | CTA | GAC | ACT  | GGG | GG | CCC | AG |  |  |  |  |  |

\*For pFLAG-Myc-CMV-19, the Met-preprotrypsin leader sequence (PPT LS) precedes the FLAG coding sequence.

\*\*pFLAG-Myc-CMV-20 has two less C-G base pairs just 5' of the Sma I site.

\*\*\*Using the Sma I site with another restriction site in the MCS for directional cloning will result in loss of the *c-myc* tag.

Since the Sma I site is preceded by a stop codon it cannot be used alone for expression.