**1321alpha-flag-dorsal (pB1H1) (4485 bp)**

581-1493: p15A origin

1765-1966: lppC/lacUV5 promotor

1967-2709: alpha subunit

2710-3672: MCS (dorsal)

3900-4485: chloramphenicol resistance

**1352alpha-flag-dorsal (pB1H2) (4980 bp)**

1-199: lppC/lucUV5 promotor

200-956: alpha subunit

957-1929: MCS (dorsal)

2039-2449: f1 origin

2500-3487: ampicillin resistance

3500-4930: ColE1 origin

**pH3U3**

201-2199: pSC101 origin with terminators at each end **(5835 bp)**

3300-2445: *KAN* resistance

3299-3700: transcription terminator

3735-3784: MCS

3810-4543: *HIS3*

4544-5369: *URA3*

5371-5834: f1 origin