

**STRAIN: EM10645**

**PRIMER For** 5' AATGCTTCTGTCCGTTTGCCGG 3'

**PRIMER Rev** 5' CCAGGCTAAGTGCCTTCTCTAC 3'

**PRIMER For** 15pm / total volume 30ul Tm: 68°C

**PRIMER Rev** 15pm / total volume 30ul Tm: 68°C

**PCR MIX**

DNTPS (2mM) 3ul

PCR BUFFER 10x 3ul

**PRIMER For** (0.5pm/ul)

**PRIMER Rev** (0.5pm/ul)

H2O

TAQ POLYMERASE (5U/ul) 0.3ul

DNA 2ul

**TOTAL** 30ul

**PCR PROGRAM:**

- 1) 95°C x 2'00''
- 2) 95°C x 0'30''
- 3) 56°C x 0'30''
- 4) 72°C x 1'00''
- 5) step 2 to step 5 x 50 repeats
- 6) 72°C x 10'00''
- 7) 4°C forever
- 8) End

**MUTATION:** 550 bp