Primer Design for Measuring PCN with Real Time PCR

chromosome

5'-GCGAGCGATCCAGAAGATCT-3'

4044875 – 4044894 *E. coli* K12, Accession number U00096 20 bp 75°C

5'-GGGTAAAGGATGCCACAGACA-3' 4044941–4044961 *E. coli* K12, Accession number U00096 21 bp

DNAPIfor; GCGAGCGATCCAGAAGATCT

DNAPIrev; GGGTAAAGGATGCCACAGACA

IDT Tm values both 57 C

87 bp product

Promoter region for AmpR gene from pSB1A2

actcttcctttttcaatattattgaagcatttatcagggttattgtctcatgagcggatacatatttgaatgtatttagaaaa

ataaacaaataggggttccgcgcacatttc

cccgaaaagtgccacctgacgtctaagaaaccattattatcatgacattaacctataaaaataggcgtatcacgaggcagaatt

tcagataaaaaaaa

Product = 84 bp

pAMPfor; cccgaaaagtgccacctga Tm = 58 C

pAmprev; AATTCTGCCTCGTGATACGCCTAT Tm = 58 C

Primers to be ordered

DNAPIfor; GCGAGCGATCCAGAAGATCT

DNAPIrev; GGGTAAAGGATGCCACAGACA

pAMPfor; cccgaaaagtgccacctga

pAmprev; AATTCTGCCTCGTGATACGCCTAT