**Polymerase Chain Reaction**

Polymerase Chain Reaction (PCR) was used to generate the biological constructs for this work. Unless stated otherwise, all reactions were carried out in 50 μL with the following reaction components: 1X Q5 reaction buffer, 0.5 μM of each primer, 200 μM dNTPs, 0.2 ng/μL of template, 0.02 U/μl Q5 enzyme, and deionized sterile water to complete the reaction volume. The reaction conditions typically consisted on an initial denaturation at 95°C for 30 seconds; 30 – 32 cycles of 95°C for 20 seconds, 50 - 72°C for 30 seconds, 72°C for 30 seconds/kb of the target DNA product; and a final 72°C extension for 5 minutes.