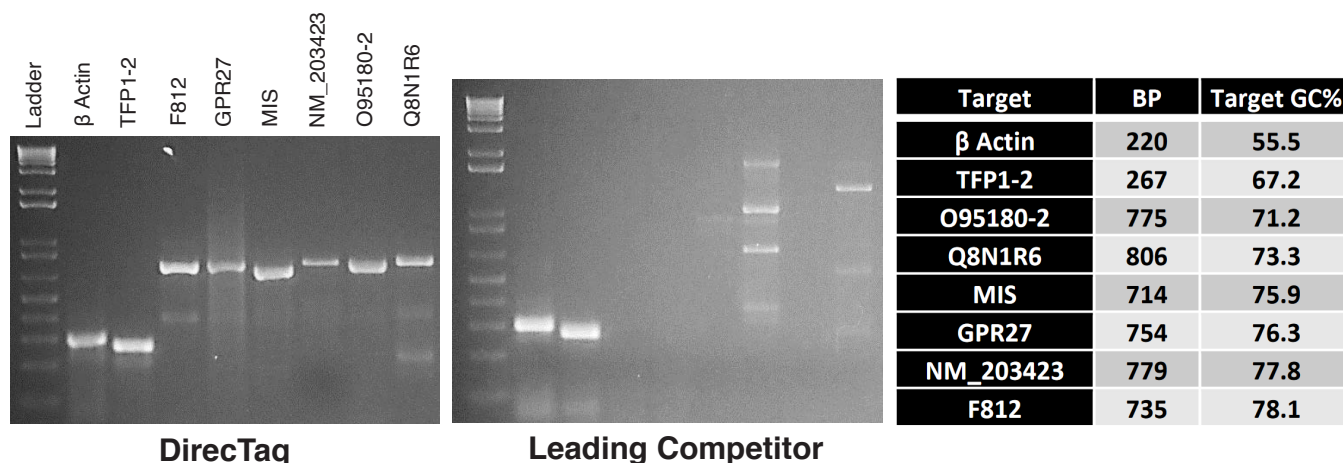
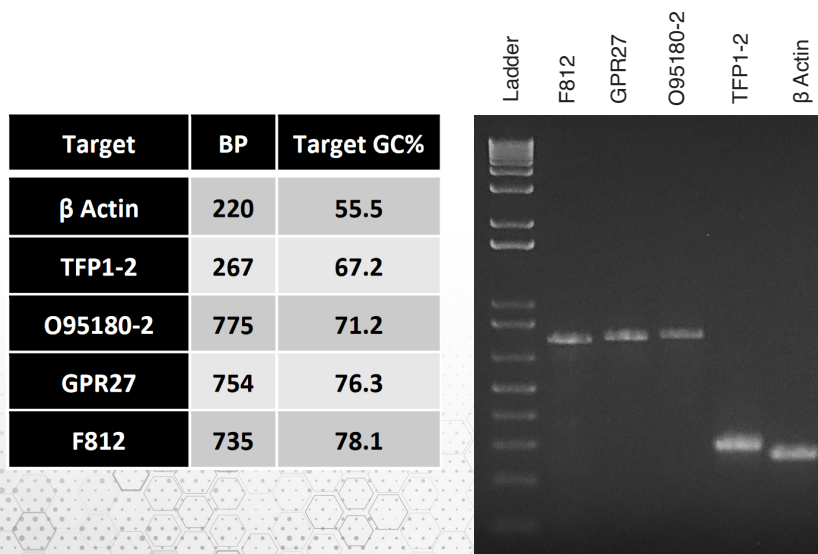


Users can reduce time and cost by using DirecTaq DNA polymerase without DNA template purification. DirecTaq is a recombinant, truncated (lacks 5' to 3' exonuclease activity), thermostable DNA polymerase from the thermophilic bacterium *Thermus aquaticus*.

**DirecTaq DNA polymerase** is thermostable at 98 °C enabling denaturation of high-GC content targets. DirecTaq is less sensitive to common inhibitors and can be used for DNA amplification from crude clinical samples such as 10% whole blood and bacterial colonies. With DirecTaq polymerase you choose an additive specific to your PCR needs (betaine for GC-rich amplifications, or sucrose for crude PCR amplification), and DirecTaq DNA polymerase.



**Figure 1:** Amplification of GC-rich DNA targets from human gDNA. DNA agarose gel analyses of PCR results from either DirecTaq plus 2 M betaine or a leading competitor Taq kit. DirecTaq capably amplifies DNA targets of up to 78% GC content



**Figure 2:** Amplification of various DNA targets from whole human blood stored with Li-Heparin using DirecTaq DNA polymerase with the addition of 15% sucrose. Each PCR was able to amplify high-GC content targets from 10% blood.