Available @ DNA.UTAH.EDU
Enter the rs# of interest
Adjust parameters if necessary on the corresponding tabs such as lab conditions.

Display parameters control the melting curve graph density and temperature range. Users can also output nearest neighbor Tm values rather than recursive Tms.

Primer constraints may be placed on the design algorithm such as desired Tm and length of primers.
Analyze

Push ‘Run’ button
Design

Primers and full amplicon design is displayed on run complete.

Information queried and calculated:
- **Amplicon**: Length, GC%, Gene, SNV Alleles, and Minor Allele Frequency and Count (MAF / MAC)
- **Primer**: Length, GC%, Tm
Melt Curves

Melting curves with Tms are displayed as genotypes and duplexes below the design.
Designed primers can be adjusted for Tm or to improve melting curve shape in real time with the primer controls.
A protocol designed by the Wittwer Lab was used and the suggested PCR conditions are available within the application.
Future Development

uDesign is currently in beta: meaning it works well and has most (75%) of the features we’d like to provide users. However, we are always open to feedback, improvements and features that have value to our users. Our software group can be contacted through: zach.dwight@path.utah.edu.
Disclaimer

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