

DNA Preparation Requirements for TaqMan SNP Genotyping:

- Dilute purified genomic DNA sample into DNase-free water.
- **Concentration: 2.5 ~ 5.0 ng/ μ L or 50 ~ 100 ng/ μ L**, depends on the number of SNP markers. Use the calculator DNA#4TQM to check the minimum required concentration.
- **Volume:** depends on the number of SNP markers. Use the calculator DNA#4TQM to check the minimum required volume.
- **Placement: 96-well-plate** or individual tubes/vials (0.5 - 1.5 ml) in **96-well-tray** (8 by 12).
- Maximum number of project samples in a single 96-well-plate or 96-well-tray: **92**; Two Positive internal quality control DNA samples and two Blank controls will be used for each 96-well-plate or 96-well-tray samples. Positive quality control DNA will be placed by MGC; Blank controls can be the buffer used to dilute DNA.
- The well positions of the quality control samples should be unique in each 96-well-plate. You may assign positions to quality control samples randomly.
- Avoid placing the same group of project samples (like cases) together: for example, do not place the same group of samples only on certain area of a plate, or have one plate only contain the same group of project samples.
- Please place DNA samples into plate(s) only after MGC reviews sample sheet.
- One sample sheet per plate or one sample sheet for all the plates. Both Excel and tab delimited txt format are acceptable.
- Sample sheet columns: all fields required. TQM_SampleSheet_Example.xls is available for download on the MGC OAD (Open Access Document) webpage.
 1. **Well:** plate well serial number from 1 to 96, the well order is from Left to Right (Column 1 to 12), then from Top to Bottom (Row A to H).
 2. **Position:** Well position of a sample (e.g., A01).
 3. **Sample Name:** must be unique and contains no space.
 4. **Plate ID:** must be unique and less than six characters.
 5. **Concentration (ng/ μ L)**
 6. **Volume (μ L)**
- Please seal, secure lid and freeze the DNA plate for shipping.