DNA isolation and preparation for genotyping

We need **at minimum** 10 microliters of DNA at a concentration of 50 nanograms per microliter.  10 microliters is at minimum for one Illumina run, but we prefer 20 ul given shipping, freezing, thawing, etc. The concentration of 50 ng/ul must be exact and is critical for Illumina platform.

1. Please note DNA quality: we recommend OD260/280 = 1.8-1.9 and OD260/230 (for cell lines and lymphocytes) > 1.9.
2. Please use 96-well PCR plates, sealed with foil. Please efficiently seal edges of plate and between wells. (We recommend semi-skirted 96-well PCR plate, ISC BioExpress, catalog # T-3085-1; Aluminum sealing tape, ISC BioExpress, catalog # T-2420-1). Wrap each 96-well plate in bubble wrap. Ship frozen on dry ice.
3. Please mark study name and plate number on the side of the plate with a permanent marker.
4. Please prepare DNA at a concentration of **50 nanograms/microliter**.  DNA should be diluted using TE buffer (10 mM Tris-HCl pH 8.0, 1 mM EDTA).
5. Please include one replicate sample per plate in G12. Please note in column G of attached manifest template the replicate ID on the appropriate row corresponding to its sample pair.

1. Please leave well H12 blank, and the genotyping lab will insert an external control.
2. Do not segregate cases on one plate and controls on another. Do not segregate cases on one row of the plate and controls on another. Mix the placement of cases and controls over each plate.
3. Please email [Talin.Haritunians@cshs.org](file:///C:\Users\mengeshae\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\3XOE8N76\Talin.Haritunians@cshs.org) and [Emebet.Mengesha@cshs.org](mailto:Emebet.Mengesha@cshs.org) the completed manifest-template excel spreadsheet.  Genotype data will be reported using the sample ID you provide.  Please ensure that sample IDs are unique and not duplicated. Do not include dashes, spaces, or dots in your sample ID, if necessary, please use an underscore.

DNA can be shipped to:

Attention: Talin Haritunians/ Emebet Mengesha

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310-423-8199