Illumina Protein Prep FAQs - TGen End Users

1. **What type of samples are used as input for the assay?**
    55uL of human serum or plasma.

2. **Are other types of samples compatible beyond serum and plasma?**
    At this phase, the assay is only compatible with human serum and plasma samples.

3. **How should the blood samples be collected?**
    Please use EDTA blood collection tubes.

4. **Is it possible to use archived blood samples for the assay?**
    Archived samples may be used but must follow the Sample Handling Guidelines for a successful run. It is important that plasma and serum samples are archived within 3 hours of collectionto maximize the performance of the assay.

5. **How many freeze/thaw cycles are recommended for the samples ahead of runningthe assay?**
    It is recommended to limit samples to a maximum of 4 freeze-thaw cycles before goinginto the assay.

6. **How many proteins can be detected with the Illumina Protein Prep assay?**
    Over 6000 unique human protein targets can be measured with the Illumina Protein Prep assay. This panel can be used to detect proteins in major biology pathways such as Oncology, Neurology, Inflammation and Cardiology pathways.

7. **What method is used in Illumina Protein Prep for protein capture?**
    SOMAmer technology (aptamer-based) is used for protein capture.

8. **How many samples can be run on a plate?**
    85 samples + 11 technical controls are run on a 96-well plate. The technical controls areimportant for normalization and are provided with the assay.

9. **What are the 11 technical controls for Illumina Protein Prep?**
    - 3x blanks to determine limit of detection
    - 5x calibrators (human plasma/serum controls with normalization factors for eachSOMAmer)
    - 3x QCs (QC check for each SOMAmer used to determine %CV)

10. **Is it necessary to have 11 controls for every 96-reaction plate run?**
    Each 96-sample plate run will require the 11 control samples to be run despite the total batch size. This is critical to account for intra-plate normalization.

11. **Is it possible to use one plate for multiple projects?**
    Yes, the normalization is applicable to the whole plate so you can use one plate for multiple projects as needed.