

### Scope of Services

The Invitrogen business of Life Technologies Corporation (“Invitrogen”) will profile a specified number of protein(s) of interest in an *in vitro* Protein-Protein Interaction (PPI) assay using ProtoArray® microarrays that contain more than 9,000 human proteins as outlined below on behalf of the “Client”.

This Statement of Work specifies Invitrogen’s ProtoArray® PPI service for this project.

### **Service includes:**

1. Characterization of protein interactions on ProtoArray® Human Protein Microarrays v5.0 (containing more than 9,000 unique proteins spotted in duplicate) in an *in vitro* protein-protein interaction assay.
2. Controls and samples are as listed below. This service includes four (4) ProtoArray® microarrays in total.
3. Probing of ProtoArrays® v5.0 at two (2) protein concentrations (5 ng/μl and 50 ng/μl, unless specified otherwise by Client), in singlicate, using a total of two (2) microarrays, and detection of interactions using appropriate detection reagent. The choice of detection reagent depends on the whether the protein is biotinylated, V5-epitope tagged, or has an epitope recognized by a Client-supplied antibody.
4. Probing of one (1) ProtoArray® v5.0 with detection reagent only as a negative control.
5. Probing of one (1) ProtoArray® v5.0 using calmodulin kinase and detection reagent as a positive control.

#### *Notes:*

- a. *When multiple proteins are profiled simultaneously, only one positive and negative control will be performed.*
- b. *Invitrogen does not guarantee that any interactions of the protein of interest will be observed on the array or that observed interactions are specific to the protein of interest.*

**Timeline:** 4 to 6 weeks upon initiation of service project

### **Client Provides:**

1. Protein:
  - a. Quality: Proteins should be >80% pure by Coomassie staining.
  - b. Concentration: approximately 1 mg/mL.
  - c. Quantity: >100 micrograms. Proteins may be shipped as liquid on blue ice or shipped frozen on dry ice. Repeated free-thaw cycles should be avoided in order to ensure optimal performance.
  - d. Detection: Biotinylated protein, V5-epitope tag, or epitope recognized by a primary antibody to be supplied by Client.
2. Signed Quotation and related Purchase Order.
3. Project Initiation Sheet to include the following
  - a. Exact concentration and buffer composition.
  - b. Molecular weight.
  - c. Binding to BSA or casein, if known.

**Invitrogen delivers:**

1. Comprehensive project report that includes all data of interacting proteins, and results of the positive and negative controls for the ProtoArray<sup>®</sup> Protein-Protein Interaction Profiling Assay.
2. Image files and raw data.

**Ordering information:**

<b>Service Description</b>	<b>Catalog Number</b>
ProtoArray <sup>®</sup> Protein-Protein Interaction Service	Custom Quote

**Timeline:**

Upon receipt of all of the following: (i) this Quotation signed by Client; (ii) the Purchase Order related to this Quotation; and (iii) the Client Materials, Invitrogen will place the project in the current queue for execution. The Client will be informed of the predicted start date. Once the project is initiated, Invitrogen will use commercially reasonable efforts to supply the Deliverables to Client within the specified timelines. The turnaround time may be extended for submissions of  $\geq 5$  proteins.

**Project management (PM):**

Our project management team will be overseeing the work on this project and will keep you apprised of the status.

**Terms and conditions:**

Invitrogen's Terms and Conditions for Provision of Services govern the service work provided hereunder and are available upon request. Furthermore, this service may be covered by one or more Limited Use Label Licenses (See Technical Support section of Invitrogen.com for specific Limited Use Label Licenses). By use of this service, you accept the terms and conditions of all applicable Limited Use Label Licenses. This service is performed for research use only.

<b>PM Contact Information:</b>
Invitrogen Custom Services Invitrogen, part of Life Technologies Corporation Phone: 800-955-6288 (3) x 45682 Fax: 716-774-3157 Email: <a href="mailto:custom.services@invitrogen.com">custom.services@invitrogen.com</a>