

### Scope of Services

The Invitrogen business of Life Technologies Corporation (“Invitrogen”) will determine the inhibition properties of the inhibitor(s) of interest in an *in vitro* Kinase Inhibition Profiling (KIP) 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® KIP assay for this project.

### **Service includes:**

1. Characterization of kinase substrates on ProtoArray® Human Protein Microarrays v5.0 (containing more than 9,000 unique proteins spotted in duplicate) and the inhibition of phosphorylation of these substrates in an *in vitro* kinase inhibition assay.
2. Invitrogen kinase, if chosen by Client.
3. Controls and samples are as listed below. This service includes ten (10) ProtoArray® microarrays in total.
4. Probing of ProtoArrays® v5.0 at two (2) kinase concentrations (5 nM and 50 nM, unless otherwise specified by Client), in duplicate, and one (1) concentration of <sup>33</sup>P-ATP (33 nM).
5. Probing of ProtoArrays® v5.0 at two (2) kinase concentrations (5 nM and 50 nM, unless otherwise specified by Client) and one (1) concentration of inhibitor (10 μM, unless otherwise specified by Client), in duplicate, and one (1) concentration of <sup>33</sup>P-ATP (33 nM).
6. Probing of one (1) ProtoArray® v5.0 with <sup>33</sup>P-ATP only as a negative control.
7. Probing of one (1) ProtoArray® v5.0 with MAPK14/p38α (100 nM) and <sup>33</sup>P-ATP as a positive control.

### *Notes:*

- a. *When multiple kinases are tested simultaneously, only one positive and negative control will be performed.*
- b. *Invitrogen does not guarantee that any interaction of the kinase of interest will be observed on the array, that observed interactions are specific to the kinase of interest, or that kinase substrate phosphorylation will be inhibited by inclusion of the inhibitor of interest.*

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

### **Service does not include:**

1. Shipment of a ProtoArray® microarray.
2. Kinase with the exception of kinases available through the Invitrogen catalog.
3. Inhibitor compounds.
4. Assay performed at the same kinase activity for multiple kinases.

### **Client provides:**

1. Kinase (at least three aliquots of 20 μl at 1 μM) or selection of kinase(s) from Invitrogen’s Catalog.
2. Inhibitor compound in solvent (50 μl of 100 μM).
3. Solvent only (no compound, at least 50 μl of solvent)
4. Signed Quotation and related Purchase Order.
5. Project Initiation Sheet



## ProtoArray<sup>®</sup> Kinase Inhibition Profiling Assay

### Invitrogen delivers:

1. Comprehensive project report that includes all data of candidate kinase substrates, compound inhibition data, and results of the positive and negative controls for the ProtoArray<sup>®</sup> Kinase Inhibition Profiling Assay.
2. Image files and raw data.

### Ordering information:

Service Description	Catalog Number
ProtoArray <sup>®</sup> Kinase Inhibition Profiling 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 timeline may be extended for orders of >3 kinases.

### Project management:

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](http://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.

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