# STATEMENT OF NEED (SON)

**<u>Instructions:</u> This document should be used for the acquisition of PRODUCTS. Instructions for completion are in red, and should be excluded in the completed document.**

## 1.0 TITLE

10x Genomics single cell gene expression analysis cell capture and library preparation kits

## 2.0 BACKGROUND

The single cell analysis is a cutting-edge technology that can investigate gene expression in each individual cancer cell at a specific time in the tumor of patient samples. However, this talent technology requires complicate and dedicated technical platform to achieve it. So far, this state-of-the-art technology has been dominated by the 10x Genomics company. The acquisition includes reagents that are essential for the single cell platform and are solely sold by 10x Genomics.

The requiring federal agency and sponsoring organization is performed by the Laboratory of Human Carcinogenesis, Center for Cancer Research, National Cancer Institute, National Institutes of Health.

The contracting activity is the deliver of kits to the Laboratory of Human Carcinogenesis, Center for Cancer Research, National Cancer Institute, National Institutes of Health.

## 3.0 TYPE OF ORDER

This is a Firm Fixed-Price Purchase Order.

## 4.0 SPECIAL ORDER REQUIREMENTS

### 4.1 PRODUCT FEATURES/SALIENT CHARACTERISTICS

The following product features/characteristics are required for this requirement:

- We require to analyze how cellular heterogeneity contributes to your biological system with transcriptional profiling at single cell resolution across tens of thousands of cells
- We require to gain new insights into cell subtypes and states with multiomic readouts of gene and cell surface protein expression
- We require to explore cellular phenotypes with whole transcriptome analysis or focus on relevant genes and pathways using pre-designed or custom Targeted Gene Expression panels
- We require to investigate complex genetic networks and perturbed transcriptomes in normal and diseased cell types by simultaneously detecting CRISPR guides and single cell gene expression profiles
- We require to profile thousands of genes at the single cell level for unbiased characterization of cell types and cell states
- We require to combine gene expression analysis with detection of hundreds of cell surface proteins at high resolution for ultra-high parameter multiomic cytometry

- We require to use with Targeted Gene Expression panels to focus on the genes and biomarkers most relevant to your research
- We require to simultaneously assess CRISPR perturbation phenotypes and gene expression from the same cell to accelerate your functional genomics studies
- We require to leverage dual index libraries for reliable sequencing data quality
- We require to combine with 3' CellPlex to multiplex up to 12 samples and recover up to 17,500 singlets per channel, enabling larger-scale single cell studies
- Finally, we require **this platform to be compatible with our previous finished and published work platform**

## 4.2 DELIVERY / INSTALLATION

Estimated 30 days after receipt of purchase order

## 4.3 TRAINING

Not Applicable

## 5.0 PAYMENT

Payment shall be made once, after delivery and acceptance. Payment authorization requires submission and approval of invoices to the COR and NIH OFM, in accordance with the payment provisions listed below:

The following clause is applicable to all Purchase Orders, Task or Delivery Orders, and Blanket Purchase Agreement (BPA) Calls: PROMPT PAYMENT (JUL 2013) FAR 52.232-25. Highlights of this clause and NIH implementation requirements follow:

I INVOICE REQUIREMENTS

A. An invoice is the Contractor's bill or written request for payment under the contract for supplies delivered or services performed. A proper invoice is an "Original" which must include the items listed in subdivisions 1 through 12, below, in addition to the requirements of FAR 32.9. If the invoice does not comply with these requirements, the Contractor will be notified of the defect within 7 days after the date the designated billing office received the invoice (3 days for meat, meat food products, or fish, and 5 days for perishable agricultural commodities, dairy products, edible fats or oils) with a statement of the reasons why it is not a proper invoice. (See exceptions under II., below.) Untimely notification will be taken into account in the computation of any interest penalty owed the Contractor.

1. Vendor/Contractor: Name, Address, Point of Contact for the invoice (Name, title, telephone number, e-mail and mailing address of point of contact).
2. Remit-to address (Name and complete mailing address to send payment).
3. Remittance name must match exactly with name on original order/contract. If the Remittance name differs from the Legal Business Name, then both names must appear on the invoice.
4. Invoice date.
5. Unique invoice #s for all invoices per vendor regardless of site.

6. NBS document number formats must be included for awards created in the NBS: Contract Number; Purchase Order Number; Task or Delivery Order Number and Source Award Number (e.g., Indefinite Delivery Contract number; General Services Administration number); or, BPA Call Number and BPA Parent Award Number.
7. Data Universal Numbering System (DUNS) or DUNS + 4 as registered in the Central Contractor Registration (CCR).
8. Federal Taxpayer Identification Number (TIN). In those exceptional cases where a contractor does not have a DUNS number or TIN, a Vendor Identification Number (VIN) must be referenced on the invoice. The VIN is the number that appears after the contractor's name on the face page of the award document.
9. Identify that payment is to be made using a three-way match.
10. Description of supplies/services that match the description on the award, by line billed.*
11. Freight or delivery charge must be billed as shown on the award. If it is included in the item price do not bill it separately. If identified in the award as a separate line item, it must be billed separately.
12. Quantity, Unit of Measure, Unit Price, Extended Price of supplies delivered or services performed, as applicable, and that match the line items specified in the award.*

* NOTE: If your invoice must differ from the line items on the award, please contact the Contracting Officer before submitting the invoice. A modification to the order or contract may be needed before the invoice can be submitted and paid.

B. Shipping costs will be reimbursed only if authorized by the Contract/Purchase Order. If authorized, shipping costs must be itemized. Where shipping costs exceed $100, the invoice must be supported by a bill of lading or a paid carrier's receipt.

C. Mail an original and 1 copy of the itemized invoice to:

National Institutes of Health
Office of Financial Management, Commercial Accounts
2115 East Jefferson Street, Room 4B-432, MSC 8500
Bethesda, MD 20892-8500

For inquiries regarding payment call: (301) 496-6088

In order to facilitate the prompt payment of invoices, it is recommended that the vendor submit a photocopy of the invoice to the "Consignee" designated for the acquisition in blocks 6A – 6E of the face page of the Order/Award document.

II. INVOICE PAYMENT

A. Except as indicated in paragraph B., below, the due date for making invoice payments by the designated payment office shall be the later of the following two events:

1. The 30th day after the designated billing office has received a proper invoice.
2. The 30th day after Government acceptance of supplies delivered or services performed.

B. The due date for making invoice payments for meat and meat food products, perishable agricultural commodities, dairy products, and edible fats or oils, shall be in accordance with the Prompt Payment Act, as amended.

III. INTEREST PENALTIES

A. An interest penalty shall be paid automatically, if payment is not made by the due date and the conditions listed below are met, if applicable.
   1. A proper invoice was received by the designated billing office.
   2. A receiving report or other Government documentation authorizing payment was processed and there was no disagreement over quantity, quality, or contractor compliance with a term or condition.
   3. In the case of a final invoice for any balance of funds due the contractor for supplies delivered or services performed, the amount was not subject to further settlement actions between the Government and the Contractor.

B. Determination of interest and penalties due will be made in accordance with the provisions of the Prompt Payment Act, as amended, the Contract Disputes Act, and regulations issued by the Office of Management and Budget.

IV. PROVIDING ACCELERATED PAYMENT TO SMALL BUSINESS SUBCONTRACTORS, FAR 52.232-40 (DEC 2013)

a) Upon receipt of accelerated payments from the Government, the Contractor shall make accelerated payments to its small business subcontractors under this contract, to the maximum extent practicable and prior to when such payment is otherwise required under the applicable contract or subcontract, after receipt of a proper invoice and all other required documentation from the small business subcontractor.
b) The acceleration of payments under this clause does not provide any new rights under the prompt Payment Act.

Include the substance of this clause, include this paragraph c, in all subcontracts with small business concerns, including subcontracts with small business concerns for the acquisition of commercial items.