

All-India Institute of Medical Sciences
Ansari Nagar, New Delhi-29
(RESEARCH SECTION)

Ref. No. 09/Prop/Lab. Onco/RG /2019-20/RS

Dated: 20.06.2019

Subject: Purchase of Single Cell Gene Analysis System for the Deptt. of Lab. Oncology, IRCH, AIIMS, New Delhi-29 on proprietary basis- Inviting comments thereon.

The request has been received from Dr. Ritu Gupta, Deptt. of Lab. Oncology, IRCH, AIIMS to purchase the subject item from M/s Premas Life Sciences Pvt. Ltd. (Mfg. M/s 10x Genomics Inc. USA on proprietary basis. The proposal submitted by M/s Premas Life Sciences Pvt. Ltd. (Mfg. M/s 10x Genomics Inc. USA and Performa Invoice and Departmental PAC certifications are attached.

The above documents are being uploaded for open information to submit objections, comments, if any, from any manufacturer regarding proprietary nature of the equipment/item within issue of 15 days giving reference **No. 09/Prop/Lab.Onco/RG/2019-20/RS**. The comments should be received by office of Stores Officer (RS), Research Section at AIIMS on or before **05/07/2019 upto 12:00 p.m.**, failing which it will be presumed that any other vendor is having no comment to offer and case will be decided on merits.

STORES OFFICER (RS)

Encl: Related documents enclosed.

- 1. PAC Certificate enclosed.**
- 2. Performa Invoice**

Purchase of Single Cell Gene Analysis System on Proprietary basis

Technical Specifications of Single Cell Gene Analysis System

Total No. of Units: One

1. System should be offered as a single, integrated instrument capable of performing quantitative Single Cell Gene Expression, Single cell DNA or RNA profiling, Assay for Transposase-Accessible Chromatin by sequencing (ATAC-Seq), Single Cell Immune Profiling, Single Cell Copy Number Variations, methylation alterations as well as to create Genome, Transcriptome and Exome phasing application libraries compatible with commercially available next generation sequencers including Illumina.
2. The chemistry should provide precisely engineered reagent delivery method that enables thousands of micro-reactions in parallel for samples which can be high molecular weight (HMW) DNA, full length RNA, individual cells, nuclei each containing an identifying barcode for downstream analysis.
3. The system should be compatible with a wide range of eukaryotic cell sizes and types (e.g. Adherent cell cultures, suspension cell cultures, tissues, blood, etc.)
4. The platform should offer capture of cells at high efficiency of 65% or more with option of doublet removal during analysis.
5. Should be able to provide single-cell whole genome copy number calls for up to 5000 cells or more per sample, which can detect single cell CNV events at 2 Mb resolution down to 100s of Kb on clusters of 10 or more cells.
6. The system should have simple workflow to generate barcoded DNA, which are created in parallel such that all fragments produced within a partition share a common barcode.
7. For whole genome or exome analyses, the system should create sequencing -ready libraries with >1,000,000 unique barcode from ~1 ng of HMW genomic DNA.
8. The system should offer to resolve the genome into extremely large phase blocks in Megabases to generate molecules from >100 kb input for structural variations.
9. The system should enable long-range phasing for whole genome, whole exome, and targeted resequencing applications to detect Haplotypes in phase, which can be directly observed without the need for informatic inference, compound heterozygosity and balanced and unbalanced structural variant detection.
10. Provide stand-alone, turn-key analysis pipelines and visualization software for novice and expert users alike for Sequence read & multiplexing, Barcode-aware alignment, single cell gene expression analysis, SNP and SNV variant calling and Variant phasing as well as de novo genome assembly.
11. Compatible vortex required for sample processing to be provided.
12. System should be supplied with compatible UPS with sufficient battery life to ensure completion of run in case of power failure.
13. System should be supplied complete with all the requisite hardware and software to achieve full functionality of the equipment including but not limited to data analysis.

14. System should be quoted with five years' complete cover warranty and additional five years of comprehensive AMC. Post-Five years CMC should be quoted along with the detailed list of spare parts and their list prices.
15. List price of all consumables and reagents required for sample preparation, processing and running of equipment that are available from the OEM should be provided and rates to be fixed for 5 years.
16. Company must have a direct presence in India with strong after-sales technical and service support and must ensure that all faults are rectified within 72 hrs.



Exhibit A

Chromium Controller Instrument & Accessory Kit – P/N 120223
Chromium Genome Library, Gel Bead, & Multiplex Kit – P/N 120229
Chromium Genome Chip Kit – P/N 120216
Chromium Genome Library & Gel Bead Kit v2 – P/N 120258
Chromium Genome Chip Kit v2 – P/N 120257
Chromium Genome HT Library & Gel Bead Kit v2 – P/N 120261
Chromium Genome Library & Gel Bead Kit v2 for Exome – P/N 1000017
Chromium Genome HT Library & Gel Bead Kit v2 for Exome – P/N 1000018
Chromium i7 Multiplex Kit – P/N 120262
Chromium Training Reagents, Gel Beads and Chip Kits – P/N 120245
Chromium Single Cell 3' Library, Gel Bead, & Multiplex Kit – P/N 120233
Chromium Single Cell 3' Chip Kit – P/N 120232
Chromium Single Cell A Chip Kit – P/N 1000009
Chromium Single Cell A Chip Kit – P/N 120236
Chromium Single Cell 3' Library & Gel Bead Kit v2 – P/N 120237
Chromium Single Cell 3' Library & Gel Bead Kit v2 – P/N 120267
Chromium Single Cell 5' Library & Gel Bead Kit – P/N 1000006
Chromium Single Cell 5' Library & Gel Bead Kit – P/N 1000014
Chromium Single Cell 5' Feature Barcode Library Kit, 16 rxns - P/N 1000080
Chromium Single Cell 3'/5' Library Construction Kit – P/N 1000020
Chromium Single Cell V(D)J Enrichment Kit, Human B Cell – P/N 1000016
Chromium Single Cell V(D)J Enrichment Kit, Human T Cell – P/N 1000005
Chromium Chip C Single Cell DNA Kit, 48 rxns - P/N 1000022
Chromium Chip C Single Cell DNA Kit, 16 rxns - P/N 1000032
Chromium Single Cell DNA Library & Gel Bead Kit, 16 rxns - P/N 1000040
Chromium Single Cell DNA Library & Gel Bead Kit, 4 rxns - P/N 1000041
Chromium Chip D Single Cell DNA Kit, 48 rxns - P/N 1000042
Chromium Chip D Single Cell DNA Kit, 8 rxns - P/N 1000036
10x Chromium Chip D Holder - P/N 1000053
10x Magnetic Separator A - P/N 1000054
Flowmi Filter, 50 rxns - P/N 1000055
Chromium Single Cell DNA Cell Bead Kit, 16 rxns - P/N 1000056
Chromium Single Cell DNA Cell Bead Kit, 4 rxns - P/N 1000057
Chromium Single Cell DNA Accessory Kit - P/N 1000058
Chromium Single Cell DNA Training Kit - P/N 1000061
Chromium Single Cell 3' GEM, Library & Gel Bead Kit v3, 4 rxns - P/N 1000092
Chromium Single Cell 3' GEM, Library & Gel Bead Kit v3, 16 rxns - P/N 1000075
Chromium Chip B Single Cell Kit, 48 rxns - P/N 1000073
Chromium Chip B Single Cell Kit, 16 rxns - P/N 1000074
Chromium Single Cell 3' Feature Barcode Library Kit, 16 rxns - P/N 1000079
Chromium Single Cell ATAC Library & Gel Bead Kit, 16 rxns - P/N 1000110
Chromium Single Cell ATAC Library & Gel Bead Kit, 4 rxns - P/N 1000111
Chromium Chip E Single Cell ATAC Kit, 48 rxns - P/N 1000082
Chromium Chip E Single Cell ATAC Kit, 16 rxns - P/N 1000086
Chromium i7 Multiplex Kit N, Set A, 96 rxn - P/N 1000084
ST Tissue Optimization Reagents - P/N 1000133
ST Library Preparation Slide - P/N 1000132
ST Tissue Optimization Slide - P/N 1000131



Sole Source

I hereby confirm that 10X Genomics, Inc. is the exclusive manufacturer of the products listed in Exhibit A hereto.

The patents and applications set forth in Exhibit B hereto represent key patents from the 10X Genomics, Inc. patent portfolio.

Signed:

DocuSigned by:
Sam Ropp
C8018E934F30420

Name and title:

Sam Ropp VP, Global Sales

Date:

March 28, 2019

10X
GENOMICS
7068 Kell Center Pkwy, Suite 401
Pleasanton, CA 94566



Exhibit B

Country	Publication Number
China	CN04769127A
European Patent Office	2885418
India	1126/DELNP/2015A
European Patent Office	EP2931919B1
European Patent Office	EP3013957B1
United States	US9410201
United States	US9388465
United States	US9689024
United States	US9701998
United States	US9856530
United States	US10221442
United States	US10053723
United States	US10208343
United States	US10011872
United States	US9951386
United States	US20180179591
United States	US9975122
United States	US10059989
United States	US10150995
United States	US20180340171
European Patent Office	EP2999793B1
China	CN105339503A
China	CN109072206A
United States	US10150117
United States	US10155981
United States	US10221436
United States	US10030261
European Patent Office	EP2697391
China	CN201280029001
Japan	JP5916166
United States	US9593365
European Patent Office	EP2909337
Singapore	112017075155

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ALL INDIA INSTITUTE OF MEDICAL SCIENCES
ANSARI NAGAR, NEW DELHI-110029
RESEARCH SECTION

PROPRIETARY/ SPECIFIC BRAND GOODS CERTIFICATE

1	Item/Type/Model No. required along with specification	Single Cell Gene Analysis System
2	Is the item a spare parts attachment or accessory for an existing equipment	No
3	Name of the manufacturers/ supplier of the item proposed by the Indenter	M/s 10X genomics (OEM) M/s Premas Life Sciences Pvt Ltd. (Vendor)
4	Are they sole manufacturers/ sole distributors of the item	Yes
5	Is there any other item with similar/ equivalent specification available in the market to meet the job requirement envisaged? If the answer is yes, why the same can't be procured. Demanding officer should bring out comparative functional advantaged/ cost effectiveness of the recommended item from these offered by other	None
6	What were the efforts made to locate alternative source of supply or use other substitutes	Internet search, discussions with scientists & experts in different institutes & laboratories in academia & corporate & vendors
7	Why open/ limited tender can't be resorted to, for locating alternative source	This is a proprietary item & documents to this effect have been received from the vendor. However, the same may be placed on website for inviting comments and to ensure availability of any alternative item as applicable
8	Are the proprietary items certifying that the rates are reasonable or not	Yes
9	Any other justification for procuring item from single source	None

[Signature]
Signature of Indenter
(Demanding Officer)

[Signature]
Counter signee
(Head of the Department)

We certify that the item at Sr. No. 1 above is required to be procured on single tender basis as the source of supply is definitely known/ the specified brand proposed was advertised in meeting our functional requirements and limited tender system could be dispensed with as they would serve no useful purpose in this particular case

[Signatures]

10x Genomics Sole Source Document

The Chromium System and GemCode Technology

Chromium System

The Chromium System, powered by GemCode Technology, provides precisely engineered reagent delivery method that enables thousands of micro-reactions in parallel. Encapsulate a sample into hundreds to tens of thousands of uniquely addressable partitions in minutes, each containing an identifying barcode for downstream analysis. Each Gel Bead, infused with millions of barcoded oligonucleotides, is mixed with a sample, which can be high molecular weight (HMW) DNA, individual cells, nuclei, or Cell Beads. Gel Beads and samples are then added to an oil-surfactant solution to create Gel Beads-in-Emulsion (GEMs), which act as individual reaction vesicles in which the Gel Beads are dissolved, and the sample is barcoded. Barcoded products are pooled for downstream reactions to create short-read sequencer compatible libraries. After sequencing, the resulting barcoded short read sequences are fed into turnkey analysis pipelines that use the barcode information to map reads back to their original HMW DNA, single cell, or single nucleus of origin.

The Chromium System is the only system capable of the following solutions in one instrument:

- Single Cell Gene Expression
- Single Cell Immune Profiling
- Single Cell CNV
- Single Cell ATAC
- Linked Read Genome Sequencing
- Linked Read Exome Sequencing
- de Novo Assembly

High Molecular Weight DNA Partitioning

For whole genome or exome analyses, the Chromium Controller allows researchers to create sequencing-ready libraries with >1,000,000 unique barcodes from ~1 ng of HMW genomic DNA (Figure 2). Massive partitioning of the genome provides haplotype level dilution and enables the barcoding of long input DNA molecules, which are then sequenced in bulk to produce a unique data-type known as Linked-Reads. The long-range information encoded in barcoded Linked-Reads is leveraged by innovative bioinformatics pipelines to assemble sequences over long genomic distances, including across repetitive regions. The precise assembly of Linked-Reads leverages heterozygous loci to resolve individual haplotypes, enabling diploid de novo assembly and phased calling of the full spectrum of human genetic variations, including SNPs, small indels, and complex structural variants.

Single Cell Partitioning for Transcriptome Analysis

The Chromium Single Cell Gene Expression assay enables single cell transcriptional profiling of up to millions of single cells. Single cell suspensions loaded onto the system are partitioned into GEMs, where transcripts are tagged with cell specific barcodes. The barcoded cDNA is then pooled for downstream processing and library preparation. In addition, the assay enables simultaneous assessment of gene expression and feature profiling (e.g. cell surface proteins, guide RNA), enabling enhanced phenotypic profiling in thousands of individual cells. The Chromium Single Cell Gene Expression assay contains reagents to construct a library using the Feature Barcoding technology. However, compatible input materials, such as, cell surface proteins labeled with antibody-oligonucleotide conjugates, CRISPR transduced cells or any other products need to be prepared by the users. Our precise and efficient microfluidics allow 100-80,000+ cells to be recovered in droplets in each <7 minute run with a low doublet rate, facilitating the profiling of precious and rare cell populations. After sequencing, downstream bioinformatics tools use the cellular barcodes to group transcripts that originated from the same cell, revealing the transcriptome and/or the feature information of each individual cell.

Single Cell Partitioning for Immune Profiling Analysis

The Chromium Single Cell Immune Profiling Solution is a comprehensive approach to simultaneously examine the cellular context of the adaptive immune response and immune repertoires of hundreds to tens of thousands of T and B cells in human or mouse on a cell-by-cell basis. Single cell suspensions loaded onto the system are partitioned into GEMs, where transcripts are tagged with cell specific barcodes. The barcoded cDNA is then pooled for downstream processing and library preparation. The assay enables simultaneously examine the cellular context of the adaptive immune response and immune repertoires of hundreds to tens of thousands of T and B cells in human or mouse. Further, in combination with the Feature Barcoding technology, detection and analysis of additional cellular features, such as, cell surface proteins and antigen specificity to enhance immune cell phenotyping and study dynamic interactions between lymphocytes and target cells is enabled. Precise and efficient microfluidics allow 100-80,000+ cells to be recovered in droplets in each <7 minute run with a low doublet rate, facilitating the profiling of precious and rare cell populations. After sequencing, downstream bioinformatics tools use the cellular barcodes to group transcripts that originated from the same cell, revealing the transcriptome and/or the full-length T- or B-cell receptor sequences and additional cell feature information of each individual cell.

Single Cell Partitioning for Genome Analysis

Building on our technology, we can analyze DNA at the single cell level. In the Chromium Single Cell DNA workflow, single cells are first encapsulated in hydrogel Cell Beads (CBs), allowing the cells to be subjected to protein digestion and denaturation, while still retaining intact DNA in the hydrogel matrix. After the cells have been lysed, CBs containing DNA are partitioned with 10x barcoded Gel Beads (GBs), to generate Cell Bead Gel Bead (CBGB) GEMs. DNA from single cells is barcoded within the CBGB GEMs and the barcoded fragments are pooled for library production. The barcoded libraries can be easily traced back to the cells from which they originated using informatics software.

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Single Nuclei Partitioning for Epigenome Analysis

The Chromium System enables the analysis of chromatin accessibility at single cell resolution. In the Chromium Single Cell Assay for Transposase Accessible Chromatin (ATAC) workflow, single nuclei are first treated in bulk with transposase enzyme to preferentially insert sequencing adaptors into accessible DNA regions, and then are partitioned into GEMs in the Chromium Controller. All accessible DNA fragments from the same nucleus share a common 10x barcode. The barcoded, accessible DNA fragments are subsequently pooled for downstream processing and library preparation.

The precise and efficient microfluidics allow 500-80,000+ nuclei to be recovered in droplets in each <7 minute run with a low doublet rate, facilitating the open chromatin profiling of challenging and rare cell populations. The barcoded library fragments can then be easily traced back to the open chromatin landscape for each nucleus from which they originated using intuitive bioinformatics tools.

Chromium Reagent Kits

Chromium Single Cell 3'

The Chromium Single Cell 3' Reagent Kits enables deep profiling of complex cell populations with high-throughput 3' digital gene expression and feature analysis of individual cells. Single-cell sequencing provides a number of advantages, including:

- Single-cell sequencing can detect biologically relevant gene expression signals masked by bulk measurement for up to 80,000 individual cells per chip across heterogeneous cell types
- Rare or novel cell types may also be uncovered and characterized based on environmental or experimental conditions.
- Simultaneous assessment of many phenotypes (e.g. gene expression and protein abundance)

Chromium Genome

The Chromium Genome Reagent Kits enable long-range structural information on a genome-wide scale, leveraging >100 kb Linked-Read molecules to facilitate diverse applications, such as:

- Whole genome resequencing – phase SNP and SNV variants to >10 Mb blocks
- Whole exome sequencing – focus sequencing power on desired genomic loci while retaining long range structural context to phase variants
- *de novo* genome assembly – routinely assemble diploid genomes without a reference bias

High molecular weight DNA is partitioned and barcoded into hundreds of thousands of unique reaction chambers, each with unique GemCode Gel Beads and reagents. Downstream, libraries produce Linked-Reads from the original >100kb template molecules. Detected variants are then assigned to the appropriate, observed haplotype-enabling phase resolution of a diploid genome.

Chromium Single Cell DNA

The Chromium Single Cell DNA Reagent Kits enable high-throughput capture of DNA from single cells to power genomic analysis at a single cell resolution. This provides a number of advantages including:

- The ability to scale single cell genomic experiments up to 5000 cells per sample
- The ability to identify genomic variations associated with a single cell
- Determine co-occurrence of genomic events within a single cell

Chromium Single Cell 5'

The Chromium Single Cell 5' Reagent Kits provide a scalable system for profiling full-length paired V(D)J transcripts on a cell-by-cell basis.

- Delivers paired full-length T-cell receptor alpha and beta chain sequences at the single-cell level using universal and unbiased amplification strategies, thus avoiding amplification and detection bias associated with complex multiplex PCR while revealing deeper biological complexity of antigen specificity on a per-cell basis than single-chain (e.g. TCR) methods.
- The incorporation of a unique molecular identifier (UMI) in the template switch oligo enables transcript quantification and further reduces systematic bias by controlling for non-biological SNVs or other variants introduced by PCR and sequencing error.
- Enables the detection of germline and somatic variation across full-length antigen receptor V(D)J gene sequences.
- Identifies both productive and non-productive recombination events as well as adaptive immune cells with more than one productive T-cell receptor alpha or beta chain.
- Maps transcription start sites.

Chromium Single Cell ATAC

The Chromium Single Cell ATAC Reagent Kits enable mapping of the epigenetic landscape at high resolution to define gene regulatory networks and unravel the epigenetic basis of disease and development.

- Profile the open chromatin landscape up to 10,000 individual nuclei per sample (8 samples per run) in a user friendly 7 hr workflow
- Identify epigenetic mechanisms in rare cell populations from complex samples (as low as 0.5%)
- Analyze high resolution epigenetic data by characterizing cellular heterogeneity with turnkey software

Solutions**Single Cell Gene Expression Solution Summary**

The Chromium Single Cell Gene Expression Solution delivers a scalable microfluidic platform for 3' digital gene expression profiling of up to 80,000 cells per run. In addition, the Feature Barcoding technology enables simultaneous profiling of additional cellular phenotypes (e.g. cell surface proteins, gRNAs). The 10x GemCode Technology samples a pool of ~3.6 million barcodes to separately index each cell's transcriptome. It does so by partitioning thousands of cells into nanoliter-scale GEMs, in which all generated cDNAs share a common barcode. Libraries are generated and sequenced from the cDNA, and barcodes are then used to associate individual reads back to their individual partitions or cells.

The Chromium System provides an unparalleled solution for uncovering cell-to-cell gene expression and identifying rare cells in heterogeneous populations. Technical innovations and the Feature Barcoding technology allow the system to efficiently create high complexity libraries from single cells to maximize information from any sample.

Workflow

The Chromium System uses a microfluidic chip to provide high-throughput reagent delivery. The 8-sample cartridge is loaded with Gel Beads, Single Cell 3' reagents, a cell suspension and an oil-surfactant solution. Reagents and cells are combined at a microfluidic junction where GEMs are generated. GEMs are created in such a way that single cells are partitioned with unique, cell-linked molecular barcodes. The simple workflow creates up to >90,000 GEMs per channel in a 7 minute instrument run time.

Unique Platform Characteristics

- Generate single-cell transcript counts from up to 80,000 cells per run
- Produce >90,000 individual nanoliter-scale partitions leveraging ~1.3 million unique 16 bp barcodes
- Capture cells at high efficiency up to 65%
- Low doublet rate 0.9% per 1,000 cells.
- Achieve deep profiling of complex cell populations with high-throughput digital gene expression of individual cells
- Measure additional phenotypes with Feature Barcoding technology
- Provide turn-key analysis pipelines and visualization software for novice and expert users alike
- Include a microfluidics chip that is compatible with a wide range of eukaryotic cell sizes and types (e.g. adherent cell cultures, suspension cell cultures, tissues, blood, etc.)
- Rapid time to lysis provides an accurate view of the transcriptome with minimal impact on expression

Single Cell Immune Profiling Solution Summary

The Chromium Single Cell Immune Profiling Solution delivers a scalable microfluidic platform for Immune profiling of up to 80,000 cells per run. In addition, the Feature Barcoding technology enables simultaneous profiling of additional phenotypes (e.g. cell surface proteins, gRNAs). The 10x GemCode Technology samples a pool of ~3.6 million barcodes to separately index each cell's transcriptome. It does so by partitioning thousands of cells into nanoliter-scale GEMs, in which all generated cDNAs share a common barcode. Libraries are generated and sequenced from the cDNA, and barcodes are then used to associate individual reads back to their individual partitions or cells. The Chromium System provides an unparalleled solution for uncovering cell-to-cell gene expression and identifying rare cells in heterogeneous populations. Technical innovations and the Feature Barcoding technology allow the system to efficiently create high complexity libraries from single cells to maximize information from any sample.

Workflow

The Chromium System uses a microfluidic chip to provide high-throughput reagent delivery. The 8-sample cartridge is loaded with Gel Beads, Single Cell 5' reagents, a cell suspension and an oil-surfactant solution. Reagents and cells are combined at a microfluidic junction where GEMs are

generated. GEMs are created in such a way that single cells are partitioned with unique, cell-linked molecular barcodes. The simple workflow creates up to >90,000 GEMs per channel in a 7 minute instrument run time.

Unique Platform Characteristics

- Generate single-cell transcript counts from up to 80,000 cells per run
- Produce >90,000 individual nanoliter-scale partitions leveraging ~1.3 million unique 16 bp barcodes
- Capture cells at high efficiency up to 65%
- Low doublet rate 0.9% per 1,000 cells.
- Reveal clonality, diversity, antigen specificity, and cellular context
- Assemble and annotate full-length V(D)J gene sequences
- Pair α and β chain TCR sequences from individual T cells
- Pair heavy and light chain immunoglobulin (Ig) sequences from individual B cells with full isotype resolution
- Simultaneously measure TCR, B cell Ig, cell surface protein expression, and 5' gene expression in the same cells
- Link full-length, paired TCR α and β chain sequences with TCR-pMHC specificity
- Simultaneously measure cell surface protein expression with gene expression
- Provide turn-key analysis pipelines and visualization software for novice and expert users alike
- Include a microfluidics chip that is compatible with a wide range of eukaryotic cell sizes and types (e.g. adherent cell cultures, suspension cell cultures, tissues, blood, etc.)
- Rapid time to lysis provides an accurate view of the transcriptome with minimal impact on expression

Single Cell CNV Solution Summary

The Chromium Single Cell CNV Solution delivers a scalable microfluidic platform for the capture of genomic DNA in up to 40,000 cells per run. The Chromium System uses a two-step process that involves the generation of Cell Beads and subsequently Cell Bead and Gel Bead GEMs (CBGB GEMs) on two separate microfluidic chips to provide highly uniform DNA libraries. The Chromium System provides an unparalleled solution for elucidating whole genome structure at a single cell level to identify genomic heterogeneity in samples. Technical innovations allow the system to efficiently create high complexity libraries from single cells to maximize information from any sample.

Workflow

The Chromium system first uses an 8-sample microfluidic chip which is loaded with cells, cell bead polymer and an oil-surfactant solution to create Cell Bead emulsions. Each Cell Bead emulsion contains a single cell. The cells are then lysed within the Cell Bead while keeping the intact DNA encapsulated in the cell matrix. In the second step, the Cell Beads containing the free DNA, the Single Cell DNA Gel Beads, the Single Cell DNA enzymes and an oil-surfactant solution are loaded on different 4-sample cartridge to generate Cell Bead Gel Bead GEMs (CBGB GEMs). Each GEM contains exactly one Cell Bead and one Gel Bead. Within each GEM, the DNA from the Cell Bead is then tagged

with the unique molecular barcode from the Gel Bead. As such, all DNA coming from the same cell is tagged with the same molecular barcode. The simple workflow creates up to 5,000 CBGB partitions per channel in less than 20 minutes for both microfluidic chip runs on the instrument.

Unique Platform Characteristics

- Generate single-cell whole genome copy number calls for up to 5000 cells per sample
- Accurately detects single cell CNV events at 2 Mb resolution
- Provides hierarchical clustering of single cells based on their whole genome CNV profiles
- Detects CNV events down to 100s of Kb on clusters of 10 or more cells
- Provide stand-alone, turn-key analysis pipelines and visualization software for novice and expert users alike
- Includes microfluidics chips that are compatible with a wide range of eukaryotic cell sizes and types. The Chromium Single Cell CNV solution is an end-to-end solution that includes the Chromium Single Cell DNA Reagent Kit plus turnkey analysis and visualization software

Single Cell ATAC Solution Summary

The Chromium Single Cell ATAC (Assay for Transposase Accessible Chromatin) Solution accelerates the understanding of the regulatory landscape of the genome, thereby providing insights into cell variability. The chromatin profiling of tens of thousands of single cells in parallel allows researchers to see how chromatin compaction and DNA-binding proteins regulate gene expression at high resolution.

The Chromium Single Cell ATAC Solution also includes intuitive software analysis and visualization tools for a refined analysis of gene regulatory networks in single cells. The Chromium Single Cell ATAC Solution can be used to study developmental plasticity, cellular heterogeneity, and beyond.

Workflow

Profiling of the regulatory landscape of chromatin in hundreds to thousands of cells in a single sample using the Chromium Single Cell ATAC (Assay for Transposase Accessible Chromatin) Solution is achieved by first transposing nuclei in a bulk solution; then using a microfluidic chip, the nuclei are partitioned into nanoliter-scale Gel Beads-in-emulsion (GEMs). GemCode Technology samples a pool of ~750,000 10x Barcodes to separately and uniquely index the transposed DNA of each individual cell. Libraries are generated and sequenced, and 10x Barcodes are used to associate individual reads back to the individual partitions, and thereby, to each individual cell.

Unique Platform Characteristics

- Detect open chromatin regions in single cells with enriched signals in Transcription Start Sites (TSS) and regulatory regions
- Profile 500-10,000 nuclei per channel with our scalable, high-throughput solution
- Recover up to 65% of nuclei loaded on chips
- Investigate cell lines, primary cells, fresh, and cryopreserved samples with confidence
- Analyze your single cell epigenetic data with our turnkey analysis software and interactive visualization tools

Chromium Genome Solution Summary

The Chromium System upgrades short read sequencers to deliver a high-throughput, fully-integrated and scalable microfluidic platform for the interrogation of DNA. The Chromium Genome Solution samples a pool of ~4,000,000 barcodes to separately index each DNA fragment by partitioning the genome, in a haplotype-limiting fashion, into GEMs. The simple workflow generates barcoded DNA, which are created in parallel such that all fragments produced within a partition share a common barcode. Libraries are generated and sequenced from the fragments, and the barcodes are used to associate individual reads back to the individual DNA fragments. Libraries can be prepared for interrogation via whole genome sequencing or targeted sequencing through hybridization capture. The Chromium System provides an unparalleled solution for revealing haplotype phasing and structural variation, as well as uncovering previously inaccessible genomic. Technical innovations allow the system to efficiently create high-complexity libraries from ~1ng of input DNA, maximizing information from any sample.

Workflow

The Chromium System provides high-throughput reagent delivery using a microfluidic chip. The Chromium Genome 8-sample chip is loaded with the Gel Beads, 1ng of high molecular weight DNA, and an oil-surfactant solution. Reagents and cells are combined at a microfluidic junction where GEMs are generated. GEMs are created in such a way that <5 fg of DNA are partitioned with a unique molecular barcode. The simple workflow creates up to ~1,000,000 GEMs per channel in a 20 minute run.

Unique Platform Characteristics

- Leverages Linked-Read data to reconstruct a diploid genome without the need for a reference
- Routinely resolves the genome into extremely large haplotype phase blocks (i.e. >10 Mb)
- Produces up to 1,000,000 individual nanoliter-scale reactions leveraging ~4,000,000 unique 16 bp barcodes
- Generates Linked-Read molecules from >100 kb input molecules
- Enables long-range phasing for whole genome, whole exome, and targeted resequencing applications to detect:
 - Haplotypes, which can be directly observed without the need for informatic inference
 - Compound heterozygosity
 - Balanced and unbalanced structural variant detection
- Rescues short sequencing reads that reside in previously unmappable regions of the genome (frequently ~10% of all reads).
- Provides stand-alone, turn-key analysis pipelines and visualization software for novice and expert users alike for:
 - Sequence read demultiplexing

SAM000032



- o Barcode-aware alignment
- o SNP and SNV variant calling
- o Variant phasing
- o *de novo* genome assembly

SAM000032

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Grub

Barney

Chromium System Specifications

Weight	12.5 lb (5.6 kg)
Size (W X D X H)	7.9 x 10.3 x 6.4 in (20 x 26.3 x 16.4 cm)
Electrical Requirements	Nominal 100-240 Vac, 50-60 Hz, 15 W, from a standard 3-prong wall receptacle that includes a safety ground pin. Maximum 90-264V operational range (+/- 10% of Nominal). Overvoltage Category II (Standard Receptacle)
Pollution Degree	2 (Indoor Use Only)
Ventilation Requirement	Minimum 4 in (10 cm) Around All Sides
Usable Temperature Range	18-28 °C (64-82 °F)
Humidity	85% Max (Non-Condensing)
Altitude	0-6560 ft (0-2000 m)
ECCN	Not applicable for 10x Genomics

Chromium System Packaging Information

Weight	20 lbs (9.1 kg)
Size (W X D X H)	16x16x12 in.

10x Genomics Contact InformationCorporate Address

10x Genomics
7068 Koll Center Parkway, Suite 401
Pleasanton, CA 94566
925-401-7300

TAX ID Number: 45-5614458
DUNS Number: 078703994

Accounts Receivable contact:
accounting@10xgenomics.com

Remittance Address:

10x Genomics
7068 Koll Center Parkway, Suite 401
Pleasanton, CA 94566



The 'Director'
All India Institute of Medical Sciences
Ansari Nagar,
New Delhi-29
India

Re: MANUFACTURER'S AUTHORISATION

Dear Sir,

We, 10X Genomics Inc., who are proven and reputable manufacturers of instruments and consumables for genomics research, having factories at 7068 Koll Center Parkway Suite 401, Pleasanton, California, 94566, United States, hereby authorise Messrs Premas Life Sciences Pvt Ltd, Plot no. E-49/5, 2nd Floor, Okhla Phase II, New Delhi – 110020 to submit a tender, process the same further and enter into a contract with you for goods manufactured by us. We also state that we are not participating directly in this tender for the following reason(s):

1. We have authorized Premas Life Sciences Pvt Ltd, Plot no. E-49/5, 2nd Floor, Okhla Phase II, New Delhi – 110020 as a sole distributor responsible to submit a tender, process the same further and enter into a contract for goods manufactured by us.
2. The tender requires supply of third-party items which we are not able to supply directly.

We further confirm that no supplier or firm or individual other than Messrs. Premas Life Sciences Pvt Ltd, Plot no. E-49/5, 2nd Floor, Okhla Phase II, New Delhi – 110020 is authorised to submit a tender, process the same further and enter into a contract with you against your requirement of goods manufactured by us.

We hereby extend our standard warranty for the goods offered for supply by the above firm against this TE document. In case of change of authorized distributor, the newly appointed distributor would be responsible for after sales service and annual maintenance & repairs under the terms of our warranty. In case of new distributor's failure to provide service and support, we will fulfil the terms of the such warranty. We also ensure continued support for the equipment for 5 years from the date of installation and handing over.

Sincerely,

DocuSigned by:

CBQ18E631F3C429
Sam Ropp
Vice President Global Sales
for and on behalf of 10X Genomics, Inc.
April 22, 2019





Premas Life Sciences Pvt. Ltd.
E - 49/5, Second Floor, Okhla Phase II,
New Delhi - 110020
CIN: U51909DL2011PTC217592
Email: contact@premaslifesciences.com
Phone: 011-46170798

Prepared for:

Director

All India Institute of Medical Sciences
Ansari Nagar, New Delhi, DL, 110029, INDIA
Hereinafter referred to as "AIIMS"

Quotation Number:	SQPLS/10X/19-20/0002
Quotation Date:	May 31, 2019
Expiration Date:	September 30, 2019
Prepared By:	Satinder Pratap
Phone Number:	9810877313
Email:	cs@premaslifesciences.com

II. PRODUCT & PRICING INFORMATION

Catalog #	Product Description	Unit Price (INR)	Disc. Customer Price	Qty.	Transaction value (INR) (A)	HSN/SAC Code	BCD@ 5.5%	BCD Amount(B)	Total(A+B)
120223	Chromium™ Controller & Accessory Kit, 60 Month Assurance Plan.	1,83,75,000.00	1,01,06,250.00	1	1,01,06,250.00	8413	5.5%	5,55,843.75	1,06,62,093.75
Total Amount With BCD(A+B)									₹ 1,06,62,093.75

Terms & Conditions:

- Prices Given FOR basis.
- Delivery within 6 to 8 weeks from date of purchase order.
- Payment - 100% Inland LC, 75% on delivery and 25% on acceptance against 'Final Acceptance Certificate' as per Section XVIII Net 30 days through wire transfer in favour of Premas Life Sciences Pvt. Ltd, banking details are attached.
- GST will be applicable as per govt rule at the time of invoicing.
- Order should be issued in favor of Premas Life Sciences Pvt. Ltd., E 49/5, 2nd Floor, Okhla Industrial Area Phase 2, New Delhi-110020. Premas will arrange to clear & deliver the goods from FTWZ complete address as given below.

ONNSYNEX VENTURES PRIVATE LIMITED
Plot no. 23, NSEZ Noida, Phase-II, Gautam Budh Nagar 201305 (U.P.) India A/C
Premas Life Sciences Private Limited.
E-49/5, Okhla Industrial Estate, Phase-II,
New Delhi 110020 India.
- Road Permit/E-Way Bill should be provided for dispatch of material, if any applicable.
- Above products are for research use only.
- GST No. is mandatory to mention in purchase order copy.
- Please share PO on cs@premaslifesciences.com.
- Above quoted price are as per the current exchange rate, in case the exchange rate will increase beyond 5%, the same will be charged extra.



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Phone: 011-46170798

11. AIIMS has to provide the following documents to clear the shipment at FTWZ.

- DSIR Certificate
- CDEC (Custom Duty Exemption Certificate)
- IEC copy
- GST Copy
- PAN Card
- Authorization letter

In absence of above required documents BCD & GST will be charged extra on actual.

10x Chromium Controller CAMC Charges from 6th to 10th year		
S.No	Description	Price
1	10x Chromium Controller CMC - 6th Year	₹ 5,05,312.50
2	10x Chromium Controller CMC - 7th Year	₹ 5,55,843.75
3	10x Chromium Controller CMC - 8th Year	₹ 6,11,428.13
4	10x Chromium Controller CMC - 9th Year	₹ 6,72,570.94
5	10x Chromium Controller CMC - 10th Year	₹ 7,39,828.03
Note: GST will be applicable as per GOI norms at the time of invoicing		

For Premas Life Sciences Pvt. Ltd.





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10x Genomics Price List 2019

Product Code	Product Name/Description	# rxns	List Price (INR)
Genome Solution			
Library & Gel Bead Kit			
120258	Chromium Genome Library & Gel Bead Kit v2, 16 rxns Contains the genome reagents to enable sample partitioning, molecular barcoding & library creation for 16 samples.	16	₹ 604,800.00
120261	Chromium Genome HT Library & Gel Bead Kit v2, 96 rxns Contains the genome reagents to enable sample partitioning, molecular barcoding & library creation for 96 samples.	96	₹ 2,248,400.00
Exome Solution			
1000017	Chromium Genome Library & Gel Bead Kit v2 for Exome Application, 16 rxns Contains the genome reagents to enable sample partitioning, molecular barcoding, library creation and post-capture amplification for 16 samples.	16	₹ 604,800.00
1000018	Chromium Genome HT Library & Gel Bead Kit v2 for Exome Application, 96 rxns Contains the genome reagents to enable sample partitioning, molecular barcoding, library creation and post-capture amplification for 96 samples.	96	₹ 2,248,400.00
604800			
120257	Chromium Genome Chip Kit v2, 48 rxns Contains the microfluidic genome chips, gaskets and oil to enable sample partitioning and molecular barcoding for 48 samples	48	₹ 207,200.00
Sample Index			
120262	Chromium i7 Multiplex Kit, 96 rxns Contains sample indices to enable sample multiplexing up to 96-plex on an Illumina sequencer	96	₹ 110,600.00
Accessory			
1000008	Chromium Genome HT Accessory Kit Double sided Chip Holder w/ SBS Formatted Adapter included	-	₹ 900,000.00
120245	Chromium Training Reagents, Gel Beads and Chip Kits Contains reagents, gel beads and chip kits for training new customers on the 10x Genomics workflows	-	₹ 210,000.00
3' GEX v3 + Feature Barcoding			
Library & Gel Bead Kit			
1000092	Chromium™ Single Cell 3' GEM, Library & Gel Bead Kit v3, 4 rxns Contains the reagents for sample partitioning, cell by cell mRNA 3' barcoding and library creation, 4 samples	4	₹ 831,600.00
1000075	Chromium™ Single Cell 3' GEM, Library & Gel Bead Kit v3, 16 rxns Contains the reagents for sample partitioning, cell by cell mRNA 3' barcoding and library creation, 16 samples	16	₹ 3,024,000.00
1000128	Chromium Next GEM Single Cell 3' GEM, Library & Gel Bead Kit v3.1, 4 rxns Contains the reagents for sample partitioning, cell by cell mRNA 3' barcoding and library creation, 4 samples	4	₹ 831,600.00
1000121	Chromium Next GEM Single Cell 3' GEM, Library & Gel Bead Kit v3.1, 16 rxns Contains the reagents for sample partitioning, cell by cell mRNA 3' barcoding and library creation, 16 samples	16	₹ 3,024,000.00
1000157	Chromium Next GEM Single Cell 3' Library Construction Kit v3.1, 16 rxns	16	₹ 144,200.00
1000078	Chromium Single Cell 3' Library Construction Kit v3, 16 rxns	16	₹ 144,200.00
1000079	Chromium™ Single Cell 3' Feature Barcode Library Kit, 16 rxns	16	₹ 77,000.00
Chip			
1000127	Chromium Next GEM Chip G Single Cell Kit, 16 rxns Contains the microfluidic Single Cell chips, gaskets and oil for sample partitioning, cell by cell mRNA barcoding and the recovery agent for coalescing GEMs post barcoding, 16 samples	16	₹ 71,400.00
1000120	Chromium Next GEM Chip G Single Cell Kit, 48 rxns Contains the microfluidic Single Cell chips, gaskets and oil for sample partitioning, cell by cell mRNA barcoding and the recovery agent for coalescing GEMs post barcoding, 48 samples	48	₹ 207,200.00





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10x Genomics Price List 2019

Product Code	Product Name/Description	# rxns	List Price (INR)
1000074	Chromium™ Chip B Single Cell Kit, 16 rxns Contains the microfluidic Single Cell chips, gaskets and oil for sample partitioning, cell by cell mRNA barcoding and the recovery agent for coalescing GEMs post barcoding, 16 samples	16	₹ 71,400.00
1000073	Chromium™ Chip B Single Cell Kit, 48 rxns Contains the microfluidic Single Cell chips, gaskets and oil for sample partitioning, cell by cell mRNA barcoding and the recovery agent for coalescing GEMs post barcoding, 48 samples	48	₹ 207,200.00
Sample Index			
120262	Chromium i7 Multiplex Kit, 96 rxns Contains sample indices to enable sample multiplexing up to 96-plex on an Illumina sequencer	96	₹ 110,600.00
Human/Mouse VDJ + 5' GEX + Feature Barcode			
Library & Gel Bead Kit			
1000014	Chromium Single Cell 5' Library & Gel Bead Kit, 4 rxns Contains the reagents for sample partitioning, cell by cell mRNA 5' barcoding and library creation, 4 samples	4	₹ 800,800.00
1000006	Chromium Single Cell 5' Library & Gel Bead Kit, 16 rxns Contains the reagents for sample partitioning, cell by cell mRNA 5' barcoding and library creation, 16 samples	16	₹ 2,912,000.00
1000167	Chromium Next GEM Single Cell 5' Library and Gel Bead Kit v1.1, 4 rxns Contains the reagents for sample partitioning, cell by cell mRNA 5' barcoding and library creation, 4 samples	4	₹ 800,800.00
1000165	Chromium Next GEM Single Cell 5' Library and Gel Bead Kit v1.1, 16 rxns Contains the reagents for sample partitioning, cell by cell mRNA 5' barcoding and library creation, 16 samples	16	₹ 2,912,000.00
1000020	Chromium Single Cell 5' Library Construction Kit, 16 rxns Contains reagents for cDNA amplification or targeted enrichment and NGS library construction from either 5' whole transcriptome digital gene expression or adaptive immune receptor transcripts.	16	₹ 144,200.00
1000080	Chromium™ Single Cell 5' Feature Barcode Library Kit, 16 rxns	16	₹ 77,000.00
VDJ Enrichment Kit			
1000005	Chromium Single Cell V(D)J Enrichment Kit, Human T Cell, 96 rxns Primers for the enrichment of TCR α and β transcripts in human T cells	96	₹ 36,400.00
1000016	Chromium Single Cell V(D)J Enrichment Kit, Human B Cell, 96 rxns Primers for the enrichment of BCR heavy and light transcripts in human B cells.	96	₹ 36,400.00
1000072	Chromium Single Cell V(D)J Enrichment Kit, Mouse B Cell, 96 rxns Primers for the enrichment of BCR heavy and light chain transcripts in Mouse B cells.	96	₹ 36,400.00
1000071	Chromium Single Cell V(D)J Enrichment Kit, Mouse T Cell, 96 rxns Primers for the enrichment of TCR α and β transcripts in Mouse T cells	96	₹ 36,400.00
Chip			
1000127	Chromium Next GEM Chip G Single Cell Kit, 16 rxns Contains the microfluidic Single Cell chips, gaskets and oil for sample partitioning, cell by cell mRNA barcoding and the recovery agent for coalescing GEMs post barcoding, 16 samples	16	₹ 71,400.00
1000120	Chromium Next GEM Chip G Single Cell Kit, 48 rxns Contains the microfluidic Single Cell chips, gaskets and oil for sample partitioning, cell by cell mRNA barcoding and the recovery agent for coalescing GEMs post barcoding, 48 samples	48	₹ 207,200.00
1000009	Chromium Single Cell A Chip Kit, 16 rxns Contains the microfluidic Single Cell chips, gaskets and oil for sample partitioning, cell by cell mRNA barcoding and the recovery agent for coalescing GEMs post barcoding, 16 samples	16	₹ 71,400.00





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10x Genomics Price List 2019

Product Code	Product Name/Description	# rxns	List Price (INR)
120236	Chromium Single Cell A Chip Kit, 48 rxns Contains the microfluidic Single Cell chips, gaskets and oil for sample partitioning, cell by cell mRNA barcoding and the recovery agent for coalescing GEMs post barcoding, 48 samples	48	₹ 207,200.00
Sample Index			
120262	Chromium i7 Multiplex Kit, 96 rxns Contains sample indices to enable sample multiplexing up to 96-plex on an Illumina sequencer	96	₹ 110,600.00
1000084	Chromium™ i7 Multiplex Kit N Set A, 96 rxns Contains sample indices to enable sample multiplexing up to 96-plex on an Illumina sequencer	96	₹ 110,600.00
Single Cell CNV			
Library & Gel Bead Kit			
1000057	Chromium™ Single Cell DNA Cell Bead Kit, 4 rxns Contains the Single Cell DNA reagents to enable sample partitioning and single cell DNA capture for 4 samples	4	₹ 114,800.00
1000041	Chromium™ Single Cell DNA Library & Gel Bead Kit, 4 rxns Contains the Single Cell DNA reagents to enable molecular barcoding of DNA & library creation for 4 samples	4	₹ 648,200.00
1000056	Chromium Single Cell DNA Cell Bead Kit, 16 rxns Contains the Single Cell DNA reagents to enable sample partitioning and single cell DNA capture for 16 samples	16	₹ 414,400.00
1000040	Chromium Single Cell DNA Library & Gel Bead Kit, 16 rxns Contains the Single Cell DNA reagents to enable molecular barcoding of DNA & library creation for 16 samples	16	₹ 2,307,200.00
Chip			
1000032	Chromium™ Chip C Single Cell DNA Kit, 16 rxns Contains the microfluidic Single Cell DNA chips, gaskets and oil for sample partitioning for creating Cell Beads, 16 samples – 2 chips	16	₹ 71,400.00
1000036	Chromium™ Chip D Single Cell DNA Kit, 8 rxns Contains the microfluidic Single Cell DNA chips, gaskets and oil for barcoding single cell DNA and the recovery agent for coalescing GEMs post barcoding, 8 samples – 2 chips	8	₹ 71,400.00
1000022	Chromium Chip C Single Cell DNA Kit, 48 rxns Contains the microfluidic Single Cell DNA chips, gaskets and oil for sample partitioning for creating Cell Beads, 48 samples	48	₹ 207,200.00
1000042	Chromium Chip D Single Cell DNA Kit, 48 rxns Contains the microfluidic Single Cell DNA chips, gaskets and oil for barcoding single cell DNA and the recovery agent for coalescing GEMs post barcoding, 48 samples	48	₹ 259,000.00
Sample Index			
120262	Chromium i7 Multiplex Kit, 96 rxns Contains sample indices to enable sample multiplexing up to 96-plex on an Illumina sequencer	96	₹ 110,600.00
Accessory			
1000055	Flowmi Filter, 50 rxns Flowmi Filters 70 micron, 50 rxns	50	₹ 23,400.00
1000058	Chromium Single Cell DNA Accessory Kit Chromium Controller Accessory Kit for Single Cell DNA	-	₹ 387,000.00
1000053	10x Chromium Chip D Holder Chromium Controller Accessory for chip and gasket placement for Chip D	-	₹ 283,500.00
1000054	10x Magnetic Separator A 8 strong magnets with 8 tube inlets for Single Cell DNA Product	-	₹ 103,500.00

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10x Genomics Price List 2019

Product Code	Product Name/Description	# rxns	List Price (INR)
1000061	Chromium Single Cell DNA Training Kit Contains cell bead reagents and cell bead chip kit for training new customers on the 10x Genomics Single Cell DNA workflow	-	\$ 182,000.00
Single Cell ATAC			
Library & Gel Bead Kit			
1000176	Chromium Next GEM Single Cell ATAC Library & Gel Bead Kit v1.1, 4 rxns Contains the Single Cell ATAC reagents to enable molecular barcoding of accessible chromatin fragments & library creation for 4 samples	4	\$ 792,400.00
1000175	Chromium Next GEM Single Cell ATAC Library & Gel Bead Kit v1.1, 16 rxns Contains the Single Cell ATAC reagents to enable molecular barcoding of accessible chromatin fragments & library creation for 16 samples	16	\$ 2,884,000.00
1000111	Chromium™ Single Cell ATAC Library & Gel Bead Kit, 4 rxns Contains the Single Cell ATAC reagents to enable molecular barcoding of accessible chromatin fragments & library creation for 4 samples	4	\$ 792,400.00
1000110	Chromium™ Single Cell ATAC Library & Gel Bead Kit, 16 rxns Contains the Single Cell ATAC reagents to enable molecular barcoding of accessible chromatin fragments & library creation for 16 samples	16	\$ 2,884,000.00
Chip			
1000162	Chromium Next GEM Chip H Single Cell Kit, 16 rxns Contains the microfluidic Single Cell chips, gaskets and oil for sample partitioning, cell by cell accessible chromatin fragments barcoding and the recovery agent for coalescing GEMs post barcoding, 16 samples	16	\$ 71,400.00
1000161	Chromium Next GEM Chip H Single Cell Kit, 48 rxns Contains the microfluidic Single Cell chips, gaskets and oil for sample partitioning, cell by cell accessible chromatin fragments barcoding and the recovery agent for coalescing GEMs post barcoding, 48 samples	48	\$ 207,200.00
1000086	Chromium™ Chip E Single Cell ATAC Kit, 16 rxns Contains the microfluidic Single Cell chips, gaskets and oil for sample partitioning, cell by cell accessible chromatin fragments barcoding and the recovery agent for coalescing GEMs post barcoding, 16 samples	16	\$ 71,400.00
1000082	Chromium™ Chip E Single Cell ATAC Kit, 48 rxns Contains the microfluidic Single Cell chips, gaskets and oil for sample partitioning, cell by cell accessible chromatin fragments barcoding and the recovery agent for coalescing GEMs post barcoding, 48 samples	48	\$ 207,200.00
Sample Index			
1000084	Chromium™ i7 Multiplex Kit N Set A, 96 rxns Contains sample indices to enable sample multiplexing up to 96-plex on an Illumina sequencer	96	\$ 110,600.00
Spatial Transcriptomics			
Slides			
1000131	ST Tissue Optimization Slide Contains the ST glass slide array used for optimizing tissue conditions for 6 samples	6	\$ 91,000.00
1000132	ST Library Preparation Slide Contains the ST glass slide array used for spatially barcoding mRNA tissue fragments for 6 samples	6	\$ 273,000.00
1000133	ST Tissue Optimization Reagents Contains the reagents necessary to perform tissue optimization on the TO slide for 12 samples	12	\$ 217,000.00

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[Circular stamp: PREMAS LIFE SCIENCES PVT. LTD.]