Princess Margaret Genomics Centre
101 College Street
PMCRT, Rm 9-601A
Toronto, ON, M5G 1L7

PMGC Sample Submission Form Guidelines for EPI-Genetics Assays (ATAC-seq, Cut&Run, ChIP-seq)

This document contains key information on sample quality standards, general and assay-specific sample submission requirements and shipping information. We strongly encourage you to review this document prior to the submission of your samples to our facility.

We currently offer the following Epi Genomics Assays

Assay Type, Starting Material and Quality	Kit / *Assay Sample Input Range*	Submission Volume/elution buffer:
Bulk ATAC-Seq Starting Material: 1. Fresh cells 2. Cryopreserved/viably frozen cells 3. Frozen Tissue 4. Frozen cell pellet	NEBNext High-Fidelity 2X PCR Master Mix. Illumina Tagment DNA Enzyme and Buffer Small Kit. Quality: > 90% viable cells Input Amount *: 150,000 of viable cells, 30 - 50 mg of tissue. Data output: ~50 M reads/ sample (PE-50)	Input Volume: NA
ChIP-seq (library construction and sequencing) Starting Material: ChIP DNA product + control input DNA	ThruPLEX DNA-Seq Kit (Takara Bio) Quality: DNA fragment size range: 100-500 bp (tested by Bioanalyzer or TapeStation) Input Amount *: concentration > 250 pg/uL Data output: ~50 M reads/ sample (PE-50)	Input Volume: NA
Cut&Run Starting Material: 500K with viability >90% per sample	CUTANA™ ChIC/CUT&RUN Kit (Catalog No. 14-1048)	Input Volume: NA

Wafa Al-Ameri
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Dr. Troy Ketela, Head of Operations
For new project inquires,
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	CUTANA™ CUT&RUN Library Prep Kit (Catalog Nos. 14-1001 & 14-1002) **Two** biological replicates are generally sufficient for robust CUT&RUN profiling. CUT&RUN assays require appropriate controls, **including positive and negative controls** (e.g., H3K4me3 and IgG)	

Sample Drop-off / Shipping

If dropping off samples: Please **schedule your drop off date and time in advance** with your PMGC contact person.

- Your PMGC contact will meet you at the **9th floor elevator lobby** of the Princess Margaret Cancer Research Tower (PMCRT) at your pre-arranged time. PMCRT is the East Tower of the MaRS building, near the corner of College and Elizabeth Street entrance.
- Email or call/text when you are at the designated meeting area and your PMGC contact will come to collect the samples.
- REMINDER: Transport samples using appropriate means of storage (e.g. on dry ice for frozen samples, wet ice for fresh samples). Please confirm with PMGC if any questions.

If shipping samples: Please ship out on **Monday/Tuesday** to prevent weekend delays. Place a generous supply of dry ice to ensure dry ice will remain for the duration of the delivery time. For international clients, we recommend shipping with World Courier. Within Canada, or if shipping DNA/RNA, we recommend FedEX Next Day Priority services.

Shipping address:
University Health Network (UHN)
Attn Wafa Al-Ameri PMCRT Room 9-601A
101 College Street
Toronto, M5G 1L7
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