

# Single Cell Genomics

Application	Cost	Platform/Protocol	Note
Single cell 3' mRNA-Seq cell lysis/RT/library prep	\$2460/Sample	10X Genomics Chromium	500-10,000 cells/sample
Single cell 5' V(D)J mRNA-Seq cell lysis/RT/library prep	\$2510/Sample	10X Genomics Chromium	500-10,000 cells/sample
Single-cell whole transcript mRNA-Seq cell lysis/RT/QC	\$23/cell	Takara Bio SMART-Seq v4	A minimum of 2x96-/1x384-well plates
Single-cell whole transcript mRNA-Seq Library prep and QC	\$10/cell	Takara Bio SMART-Seq v4	A minimum of 2x96-/1x384-well plates
Custom Sequencing for 10X 3' single-cell library	\$3880/sequencing run*	Illumina NextSeq	400M reads; Custom 98bp sequencing
Custom Sequencing for 10X 5' V(D)J single-cell library	\$1820/sequencing run*	Illumina MiSeq	2x15M reads; 2x150bp sequencing
Single-cell whole transcript mRNA-Seq sequencing	\$10/cell \$5.25/cell	Illumina NextSeq	2M reads/cell 1M reads/cell

\* Price includes bioinformatics QC, alignment, quantification and visualization

# Next-Gen Sequencing

Application	Cost*	Sample Minimum	Platform	Read Type	Average Output
mRNA-Seq	\$349/Sample	16	Illumina NextSeq	1x75bp	20M reads
mRNA-Seq	\$379/Sample	4-15	Illumina NextSeq	1x75bp	20M reads
Ultra low-input mRNA-Seq	\$450/Sample	6	Illumina NextSeq	1x75bp	20M reads
miRNA-Seq	\$375/Sample	6	Illumina NextSeq	1x75bp	10M reads
Total RNA-Seq	\$599/Sample	6	Illumina NextSeq	1x75bp	50M reads
Human Whole Genome Sequencing	\$1185/sample	1	Illumina NovaSeq	2x150bp	30X coverage
Human Whole Exome Sequencing	\$540/Sample	4	Illumina HiSeq	2x150bp	100X coverage
16S Microbiome Amplicon-Seq	\$60/Sample**	50	Illumina MiSeq	2x300bp	10K reads
ITS Mycobiome Amplicon-Seq	\$60/Sample**	50	Illumina MiSeq	2x300bp	10K reads

\*Price includes sample QC, library prep, library QC, sequencing and basic bioinformatics quantification.

\*\* Price includes library prep, pooled library QC and sequencing. \$4/sample additional for individual library QC.

Last Updated 6/29/2017

# Sequencing Only

Application	Output	Read type	Cost**	Platform
Sequencing only*	400M reads	1x75bp	\$1870/Sequencing run	Illumina NextSeq
Sequencing only*	2x130M reads	2x75bp	\$1280/Sequencing run	Illumina NextSeq
Sequencing only*	2x400M reads	2x75bp	\$3540/Sequencing run	Illumina NextSeq
Sequencing only*	2x130M reads	2x150bp	\$2170/Sequencing run	Illumina NextSeq
Sequencing only*	2x400M reads	2x150bp	\$5190/Sequencing run	Illumina NextSeq
Sequencing only*	2x15M reads	2x25bp	\$1080/Sequencing run	Illumina MiSeq
Sequencing only*	2x4M reads	2x150bp	\$1175/Sequencing run	Illumina MiSeq
Sequencing only*	2x25M reads	2x300bp	\$2180/Sequencing run	Illumina MiSeq

\*Only pooled libraries accepted. Full runs only (no shared runs).

\*\*Price includes QC of multiplexed library and sequencing. Bioinformatics quantification not included.

# High-Throughput qPCR

Application	Reaction	Cost	Platform
Gene expression	48 (targets*) x 48 (samples)	\$500/Plate	Fluidigm BioMark HD
Gene expression	96 (targets*) x 96 (samples)	\$1400/Plate	Fluidigm BioMark HD
Genotyping	48 (targets*) x 48 (samples)	\$550/Plate	Fluidigm BioMark HD
Genotyping	96 (targets*) x 96 (samples)	\$1100/Plate	Fluidigm BioMark HD
Human/rodent miRNA gene expression panel	745 (genes) x 3 (samples)	\$980/Plate	QuantStudio 12K

\*Primer pairs must be provided.

# Nucleic Acid Fragment Analysis & Quantification

Application	Assay	Range	Cost	Platform
DNA fragment analysis or RNA integrity	DNA or RNA High Sensitivity	50-5000 pg/ $\mu$ l	\$30 for first 2 samples; \$5/sample thereafter	Fragment Analyzer
DNA fragment analysis	DNA Standard Sensitivity	5-100 ng/ $\mu$ l	\$30 for first 2 samples; \$5/sample thereafter	Fragment Analyzer
Genomic DNA fragment analysis	50 Kb Analysis	25-250 ng/ $\mu$ l	\$30 for first 2 samples; \$8/sample thereafter	Fragment Analyzer
DNA fragment analysis	DNA 1000	0.5-50 ng/ $\mu$ l	\$30 for first 2 samples; \$5/sample thereafter	Agilent Bioanalyzer
DNA fragment analysis	DNA High Sensitivity	5-500 pg/ $\mu$ l	\$70 for first 2 samples; \$5/sample thereafter	Agilent Bioanalyzer
RNA integrity	RNA Nano	5-500 ng/ $\mu$ l	\$30 for first 2 samples; \$5/sample thereafter	Agilent Bioanalyzer
RNA integrity	RNA Pico	50-5000 pg/ $\mu$ l	\$70 for first 2 samples; \$5/sample thereafter	Agilent Bioanalyzer
dsDNA quantification	dsDNA	0.2-1000 ng, 1-20 $\mu$ l	\$6/sample	Qubit
ssDNA quantification*	ssDNA	1-200n g, 1-20 $\mu$ l	\$6/sample	Qubit
RNA quantification	RNA	5-100 ng, 1-20 $\mu$ l	\$6/sample	Qubit

\* Also detects dsDNA and RNA. For accurate ssDNA concentration, the dsDNA and RNA assay kits must be used to detect dsDNA and RNA contamination.

# Cell Line Authentication & Mycoplasma Contamination Detection

Application	Type*	Cost
Cell line authentication**	Genomic DNA	\$70/sample
Cell line authentication**	Dried cell pellet	\$90/sample
Cell line authentication	Analysis	\$25/sample
Mycoplasma contamination detection	Genomic DNA	\$70/sample
Mycoplasma contamination detection	Dried cell pellet	\$90/sample

\* Inquire about fresh or frozen cells, or if you wish to do Cell Line Authentication and Mycoplasma Contamination Detection on the same sample.

\*\* Human cell line authentication includes a mouse marker for cross-contamination detection.



# Bioinformatics Analysis & Self-Use Equipment

Service	Cost
RNA-Seq bioinformatics package	\$1000 for first pairwise comparison for internal sequencing (\$1350 for external sequencing); \$600 for any additional comparisons
Custom bioinformatics service	\$125/hour; 8 hour minimum
Custom laboratory service	\$60/hour
ABI QuantStudio 12K Real-Time PCR System	\$20/hour
Eppendorf Vacuum Centrifuge	\$5/hour
Covaris M220 Focused Ultrasonicator	\$4/hour