














BaseSpace® Sequence Hub Apps Quick Guide







Credits are the common currency in which BaseSpace Sequence Hub services are priced. Learn more about [iCredits and billing](#).

Biomedical and Basic Research – Genetic Analysis			
App name	Sequencing application(s)	Key functionality	Vendor
 Amplicon DS Demo Data Link	<ul style="list-style-type: none"> Targeted Resequencing (TruSight Tumor 26 Panel) 	<ul style="list-style-type: none"> Alignment Somatic Variant Calling Annotation 	illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: 4 M reads, 2 x 150 bp cost = 0.70 iCredits/sample
 BWA Aligner Demo Data Link	<ul style="list-style-type: none"> Whole Genome Sequencing Targeted Sequencing 	<ul style="list-style-type: none"> Alignment Custom reference genome Batch processing 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: 100 M reads, 2 x 150 bp cost = 28.10 iCredits/sample
 BWA Enrichment Demo Data Link	<ul style="list-style-type: none"> Targeted Resequencing 	<ul style="list-style-type: none"> Alignment Small Variant Calling Annotation Custom Manifest Files Batch processing 	illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: 30 M reads, 2 x 75 bp cost = 5.28 iCredits/sample
 Cancer Variant Caller Demo Data Link	<ul style="list-style-type: none"> Whole-Genome Sequencing Targeted Resequencing 	<ul style="list-style-type: none"> Variant Calling 	Samsung basespace.qa@samsung.com Compute Cost: 3 iCredits per node/hr License Cost: n/a
 EDGC Annotator	<ul style="list-style-type: none"> Targeted Resequencing 	<ul style="list-style-type: none"> Variant Annotation Variant Analysis 	EONE-DIAGNOMICS Genome Center www.edgc.com/edgcannotator?lang=en Compute Cost: 3 iCredits per node/hr License Cost: n/a
 Enrichment Demo Data Link	<ul style="list-style-type: none"> Targeted Resequencing 	<ul style="list-style-type: none"> Alignment Small Variant Calling Somatic Variant Calling SV/CNV Calling Annotation Custom Manifest Files Batch processing 	illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: TruSeq Exome (200x mean coverage) 60 M reads, 2 x 75 bp cost = 6.76 iCredits/sample






Biomedical and Basic Research – Genetic Analysis (continued)

App name	Sequencing application(s)	Key functionality	Vendor
 GeneTalk Variant Analyzer	<ul style="list-style-type: none"> Targeted Resequencing 	<ul style="list-style-type: none"> Variant Annotation Variant Analysis 	GeneTalk www.gene-talk.de Compute Cost: Free License Cost: n/a
 LoFreq Rare Variant Caller Demo Data Link	<ul style="list-style-type: none"> Targeted Resequencing Oncology 	<ul style="list-style-type: none"> Variant Caller 	Genome Institute of Singapore www.gisapps.org/lofreqbs/contact.htm Compute Cost: 3 iCredits per node/hr License Cost: - 1 iCredit per 10 GB of input file - 4 iCredits for 30–39 GB - 5 iCredits 40–49 GB - etc.
 Melanoma Profiler	<ul style="list-style-type: none"> Targeted Resequencing Oncology 	<ul style="list-style-type: none"> Variant Analysis Tumor Normal 	Biomatters Ltd. apps.biomatters.com/melanoma-profiler/welcome Compute Cost: Free
 mtDNA Variant Analyzer Demo Data Link	<ul style="list-style-type: none"> Targeted Resequencing mtDNA Profiling Forensics 	<ul style="list-style-type: none"> Visualizatoin Variant Analysis 	Illumina, Inc. Compute Cost: Free License Cost: n/a
 mtDNA Variant Processor Demo Data Link	<ul style="list-style-type: none"> Targeted Resequencing mtDNA Profiling Forensics 	<ul style="list-style-type: none"> mtDNA Variant Calling 	Illumina, Inc. Compute Cost: Free License Cost: n/a
 MutationForecaster	<ul style="list-style-type: none"> RNA-Seq Variant Analysis 	<ul style="list-style-type: none"> Interpret and validate mutations that affect mRNA splicing and protein coding 	Cytognomix Inc. basespace.mutationforecaster.com Compute Cost: Free License Cost: - 1 Day Subscription: 75 iCredits - 7 Day Subscription: 125 iCredits
 MyFLq Demo Data Link	<ul style="list-style-type: none"> Forensics 	<ul style="list-style-type: none"> STR and SNP query 	University Ghent forensic.ugent.be Compute Cost: 3 iCredits per node/hr License Cost: n/a

Biomedical and Basic Research – Genetic Analysis (continued)

App name	Sequencing application(s)	Key functionality	Vendor
 <p>Novoalign Generic DNA pipeline Demo Data Link</p>	<ul style="list-style-type: none"> • Resequencing 	<ul style="list-style-type: none"> • Alignment • Variant Calling 	<p>Novocraft www.novocraft.com/products/novoalign Compute Cost: 3 iCredits per node/hr</p>
 <p>NuGEN Ovation Target Enrichment Demo Data Link</p>	<ul style="list-style-type: none"> • Targeted Resequencing 	<ul style="list-style-type: none"> • Demultiplexing • Alignment 	<p>NuGEN Technologies, Inc. www.nugen.com Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>Phy-Mer</p>	<ul style="list-style-type: none"> • Mitochondrial Analysis 	<ul style="list-style-type: none"> • Haplogroup Analysis 	<p>MEEI Bioinformatics Center (MBC) github.com/danielnavarrogomez/phy-mer Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>TruSeq® Amplicon Demo Data Link</p>	<ul style="list-style-type: none"> • Targeted Resequencing 	<ul style="list-style-type: none"> • Alignment • Small Variant Calling • Somatic Variant Calling • Annotation • Custom Manifest Files • Batch processing 	<p>Illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: TruSight Myeloid Panel (5000x mean coverage) 2.35 M reads, 2 x 150 bp cost = 0.78 iCredits/sample</p>
 <p>TruSeq Long-Read Assembly Demo Data Link</p>	<ul style="list-style-type: none"> • TruSeq Synthetic Long Reads 	<ul style="list-style-type: none"> • Assembly of synthetic long reads • Phasing Analysis 	<p>Illumina, Inc. Compute Cost: Free License Cost: n/a</p>
 <p>TruSeq Phasing Analysis Demo Data Link</p>	<ul style="list-style-type: none"> • Genetic Analysis • Haplotype Resolution 	<ul style="list-style-type: none"> • Phasing Analysis 	<p>Illumina, Inc. Compute Cost: Free License Cost: n/a</p>






Biomedical and Basic Research – Genetic Analysis (continued)

App name	Sequencing application(s)	Key functionality	Vendor
 <p>TruSight Tumor 15 Demo Data Link</p>	<ul style="list-style-type: none"> Targeted Resequencing (TruSight Tumor 15 Panel) 	<ul style="list-style-type: none"> Alignment Variant Calling 	<p>Illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: TruSight Tumor 15 Panel (5000x mean coverage) 733 K reads, 2 x 150 bp cost = 0.35 iCredits/sample</p>
 <p>TruSight Tumor 170</p>	<ul style="list-style-type: none"> Targeted Resequencing (TruSight Tumor 170 Panel) 	<ul style="list-style-type: none"> Variant Calling SV/CNV Calling RNA Fusion Calling 	<p>Illumina, Inc. Compute Cost: Free License Cost: n/a</p>
 <p>Tumor Normal Demo Data Link</p>	<ul style="list-style-type: none"> Whole Genome Sequencing 	<ul style="list-style-type: none"> Variant Calling SV/CNV Calling Annotation Tumor Normal Analysis 	<p>Illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: Whole Genome (80x Tumor/40x Normal mean coverage) 1.8 B reads, 2 x 100 bp cost = 92.88 iCredits/pair of samples</p>
 <p>Whole Genome Sequencing Demo Data Link</p>	<ul style="list-style-type: none"> Whole Genome Sequencing 	<ul style="list-style-type: none"> Alignment Small Variant Calling SV/CNV Calling Annotation Batch Processing 	<p>Illumina, Inc. Compute Cost: 3iCredits per node/hr License Cost: n/a Whole Genome (30x mean coverage) 300 M reads, 2 x 150 bp cost = 9–12 iCredits/sample depending on sample quality</p>
 <p>CrossMap Demo Data Link</p>	<ul style="list-style-type: none"> Data conversion 	<ul style="list-style-type: none"> Converts genome coordinates between different assemblies 	<p>BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>





Data Handling, Data Quality Control (QC), and Data Visualization

App name	Sequencing application(s)	Key functionality	Vendor
 Elastic Genome Browser	<ul style="list-style-type: none"> • Resequencing (human) 	<ul style="list-style-type: none"> • Genome Browser • Visualizations 	Strand Life Sciences www.strandls.com Compute Cost: Free License Cost: n/a
 FASTA Upload	<ul style="list-style-type: none"> • Data Import 	<ul style="list-style-type: none"> • Import FASTA files 	BioBam Bioinformatics S.L. www.biobam.com/basespaceapps Compute Cost: Free License Cost: n/a
 FASTQ Toolkit	<ul style="list-style-type: none"> • FASTQ Manipulation 	<ul style="list-style-type: none"> • Sub-sampling • Adapter Trimming • Base Trimming • Quality Trimming • Read Filtering 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a
 FASTQC Demo Data Link	<ul style="list-style-type: none"> • Data QC 	<ul style="list-style-type: none"> • Base QC Profile 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a
 Genome Profiler	<ul style="list-style-type: none"> • Resequencing (human) 	<ul style="list-style-type: none"> • Genome Browser • Visualizations 	Biomatters Ltd. apps.biomatters.com/melanoma-profiler/welcome Compute Cost: Free License Cost: n/a
 Integrative Genomics Viewer	<ul style="list-style-type: none"> • Whole Genome Sequencing • Targeted Resequencing • ChIP-Seq • RNA-Seq 	<ul style="list-style-type: none"> • Genome Browser • Visualizations 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: Free License Cost: n/a
 SRA Import	<ul style="list-style-type: none"> • Data Import • General NGS 	<ul style="list-style-type: none"> • Imports NGS data from NCBI Sequence Read Archive to BaseSpace Sequence Hub using SRA accession number 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a
 SRA Submission	<ul style="list-style-type: none"> • Data Export • General NGS 	<ul style="list-style-type: none"> • Submission of data to NCBI SRA 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a






Data Handling, Data Quality Control (QC), and Data Visualization (continued)

App name	Sequencing application(s)	Key functionality	Vendor
 USC BigWig Generator Demo Data Link	<ul style="list-style-type: none"> Data Conversion 	<ul style="list-style-type: none"> Convert data to BigWig file format 	Ramsingh Lab Keck-Hematology github.com/RamsinghLab Compute Cost: 3 iCredits per node/hr License Cost: n/a
 Variant Calling Assessment Tool Demo Data Link	<ul style="list-style-type: none"> Data QC 	<ul style="list-style-type: none"> Comparison of variant call sets SNV and Indel statistics 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a
Gene Expression and Regulation			
App name	Sequencing application(s)	Key functionality	Vendor
 ChIPSeq Demo Data Link	<ul style="list-style-type: none"> DNA-Protein Interactions ChIPSeq 	<ul style="list-style-type: none"> Uses MACS for peak identification and HOMER for motif discovery 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a
 Cufflinks Assembly & DE Demo Data Link	<ul style="list-style-type: none"> Transcriptome Mining Gene Expression 	<ul style="list-style-type: none"> Assembly of novel transcripts Differential Expression 	Illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: mRNA: 25 M reads, 2 x 75 bp cost = 11.25 iCredits/sample total RNA: 50 M reads, 2 x 75 bp cost = 23.49 iCredits/sample
 DESeq2 Demo Data Link	<ul style="list-style-type: none"> Transcriptome Mining Gene Expression 	<ul style="list-style-type: none"> Differential Expression 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: mRNA: 25 M reads, 2 x 75 bp cost = 37.64 iCredits/sample totalRNA: 50 M reads, 2 x 75 bp cost = 75.28 iCredits/sample




Gene Expression and Regulation (continued)

App name	Sequencing application(s)	Key functionality	Vendor
 <p>Genomatix Pathway System (GePS) Demo Data Link</p>	<ul style="list-style-type: none"> • Transcriptome • ChIP-Seq • Methyl-Seq • Oncology 	<ul style="list-style-type: none"> • Pathway Analysis • Genomatix 	<p>Genomatix www.genomatix.de Compute Cost: Free License Cost: 7 Day Subscription: 70 iCredits</p>
 <p>iPathwayGuide</p>	<ul style="list-style-type: none"> • Transcriptome • Proteomics 	<ul style="list-style-type: none"> • Pathway Analysis 	<p>Advaita Bio www.advaitabio.com Compute Cost: Free License Cost: - Single Report: 149 iCredits - Annual Subscription: 1995 iCredits</p>
 <p>MethylKit Demo Data Link</p>	<ul style="list-style-type: none"> • Methylation Profiling • Whole Genome Sequencing • Targeted Sequencing 	<ul style="list-style-type: none"> • Analyze WGBS and targeted bisulfite sequencing data 	<p>BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>MethylSeq</p>	<ul style="list-style-type: none"> • Whole Genome Sequencing • Targeted Resequencing • ChIP-Seq • RNA-Seq 	<ul style="list-style-type: none"> • Alignment • Methylation Calling • Custom manifests • Custom Genome • Batch Processing 	<p>Illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: TruSeq Methyl Capture 55 M reads, 2 x 100 bp cost = 19.53 iCredits/sample</p>
 <p>miRNAs Analysis Demo Data Link</p>	<ul style="list-style-type: none"> • Small RNA sequencing • miRNA Profiling 	<ul style="list-style-type: none"> • Alignment • Differential Expression 	<p>B&Gu @ University of Torino mirnasanalysisbasespaceapp.blogspot.it Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: 5 M reads, 1 x 50 bp cost = 0.78 iCredits/sample</p>
 <p>NextBio Annotates RNA-Seq Demo Data Link</p>	<ul style="list-style-type: none"> • Transcriptome • Gene Expression 	<ul style="list-style-type: none"> • Gene Annotation using BaseSpace Correlation Engine 	<p>BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>NuGEN Ovation Fusion Detection Demo Data Link</p>	<ul style="list-style-type: none"> • Targeted RNA-Seq 	<ul style="list-style-type: none"> • Alignment • Fusion Detection 	<p>NuGEN Technologies, Inc. www.nugen.com Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>







Gene Expression and Regulation (continued)

App name	Sequencing application(s)	Key functionality	Vendor
 <p>RNA Express Demo Data Link</p>	<ul style="list-style-type: none"> • Transcriptome Mining • Gene Expression 	<ul style="list-style-type: none"> • Assembly of novel transcripts with STAR • Differential Expression with DESeq 	<p>Illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: mRNA: 25 M reads, 2 x 75 bp cost = 2.28 iCredits/sample totalRNA: 50 M reads, 2 x 75 bp cost = 4.55 iCredits/sample</p>
 <p>RNA-Seq Alignment Demo Data Link Demo Data Link Demo Data Link</p>	<ul style="list-style-type: none"> • Transcriptome Mining • Gene Expression 	<ul style="list-style-type: none"> • Alignment (STAR or TopHat) • Gene Counts • Transcripts Counts • Annotation • Variant Calling • Fusion Detectin • Novel Transcript Assembly • Batch Processing 	<p>Illumina, Inc. 1.8 License Cost: n/a Example Compute Cost: mRNA: 25 M reads, 2 x 75 bp cost = 6.02 iCredits/sample totalRNA: 50 M reads, 2 x 75 bp cost = 12.04 iCredits/sample</p>
 <p>Small RNA Demo Data Link</p>	<ul style="list-style-type: none"> • Small RNA sequencing • miRNA Profiling 	<ul style="list-style-type: none"> • Alignment • Classification of miRNAs, isomiRs, and piRNAs • Novel miRNA & pre-miRNA discovery • Differential Expression • Batch processing 	<p>Illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>SureCell RNA Single-Cell Demo Data Link Demo Data Link</p>	<ul style="list-style-type: none"> • Transcriptome Mining • Gene Expression 	<ul style="list-style-type: none"> • Cell Counts • Alignment • Gene Counts • Cell Filtering • Transcripts Counts • Reporting 	<p>Illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: 1000 cells, 100 K reads/cell 100 M reads, 1 x 75 bp cost = 8.15 iCredits/sample</p>
 <p>TruSeq Targeted RNA Demo Data Link</p>	<ul style="list-style-type: none"> • Targeted Gene Expression 	<ul style="list-style-type: none"> • Gene Expression 	<p>Illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>







Microbial Genomics and Metagenomics

App name	Sequencing application(s)	Key functionality	Vendor
 <p>16S Metagenomics Demo Data Link</p>	<ul style="list-style-type: none"> 16S rRNA Microbial Communities Profiling 	<ul style="list-style-type: none"> Taxonomic classification of microbial communities Batch processing 	<p>Illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: 100 K reads, 2 x 300 bp cost = 1.28 iCredits/sample</p>
 <p>DeepChek®-HBV Demo Data Link</p>	<ul style="list-style-type: none"> Viral Typing: <ul style="list-style-type: none"> - HBV - HCV - HIV 	<ul style="list-style-type: none"> Viral Typing Drug Resistance 	<p>ABL S.A. ablsa.com/diagnostic-solutions/deepchek-assays Compute Cost: Free License Cost: 40 iCredits</p>
 <p>DeepChek®-HCV Demo Data Link</p>	<ul style="list-style-type: none"> Viral Typing: <ul style="list-style-type: none"> - HBV - HCV - HIV 	<ul style="list-style-type: none"> Viral Typing Drug Resistance 	<p>ABL S.A. ablsa.com/diagnostic-solutions/deepchek-assays Compute Cost: Free License Cost: 45 iCredits</p>
 <p>DeepChek®-HIV Demo Data Link</p>	<ul style="list-style-type: none"> Viral Typing: <ul style="list-style-type: none"> - HBV - HCV - HIV 	<ul style="list-style-type: none"> Viral Typing Drug Resistance 	<p>ABL S.A. ablsa.com/diagnostic-solutions/deepchek-assays Compute Cost: Free License Cost: 65 iCredits</p>
 <p>GENIUS Metagenomics: Know Now Demo Data Link</p>	<ul style="list-style-type: none"> Metagenomics 	<ul style="list-style-type: none"> Bacterial ID 	<p>CosmosID www.cosmosid.com/basespace-landing Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>IgReC Demo Data Link</p>	<ul style="list-style-type: none"> Targeted Sequencing RNA-Seq Immunology 	<ul style="list-style-type: none"> Reconstitutes full-length adaptive immune repertoires from Rep-Seq data Alignment 	<p>Center for Algorithmic Biotech. yana-safonova.github.io/ig_repertoire_constructor igtools_support@googlegroups.com Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>Kraken Metagenomics Demo Data Link</p>	<ul style="list-style-type: none"> Shotgun Metagenomics 	<ul style="list-style-type: none"> Host DNA Removal Taxonomic Classification 	<p>BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: 4 M reads, 2 x 300 bp cost = 1.16 iCredits/sample 40 M reads, 2 x 300 bp cost = 11.16 iCredits/sample</p>







Microbial Genomics and Metagenomics (continued)

App name	Sequencing application(s)	Key functionality	Vendor
 <p>MetaPhlan Demo Data Link</p>	<ul style="list-style-type: none"> • Metagenomics 	<ul style="list-style-type: none"> • Phylogenetic Analysis 	<p>The Huttenhower Lab huttenhower.sph.harvard.edu/metaphlan Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>MiXCR Immune Repertoire Analyzer Demo Data Link</p>	<ul style="list-style-type: none"> • Targeted Sequencing • RNA-Seq • Immunology 	<ul style="list-style-type: none"> • Alignment • Visualization 	<p>MILaboratory milaboratory.com support@milaboratory.com Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>PEDANT™ SequenceAnalyzer Demo Data Link</p>	<ul style="list-style-type: none"> • Microbial 	<ul style="list-style-type: none"> • Bacterial Sequence Analysis 	<p>Biomax Informatics AG http://www.biomax.com/product/pedant-pro-sequence-analysis-suite Compute Cost: Free License Cost: - 15 KB - 2 iCredits</p>
 <p>Prokka Genome Annotation Demo Data Link</p>	<ul style="list-style-type: none"> • Microbial 	<ul style="list-style-type: none"> • Prokaryotic Genome Annotation 	<p>BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>QIIME Preprocessing Demo Data Link</p>	<ul style="list-style-type: none"> • Microbiome Analysis 	<ul style="list-style-type: none"> • Taxonomic classification of microbial communities • Phylogenetic reconstruction • Batch processing 	<p>QIIME Development Team qiime.org Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: 100 K reads, 2 x 300 bp cost = 0.04 iCredits/sample</p>
 <p>QIIME Visualizations Demo Data Link</p>	<ul style="list-style-type: none"> • Microbiome Analysis 	<ul style="list-style-type: none"> • Visualization 	<p>QIIME Development Team qiime.org Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: 100 K reads, 2 x 300 bp cost = 0.71 iCredits/sample</p>



Microbial Genomics and Metagenomics (continued)

App name	Sequencing application(s)	Key functionality	Vendor
 Rescaf	<ul style="list-style-type: none"> • Microbial 	<ul style="list-style-type: none"> • Improves quality of scaffold sequences 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a
 SEAR: Antibiotic Resistance Demo Data Link	<ul style="list-style-type: none"> • Metagenomics • Microbiome 	<ul style="list-style-type: none"> • Construct Antimicrobial Resistance Genes 	University of Cambridge github.com/will-rowe/SEAR Compute Cost: 3 iCredits per node/hr License Cost: n/a
 SPAdes Genome Assembler Demo Data Link	<ul style="list-style-type: none"> • Microbial 	<ul style="list-style-type: none"> • <i>De novo</i> Assembly 	Algorithmic Biology Lab cab.spbu.ru/spades Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: 5 MB genome with 100x coverage 833 K reads, 2 x 300 bp cost = 7.30 iCredits/sample
 SRST2 Demo Data Link Demo Data Link	<ul style="list-style-type: none"> • Microbial ID 	<ul style="list-style-type: none"> • MLST Typing 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a
 String Graph Assembler Demo Data Link	<ul style="list-style-type: none"> • Mid-size Genome Assembler 	<ul style="list-style-type: none"> • Assembly 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a
 Velvet de novo Assembly Demo Data Link	<ul style="list-style-type: none"> • Microbial 	<ul style="list-style-type: none"> • <i>de novo</i> Assembly 	BaseSpace Labs basespacelabs@illumina.com Compute Cost: 3 iCredits per node/hr License Cost: n/a Example Compute Cost: 5 MB genome with 100x coverage 833 K reads, 2 x 300 bp cost = 1.53 iCredits/sample


Proteomics

App name	Sequencing application(s)	Key functionality	Vendor
 <p>OpenSWATH Demo Data Link</p>	<ul style="list-style-type: none"> • Mass Spec • Proteomics 	<ul style="list-style-type: none"> • Protein Analysis 	<p>Aebersold Group @ ETH Zurich www.openswath.org Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>OpenSWATH Assay Generator Demo Data Link</p>	<ul style="list-style-type: none"> • Mass Spec • Proteomics 	<ul style="list-style-type: none"> • Protein Analysis 	<p>Aebersold Group @ ETH Zurich www.openswath.org Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>Protein Expression Assembler Demo Data Link</p>	<ul style="list-style-type: none"> • Mass Spec • Proteomics 	<ul style="list-style-type: none"> • Protein Analysis 	<p>SCIEX sciex.com swathcloudsupport@sciex.com Compute Cost: Free License Cost: n/a</p>
 <p>Protein Expression Extractor Demo Data Link</p>	<ul style="list-style-type: none"> • Mass Spec • Proteomics 	<ul style="list-style-type: none"> • Protein Analysis 	<p>SCIEX sciex.com swathcloudsupport@sciex.com Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>Protein Expression Workflow Demo Data Link</p>	<ul style="list-style-type: none"> • Mass Spec • Proteomics 	<ul style="list-style-type: none"> • Protein Analysis 	<p>SCIEX sciex.com swathcloudsupport@sciex.com Compute Cost: Free License Cost: n/a</p>
 <p>RNA-Seq Translator</p>	<ul style="list-style-type: none"> • Proteomics • RNA-Seq 	<ul style="list-style-type: none"> • Uses <i>de novo</i> transcriptome assembly to generate protein sequences 	<p>Yale University rob.kitchen@yale.edu Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>

Proteomics (continued)

App name	Sequencing application(s)	Key functionality	Vendor
 <p>SWATH to MRM Builder Demo Data Link</p>	<ul style="list-style-type: none"> • Small RNA sequencing • miRNA Profiling 	<ul style="list-style-type: none"> • Alignment • Classification of miRNAs, isomiRs, and piRNAs • Novel miRNA & pre-miRNA discovery • Differential Expression • Batch processing 	<p>Illumina, Inc. Compute Cost: 3 iCredits per node/hr License Cost: n/a</p>
 <p>SWATHAtlas Ion Library Generator</p>	<ul style="list-style-type: none"> • Proteomics 	<ul style="list-style-type: none"> • Protein Analysis 	<p>Institute for Systems Biology www.swathatlas.org Compute Cost: Free License Cost: n/a</p>

Quality

App name	Sequencing application(s)	Key functionality	Vendor
 <p>PicardSpace Demo Data Link</p>	<ul style="list-style-type: none"> • Data QC 	<ul style="list-style-type: none"> • Calculates alignment metrics 	<p>BaseSpace Labs basespacelabs@illumina.com Price: Free for .bam < 1 Compute Cost: Free Compute Cost: Free MB 1 iCredit for .bam > 1 Compute Cost: Free Compute Cost: Free MB License Cost: n/a</p>