

Create a new history by clicking on the Gear
in top-right corner. Name the history
appropriately for your analysis.

system status



Your

Hap

0 by



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D

HISTORY LISTS

Saved Histories

Histories Shared with Me

CURRENT HISTORY

Create New

Copy History

Copy Datasets

Share or Publish

Extract Workflow


Dataset Security

Resume Paused Jobs

Collapse Expanded Datasets

Include Deleted Datasets

Include Hidden Datasets

 globus genomics | Galaxy

Analyze DataWorkflowShared DataVisualization

Import 3 library files from "Variant Caller Library Files"

Data Libraries

search dataset name, info, message, dbkey

Advanced Search

Data library name ↓	Data library description
API TEST LIBRARY	API data to use with the API test workflow
Reference Data Library	
Variant Caller Library Files	All required reference files for the Haplotype Variant Caller workflow

Data Libraries

Published Histories

Published Workflows

Published Visualizations

Published Pages



Data Library "Variant Caller Library Files"

☐ Name

☒ 1000G_phase1.indels.hg19.vcf ▼

☒ dbSNP_132.hg19.vcf ▼

☒ Mills_and_1000G_gold_standard.indels.hg19.vcf ▼

Select these three files and "Import to Current History" and click on Go

For selected datasets: Import to current history



Go



Published Workflows

[Advanced Search](#)

Import the workflow from Published Workflows.

Click on the workflow you need and select "Import Workflow."

That adds the workflow into your account.

Data Libraries

Published Histories

Published Workflows

Published Visualizations

Published Pages

Name	Annotation	Owner
Variant Calling with GATK3.1.1 Haplotype Caller		sulakne
Variant Calling with GATK3.1.1 Haplotype Caller - Without Transfers		sulakhe
Illumina Complete Exome Analysis Pipeline		sulakhe
Illumina ChIP-seq Analysis		sulakhe
Illumina RNA-seq Analysis		sulakhe



Your workflows

Name

Variant Calling with GATK3.1.1

imported: Illumina Complete E

Illumina Complete Exome Ana

Illumina ChIP-seq Analysis ▼

Illumina RNA-seq Analysis ▼

API batch test workflow ▼

Georgetown-WholeGenome-7

Georgetown - Illumina RNA-seq Analysis ▼

Edit

Run

Share or Publish

Download or Export

Submit via API batch mode

Copy

Rename

View

Delete

Run the workflow by going to "Workflow" tab and select
"Variant Calling with GATK3.1.1 Haplotype Caller" and click

Run

Tools

search tools

MATERIAL SCIENCE

DATA TRANSFER

[Globus Data Transfer](#)

[Get Data](#)

[Send Data](#)

NGS APPLICATIONS

[NGS: QC and manipulation](#)

[NGS: Mapping](#)

[NGS: Mapping QC](#)

[NGS: RNA Analysis](#)

[NGS: Peak Calling](#)

[NGS: SAM Tools](#)

[NGS: BAM Tools](#)

[NGS: Picard](#)

[NGS: Indel Analysis](#)

[NGS: GATK Tools](#)

[NGS: GATK2 Tools](#)

[NGS: GATK3 Tools](#)

[NGS: Variant Detection](#)

[NGS: Interval Tools](#)

[NGS: VCF Tools](#)

[NGS: CGA Tools](#)

[NGS: Simulation](#)

[SNP/WGA: Data; Filters](#)

[SNP/WGA: QC; LD; Plots](#)

[SNP/WGA: Statistical Models](#)

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DATA MANIPULATION

[ENCODE Tools](#)

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[Filter and Sort](#)

[Join, Subtract and Group](#)

[Convert Formats](#)

[Extract Features](#)

[Fetch Sequences](#)

[Fetch Alignments](#)

[Get Genomic Scores](#)

[Operate on Genomic Intervals](#)

Running workflow "Variant Calling with GATK3.1.1 Haplotype Caller"Expand AllCollapse

Step 1: Get Data via Globus Online (version 1.0.0)

Provide the Globus Endpoint name and Path to the input file on the endpoint.

None

None

None

None

None

Source Endpoint

sulakhe#testS3dobynsbucket

Source Path

/newfolder/Exome-Sample_Forward_1.fastqsanger

None

None

Deadline (In minutes)

120

Provide your S3 endpoint and path to the input file in Step 1 and Step 2. (example shown)

Actions:

Hide this dataset.

Rename output 'out_file1' to 'Forward FASTQ'.

Set the datatype of output 'out_file1' to 'fastqsanger'

Step 2: Get Data via Globus Online (version 1.0.0)

Provide the Globus Endpoint name and Path to the input file on the endpoint.

None

None

None

None

None

Source Endpoint

sulakhe#testS3dobynsbucket

Source Path

/newfolder/Exome-Sample_Reverse_2.fastqsanger

None

None

Your History

Haplotype-with-Transfer

4.7 GB

3: Mills_and_1000G_gold_standard.indels.hg19.vcf

2: dbsnp_132.hg19.vcf

1: 1000G_phase1.indels.hg19.vcf



Tools



MATERIAL SCIENCE

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NGS APPLICATIONS

[NGS: QC and manipulation](#)[NGS: Mapping](#)[NGS: Mapping QC](#)[NGS: RNA Analysis](#)[NGS: Peak Calling](#)[NGS: SAM Tools](#)[NGS: BAM Tools](#)[NGS: Picard](#)[NGS: Indel Analysis](#)[NGS: GATK Tools](#)[NGS: GATK2 Tools](#)[NGS: GATK3 Tools](#)Step 3: Input dataset

Mills Indels

Step 4: Input dataset

1000G indels

Step 5: Input dataset

dbSNP

Step 6: Map with BWA-MEM (version 0.7.10)

Select appropriate Indels and
dbSnp files for Step 3, 4, 5 from
the history

Your History



Haplotype-with-Transfer

4.7 GB



3: Mills_and_1000G_gold_standard.indels.hg19.vcf

2: dbsnp_132.hg19.vcf

1: 1000G_phase1.indels.hg19.vcf

Step 8: Add or Replace Groups (version 1.56.0)

SAM/BAM dataset to add or replace read groups in

Output dataset 'output' from step 7

Read group ID (ID tag)

Read group sample name (SM tag)

Read group library (LB tag)

Provide Add or Replace Groups parameters. If you don't know the correct params, use "Test" for now as show here.

Read group platform (PL tag)

Read group platform unit

Specify additional (optional) arguments

Use pre-set defaults

Output bam instead of sam

True

Tools

MATERIAL SCIENCE

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NGS APPLICATIONS

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[SNP/WGA: Data; Filters](#)

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DATA MANIPULATION

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Step 14: Haplotype Caller (version 3.1.1)

Covariates table recalibration file

Selection is Optional ▾

Choose the source for the reference list

Locally cached

BAM file

Output dataset 'output_bam' from step 13

Using reference genome

hg19 (value not yet validated)

Basic or Advanced GATK options

Basic

Basic or Advanced Analysis options

Advanced

Mode for emitting experimental reference confidence scores

GVCF

activeRegionIn

Selection is Optional ▾

activeRegionOut

False

Annotation Types

None

Additional annotations

Annotation Interfaces/Groups

Annotations to exclude

None

comp

Selection is Optional ▾

contamination_fraction_to_filter

0.05

dbSNP

2: dbSNP_132.hg19.vcf ▾

debug

Select dbSNP file in Step 14 (Haplotype Caller)