

**A**

Browser Single cell chromatin accessibility data Trait or disease data

Metadata: Sample ID Metadata: Cell type

Tissue type	Sample ID	Tissue type	Health type Description	Cell count
Heart	sample_id_1	Skin	Basal cell carcinoma (BCC)	36721
Health type	sample_id_3	PBMC	Healthy blood development	32457
Disease	...	...	...	...

Tissue type	Trait ID	Type	Trait Description
Category	trait_id_1	disease	Atopic dermatitis
Subcategory	trait_id_55	indicator	Monocyte
Source cohort	...	...	...

**B**

Sample overview

Sample ID: sample\_id\_3  
Tissue type: PBMC  
Cell type count: 26  
Cell count: 32457  
GSE ID: GSE139369  
PMID: 31792411, ...  
Genome: hg19  
...

Proportion of cell type

Cell Type	Proportion
01_HSC	~1%
02_Early.Eryth	~1%
03_Early.Eryth	~1%
04_Early.Baso	~1%
05_CMP.LMP	~1%
06_CLP.1	~1%
07_GMP	~1%
08_GMP.Neut	~1%
09_pDC	~1%
10_CD8.N	~1%
11_CD14.Mono.1	~1%
12_CD14.Mono.2	~1%
13_Unk	~1%
14_Unk	~1%
15_CLP.2	~1%
16_Pre.B	~1%
17_B	~1%
18_Plasma	~1%
19_CD8.N	~1%
20_CD4.N1	~1%
21_CD4.N2	~1%
22_CD4.M	~1%
23_CD8.EM	~1%
24_CD8.CM	~1%
25_NK	~1%
26_Unk	~1%

**C**

Fine-mapping result overview

Trait ID: trait\_id\_55  
Genome: hg19  
Trait Description: Monocyte  
ICD10: -  
Variant count: 3897  
Data source link: [View](#)

Chromosome count	Trait information
chr1	rs75963851 0.99998 ...
chr2	rs2292980 0.99983 ...
chr3	rs60984404 0.99973 ...
chr4	...
chr5	...
chr6	...
chr7	...
chr8	...
chr9	...
chr10	...
chr11	...
chr12	...
chr13	...
chr14	...
chr15	...
chr16	...
chr17	...
chr18	...
chr19	...
chr20	...
chr21	...
chr22	...
chrX	...

**D**

Traits/diseases enriched with sample\_id\_3

Method: SCAVENGE Search: Monocyte

Enriched traits	No enriched traits	
...	...	
trait_id_55	Mono	Monocyte
trait_id_6692	MC_AT690	Monocyte count
...	...	...

**E**

Trait- or disease-relevant cell scores

Cell count: 40% Trait: Monocyte

Scatter plot showing TRS (Trait- or disease-relevant score) for various cell types. A color scale from 0 to 14 is shown on the right.

Scatter plot showing TRS for Monocyte cell types. A color scale from 0 to 5 is shown on the right.

**F**

Differential genes

Gene set: GO (Biological process)  
Cell type: 11\_CD14.Mono.1 P value: ≤ 0.05

Bar chart showing Odds ratio for different biological processes.

**G**

Gene hub regulatory network

Cell type: 11\_CD14.Mono.1 Top count: 5000 All: Core:

Gene (Difference):

- Number of SNPs: 1
- P value: ≤ 1.0E-2
- Adjusted p value: ≤ 1.0E-2
- |Log2(Fold change)|: ≥ 1

Network diagram showing gene hubs (red circles) and their interactions with other genes (blue circles).

**H**

TF hub regulatory network

Cell type: 11\_CD14.Mono.1 All: Core:

TF (HOMER):

- P value: ≤ 0.05
- Q value: ≤ 0.05

TF (Difference):

- P value: ≤ 0.05
- Adjusted p value: ≤ 0.05
- |Log2(Fold change)|: ≥ 0.5

Network diagram showing TF hubs (red circles) and their interactions with other genes (blue circles).

**I**

Search

- Search by gene
- Search by category or source cohort
- Search by TF
- Search by tissue type or cell type
- Search by SNP

**J**

Analyzing

- Analyzing variant-to-function mapping
- Analyzing variant-to-function mapping with genes
- Analyzing variant-to-function mapping with TFs

**K**

Download

- Download trait/disease-relevant cell score (TRS) data
- Download fine-mapping result data
- Download other data