

1

Cell Ranger

2

Sample QC

3

Data Process

4

Cluster

5

Cell Annotation

Cell Ranger

* Email

Please enter

Analysis name

Please enter

* Species

Please choose

* Tissue

Please choose

New job

Example

QC filter

min nCount_RNA

200

min nFeaturer_RNA

2000

min percent.mt

0

min percent.pt

0

max nCount_RNA

8000

max nFeaturer_RNA

5500

max percent.mt

0

max percent.pt

0

Data Process

Normalize Data

selection.method

vst

nfeatures

200

* n_jobs

10

* max_value

10

FindVariableFeatures Data

* min_mean

0.0125

* max_mean

3

* n_neighbors

* n_pcs

50

Scale Data

Neighbor Data

Data1

* Sample Name

Please enter

* R1

L1

* R2

L2

Drop file here or [click to upload](#)

Drop file here or [click to upload](#)

Drop file here or [click to upload](#)

Drop file here or [click to upload](#)

+ new

Data1

* Sample Name

Please enter

File Type

GZ

H5

Sample QC

Cell Annotation

Configuration modification

Basic Settings

Graphic Settings

Text Style

Title Display

Title Name

UMAP

Font size

16

Text Style

X-axis Title

UMAP_1

Y-axis title

UMAP_2

Coordinate axis system

Legend

cancel

sure

UMAP

UMAP_1

UMAP_2

Columella root cap

G1/G0 phase

Metaxylem

Root cap

Root cortex

Root endodermis

Xylem pole pericycle

* E-mail

Please enter

Analysis name

Please enter

Search

Refresh

Number	E-mail	Analysis name	Status	End time	Start time	Operation
33	xxxxx@hotmail.com		Started	2025-04-22 19:26:21	2025-04-22 19:26:21	<div></div>

Sample QC

Data Process

Cluster

Cell Annotation

CellAnnotation

UMAP

UMAP_1

UMAP_2

Columella root cap

G1/G0 phase

Metaxylem

Root cap

Root cortex

Root endodermis

Xylem pole pericycle

All markers

download

Cluster ID	Cell type	Gene name	Scores	Logfoldchanges	Pvals	Pvals adj
0	G1/G0 phase	AT2G27710	27.530746	1.7441137	7.525478538480091e-167	6.5080338440077582e-163
0	G1/G0 phase	AT1G70600	25.311924	1.4107565	2.3610884403959442e-...	8.750868356804622e-138
0	G1/G0 phase	EF1alpha	24.791603	1.0150876	1.1043599448160872e-135	3.1835016009231745e-132
0	G1/G0 phase	AT3G60245	24.675692	1.5496064	1.9508785431866405e-134	5.06135929244342e-131
0	G1/G0 phase	AT3G11120	24.561556	1.622237	3.2549897854362984e-...	7.677041363032666e-130
0	G1/G0 phase	ATARCA	24.45396	1.4292943	4.567154937606099e-132	9.874188975104384e-129
0	G1/G0 phase	UBQ5	24.34538	1.330867	6.488606027011991e-131	1.2949261135753775e-127
0	G1/G0 phase	AT4G15000	24.313765	1.4363906	1.4020720211152789e-130	2.598239751129628e-127
0	G1/G0 phase	ARP1	24.161297	1.3327343	5.680840413255872e-129	9.825581578767356e-126
0	G1/G0 phase	RPL10	24.10779	1.1943697	2.0711390026636535e-128	3.358351892819115e-125

Total 18238

10/page

1

2

3

4

5

6

...

1824

Heatmap

download

cluster

0

4

1

5

9

6

8

7

2

3

AT2G27710

AT1G70600

EF1alpha

AT3G60245

AT3G11120

HSP17_6B

HSP17_6I

Hsp70b

HSP17_6C

AT-HSP17_6A

RHO-4

AT1G25400

AT1G25275

AT2G43435

AT5G44417

ATG51F7

MT28

RNA4

FDX1.1

GV7

EXT15

EXT16

PER57

PP85

AGP24

AT4G30170

EXT3

ELP

AT2G45180

MZ1

RC13

AT3G32980

AT4G11290

UCC2

AGP12

FLA11

DIR6

AB55

AT1G14890

UGD2

MGL

DJ1A

CB83

XYF2

DOF5_3

DJ1A

AT3G21770

PP2

PMEAMT

GSTU13

0

1

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