a
Number of cells
0
50
100
150
200
"G1a"
"G1b
"S"
"M"
"C"
Density
Total
50000
100000
150000
DNA content
b
Inferred state
"G1a"
"G1b
"S"
"M"
"C"
Correlation
1.0
0.8
0.6
0.4
0.2
0 (S)
1 (S)
2 (S)
3 (S/M)
4 (M/C)
5 (C/G1)
6 (G1)
7 (G1)
8 (G1/S)
9 (S)
10 (S/M)
11 (S/M/C)
12 (M/C)
Synchronization hour
(Annotated cell cycle)
c
mRNA copy
5 × 10^4
4 × 10^4
3 × 10^4
DNA content
10^5
6 × 10^4
4 × 10^4
Relative expression
1.0
0.8
0.6
0.4
0.2
0.0
Pseudotime
"G1a"
"G1b"
"S"
"M"
"C"
Inner membrane complex (IMC)
Microneme (MIC)
Rhoptry
DNA replication
Dense granule
Ribosomal
d
ROP33
ROP34
RON12
RON11
ROP48
IMC2A
organelle sets
pseudotime cluster
Relative expression
1.0
0.8
0.6
0.4
0.2
0.0
Cells
Pseudotime
Genes
organelle sets
Dense granule
MIC
Rhoptry
Unannotated rhoptry
IMC
pseudotime cluster
1
2
3
e
pseudotime cluster
1
2
3
Dense granule
MIC
Rhoptry
IMC
5.9%
29.4%
64.7%
20.0%
4.0%
76.0%
14.3%
22.2%
63.5%
30.0%
15.0%
55.0%
f
Rhoptry
IMC
Relative expression
1.0
0.5
0.0
ROP34
ROP48
RON11
ROP33
IMC2A
IMC7
IMC3
IMC12
ISP4
IMC13
0
200
400
600
Pseudotime
Concordant
Discordant
Highlighted