A
4
2
0
-2
-4
CS
Cytosol
ED
ER
G
LY
Peroxisome
PM
MIT
N
Ribosome
Plasma membrane
Mitochondria
Lysosome
Endoplasmic reticulum
Endosome
Golgi

B
Pipeline for marker selection
Step 1
Normalized Data
n = 4464
Step 2
Proteins detected in three replicates of each organelle
Parental
(n=3970)
n=3769
VPS35-KO
(n=4159)
Step 3
Correlation between replicates within parental and VPS35-KO
Parental
min.PCC > 0.8
(n=3018)
n=2726
VPS35_KO
min.PCC > 0.8
(n=3215)
Step 4
Correlation between parental and VPS35-KO
Marker proteins
n=1481

C
Correlation between conditions
Pearson
Spearman
Density
0
2
4
6
8
0.6
0.7
0.8
0.9
1.0

D
Determination of cluster number
BIC
−28000
−32000
EII
VII
EEI
VEI
EVI
VVI
EEE
VEE
EVE
VVE
EEV
VEV
EVV
VVV
1
3
5
7
9
11
13
15
17
18
19
No. of components