

Table 2. Lipid droplet phenotypes of yeast gene disruption mutants*

Gene name	Log phase	Stationary phase
ADE8	Like WT	Heterogeneous in size
ADE12 †	Indistinct(B) ‡	Many, indistinct
ADK1	Aggregated	Many, centralized §
ANP1	Like WT	Many, centralized
APN1 †	Many, indistinct	Many, centralized
ATP3 †	Like WT	Large
BEM2	Large	Large
BUD32 †	Like WT	Many, indistinct
BUR2	Many, large	Heterogeneous in size
CHC1 †	Many, dispersed	Many, indistinct
CNM67 †	Like WT	Many, dispersed
DOA1	Small(B), dim	Small, many
DRS2	Like WT	Many, large
ECM1	Small(B), dim	Indistinct
ERD1	Many, dispersed	Many, indistinct(B)
EST3	Many, large	Many, indistinct
FAB1	Few, large, aggregated	Indistinct, aggregated
HPR1 †	Many, indistinct(B)	Many, indistinct(B)
KEM1	Small, dim	Many, indistinct(B)
MDM20	Many, indistinct(B)	Indistinct
MED2	Many, indistinct(B)	Many, indistinct
MOG1	Like WT	Many, dispersed
MRM2	Small, dim	Many, indistinct(B)
MSN1	Small, dim	Many, dispersed
NEM1	Rings	Large
OST4	Many, indistinct(B)	Many, indistinct
PAF1	Many, large	Many, large
PEP5	Indistinct, aggregated	Many, dispersed
PEP7	Indistinct, aggregated	Many, centralized
PLC1 †	Like WT	Many, indistinct
PPA1	Like WT	Indistinct
ROX3 †	Many, large	Many, indistinct
SCP160	Many, indistinct(B)	Many, indistinct
SEC22	Small, many	Many, indistinct(B)
SLA2 †	Like WT	Indistinct, aggregated
SPO7	Rings	Few, large, aggregated
SPT10 †	Many, indistinct(B)	Many, dispersed
SRV2 †	Many, indistinct	Many, indistinct
SSD1	Small, dim	Many, indistinct
STO1	Many, indistinct	Many, centralized
TOM5	Large	Indistinct(B)
TFP1	Large	Indistinct, aggregated
TPD3 †	Like WT	Many, indistinct
VAC14	Small, dim	Many, dispersed
VMA2	Like WT	Small, dim
VMA4	Large	Many, dim
VMA6	Large	Indistinct, aggregated
VMA7	Aggregated	Indistinct(B)
VMA22	Small(B), dim	Indistinct(B)
VPS4	Like WT	Many, centralized
VPS16	Aggregated	Many, dispersed
VPS21	Like WT	Indistinct
VPS24	Small, dim	Indistinct(B)
VPS35	Small, dim	Indistinct(B)
VPS51	Many, indistinct	Many, dim
VPS66	Small, dim	Indistinct(B)
YIL039w	Many, dispersed	Many, centralized
YLR404w	Few, large, aggregated	Few, large, aggregated
YOR333c	Small, dim	Indistinct, aggregated

* Phenotypes unique to log phase: Small(B) dim, Aggregated, Rings, Like WT; phenotypes unique to stationary phase: Many dim, Many centralized, Indistinct, Heterogeneous in size.

† Slow growing strain.

‡ (B), borderline, trait close to WT.

§ Centralized: lipid bodies found away from cell cortex.