Table S7: Summary of mutant phenotypes

Gene	Allele	Sucrose dependence	IBA or 2,4-DB response	Peroxisome distribution	Peroxisome size	PTS2 processing	PTS1 import
SDP1	sdp1-7	Wt	Wt	Clustered	Wt	ND	Wt
PXA1	pxa1-4	Dependent	Resistant	Clustered	Wt	Wt	Wt
ACX1	acx1-4	Wt	Resistant	Clustered	Large	Wt	Wt
ACX2	acx2-2	Wt	Wt	Clustered	Large	Wt	Wt
	acx2-3	Wt	Wt	Clustered	Large	Wt	Wt
MFP2	mfp2-6	Partial	Wt	Clustered	Large	Defect	Defect
	mfp2-7	Wt	Slight resistance	Clustered	Large	Wt	Wt
	mfp2-8	Partial	Wt	Clustered	Large	Defect	Defect
	mfp2-9	Partial	Wt	Clustered	Large	Defect	Wt
PED1	ped1-4	Dependent	2,4-DB resistant	Clustered	Large	Defect	Defect
	ped1-5	Dependent	Resistant	Clustered	Large	Defect	Defect
MLS	mls-4	Partial	Wt	Clustered	Wt	Wt	Wt
ICL	icl-3	Wt	Wt	Clustered	Wt	Wt	Wt
	icl-4	Wt	Wt	Clustered	Wt	Wt	Wt
	icl-5	Partial	Wt	Clustered	Wt	Wt	Wt
PMDH1	pmdh1-2	Wt	2,4-DB resistant	Clustered	Wt	ND	Wt
CHY1	chy1-5	Dependent	Resistant	Clustered	Large	Defect	Defect
	chy1-6	Dependent	Resistant	Clustered	Large	Defect	Defect
	chy1-7	Dependent	Resistant	Clustered	Large	Defect	Defect
MDAR4	mdar4-5	Dependent	Wt	Clustered	Wt	ND	Wt
	mdar4-6	Dependent	Wt	Clustered	Wt	ND	Wt
	mdar4-7	Dependent	Wt	Clustered	Wt	ND	Wt
LON2	lon2-8	Wt	Resistant (lateral roots)	ND	Large	Defect	Defect
	lon2-9	Wt	Slightly resistant (lateral roots)	ND	Large	Wt	Defect
	lon2-10	Wt	Resistant (lateral roots)	ND	Large	Defect	Defect
PXN	pxn-4	Wt	Wt	ND	Large	Wt	Wt
	pxn-5	Wt	Wt	ND	Large	Wt	Wt
	pxn-6	Wt	Wt	ND	Large	Wt	Wt
	pxn-7	Wt	Wt	ND	Large	Wt	Wt
DRP3A	drp3a-4	Wt	Wt	Wt	Large	ND	Wt
	drp3a-5	Wt	Wt	Wt	Large	ND	Wt
PME31	pme31-1	Wt	Wt	Clustered	Wt	ND	Wt
	pme31-2	Wt	Wt	Clustered	Wt	ND	Wt
	pme31-3	Wt	Wt	Clustered	Wt	ND	Wt

ND, not determined.