

Supplemental Table S1. Genotyping and recombinant mapping markers used in this study.

Genotyping markers	Primer name	Primer sequence	Restriction enzyme	Product size (bp)	
				Wild type	Mutant or transgene
<i>pex2-1</i>	PEX2-18 PEX2-DpnII	TGCGTTGCCTCCGTTGGTGGTCAG CATACAGACCTGCTCAGAATCACCCGAT	DpnII	65	93
<i>pex4-1</i>	PEX4-A PEX4-B	TGCATCTCTTTTTATAACAACCTTCTCC GAACTAGAACC GAACGGGAACCAAACC	MnII	201, 91	292
<i>pex4-2</i>	PEX4-16 PEX4-dCAPS-RsaI	ATTCGGGTTGCTTCAGTTCG CTTAGAAGATTCCCTTTTTCCATAGCAAG	RsaI	139	108, 31
<i>pex6-1</i>	F1003-7 F1003-T	CAGACTTTACTGGCAAAGCTGTGGCG GCTTGACCTATAATAAACAGATCCTGGG	XhoI	270, 115	385
<i>pex10-2</i>	PEX10-11 PEX10-PstI	CGTTGAAGTTGAATCGGAGGTAGAC AATATAGTTTTGGTATTGTTCTGCA	PstI	92	120
<i>pex12-1</i>	PEX12-dCAPS-F PEX12-dCAPS-HindIII-R	AGCTTGGTTACTGCCTTTTT AACAGAAAGCTCTTCATCCCCTAAGCT	HindIII	201	171, 30
<i>35S:PEX12-CFP</i>	PEX12-CFP-F PEX12-CFP-R	TGTTGTTTCAGGTGGGAGGTG GAATAAGCATCAGAGCAGCAAAGA	-	284	284, 186
<i>35S:GFP-PTS1</i>	35S-F GFP-1	GGATGACGCACAATCCCCTATCCTTCG TTGAAAAGCATTGAACACCATAAGAGAAAGT	-	-	321
Mapping markers				Col-0	Ler
<i>nga172</i> (near <i>At3g03340</i>)	<i>nga6172-1</i> <i>nga6172-2</i>	TACATCCGAATGCCATTGTTCCCTATCATTG AGCACATCAAGCTGCTTCCTTATAGCGTCC	-	170	150
F22F7 (near <i>At3g05520</i>)	F22F7-3 F22F7-4	GTGATGCATGAACCTGATCTTAAATCCTAC CTGATATCTACATGCAACTCTTATGCTG	EcoRV	320, 130	450
SEC304 (near <i>At3g06654</i>)	SEC304-1 SEC304-RsaI	CAAAAATTCCAAGAAGAGTACAAGAGGAC TAGAAAAAGAACAGTAGAGTAATTTGAGTA	RsaI	156	128

Col-0, Columbia; *Ler*, Landsberg *erecta*