

Supplementary Table 1: Primers used in DNA manipulations

Protein	Primers	
PEX5 Δ N110	Fw	- GAGCGCGCCATATGGCAGACTTGGCCTTGTCT
	Rv*	- GCGTAATTAAGCTTGGCTGCAGGTC
PEX5 Δ N147	Fw	- GAGCGCGCCATATGGTTACAGACCCCTTGTCTG
PEX5 Δ N196	Fw	- GAGCGCGCCATATGACGGCCAGTGACTTTGTG
PEX5 Δ N267	Fw	- GAGCGCGCCATATGTCTGCCCTTGATATGGA
PEX5 Δ N290	Fw	- GAGCGCGCCATATGTTGCAGGCAGAGTTGGA
PEX5 Δ N267-M7 ; PEX5-M7	W308A	Fw - GCTGAGGCCACCCGCTCTTTCTGACTATGAT
		Rv - ATCATAGTCAGAAAGAGCGGGGTGGCCTCAGC
	Y312A	Fw - CCGCTCTTTCTGACGCTGATGACCTTACG
		Rv - CGTAAGGTCATCAGCGTCAGAAAGAGCGG
PEX5-M6,7**	W257A	Fw - TACATCAGATGCCGCGGTTGACCAGTTCAC
		Rv - GTGAACTGGTCAACCGCGGCATCTGATGTA
	F261A	Fw - CCGCGGTTGACCAGGCCACAAGACCAGTAA
		Rv - TTA CTGGTCTTGTGGCCTGGTCAACCGCGG
PEX5 (Mus musculus)	Fw	- GCGAACTGCATATGGCAATGCGGGAGCTGG
	Rv	- GCGGTGCTGACTCACTGGGGCAGGCCAAACAT
Catalase	Fw	- GGTCTAGAGCCACCATGGCTGACAGCC
	Rv	- GGTACCCCTCACAGATTTGCCTTCT
Cat Δ KANL	Fw	- ACTTGGCGGCAAGGGAGTAGGCAAATCTGTGA
	Rv	- TCACAGATTTGCCTACTCCCTTGCCGCAAGT
CatED	Fw	- CGGCAAGGGAGGAGGACTAACTGTGAGGTACCGA
	Rv	- TCGGTACCTCACAGTTAGTCCTCCTCCCTTGCCG

* The same reverse primer was used for PEX5 Δ N110, PEX5 Δ N147, PEX5 Δ N196, PEX5 Δ N267 and PEX5 Δ N290

** The plasmid encoding PEX5-M7 was used as the template for this mutagenesis