Table S1. Oligonucleotide primers used for construction of pOMPP4 (ΔOMPDC)**, pNUPP3** (Δup)**, and pgUPROMP** (Δuprt::OMPDC) **KO vectors**

Primer	Sequence	Primer Use	Construct	Corresponding TGME49 locus KO
PMiniHXF	GATAAGCTTGATCAGCACGAAACCTTG	HXGPRT cassette forward primer	HXGPRT mini cassette	
PMiniHXR	CCGCTCTAGAACTAGTGGATCCC	HXGPRT cassette reverse primer		
OMF1	*GTAACGCCAGGGTTTTCCCAGTCACGACG*ACTAGT**GCCGTAGTGTACCCGATGATGC**	Pru OMPDC KO 5' forward primer	pRS416.pOMPP4	TGME49_259690 chrVIIb 2,709,536 to 2,712,859 (-)
OMR1	*GTTTGAATGCAAGGTTTCGTGCTGATCAA*GTTTAAAC**GAATAGCAGTGTTGGACACGTGCA**	Pru OMPDC KO 5' reverse primer		
OMF2	*CAGTGACACCGCGGTGGAGGGGGATCCAC*GTTTAAAC**CCGATGACGGCGAAGTTGACTG**	Pru OMPDC KO 3' forward primer		
OMR2	*GCGGATAACAATTTCACACAGGAAACAGC*GCGGCCGC**GGTTGACGAATAGTCTTCGCTGCA**	Pru OMPDC KO 3' reverse primer		
NUPF1	*GTAACGCCAGGGTTTTCCCAGTCACGACG*ACTAGT**GCGAAACCTGAACTGAGTGCGG**	Pru UP KO 5' forward primer	pRS416.pNUPP3	TGME49_310640 chrXI 1,500,995 to 1,497,792 (+)
NUPR1	*GTTTGAATGCAAGGTTTCGTGCTGATCAA*GCTAGC**GTGCACAAGTGCACCTCGCTG**	Pru UP KO 5' reverse primer		
UPF2	*CAGTGACACCGCGGTGGAGGGGGATCCAC*GCTAGC**AGTCTGGAGATGGAGACGCACC**	Pru UP KO 3' forward primer		
UPR2	*GCGGATAACAATTTCACACAGGAAACA*GCGGCCGC**AGACGTCAGTTTCCAGTGC**	Pru UP KO 3' reverse prime		
UPRPFF1	*TTGGGTAACGCCAGGGTTTTCCCAGTCACGACG*GTTTAAAC**GTGAGCTCATGCTGGAGCTTCG**	Pru UPRT KO 5' forward Primer	pRS416.pgUPROMP	TGME49_312480 chrXI 2,718,655 to 2,722,697 (+)
UPRPFR1	AGCTTTCCGCTCGCTGGGAC	Pru UPRT KO 5' reverse primer		
UPRPFF2	GCCCTGCTGTCTTGTCAGGTACT	Pru UPRT KO 3' forward primer		
UPRPFR2	*GTGAGCGGATAACAATTTCACACAGGAAACAGC*GCGGCCGC**CTGGCGTTCGATCGACCGAAG**	Pru UPRT KO 3' reverse primer		
OMP5'A2F	*CCTTTTTTCGTCGGACCTGTCCACAGGGCTTCTAAA***GGAAGGGGGTGTTACATGTGTGTC**	Pru OMPDC cassette forward primer		TGME49_259690 chrVIIb 2,709,205 to 2,712,430 (-)
OMPGR3	*GATTCCGTCAGCGGTCTGTCAAAAAAACTAGAGACC***TCAGCTTTCCTCGTACTGCTGGAC**	Pru OMPDC cassette reverse primer		

*Italicised nucleotides indicate regions of crossover in yeast recombination cloning, underlined nucleotides indicate restriction enzyme sites, and bold nucleotides indicate specific priming target regions (ToxoDB, version 12.0).

Table S2. Oligonucleotide Primers used for Validation of ΔOMPDC and ΔUP Genomic Deletions

Primer	Sequence
5'DHFRCXF	ACTGCGAACAGCAGCAAGATCG
3'DHFRCXR	GTTGGCCTACGTGACTTGCTGATG
OMCXF	CAGCAGAGCAATACGGAGGCTGT
OMDF	CTGTACGCGCCTTACCAAGACC
OMDR	GATACGACAGAAACGGTCGAACTGC

OMCXR	CACTCGCTAAAACAGCAACGGTTGAC
CLOMF	CTACCAGCAGTCGTCGGTGGA
OMXEXR	CTTCCGAGGTATTCACAGCAGCC
OMXEXF	TCTCTGCAAGGACGGCAAAGGG
NUPCXF	ATCCTGGAGTGACACTGGAGTCTC
NUPDF	GAGAACCCTTGGCCGTCGTTC
NUPDR	GCAGAGCACATGAACGACCAAGC
NUPCXR	CTATCCCACATCTGAAACCCGCTGA
UPRTCXF	TCTCTCCCTGAGCTGCACGTG
UPRTDF	TGACGTCGGGTGCCTACGTTC
UPRTDR	CGACAGCTGCACTCGAAGACAC
UPRTCXR	CCAGGTTCGACACTGGTCAGATG