

Table S2. Oligos used as donors or as primers for donor amplification

Oligo	Sequence (5'-3')	Length (bp)
<i>rpl42</i> -90-sense	CGTTATGACCGCAAGCAAAGTGGTTTTGGTGGTCAAA	90
	CTAAGCaaGTgTTCCACAAGAAGGCTAAGGTTACCAAG	
	AAGGTTGTCCTTCGT	
<i>rpl42</i> -90-antisense	ACGAAGGACAACCTTCTTGGTAACCTTAGCCTTCTTGT	90
	GGAACaCttGCTTAGTTTGACCACCAAAACCACTTTGCT	
	TGCGGTCATAACG	
<i>tor2</i> -sense	TATCCAGTGATTCCTTTATCACCGGATTCAGGaCTTTTA	90
	GGCTGGGTTTTaGATAGCGATACTTcGCATGTCTTAATT	
	CGTGACTACAGA	
<i>tor2</i> -antisense	TCTGTAGTCACGAATTAAGACATGCgAAGTATCGCTAT	90
	CtAAAACCCAGCCTAAAAGtCCTGAATCCGGTGATAAA	
	GGAATCACTGGATA	
<i>cdc25</i> -sense	CTTCATGGTGGTTACAAGTCGTTTTACGAAAAtCACAA	90
	AAAAtCGTTaTGACCCAATTAACCTACGTTCCGATGAACG	
	ATGCTTCGCATGTT	
<i>cdc25</i> -antisense	AACATGCGAAGCATCGTTCATCGGAACGTAGTTAATT	90
	GGGTCAtAACGaTTTTTGTGaTTTTCGTAAAACGACTTG	
	TAACCACCATGAAG	
<i>mat1</i> -top	TAAATGTATAGTCTTTCTCCTTTGTTTTCTCTCGTTCGT	90
	TTCCATATTATACTTTCACTACATCTCATTACTCATTCC	
	TACCATACACAC	
<i>mat1</i> -bottom	GTGTGTATGGTAGGAATGAGTAATGAGATGTAGTGAA	90
	AGTATAATATGGAAACGAACGAGAGAAAACAAAGGA	
	GAAAGACTATACATTTA	

<i>ypt7</i> -a-up-F	GTTTCGTTATACTCATGACGTGAAAGG	54
<i>ypt7</i> -a-up-ov-R	<i>agtgaaaagttctctcctttactcat</i> ATTTACAGCGTAAAAACGAGA TAATTC	54
<i>ypt7</i> -a-dn-ov-F	<i>cacatggcatggatgaactatacaaaa</i> ATGGCGGCAAAAAGAAGCAT TTGCTG	53
<i>ypt7</i> -a-dn-R	CTCCTATGGTTGCTTTATAATCTTTGCT	54
<i>ypt7</i> -b-up-F	AAGTAATTTATAAAATTTATTTTTTTTGCAGATCTCAA AA	40
<i>ypt7</i> -b-dn-R	CATATTTCAAAAAACATACCTGATTCATG	35
<i>ypt7</i> -c-up-F	CTATTGGCCTTCAATAATATATCGAATTATCTCGTTTTT <i>ACGCTGTAAATatgagtaaaggagaagaacttttact</i>	77
<i>ypt7</i> -c-dn-R	CTTTCTCCTAAAAATAAATACTTTCAGCAAATGCTTCTT <i>TTTGCCGGCCATtttgtatagttcatccatgccatgtg</i>	76

The altered nucleotides in knock-in donors are in lowercase. The sequences in mECitrine are shown in italic. The *ypt7* donor-a was obtained via overlap PCR, using genomic DNA as template for the first round of PCR and mECitrine-encoding DNA as template for the second round of PCR; *ypt7* donor-b was amplified using *ypt7* donor-a as template; and *ypt7* donor c was amplified using mECitrine-encoding DNA as template.