

S2-Table. The plasmid and primers used in the yeast experiment

Plasmid used in this study		
Plasmid	Description	Reference
HO	Kan MX4 resource	
Cas9-NAT	Cas9 protein expression plasmid	Zhang <i>et al.</i> 2014
pRS42H-gRNA	gRNA expression plasmid	This study
pRS42H-gRNA_MDH2	gRNA expression plasmid targeting <i>MDH2</i> gene	This study
pRS42H-gRNA_COX4	gRNA expression plasmid targeting <i>COX4</i> gene	This study

Primers used in this study	
Primer	Sequence(5'→3')
BDH1-F	<u>ATGAGAGCTTTGGCATATTTCAAGAAGGGTGATATTC</u> ACTGACATGGAGGCCCAAGAATAC
BDH1-R	TTACTTCATTTACCGTGATTGTTAGGCGTCAATAGAATCCAGTATAGCGACCAGCATT
gRNA-MDH2-F:	<u>GATCAGTGGCTCGACACGGAAATG</u>
gRNA-MDH2-R:	<u>AAACCATTTCCGTGTCGAGCCACT</u>
gRNA-COX4-F:	<u>GATCATCTTTCATGGTACCCTTCC</u>
gRNA-COX4-R:	<u>AAACGGAAGGGTACCATGAAAGAT</u>
MDH2-donor-F	TCAACGGTGTTACCGCCGACTTGTCTCATATAGACT <b>TAAC</b> CCATTTCCGTGTCGAGCCACT
MDH2-donor-R	GCAAACAGTTCTCAATGCCACCTGCAGGAGAGTGGCTCGACACGGAAATGGG <b>TTAGTCTA</b>
COX4 donor-F	GGTATCGATGTTTTTCGACACCAAACCATTAGATTCG <b>TAAAGGAA</b> GGGTACCATGAAAGAT
COX4 donor-R	ATAATCATCATAAGATTCAATGATGATCGGATCTTTCATGGTACCC <b>TTCCTTTACGAATC</b>

Note: The homologous sequence was characterized as underline, the introduced stop codon (TAA) was presented in bold characters.