

Primer name	Sequence (5'→3')
Primers used for tagging <i>ScERG11</i> with 3xHA tag in the genome	
ScERG11_3xHAtag_Fw	CAAGATCATCTGGGAAAAGAGAAATCCAGAACAA AAGATCAGGGAACAAAAGCTGG
ScERG11_3xHAtag_Rev	TCTCTTTTTCTGTTTTTTTTTTTTTCTCAGTTACAA ACCCTATAGGGCGAATTGG
Primers used for deleting <i>PDR5</i> in the genome of <i>S. cerevisiae</i> using <i>hphNT1</i>	
hphNT1_PDR5_Fw	ACTTTCGAAAAAGAAATTAAGACCCTTTTAAGTT TTCGTATCCGCTCGTTTCGAAAGACTTTAGACAAAA CGTACGCTGCAGGTCGAC
hphNT1_PDR5_Rev	GTGATTATGTATGTTTATTAATAAAAGTCCATCTTG GTAAGTTTCTTTTCTTAACCAAATTCAAATTCTA ATCGATGAATTCGAGCTCG
Primers used for cloning <i>MGE1-GFP</i> in YEPlac195	
MGE1-GFP-Fw1	TCACGACGTTGTAAAACGACGGCCAGTGAATTCG AGCTCGGTACCTTCAGTGATATTTAATACCTCGC
MGE1-GFP-Rev1	GTGAAAAGTTCTTCTCCTTTTGAACCACCTCCACC AGAACCTCCACCTCCGTTCTCTTCGCCCTTAAC
MGE1-GFP-Fw2	TTGTTAAGGGCGAAGAGAACGGAGGTGGAGGTTC TGGTGGAGGTGGTTCAAAGGAGAAGAACTTTTC ACTG
MGE1-GFP-Rev2	TATAGATAAAGTCGTAGGTAGTAATAATTCTTCAT CAAGGCTATTTGTATAGTTCATCCATGCC
MGE1-GFP-Fw3	AGCTGCTGGGATTACACATGGCATGGATGAACTA TACAAATAGCCTTGATGAAGAATTACTACC
MGE1-GFP-Rev3	TCACACAGGAAACAGCTATGACCATGATTACGCC AAGCTTGCATGCCTCGAGAAAATAAAAAGGTG
Primers used for cloning the <i>CaACT1</i> promoter, <i>NAT1</i> and <i>CaACT1</i> terminator in Clp10	
NAT1_Cloning_Fw	AGATCAGCGGCCGCGTTTATAATAAACTTAGTC
NAT1_Cloning_Rev	TCGCCTACTAGTATTTTATGATGGAATGAATGGGA T
Primers used for cloning the <i>CaACT1</i> promoter, <i>CaMGE1</i> and <i>CaACT1</i> terminator in the MCS of Clp10	

pACT1_Cloning_Fw	TCGGTACGCGTCAGCCTCGTTTATAATAAACTTAG TCTAATATTTCTTTTGG
pACT1_Cloning_Rev	GCTCACTGCAGCATTTTGAATGATTATATTTTTTTA ATATTAATATCGAG
CaMGE1_Cloning_Fw	AAACTGCAGATGCATAGAGCTTTATATAAT
CaMGE1_Cloning_Rev	CCATCGATTCAATTGTCATCTTCAGATTTG
tACT1_Cloning_Fw	GATACCTCGAGGAGTGAAATTCTGGAAATCTGGA AATCTGGTTTTGTATTC
tACT1_Cloning_Rev	CCAATGGTACCGACATTTTATGATGGAATGAATGG GATGAATCATCAAAC

Primers used for cloning *CgPGK1* or *CgTDH3* promoters and *CgMGE1* (with terminator) in pCgACH plasmid

pPGK1_Cloning_Fw	CGACGGCCAGTGAATTCGAGCTCCCGCGGAGACG GTTAGCCATCATATACGCATATACGA
pPGK1_Cloning_Rev	CTCTCATGTCGACTATCGAATAGATGTATGTATGC CGTCTTGCCAATTGACAATAATCA
pTDH3_Cloning_Fw	CGACGGCCAGTGAATTCGAGCTCCCGCGGCGTCA TGCAGGGATTGTCCGTCTCC
pTDH3_Cloning_Rev	CTCTCATGTCGACTTTTGATGTTATGTTTGTGTGA TTTGTAGGTGTTTTAATT
CgMGE1_Cloning	ATCTATTCGATAGTCGACATGAGAGCTTTCAGTAA
pPGK1_Fw	CGTTTCCAGAAT
CgMGE1_Cloning	ATAACATCAAAGTCGACATGAGAGCTTTCAGTA
pTDH3_Fw	ACGTTTCCAGAAT
CgMGE1_Cloning_Rev	TTACGCCAAGCTTGCATGCGCGGCCGCTTATATAT ATCATTAGTATTATATATTTGAAACTGGTCTTTTTG ACA

Primers used for qRT-PCR

ScMGE1_qPCR_Fw	ACAGGGGTTAGAATGACAAGAGA
ScMGE1_qPCR_Rev	CGTTGCTTCGTGTTTATTTGG
ScERG11_qPCR_Fw	CACGAATTTGTCTTCAACGCTAA
ScERG11_qPCR_Rev	AGTCAAATGAGCGTAAGCAGCTT
ScARN1_qPCR_Fw	TTGAAGGGCCAGAAGTCCTA

ScARN1_qPCR_Rev	AACCCATCAAAAGGACACCA
ScFET3_qPCR_Fw	CGGTGTGAATTACGCCTTCT
ScFET3_qPCR_Rev	TTTCGGAGTTGTTTGCTTGA
ScFIT1_qPCR_Fw	TTCTAGGGATGCCCAATCTG
ScFIT1_qPCR_Rev	GGATACCATTTTTGTGCTTGC
ScFRE1_qPCR_Fw	CACCAAAAAGTGCATGGTTCT
ScFRE1_qPCR_Rev	TCTGGATTGTTTGGATCACG
ScFTR1_qPCR_Fw	AAGAAAGGCGTGGTCACTTG
ScFTR1_qPCR_Rev	TTCCGTCAACTCCTGCTTTT
ScHMX1_qPCR_Fw	AACACGCTTGAAATGGGAAT
ScHMX1_qPCR_Rev	TCTGCGACGCTAATGATCTG
ScERG19_qPCR_Fw	GCGTATCATCAGTTGGTGCC
ScERG19_qPCR_Rev	AACACAGCATTTGGACCTGC
ScERG24_qPCR_Fw	CAAGCGCGTTACTTGAGTGT
ScERG24_qPCR_Rev	GCCGAGTGGAAGATGTGGAA
ScERG2_qPCR_Fw	TTGCCTCTCATTACGGGGAC
ScERG2_qPCR_Rev	GATCATTTGGCCCATCGCAC
ScERG5_qPCR_Fw	AACTTTGCGTTACAGACCTCCT
ScERG5_qPCR_Rev	GCCCTTTGGTGCGGTATAGTT
ScERG7_qPCR_Fw	CATTACACACCGTGGGGGAG
ScERG7_qPCR_Rev	CCAACCGCCATCCTTCATCT
ScERG25_qPCR_Fw	CATTACTGGGCTCACCGTCT
ScERG25_qPCR_Rev	AAGACCGAATGGAGCAGCG
ScERG6_qPCR_Fw	AGCATTGAAGAACTGTGGTTTTCG
ScERG6_qPCR_Rev	AACGTA CT TCCACTCACCAGTTA
ScERG3_qPCR_Fw	GTCTACCGTGCTCTGCACAA
ScERG3_qPCR_Rev	GCAAAAACCCGTCTACAGGA
ScERG4_qPCR_Fw	GCGAACGCATGTGCTAAAGG
ScERG4_qPCR_Rev	GTGTATGGGACACCGGCAAT
ScERG8_qPCR_Fw	ATCGAACCTCCCGTACAAACT
ScERG8_qPCR_Rev	GCGTCATAACCACCAGCAC
ScERG9_qPCR_Fw	CGGTATCCACGAGCAATCCA
ScERG9_qPCR_Rev	TGTAGCACTTCACGGTTGTTG

ScERG12_qPCR_Fw	TAAAGGCACCGATGACGAGG
ScERG12_qPCR_Rev	CCGATTGAGACAAGCAGTCCA
ScPDR5_qPCR_Fw	TGGGTCTGCTTGTCATTTCA
ScPDR5_qPCR_Rev	TGGCACTTGGGGTAGTCATAA
ScALG9_qPCR_Ref_Fw	CACGGATAGTGGCTTTGGTGAACAATTAC
ScALG9_qPCR_Ref_Rev	TATGATTATCTGGCAGCAGGAAAGAACTTGGG
ScSCR1_qPCR_Ref_Fw	TGGGATGGGATACGTTGAGAA
ScSCR1_qPCR_Ref_Rev	CTAGCCGCGAGGAAGGATT
Sc18S_qPCR_Ref_Fw	CACTTCTTAGAGGGACTATCGGTTTC
Sc18S_qPCR_Ref_Rev	CAGAACGTCTAAGGGCATCACA
CgMGE1_qPCR_Fw	GACGTTGAGAAGGCCAAGAG
CgMGE1_qPCR_Rev	CGCATGTCCAAAGTTATCCA
CgRPL10_qPCR_Ref_Fw	GAGATTCTTTCCACTTGAGAGTCAGA
CgRPL10_qPCR_Ref_Rev	CTCTCATACCTTGTTGCAATCTATCC
CgRPL13A_qPCR_Ref_Fw	ACCAAGCTGGTAAGAAGGAATCC
CgRPL13A_qPCR_Ref_Rev	GGAGCTCTAACGACTGGTCTCAA
CgRPL2A_qPCR_Ref_Fw	GCCGGTAAGAAGGCCTCTTT
CgRPL2A_qPCR_Ref_Rev	CTGTACCTGGCTTTTCTTCAA
CgUBC13_qPCR_Ref_Fw	TGCCCAGGACTACCCTATG
CgUBC13_qPCR_Ref_Rev	AGCACGTCCAGGCAGATACG
CaMGE1_qPCR_Fw	CCGCCATTTACAAGAACTACC
CaMGE1_qPCR_Rev	CGTGACCAAGTGCCAAGTT
CaTEF1_qPCR_Ref_Fw	CCACTGAAGTCAAGTCCGTTGA
CaTEF1_qPCR_Ref_Rev	CACCTTCAGCCAATTGTTCGT
Ca18S_qPCR_Ref_Fw	GATGCCCTTAGACGTTCTGG
Ca18S_qPCR_Ref_Rev	CACGACGGAGTTTCACAAGA

Table S2. Primers used in this study.