

Table S2. List of primers used in this study.

Primers for strand-specific reverse transcription of sense and antisense *dg/dh* transcripts

<u>Name</u>	<u>Sequence</u>
dg_sense.R	5' TGGCACGGCCAAAATTATTT 3'
dg_antisense.R	5' TGTGCCTCGTCAAATTATCATC 3'
dh_sense.R	5' TTCTCAAGATGATAACGGATCTAGC 3'
dh_antisense.R	5' TTCTATACCCATACTGTTGGATCAATG 3'
Control myo1.R	5' GAAGAAGCTGCAGAAGTTACCG 3'
Control pdi2.R	5' TGGATGTACGAAGTTCAGGAAG 3'

Primers for qPCR to amplify sense and antisense *dg/dh* transcripts

<u>Name</u>	<u>Sequence</u>
dg_sense.F	5' TTGTGACTACGATTTCTTGTTAGCG 3'
dg_sense.R	5' TGGCACGGCCAAAATTATTT 3'
dg_antisense.F	5' GCAAATGCTTCACGGTATTTT 3'
dg_antisense.R	5' TGTGCCTCGTCAAATTATCATC 3'
dh_sense.F1	5' TGTTTCATCAAAGATGGACTCCT 3'
dh_sense.R1	5' TTCTCAAGATGATAACGGATCTAGC 3'
dh_antisense.F2	5' TATGCTCAAAAGTGTGGCGC 3'
dh_antisense.R2	5' TTCTATACCCATACTGTTGGATCAATG 3'
Control myo1.F	5' CAAGCAACCACTGTTTCTGC 3'
Control myo1.R	5' GAAGAAGCTGCAGAAGTTACCG 3'
Control pdi2.F	5' GAAGAATACTTGGTTGGATGAAAAA 3'
Control pdi2.R	5' TGGATGTACGAAGTTCAGGAAG 3'

Primers for qPCR to amplify ChIP products

<u>Name</u>	<u>Sequence</u>
Region 1	
per1.F	5' CGTCGCCAGATCGCTCTATT 3'
per1.R	5' GTAGACGGACTTGGTAGCCG 3'
Region 2	
dh_antisense.F1	5' TCGAGGATTCTGTCATCCAA 3'
dh_antisense.R1	5' GCAACACTATAGTTCTCACTTTGAGG 3'
Region 3	
dh_sense.F2	5' CTGCCACTTTTAACTTGAACAAAG 3'
dh_sense.R2	5' ACAGGCACACTATAAACAACTTGC 3'

Region 4	
dh.F4	5' TCGAGCTAAATAACATTGAGCACTT 3'
dh.R4	5' GTCTCCATGTTGTTTCGGAAACT 3'
Region 5	
dg.F4	5' TTTCAGCGAGACATGTACCGA 3'
dg.R4	5' CCACAATTTAACCCGATTAGGCA 3'
Region 6	
dg_sense.F	5' TTGTGACTACGATTTCTTGTTAGCG 3'
dg_sense.R	5' TGGCACGGCCAAAATTATTT 3'
Region 7	
dg_antisense.F	5' GCAAATGCTTCACGGTATTTT 3'
dg_antisense.R	5' TGTGCCTCGTCAAATTATCATC 3'
Region 8	
imr1.F	5' ACAGAAGGGACAGAAATCGTT 3'
imr1.R	5' ACATACTAGTGATGCAAGCGT 3'
Region 9	
cnt1.F1	5' TGTGGATGACTGATTGTCCGA 3'
cnt1.R1	5' TAACCGGGACGTGAGTGTTT 3'
Region 10	
cnt1.F2	5' ACGATACAAATACTGACGCCAA 3'
cnt1.R2	5' AGCAGTTCTGCAATTGACTTTT 3'
Region mei4	
mei4.F	5' GCCGAAGTCTCAAACGATGC 3'
mei4.R	5' TTAGAAGGGGGAAGAGGGGG 3'
Region ssm4	
ssm4.F	5' ACTTCTGTCAAAGCAGGTTGAGA 3'
ssm4.R	5' TGAGGTGCAAGAGGAACTCA 3'
Region rad50	
rad50.F	5' GTCCATCATGGGCATACGGT 3'
rad50.R	5' AGCGTTAATGGGGAGAAAAATTGA 3'
Control myo1	
Control myo1.F	5' CAAGCAACCACTGTTTCTGC 3'
Control myo1.R	5' GAAGAAGCTGCAGAAGTTACCG 3'
Control myo2	
myo2.F	5' ATGCCGCTGATGTTCTTAC 3'
myo2.R	5' TCATTCAAAGGATCGGTGTTT 3'
Control pdi2	
Control pdi2.F	5' GAAGAATACTTGGTTGGATGAAAAA 3'
Control pdi2.R	5' TGGATGTACGAAGTTCAGGAAG 3'

Primers for PCR verification of gene deletion strains from Bioneer collection

<u>Name</u>	<u>Sequence</u>
KanMX4 module	
CPN1	5' CGTCTGTGAGGGGAGCGTTT 3'
CPC3	5' GGCTGGCCTGTTGAACAAGTCTGGA 3'
atp10_cp5	5' AGAATTTTTCGCTAAATGAGTTTGC 3'
atp10_cp3	5' TTCTTAATGGCGTTTTGAAAAATA 3'
cid12_cp5	5' TCATATGTATTTAGACGCCATGACA 3'
cid12_cp3	5' GAGAGCTCCAAAACAGAAGATAGCG 3'
clr4_cp5	5' AGAGCAGTGTGTTGTTAACACCGTA 3'
clr4_cp3	5' CGGAAACTCCCTTAACCTCTACAAC 3'
ddb1_cp5	5' ATTCATAAAGTCTTTGGTCATCGGG 3'
ddb1_cp3	5' AAAATACCAAAAATTCTGCCATTG 3'
fta5_cp5	5' CCGGTTTATTTCAAACCAATATGA 3'
fta5_cp3	5' AGTGTGGTACAAGAGAAGTGAAGGG 3'
gcn5_cp5	5' AAAAAATTGATTGTATTTGGAGCG 3'
gcn5_cp3	5' GAAGCATCCATTCCAATTGATGAGT 3'
nut2_cp5	5' TTAACCTATGAACAGGGCTAAAGC 3'
nut2_cp3	5' CATCAAAATCAGCAAACAAAGACAG 3'
pht1_cp5	5' AAGTTAGGCATTCTCTGGTTTTCTT 3'
pht1_cp3	5' TTCACACTATATTGAACGCTAAGCG 3'
ppa2_cp5	5' AACTGTACTTCTCAGCATTATGCG 3'
ppa2_cp3	5' AATTCATTACAGCACATGACTGCTT 3'
ppr1_cp5	5' GGCCAGCTATCGGTCCTTTGT 3'
ppr1_cp3	5' CACAGGAGCATGGGAATGGAC 3'
rpl1802_cp5	5' GCTCTTTGTTTGAGCATATTGAAAGTC 3'
rpl1802_cp3	5' CTCTTCTAGATTCTGGCAGGAGTT 3'
ryh1_cp5	5' CGTTTTATCCCAGTTGTCATTCTT 3'
ryh1_cp3	5' AACTTATGAGTAAAGGGAAAAAGCG 3'
SPAC2C4.05_cp5	5' TTGAAGTGTTTACGTTTCATAGTCCAT 3'
SPAC2C4.05_cp3	5' AAACGAGATCCCACGAGTAGAAA 3'
SPBC18H10.07_cp5	5' AGATACCGATTTGTCACAACGTCTAA 3'
SPBC18H10.07_cp3	5' GAGTTTCCAATCGGGAATTGGTT 3'
SPBC19G7.10c_cp5	5' TTCTTTTTTCTATACTGCATTGCC 3'
SPBC19G7.10c_cp3	5' GACGTGTCAGATTGGGAAAATTTTA 3'
ubp9_cp5	5' AGTCTCAGAAAAGGCAGATCATCCT 3'
ubp9_cp3	5' AATCGATTAATTTGTCACAACCAAA 3'
vps17_cp5	5' AAAACCATTCTTTTAACCTTGAAAA 3'
vps17_cp3	5' GATATATTGCTTGAAAGACACAGCC 3'
wis4_cp5	5' GATAACGGAAGTAAGTTTCGGTAAGG 3'
wis4_cp3	5' TTAGCATTGATCTTGGTACTGCTTG 3'