

Supplementary table S1 Primers used in the present study

Name	5'-3' DNA sequence
Oligos used for construction of gene disruption cassettes	
GAP1-FA-U	TAACGATAACCGATGGACC
GAP1-FA-D	CCTGCAGCGTACGAAGCTTCAGCTGGACACCGTAATACTGATGGA
GAP1-FB-U	TATCAGATCCACTAGTGGCCTATGCAGCAACCGAGACCTGAAC
GAP1-FB-D	CACCCAACTGAAACTTATCC
GAP1-K-U	ACAGCACTATGAGTCGCACCAGCTGAAGCTTCGTACGCTGCAGG
GAP1-K-D	GTTTCAGGTCTCGGTTGCTGCATAGGCCACTAGTGGATCTGATA
AGP1-FA-U	TCATCCAAACCGACACCT
AGP1-FA-D	CCTGCAGCGTACGAAGCTTCAGCTGACCTCCAAGCCAAAGAAA
AGP1-FB-U	TATCAGATCCACTAGTGGCCTATGCGCATCTTAGCCGTCTTATC
AGP1-FB-D	GAATCGTCGTTACTGTGGT
AGP1-K-U	TTTCTTTGGCTTGGAGGTCAGCTGAAGCTTCGTACGCTGCAGG
AGP1-K-D	GATAAGACGGCTAAGATGCGCATAGGCCACTAGTGGATCTGATA
BAP2-FA-U	AGGTAGTTGGAGCGACAG
BAP2-FA-D	CCTGCAGCGTACGAAGCTTCAGCTGTGGACACTTCCCATTAGAG
BAP2-FB-U	TATCAGATCCACTAGTGGCCTATGCATTAGTAGGTGCAAGGTGG
BAP2-FB-D	CAAAGGTGTATGTACGGTTT
BAP2-K-U	CTCTAATGGGAAGTGTCCACAGCTGAAGCTTCGTACGCTGCAGG
BAP2-K-D	CCACCTTGCACCTACTAATGCATAGGCCACTAGTGGATCTGATA
GDH1-FA-U	GTGTTTGTGGGCAGATTAT
GDH1-FA-D	CCTGCAGCGTACGAAGCTTCAGCTGCACCAGGCTTATTGATGAC
GDH1-FB-U	TATCAGATCCACTAGTGGCCTATGCGGTAAACGCATTTGTAACCTC
GDH1-FB-D	ATGACCAGAAAGCCCACT
GDH1-K-U	GTCATCAATAAGCCTGGTGCAGCTGAAGCTTCGTACGCTGCAGG
GDH1-K-D	GAGTTACAAATGCGTTTACCGCATAGGCCACTAGTGGATCTGATA
ADO80-FA-U	GAGCAGCACAACCTACCCT
ADO80-FA-D	CCTGCAGCGTACGAAGCTTCAGCTGTCCCACGACTAACTTGATA
ADO80-FB-U	TATCAGATCCACTAGTGGCCTATGCACCAAGACAACCGCACTA
ADO80-FB-D	GACAAAGAAAGCCCAGAA
ADO80-K-U	TATCAAGTTAGTCGTGGGACAGCTGAAGCTTCGTACGCTGCAGG
ADO80-K-D	TAGTGCGGTTGTCTTGGTGCATAGGCCACTAGTGGATCTGATA
CAN1-FA-U	GGCACCAAGAATAGAGTTT
CAN1-FA-D	CCTGCAGCGTACGAAGCTTCAGCTGAGCAGACGGAGTAGAAGC
CAN1-FB-U	TATCAGATCCACTAGTGGCCTATGCATCACTTGTTCCTGTATC
CAN1-FB-D	GTCACTGTATCTGCTGCTT
CAN1-K-U	GCTTCTACTCCGTCTGCTCAGCTGAAGCTTCGTACGCTGCAGG
CAN1-K-D	GATACAGGCAACAAGTGATGCATAGGCCACTAGTGGATCTGATA
BAT2-FA-U	CTCATCTACTTCAAGAGACTGAG

BAT2-FA-D CCTGCAGCGTACGAAGCTTCAGCTGATCGTTCTTAAAACTCGTGGAG
 BAT2-FB-U TATCAGATCCACTAGTGGCCTATGCAGTATCGCTATTGCTACGTAAAG
 BAT2-FB-D GCCTAAAGCCATCTGATAGGTAC
 BAT2-K-U CTCCACGAGTTTTAAGAACGATCAGCTGAAGCTTCGTACGCTGCAGG
 BAT2-K-D CTTTACGTAGCAATAGCGATACTGCATAGGCCACTAGTGGATCTGATA
 GAD1-FA-U CACCTATTTCCCGTGCTT
 GAD1-FA-D CCTGCAGCGTACGAAGCTTCAGCTGAATGTCAGACCCTACTATCAAC
 GAD1-FB-U TATCAGATCCACTAGTGGCCTATGCGCCTGGACAGTGATAGAAA
 GAD1-FB-D CAACGGGATAGGAATAAAA
 GAD1-K-U GTTGATAGTAGGGTCTGACATTCAGCTGAAGCTTCGTACGCTGCAGG
 GAD1-K-D TTTCTATCACTGTCCAGGCGCATAGGCCACTAGTGGATCTGATA

Oligos used for diagnostic purposes

GAT1-1-U TTGACATTCTTCTGGCTTCC
 GAT1-1-D CCTCAGTGGCAAATCCTAA
 GAP1-2-U AATAACGGTTTGGTTGA
 GAP1-2-D TTGGCTGAATACTACTCCTT
 AGP1-1-U CTAACGAGCGAGCACA
 AGP1-1-D CAGTATAGCGACCAGCA
 AGP1-2-U GCAGACCGATAACCAGG
 AGP1-2-D TTACACCGCAAGACCA
 BAP2-1-U ACATTTCTTACGGATTGG
 BAP2-1-D CAGTATAGCGACCAGCA
 BAP2-2-U TGCCCAGATGCGAAGT
 BAP2-2-D TGGTCCATTTGCCAC
 GDH1-1-U AACGGTATCGACCCTAT
 GDH1-1-D AACCTCAGTGGCAAATC
 GDH1-2-U CAGACTAAACTGGCTGACG
 GDH1-2-D GCCTCCTTCGCAAAT
 ADO80-1-U CATTATCTTCGGCTCAA
 ADO80-1-D CAAGACTGTCAAGGAGGG
 ADO80-2-U GCAGACCGATAACCAGG
 ADO80-2-D CCCGTAACAAGGGAAA
 CAN1-1-U TGCCTTTGATAGTGCC
 CAN1-1-D CTAATACCTGGAATGCTG
 CAN1-2-U GGTATAAATGGGCTCG
 CAN1-2-D GTCGGTGGTCTCAACA
 BAT2-1-U TGTCGCCGCCGTCAATAA
 BAT2-1-D CTGAGCGAGACGAAATAC
 BAT2-2-U ATGCGTCAATCGTATGTG
 BAT2-2-D TTTCTCTATGTCCCTCC

GAD1-1-U AAGAGGAACCACCTACCC
GAD1-1-D CCTGAGCGAGACGAAAT
GAD1-2-U ATCGCGTATTTTCGTCTC
GAD1-2-D CCAGCACCATTTAGTCAT

Oligos used for real time qPCR

FBC6-U ACAAAGCAGGCTCACAAG
FBC6-D AAGGAGTATCCGCAGGTC
GAT1-U AGCACGAACAGAGTCCCG
GAT1-D GGTTATGCAAACGCCAAG
AGP1-U AATTGATCGGAATTGTATGG
AGP1-D CAACATTAGTGACTGCTGCTT
BAP2-U GAGGAGTATGCGTTGAAAT
BAP2-D AGGTATTGGGACTGGTCTT
GDH1-U AGACAAGTTCACGGAAGGA
GDH1-D ACACCCAGAATACAGAAAGG
ADO80-U TGACCACGACAACGAGAA
ADO80-D CTTTGGGCGAATGAGAAT
CAN1-U GCGGTTGGTCAGAGGTGT
CAN1-D TGGAGGATGGCATAGGTG
BAT2-U GCTGCGATTGTTTCTCCC
BAT2-D TTGCCATGCTCAGTCTCG
GAD1-U GTACCGCTGGTAGCCTTCA
GAD1-D ATCCATCCGTTGCCTTTG
