

Table S2. Primers used in this study.

Primer	Sequence (5' - 3')	Characteristic(s)
ABC transporter DppBCDF knockout (PA14_58440 – PA14_58490)		
58420-A1	TGTCGAAGCAGACCTGG	used to clone <i>dppBCDF</i> knockout vector
58420-A2	CCCTATAGTGAGTCGGTACCGTTGGCGGGTAACTCCTC	used to clone <i>dppBCDF</i> knockout vector
58490-B1	GGTACCGACTCACTATAGGGGCAATTCTCGGTGAGC	used to clone <i>dppBCDF</i> knockout vector
58500-B2	TGCTGTCCGTACCGCTC	used to clone <i>dppBCDF</i> knockout vector
58420_out1	ACCCTGCTCGGTACAAC	Primer flanking <i>dppBCDF</i> knockout fragment (used to confirm Gm-GFP cassette insertion)
58500_out2	TTCTGATTGCCCTGGCG	Primer flanking <i>dppBCDF</i> knockout fragment (used to confirm Gm-GFP cassette insertion)
Substrate-binding protein knockouts		
SBP-58350_fwd_Hind	CTAAGCTTGAAGATCACTGGCTGGCG	used to clone PA14_58350, PA14_58360 knockout vector
SBP-58350_rev	CCGCGTGGCGCGCAGCGAGGAGTGACCTCTGGTATTTTGA	used to clone PA14_58350, PA14_58360 knockout vector
SBP-58360_fwd	TCAAAATAACCGAGGTCACTCTCGCTGCGCGCACGCGG	used to clone PA14_58350, PA14_58360 knockout vector
SBP-58360_rev_EcoRI	GCGAATTCTGGGGGATGG	used to clone PA14_58350, PA14_58360 knockout vector
SBP-58350_out1	GAAACCACCGCTCCTC	Primer flanking PA14_58350, PA14_58360 knockout fragment
SBP-58350_out2	TGAAGGATGGCGACATGG	Primer flanking PA14_58350, PA14_58360 knockout fragment
SBP-58390_fwd_Hind	ATAAGCTTCTCTCCAGGCG	used to clone PA14_58390 knockout vector
SBP-58390_rev	GACCGGGGCGGCTGCGCAGCAAACCTCATTTTTTTTTTC	used to clone PA14_58390 knockout vector
SBP-58390_fwd	GAAAAAGAAAAATGAGGTTTGTGCGCAGCGCCCGCGGTC	used to clone PA14_58390 knockout vector
SBP-58390_rev_EcoRI	TGAATTCGGTTCGAGGC	used to clone PA14_58390 knockout vector
SBP-58390_out1	TGACCGTAGACCGCATCG	Primer flanking PA14_58390 knockout fragment
SBP-58390_out2	TTGTCCAGCTCTCGCTG	Primer flanking PA14_58390 knockout fragment
SBP-58420_fwd_Hind	ATAAGCTTCCGAAGGTGACG	used to clone PA14_58420 knockout vector
SBP-58420_rev	GGCTGTGGTCTTGTCTTGGGGTCTCTCGTGGGG	used to clone PA14_58420 knockout vector
SBP-58420_fwd	GCCACGAGGAGGACCCCAAGAACAAGGACCACAGCC	used to clone PA14_58420 knockout vector
SBP-58420_rev_EcoRI	AGGAATTCGTGCCAGACG	used to clone PA14_58420 knockout vector
SBP-58420_out1	TTCTGGTCAACTCCG	Primer flanking PA14_58420 knockout fragment
SBP-58420_out2	ATGGTCGAACAGCGAACC	Primer flanking PA14_58420 knockout fragment
SBP-70200_fwd_Hind	TCAAGCTTGTCTTGTGCGGTGG	used to clone PA14_70200 knockout vector
SBP-70200_rev	GTTCTCCGGGCGTGGCCTGACGGCTCCATTCGAACG	used to clone PA14_70200 knockout vector
SBP-70200_fwd	CGTTCGAATGGAGCCGTCAGGCCACGCCGGGAGAAC	used to clone PA14_70200 knockout vector
SBP-70200_rev_EcoRI	TAGAATTCGATACTGGAGAGCCC	used to clone PA14_70200 knockout vector
SBP-70200_out1	TTCGAAGGTGCCGGATC	Primer flanking PA14_70200 knockout fragment
SBP-70200_out2	TCGTTCTGCGGCCATCTC	Primer flanking PA14_70200 knockout fragment
Substrate binding proteins overexpression		
SBP+Pro_58350_fwd(SacI)	GAGCTCATGAAGGCCGACGCCAGCTT	used to clone PA14_58350 overexpression vector
SBP+Pro_58350_rev(ApaI)	GGGCCCTACTTGCCGACGCTGACCT	used to clone PA14_58350 overexpression vector
SBP+Pro_58360_fwd(SacI)	GAGCTCAAGTAGCTTCGCTGCCAGC	used to clone PA14_58360 overexpression vector
SBP+Pro_58360_rev(ApaI)	GGGCCCGATCAGTCCAGCTCACCCG	used to clone PA14_58360 overexpression vector
SBP+Pro_58390_fwd(SacI)	GAGCTCTGTTCGACGACCATCCGACG	used to clone PA14_58390 overexpression vector
SBP+Pro_58390_rev(ApaI)	GGGCCCTCAGGGCTGGTTGGTTACGC	used to clone PA14_58390 overexpression vector
SBP+Pro_58420_fwd(XbaI)	TCTAGATAACCAACCAGCCCTGATG	used to clone PA14_58420 overexpression vector
SBP+Pro_58420_rev	GAGCAACGGATGGAGCATGGCTGATTGCTCCCTTTATTGTTG	used to clone PA14_58420 overexpression vector
SBP-Pro_58420_fwd	CAACAATAAAGGGAGCAATCAGCCATGCTCCATCCGTTGCTC	used to clone PA14_58420 overexpression vector
SBP-Pro_58420_rev(ApaI)	GGGCCCTCAGGGCTTACCCGAGGTG	used to clone PA14_58420 overexpression vector
SBP+Pro_70200_fwd(SacI)	GAGCTCGGCGGGTTTTGTTGTGTGCG	used to clone PA14_70200 overexpression vector
SBP+Pro_70200_rev(ApaI)	GGGCCCTCAGCGTTTACCGCGACC	used to clone PA14_70200 overexpression vector

Primer	Sequence (5' - 3')	Characteristic(s)
Quantitative RT-PCR		
SBP58350_RT_fwd	GTAGAAACGCCGTCATCCG	
SBP58350_RT_rev	GCGGTTGAAGACGGTTTCC	
SBP58360_RT_fwd	TTCGATCCGGCCCGCTATA	
SBP58360_RT_rev	TGGAATTCACGCCCTGGC	
SBP58390_RT_fwd	GCAACCTGGTGTCTGCTC	
SBP58390_RT_rev	TGTAGGTCTTGCCGTCGTC	
SBP58420_RT_fwd	CGGAAGGCTTCGACATCGT	
SBP58420_RT_rev	GGCGCAGGTGGAAGGTATA	
SBP70200_RT_fwd	AGTGTGTGTACCGAGGCCA	
SBP70200_RT_rev	AAGCGATAGCTCAGGCCGT	
rpsL-F	GCAAGCGCATGGTCACAAGA	
rpsL-R	CGCTGTGCTCTTGCAGTTGTGA	