

Table S1. Oligonucleotides used in this study

Oligo Name	Sequence (5' to 3')	5' Modification	3' Modification	Application
JHC389	GGGGGGGGGAAAAACGGCCGATTGTGATATAAATTAATAATTCATATTCTGTTGCC	NONE	NONE	pL2 amplification
JHC390	GGGGGGGGGAAAAAGTCGACATTGGGGGTGTTTGTACTAGAGGACTTACCTCTCCCA	NONE	NONE	pL2 amplification
JHC235	AATAGACCGCCTCTAGCGCTGCG	NONE	NONE	pBRCT correction
JHC398	CCGCATCCAACCAATTGTAATAGAAGC	NONE	NONE	pBRCT correction
JHC399	AATGAGTACAATGAAAAATCCATTGCG	NONE	NONE	pBRCT correction
JHC400	GAACAAGAATCTATTAATTAATAGC	NONE	NONE	pBRCT correction
pgp1A	TACCATGGTGGGAAAAATAGACATGGATCG	NONE	NONE	<i>pgp1</i> knockout
pgp1B	TACCATGGCCATATCTTTGATACGACGCCG	NONE	NONE	<i>pgp1</i> knockout
pgp2A	TACCATGGATAACTAAGAAATCTAAAGAACAAATG	NONE	NONE	<i>pgp2</i> knockout
pgp2B	TACCATGGCCATTTTGAGCCAATTTGGGA	NONE	NONE	<i>pgp2</i> knockout
pgp3A	TACCATGGAATAACAAATACTTCTAATGTATCTTTTTTG	NONE	NONE	<i>pgp3</i> knockout
pgp3B	TACCATGGTTTAAACTCTTTTTTATTTTGAGCTTAA	NONE	NONE	<i>pgp3</i> knockout
pgp4A	TACCATGGCTAATTCTAGGACTGCTTCAAC	NONE	NONE	<i>pgp4</i> knockout
pgp4B	TACCATGGAACAAACCCGTAATTCGAAC	NONE	NONE	<i>pgp4</i> knockout
pgp5A	TACCATGGTCTGTAGCTAATGTCTATCCAAA	NONE	NONE	<i>pgp5</i> knockout
pgp5B	TACCATGGGTTTAGAGAAAAGTGTGTTTTTCC	NONE	NONE	<i>pgp5</i> knockout
pgp6A	TACCATGGTGAACTTTTAAGCAAAGAGCTGA	NONE	NONE	<i>pgp6</i> knockout
pgp6B	TACCATGGGCTGAGAATAGTTCAATGGAAGG	NONE	NONE	<i>pgp6</i> knockout
pgp7A	TACCATGGTTCATTTAAAGCAAATAGGATTAAG	NONE	NONE	<i>pgp7</i> knockout
pgp7B	TACCATGGTTTCTTAACCAAAGCTATTCAAAATC	NONE	NONE	<i>pgp7</i> knockout
pgp8A	TACCATGGAAAACCTCCTGATAAGACTTTTCG	NONE	NONE	<i>pgp8</i> knockout
pgp8B	TACCATGGAGCTAAAAAAAATCAATGCCCG	NONE	NONE	<i>pgp8</i> knockout
pgp1F	ATGAAAACCTCGTTCCGAAATAGAAA	NONE	NONE	<i>pgp1</i> detection
pgp1R	TTACCATACTTTTTTAATAGCGGAGAA	NONE	NONE	<i>pgp1</i> detection
pgp2F	ATGGTAAATTATAGTAACTGCCACTTCAT	NONE	NONE	<i>pgp2</i> detection
pgp2R	TTAATTAATAGATTCTGTTCTAATTGTTC	NONE	NONE	<i>pgp2</i> detection
pgp3F	ATGGGAAATTCTGGTTTTTATTGTAT	NONE	NONE	<i>pgp3</i> detection
pgp3R	TTAAGCGTTTGTGAGGTATTACCT	NONE	NONE	<i>pgp3</i> detection
pgp4F	ATGCAAATAAAAGCAAAGTGAGGG	NONE	NONE	<i>pgp4</i> detection
pgp4R	CTATTCAGCCTTGGAAAACATGTCT	NONE	NONE	<i>pgp4</i> detection
pgp5F	GTGGGATGCAACTTGCCCA	NONE	NONE	<i>pgp5</i> detection
pgp5R	TCACGTTGCTCTGAGAGTAATCTCG	NONE	NONE	<i>pgp5</i> detection
pgp6F	GTGAACAAACTAAAAAAGAAGCGAAT	NONE	NONE	<i>pgp6</i> detection
pgp6R	TCAGCTCTTTGCTTAAAAAGTCA	NONE	NONE	<i>pgp6</i> detection
pgp7F	ATGGGCTCGATGGCTTTCCAT	NONE	NONE	<i>pgp7</i> detection
pgp7R	TCAAAGCGCTTGACGAAGTACT	NONE	NONE	<i>pgp7</i> detection
pgp8F	ATGGGTAAGGGATTTTATCTTTGC	NONE	NONE	<i>pgp8</i> detection
pgp8R	CTATATTAGAGCCATCTTCTTTGAAGC	NONE	NONE	<i>pgp8</i> detection
CTL71F	ACCACTAATGTGAAAAGCTGATTC	NONE	NONE	CTL0071 qPCR

Table S1. Oligonucleotides used in this study-Continued

Oligo Name	Sequence (5' to 3')	5' Modification	3' Modification	Application
CTL71R	CGGTCATGCAAATGATGATATTG	NONE	NONE	CTL0071 qPCR
CTL71p	AAGACTTCCCAGCCCAAATGCCAACTT	FAM	BHQ1	CTL0071 qPCR
CTL305F	GATGCTACAGCCCAACTGATC	NONE	NONE	CTL0305 qPCR
CTL305R	TGCACTCCCAACTACAGTTTTC	NONE	NONE	CTL0305 qPCR
CTL305p	AGAGCCTTACCAGCATTTCCTGGT	FAM	BHQ1	CTL0305 qPCR
CTL339F	TTGGTCTGAGAATGGCTTCCTT	NONE	NONE	CTL0339 qPCR
CTL339R	GGGAGTAATACAAAGCACACTCTCTTAC	NONE	NONE	CTL0339 qPCR
CTL339p	TCCCATATCGCTTGATTTTGCTTTGCTGT	FAM	BHQ1	CTL0339 qPCR
CTL397F	CCTGACGGACCTTTTCTCTTCTC	NONE	NONE	CTL0397 qPCR
CTL397R	ATATAAAGTGGACAAGGCGGACTT	NONE	NONE	CTL0397 qPCR
CTL397p	CATAGTCTCCGCCCTTGTAACGCACCTCTA	FAM	BHQ1	CTL0397 qPCR
CTL398F	CATTGCGCATCCATAAGTTTTG	NONE	NONE	CTL0398 qPCR
CTL398R	GGAGGATAACATGAAGAAACCAGTATTT	NONE	NONE	CTL0398 qPCR
CTL398p	CCCCGTTCCCTTCTGTACTTATCCCAGG	FAM	BHQ1	CTL0398 qPCR
CTL399F	TAAGAATGGAGAGCCTAAAATAAGTATGC	NONE	NONE	CTL0399 qPCR
CTL399R	CCAGCCTCTAGTATCTCCAGATCCT	NONE	NONE	CTL0399 qPCR
CTL399p	CAGCGCTATCCGGAGGCCACG	FAM	BHQ1	CTL0399 qPCR
CTL638F	GCGTTATGTGTTAACTTGATGTTTGCT	NONE	NONE	CTL0638 qPCR
CTL638R	TCTATCAGCGTCGTAAGAAAAGCTT	NONE	NONE	CTL0638 qPCR
CTL638p	CGCCTCATCAGCATATTCAGCTTTCCTTT	FAM	BHQ1	CTL0638 qPCR
pgp3qF	AACTCAAAACTGCGTCTTTGC	NONE	NONE	<i>pgp3</i> qPCR
pgp3qR	TGCGACAGGTGTGATGTTGT	NONE	NONE	<i>pgp3</i> qPCR
pgp3qp	ACAGAGCCGCTCAAGGACCAGCAAATA	FAM	BHQ1	<i>pgp3</i> qPCR
glgAF	AAATATTTATTGGCGGCAGTTTCT	NONE	NONE	<i>glgA</i> qPCR
glgAR	TTTCGGAAGCAGTGACAACCT	NONE	NONE	<i>glgA</i> qPCR
glgAp	CCGTACCAACCACGACAAGTGGCAA	FAM	BHQ1	<i>glgA</i> qPCR
lpdAF	CAGAAAATATTGGCTTGGATAAAGCT	NONE	NONE	<i>lpdA</i> qPCR
lpdAR	TAGGTACGTTTGTGCGCATTGT	NONE	NONE	<i>lpdA</i> qPCR
lpdAp	TGAACGCGGAGTCATCCCTACCGAT	CalFluorGold540	BHQ1	<i>lpdA</i> qPCR