

## Supplimentary Data

Table. Primer sequences of 40 ABC transporter genes, internal reference gene (18Sr), annealing temperatures, and the lengths of amplified cDNA fragments

ABC transporter and 18s rRNA Genes	Primer sequence (5'→3')	Annealing temperature (°C)	Amplified fragment length (bp)
18S rRNA-F	5'-CGAAAGCATTACCAAGGAC- 3'	58	300
18S rRNA-R	5'-TTATTGTGTCTGGACCTGG- 3'	58	324
MGG 00239-F	5'-CTCACCCGACCCCAAGAT- 3'	55	288
MGG 00239-R	5'-ATTCTGGCGATAGGGCAAGT- 3'	55	
MGG 00447-F	5'-AACATTTCCCGATGCAGTCA- 3'	55	216
MGG 00447-R	5'-ACACCAGTGTAGCCGTAGCG- 3'	55	
MGG 01563-F	5'-ACTTTGACGAGGCTGCAATG- 3'	55	269
MGG 01563-R	5'-TTGTTCGTCGTCCTCGAATCAT- 3'	55	
MGG 01674-F	5'-AGGAATCCAGCATGACCCTC- 3'	55	252
MGG 01674-R	5'-AGATGCAAACAGCGACCAAG- 3'	55	
MGG 02348-F	5'-CGACCCCAAGTAATCCAGT- 3'	55	201
MGG 02348-R	5'-TGCTCCCCGGTGTATATGAA- 3'	55	
MGG 03406-F	5'-TCAACCAGCTCGTTTTCCAG- 3'	55	141
MGG 03406-R	5'-CATCCGGCTGCTCTTTGATA- 3'	55	
MGG 03736-F	5'-GGCCCTTGTTTTGAGAAGG- 3'	55	252
MGG 03736-R	5'-AGGAGGGTCAGCGAGACGAT- 3'	55	

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MGG 04855-F	5'-TTCATTTCCTTTTTCGCATCG- 3'	55	250
MGG 04855-R	5'-CTGTGCTCCCAGGCAAAGTA- 3'	55	
MGG 04899-F	5'-TCAGCGACACTCTGTACGCA- 3'	55	101
MGG 04899-R	5'-AATGGTTGACTGAAGCAGCG- 3'	55	
MGG 05009-F	5'-TCGCTTTGTCTTTTGTGG- 3'	55	191
MGG 05009-R	5'-GAAGATGCTTATGGGCAGCA- 3'	55	
MGG 05044-F	5'-ACCATTGCTCGTCTTTGCAG- 3'	55	203
MGG 05044-R	5'-GAGGCTTCTCTGGGGTCTTG- 3'	55	
MGG 05190-F	5'-ATCCGCTGGAACAATGTCAA- 3'	55	141
MGG 05190-R	5'-CATCAGGCGGAAATTGTGG- 3'	55	
MGG 05595-F	5'-TCGTGCGACTTGAGAAGCACC- 3'	54.9	279
MGG 05595-R	5'-CGCCGTTGTACGATATGCTT- 3'	55	
MGG 05746-F	5'-GGCGCAGTACTGGAAAGTGA- 3'	55	223
MGG 05746-R	5'-GGTCCAAGCCTCCATGAGAT- 3'	55	
MGG 06024-F	5'-CGCTAATGTCGCAGGATTGT- 3'	55	291
MGG 06024-R	5'-TTGCATTTCGAATCTCCTCG- 3'	55	

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MGG 06707-F	5'-CGTGAGATCATGGAGTTGGC- 3'	54.9	291
MGG 06707-R	5'-TTGCTTGAGCGAAAAGGAGA- 3'	54.9	
MGG 06878-F	5'-TGGTCAAAGATTCCGGTTCA- 3'	55	239
MGG 06878-R	5'-TCATCTTGCAGGCTCGTCTC- 3'	55	
MGG 07375-F	5'-ACGATGGACGAGAGCCTTCT- 3'	55	287
MGG 07375-R	5'-ATGTAGAGCAGCCGGAACCT- 3'	55	
MGG 07567-F	5'-ACCCCACTACTCGTTCCGAC- 3'	55	108
MGG 07567-R	5'-GAATGAGATGCGCTTCCGTA- 3'	55	
MGG 07848-F	5'-ACATGCTCGAGGTCATTGGA- 3'	55	279
MGG 07848-R	5'-TTCCAAAGGACAAGATCCCC- 3'	55	
MGG 08309-F	5'-CGATCTGACCGAGATTGGTC- 3'	55	290
MGG 08309-R	5'-GATCATCAAAGGTGCCAACG- 3'	55	
MGG 08970-F	5'-CATCTGTCCCACGTTCTGG- 3'	54.9	182
MGG 08970-R	5'-CCACCGTCTCATCGAGTTG- 3'	55.1	
MGG 09931-F	5'-TTTTCAACAGTTTCGGCAGG- 3'	55	231
MGG 09931-R	5'-AGTAGCCAAAGCCGTTAGCC- 3'	55	

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ABC transporter and 18s rRNA Genes	Primer sequence (5'→3')	Annealing temperature (°C)	Amplified fragment length (bp)
MGG 10277-F	5'-TATCGACCTGCTCGAGATGC- 3'	55	278
MGG 10277-R	5'-GCAGCTCGTCAAAGTTCTCG- 3'	54.9	
MGG 10410-F	5'-GCAGGGAAAAGGTTTCAGAGG- 3'	55	145
MGG 10410-R	5'-TCAGACAGCCTGGTGGGATA- 3'	55	
MGG 11025-F	5'-CTGCTAGGGTCTTGTTGGCA- 3'	55	234
MGG 11025-R	5'-CCTGAAGAAGGTCCAAAGGC- 3'	55	
MGG 11220-F	5'-GGGGTTTCAAGAGCTTCGTC- 3'	55	271
MGG 11220-R	5'-GACAGCGTGGCGTAGAGGTA- 3'	55	
MGG 11291-F	5'-CTGAGGAAACACGGCAAAAA- 3'	55	255
MGG 11291-R	5'-CTGCGATGAGGTGCTTAGGA- 3'	55.1	
MGG 11382-F	5'-CGTATCGCCTACTTGTCCGA- 3'	55	288
MGG 11382-R	5'-CTCCCAGTCTGGAGGGTTGT- 3'	55	
MGG 11862-F	5'-CGAGTGGGTTGTGACAGAGG- 3'	55	146
MGG 11862-R	5'-TTGAGAAGGTGGAAGGGTCC- 3'	55.1	
MGG 13491-F	5'-CGCCTTCCTCGACAAGTACA- 3'	55	102
MGG 13491-R	5'-ACAATTGAAGCGACGAGTGC- 3'	55	

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MGG 13624-F	5'-CTTCGATGGGAGTCATCACG- 3'	55	243
MGG 13624-R	5'-CGACAGCATCGGCATACTCT- 3'	54.9	
MGG 13630-F	5'-CCTGGACGATTTTACGCTGA- 3'	54.9	104
MGG 13630-R	5'-ACCACCTCTCCAACAGACCC- 3'	54.8	
MGG 13762-F	5'-GAACAAACACGTCCGTCAGG- 3'	55	101
MGG 13762-R	5'-ACAAGACGAAAGCCATGCAG- 3'	55	
MGG 14069-F	5'-ACCGAGACGGAGCAAAAGAT- 3'	55	182
MGG 14069-R	5'-GAGTATTTGCCCTTTTGGC- 3'	55	
MGG 14400-F	5'-TATCCAAAACAAAGCGACCG- 3'	55	295
MGG 14400-R	5'-GGACAAGGTTTCGGACAAGGT- 3'	55	
MGG 14457-F	5'-CCTTGGCCTTGTGCTTTGTA- 3'	55	128
MGG 14457-R	5'-GCAGCTGTGCAGGTAACGAT- 3'	55	
MGG 14543-F	5'-CCTTGGCCTTGTGCTTTGTA- 3'	55	128
MGG 14543-R	5'-GCAGCTGTGCAGGTAACGAT- 3'	55	
MGG 00141-F	5'-CCATTGTTTCAGTTCATCGCC- 3'	55	278
MGG 00141-R	5'-CCAGCCAATAGCCAAACTCA- 3'	54.9	