

Supplementary File 1. Oligonucleotides used in this study.

Oligo ID	Sequence 5'-3'	Purpose
SNP12 F	CATTGAATATATAAAACAACAACC	SNP Amplification
SNP12 R	GGAAGGTTTGGATGCGAATA	SNP Amplification
SNP24-1 F	CCCGAGAAAAATGCAGCTTA	SNP Amplification
SNP24-1 R	CGGCCAGTACCAAGCTAAAG	SNP Amplification
SNP43 F	TCCGTCATGAACATTGAGATG	SNP Amplification
SNP43 R	CTCCTAAAGATAGCGTTGAGC	SNP Amplification
SNP3 F	AGATTGTCTTGCGCGTATGT	SNP Amplification
SNP3 R	ACAATGCGGATTCTGAGGTC	SNP Amplification
KH142 F	TCGTTTGGCCTTTCATTCTG	Sequencing <i>BRUSH</i>
KH143 R	AATGTAAAGGGAGGCCAGAG	Sequencing <i>BRUSH</i>
KH144 F	CCAAGTGGTATCCCCATCA	Sequencing <i>BRUSH</i>
KH145 R	TGTGCAAAATTACTACTTAAGGAAC	Sequencing <i>BRUSH</i>
KH146 F	AAGGTACTCATCAAATACTTGTC	Sequencing <i>BRUSH</i>
KH147 F	TCACTAAAATCCCACAAATGGT	Sequencing <i>BRUSH</i>
KH148 R	GGGATAGGGAATTCATCAGGA	Sequencing <i>BRUSH</i>
KH149 F	TCACTTTATTAGTTCTATGCTACA	Sequencing <i>BRUSH</i>
KH150 R	CACTTTACAATCTAGTTCTCTATGG	Sequencing <i>BRUSH</i>
KH219 F	GTAAAACGACGGCCAGTCTGCAGGAGCTGGAATCAT	dCAPS <i>BRUSH</i>
KH180 R	AGGATCATTACACATTCCCAGCGGC	dCAPS <i>BRUSH</i>
DC1 F	ATGGTGTCTGGTTCGAGTA	<i>ELF1</i> qPCR
DC2 R	ATAGTCTTGCCACCGTCGAT	<i>ELF1</i> qPCR
DC7 F	CCAAGGAGCTCTAAGGTATGAA	<i>BRUSH</i> qPCR
DC8 R	TACGACTTCGGTGTGGATCTG	<i>BRUSH</i> qPCR
DC9 F	CTTCCAGGACAAAGGTTGCTT	<i>CNGC.IVA2</i> qPCR
DC10 R	GAGGTCCTTGAAAACGTAGAC	<i>CNGC.IVA2</i> qPCR
DC11 F	CCTTACTGGAGATCCCTTGC	<i>CNGC.IVA3</i> qPCR
DC12 R	TCAAAGCCCTGTGAGGTATTAG	<i>CNGC.IVA3</i> qPCR
DC13 F	GACAAGGGTTGCTCAGCAGT	<i>CNGC.IVA4</i> qPCR
DC14 R	AACACGAGGACTGTGCAAGAA	<i>CNGC.IVA4</i> qPCR
DC15 F	GCTTTAAGGTATGAATCGCCTTAT	<i>CNGC.IVA5</i> qPCR
DC16 R	CCTCAATGTTTAGTTGTTACTGAG	<i>CNGC.IVA5</i> qPCR
KH172 F	CACCATGCCTCAATTCGACAAAG	<i>BRUSH gCDS</i> pENTR
KH169 R	CGACTTCGGTGTGGATCTG	<i>BRUSH gCDS</i> pENTR
KH182 F	CACCGTCGACTCGTGTGTCCTCCATTCA	<i>BRUSH PRO</i> pK7RWG2
KH183 R	ACTGTGACGTTTCCTTGACGTTTCTGTAGT	<i>BRUSH PRO</i> pK7RWG2
DC17 1F	ATGGTCTCACACCATGCCTCAATTCGACAAAGA	<i>BRUSH CDS</i> pENTR-Bsa
DC18 1R	TAGGTCTCTGTCTTCTGGCAAGCGAC	<i>BRUSH CDS</i> pENTR-Bsa
DC19 2F	TAGGTCTCTGGACTCAGAAGGAAAGTACGTCA	<i>BRUSH CDS</i> pENTR-Bsa
DC20 2R	ATGGTCTCACCTTCGACTTCGGTGTGGATCTG	<i>BRUSH CDS</i> pENTR-Bsa
DC77 1F	TTGAAGACATTACGGGTCTCACACCATGCCTCAATTCGACAAAGA	<i>BRUSH CDS</i> LI GG
DC58 R1	TAGGTCTCTTTTCTGTTAAGTCTCTCACGAAT	<i>BRUSH CDS</i> LI GG
DC59 2F	TAGGTCTCTAAAACATACATCAAAGGAAGTAGAA	<i>BRUSH CDS</i> LI GG

DC78 1R	ATGAAGACTTCAGAGGTCTCACCTTCGACTTCGGTGTGGATCTG	<i>BRUSH</i> CDS LI GG
DC824 R	ATGAAGACTTCAGAGGTCTCCTTTTGTGTACAACCTTAGCGTGAGG	<i>BRUSH</i> NT pENTR-Bsa
DC370	ATGGTCTCACACCATGCATCAGGCTCACACTTCAT	<i>BRUSH</i> 5'RNAi LI GG
DC371	TAGGTCTCTCCTTGTGCAATTGAGGCATGTTTCCTT	<i>BRUSH</i> 5'RNAi LI GG
DC372	ATGGTCTCACACCGGTCGTGCTCGTGCTAATATCT	<i>BRUSH</i> 3'RNAi LI GG
DC373	TAGGTCTCTCCTTGGCAGAAAATAAGTTGTTTTATGATAATG	<i>BRUSH</i> 3'RNAi LI GG
DC673 F1	ATGGTCTCACACCATGGCTCAATTCGATAAAGATGAGG	<i>CNGC.IVA3</i> CDS pENTR-Bsa
DC674 R1	TAGGTCTCTGAGCCATAGGAATAGACATTGATG	<i>CNGC.IVA3</i> CDS pENTR-Bsa
DC675 F2	ATGGTCTCAGCTCCATGGAACCATATGATAC	<i>CNGC.IVA3</i> CDS pENTR-Bsa
DC676 R2	TAGGTCTCTCCTTAAGCCCTGTGAGGTATTAGCAC	<i>CNGC.IVA3</i> CDS pENTR-Bsa
DC1028 R	ATGAAGACTTCAGAGGTCTCCTTATGTTGTACAACCTTAGCGTGCGG	<i>CNGC.IVA3</i> NT pENTR-Bsa
DC677 F	ATGGTCTCACACCCACCATGGCCAGTTCTGAAAACAATGAG	<i>CNGC.IVA4</i> CDS pENTR-Bsa
DC678 R	TAGGTCTCTCCTTACCTGATAATGACGAATGAGCGC	<i>CNGC.IVA4</i> CDS pENTR-Bsa
DC1029 R	ATGAAGACTTCAGAGGTCTCCTTTTGTGTGAACCTTAGTGAGG	<i>CNGC.IVA4</i> NT pENTR-Bsa
DC679 F	ATGGTCTCACACCCACCATGGCTAATTTTAAAAATGATGAGGTGC	<i>CNGC.IVA4</i> CDS pENTR-Bsa
DC680 R	TAGGTCTCTCCTTATGTTTAGTTGTTACTGAGGAATTAACA	<i>CNGC.IVA5</i> CDS pENTR-Bsa
DC1030 R	ATGAAGACTTCAGAGGTCTCCTTTTGTGAATGACTTAGTGAGG	<i>CNGC.IVA5</i> NT pENTR-Bsa
DC60 1F	TTGAAGACATTCAGGGTCTCAGCGGTCGTGTTGCTCACTCCATTCAAAAA	<i>BRUSH</i> Pro LI GG
DC61 1R	TAGAAGACTGCTCTCTTAAAAGTATATCTACCCTG	<i>BRUSH</i> Pro LI GG
DC62 2F	TAGAAGACTGAGCATAACCACTAAAACCATAGCTC	<i>BRUSH</i> Pro LI GG
DC63 2R	TAGAAGACTCACAAAGTTTAAATGGAAGAGTTAACAA	<i>BRUSH</i> Pro LI GG
DC64 3F	ATGAAGACATGTGACCTTGTATAGTATTTAAATTACAC	<i>BRUSH</i> Pro LI GG
DC65 3R	TTGAAGACATCAGAGGTCTCACAGAGTTTCTTGACGTTTCTGTAGTTTT	<i>BRUSH</i> Pro LI GG
DC646 F	ATGAAGACTTTACGGGTCTCAg ^{cgg} TAATACGACTCACTATAGGGCG	T7 β -Globin A-B
DC647 R	ATGAAGACTTCAGAGGTCTCagaGGCCAAAGTTGAGCGTTTATTC	T7 β -Globin A-B
DC648 F	ATGAAGACTTTACGGGTCTCAaatcACCAGCCTCAAGAACACCC	3'UTR β -Globin E-F
DC649 R	ATGAAGACTTCAGAGGTCTctcaTGTGAAGAACTTTCTTTTATTAGGA	3'UTR β -Globin E-F
DC916 F	ATGAAGACTTTACGGGTCTCATCTGaacaATGGTGAGCAAGGGCGAGGA	VYNE(R) B-C BiFC
DC917 R	ATGAAGACTTCAGAGGTCTCAGGTGccAAGATCCTCCTCAGAAATCAACTT	VYNE(R) B-C BiFC
DC918 F	ATGAAGACTTTACGGGTCTCATCTGaacaATGGACAAGCAGAAGAACGGC	mVYCE(R) B-C BiFC
DC919 R	ATGAAGACTTCAGAGGTCTCAGGTGccAGCGTAATCTGGAACATCGTATG	mVYCE(R) B-C BiFC
DC920 F	ATGAAGACTTTACGGGTCTCAAAGGgaATGGAGCAAAAGTTGATTTCTGAG	VYNE D-E BiFC
DC921 R	ATGAAGACTTCAGAGGTCTCAGATTCTACTCGATGTTGTGGCGGAT	VYNE D-E BiFC
DC922 F	ATGAAGACTTTACGGGTCTCAAAGGgaATGTACCCATACGATGTTCCAG	mVYCE D-E BiFC
DC923 R	ATGAAGACTTCAGAGGTCTCAGATTTTACTTGTACAGCTCGTCCATG	mVYCE D-E BiFC
DC984 F1	ATGAAGACTTTACGGGTCTCAGCGGATCACATCAGCCTCCCTATCC	<i>CNGC.IVA3</i> Pro LI GG
DC985 R1	TAGAAGACAAGTCACTCTTGTATTGAACCGCAAG	<i>CNGC.IVA3</i> Pro LI GG
DC986 F2	TAGAAGACAATGACCCTCATGGCTTCACGCAA	<i>CNGC.IVA3</i> Pro LI GG
DC987 R2	TAGAAGACAAAAGTCTTTGACAAAAGTCATTTGTTGAG	<i>CNGC.IVA3</i> Pro LI GG
DC988 F3	TAGAAGACAACTTCCTTCATCTTCAACAAGTAC	<i>CNGC.IVA3</i> Pro LI GG
DC989 R3	ATGAAGACTTCAGAGGTCTCACAGAGTTTCTTCACGATTCTGCAGT	<i>CNGC.IVA3</i> Pro LI GG
DC1031 F1	ATGAAGACTTTACGGGTCTCAGCGG CGC CTT GTC CAT CAA CTC TCT T	<i>CNGC.IVA4</i> Pro LI GG
DC979 R2	TAGAAGACAAATGTAGACCTCAACTTTTCAGGACT	<i>CNGC.IVA4</i> Pro LI GG
DC980 F3	TAGAAGACAAACATCTGGAACAAATCTAAATTGCA	<i>CNGC.IVA4</i> Pro LI GG
DC981 R3	ATGAAGACTTCAGAGGTCTCACAGAGCTTCTTGACAATTCTATAATTTT	<i>CNGC.IVA4</i> Pro LI GG

DC970 F1	ATGAAGACTTTACGGGTCTCAGCGGCTCTCTCGAACTCTTTCGTC	<i>CNGC.IVA5</i> Pro LI GG
DC971 R1	TAGAAGACAAGAGTCCTGTTAAGAAGTGGAGTTCG	<i>CNGC.IVA5</i> Pro LI GG
DC972 F2	TAGAAGACAAACTCAGTCACCTACTCTTCTGT	<i>CNGC.IVA5</i> Pro LI GG
DC973 R2	ATGAAGACTTCAGAGGTCTCACAGAGCTTCTCAATAATTCTGTAATTTT	<i>CNGC.IVA5</i> Pro LI GG
DC1034 F1	ATGAAGACTTTACGGGTCTCACACCATGGCTCACACTAGGACTTTCAC	<i>AtCNGC19</i> NT LI GG
DC1035 R1	TAGAAGACAAGAACACGAAATCATCTTCAGGTGG	<i>AtCNGC19</i> NT LI GG
DC1036 F2	TAGAAGACAAGTTCAAAAACGCAAATCTCTTGAG	<i>AtCNGC19</i> NT LI GG
DC1037 R	ATGAAGACTTCAGAGGTCTCACCTTGACTTGAACAAATTTGGAATGAGG	<i>AtCNGC19</i> NT LI GG
DC1038 F	ATGAAGACTTTACGGGTCTCACACCATGGCTTCCACAACGAAAACG	<i>AtCNGC20</i> NT LI GG
DC1039 R	ATGAAGACTTCAGAGGTCTCACCTTGGTTTGAACCTCTTTGGCATGA	<i>AtCNGC20</i> NT LI GG