Table S3. Primers used in domain swaps, mutagenesis experiments, and in B-class gene amplification

Mutagenesis	
S65P	CCCCGAAGACATCGCTACCAAAAATCCTGGAGAAG
S65P antisense	CTTCTCCAGGATTTTTGGTAGCGATGTCTTCGGGG
S63T & S65P	CTGCTCCCCGAAGACAACGCTACCAAAAATCCTGGAGAA
S63T & S65P antisense	TTCTCCAGGATTTTTGGTAGCGTTGTCTTCGGGGAGCAG
S63T	CTACTGCTCCCCGAAGACAACGCTATCAAAAATC
S63T antisense	GATTTTTGATAGCGTTGTCTTCGGGGAGCAGTAG
T73I	CCTGGAGAAGTACCAGATCAACTCTGGAAAGATAC
T73I antisense	GTATCTTTCCAGAGTTGATCTGGTACTTCTCCAGG
G81D YFP	TGGAAAGATACTGTGGGATGAGAAGCACAAGGTGA
G81D YFP antisense	TCACCTTGTGCTTCTCATCCCACAGTATCTTTCCA
G81D	TGGAAAGATACTGTGGGATGAGAAGCACAAGAGCC
G81D antisense	GGCTCTTGTGCTTCTCATCCCACAGTATCTTTCCA
E82D	AAGATACTGTGGGGTGATAAGCACAAGAGCCTTAG
E82D antisense	CTAAGGCTCTTGTGCTTATCACCCCACAGTATCTT
G81D & E82D	CTGGAAAGATACTGTGGGATGATAAGCACAAGAGCCTTAGT
G81D & E82D antisense	ACTAAGGCTCTTGTGCTTATCATCCCACAGTATCTTTCCAG
Domain Swaps: J-PI/STS1	
J-PI M R	CTTCGGGGAGCAGTAGTCGTAGAG
J-PI I F	CTTTACGACTACTGCTCCCCCAAG
J-PI I R	GTCAATCTCTGCGCTCAGACTCTTG
J-PI K F	AAGAGCCTTAGTGCGGAGATCGAT
J-PI K R	GTTCTCGTCTTCCAGCATCTTCCC
J-PI C F	CACTAAGATGATGGAAGAGGAGAAC
J-PI C R	GAATTCTACTTGTTTTCCTGCAGGTTAC
STS1 M R	CTTGGGGGAGCAGTAGTCGTAAAG
STS1 I F	CTCTACGACTACTGCTCCCCGAAG
STS1 I R	GATCGATCTCCGCACTAAGGCTCTTG
STS1 K F	AAGAGTCTGAGCGCAGAGATTGAC
STS1 K R	GTTCTCCTCTTCCATCATCTTAGT
STS1 C F	GGGAAGATGCTGGAAGACGAGAAC
STS1 C R	GAATTCTAATTGTTCTCCTGCAAGTTGG
Domain Swaps: BdPI-2/STS1	
BdPI-2 M R	CTTCGGGGAGCAGAACTCGTAGAG
BdPI-2 I R	CTTTACGACTACTGCTCCTCCAAG
BdPI-2 K R	GCTGCCGCTCAGCGCGATGTCATG
BdPI-2 C F	CAAGATATCGCGCTGAGCGGGAGC
STS1 M R	CTTGGAGGAGCAGTAGTCGTAAAG
STS1 I F	CTCTACGAGTTCTGCTCCCCGAAG
STS1 K R	GCTCCCGCTCAGCGCGATATCTTG
STS1 C F	CATGACATCGCGCTGAGCGGCAGC
Amplifying B-class genes	
Grass AP3 R (EcoRI)	GAGAATTCYTARCCVAGRCGYAGG
Grass B-class F (NcoI)	ATT ACC ATG GGG CGS GGS AAG
PolyT with anchor	GAC TCG AGT CGA CAT CGA TTT TTT TTT TTT TTT TT

Amplifying B-class genes (cont.)	
Poales AP3 R1	TCTTGTAGGTWTCAGTCTGYG
Poales AP3 R2	CCATGVAGGTTSGGCTGGCTCGG
Poales PI R1	TGGHTKGGCTGCACBCGGAAG
Poales PI R3	CTTGTTCTCSTCYTCCARCA
Aristida PI-1 R	AGCAGCATTAGAGTTCCGCAGCC
Aristida PI-2 R	GCCAAATGGAAGGTTCAGCACGC
Avena PI-1 R	CCCCGCAGGATTCAGCGGCCTA
Avena PI-2 R	GCGGCGTAAGATTCCGAGGCCTA
Brachypodium AP3 R (EcoRI)	GAA TTC AT CAT CAG TTG AT
Brachypodium PI-1 R (EcoRI)	GAA TTC AAC GGC CTA CTT GTC
Brachypodium PI-2 R (EcoRI)	GAA TTC AGC ATC TTA GTT GTT C
Ecdeiocolea AP3 RACE F1	ATCGGCACGCAGACAGACACTT
Ecdeiocolea AP3 RACE F2	CGGCGATCGGGTTCGTGGAC
Ecdeiocolea AP3 R (BclI)	TGATCAAGCAGTAGTAGTAGAGACC
Elegia MADS F (BamHI & NcoI)	GGATCC ATG GGB CGV GGV AAG ATY GAG AT
Elegia AP3 R (BamHI)	GGATCC GAAA TGC TAG GTT AA CCG
Elegia PI RACE F1	ACATAGGCCAGCTGCCACCG
Elegia PI RACE F2	GCAGATGGACTTCTGGAGGATGC
Elegia PI R	AGTTTTGATCAAGCAGCATGGAAAGC
Eriachne PI-1 R	GGAGCAGCAGCAGGGTTAAGCAG
Eriachne PI-2 R	GTGAAATGGGCGGTTCAGCAGGC
Flagellaria PI R	GCATCGGATGAGAGCTTAGATTGG
Hordeum AP3 R	GCTAGCAGGAGCGATCGAGGTGAT
Hordeum PI-1 R	AGCGGCCTACTTGTCTTCCTGCA
Hordeum PI-2 R	GGCGGGGAGGGTTAGCAACCTAG
Lithachne PI-2 R	TGGAGGTTTGGCAGCTTAA
Oryza PI-1 F	TGGAGTGGAGGAGGAGGAGGAGT
Oryza PI-1 R	GCAAGCAGGAGGTTCAGCCA
Streptochaeta AP3 RACE F1	TGGGCGAGGACCTGGATGGG
Streptochaeta AP3 RACE F2	GAGCTGCGCGGTCTTGAGCA
Streptochaeta AP3 R (EcoRI)	GAATTCATGGACGGAGGCGGTTAAT
Streptochaeta PI-2 RACE F1	GATCTGAACTCGCGGCAACCCAA
Streptochaeta PI-2 RACE F2	GGGCTGACAAACCTGCGTGACAA
Streptochaeta PI-2 R (EcoRI)	GAATTCGGAATACAAACTAGCAGCAC
Tillandsia PI F (NcoI)	GAGA CC ATG GGC CGC GGC AAG ATC
Tillandsia PI R (ClaI)	GAGA ATCGAT CTA CTT GTC CTC CT
Typha PI R	CCAGTTCAGTCTTCTGAGTAAACACCC
Xyris PI RACE F1	TCAGGCACTTGAGCGGTGAGGAT
Xyris PI RACE F2	AATGGGCTGATCGGCTTGAGGGA
Xyris PI R	GCGCTGATGCCAGTCACCCTT
Genotyping Arabidopsis	
At ap3-4 XbaI F	CTCTTGTCCTCTCCACCAAATCTCT
At ap3-4 XbaI R	TGAGTGGCCCAAACATCGACA
At pi-1 FokI F	GAACGCAAACAACAGAGTGGTGACG
At pi-1 FokI R	ACTTCCATGTTTTGTGGCTCCA