



**Figure S1** PCA analysis and Intergroup correlation analysis of PCT and GCX. Principal component analysis of each group samples (A). Intergroup correlation analysis of each group samples (B).

BrMYB2	ATGGAGGGTTCGTCCTCCCAAGGGTTGAAAAAAGGTGCATGGACTGCTGAAGAAGATAATCTCTTGAGGCAATGCATTGATAA	80
BrMYB114	ATGGAGGGTTCGTCCTCCCAAGGGTTGAAAAAAGGTGCATGGACTGCTGAAGAAGATAATCTCTTGAGGCAATGCATTGATAA	80
Consnsus	atggaggggttcgctcccaagggttgaaaaaaggtgcatggactgctgaagaagataatctcttgaggcaatgcattgataa	
BrMYB2	GTATGGAGAAGGGAAATGGCACCAGTTCCTTTAAGAGCTGGTCTAAATCGGTGCAGGAAGAGTTGTAGACTAAGATGGT	160
BrMYB114	GTATGGAGAAGGGAAATGGCACCAGTTCCTTTAAGAGCTGGTCTAAATCGGTGCAGGAAGAGTTGTAGACTAAGATGGT	160
Consnsus	gtatggagaagggaaatggcaccagttcctttaagagctgggtctaaatcgggtgcaggaagagttgtagactaagatgg	
BrMYB2	TGAACATTTTGAAGCCAAGTATCAAGAGAGGAAAACTCAACTCCGATGAAGTTGATCTTCTTATTCGCCCTTCATAAGCTT	240
BrMYB114	TGAACATTTTGAAGCCAAGTATCAAGAGAGGAAAACTCAACTCCGATGAAGTTGATCTTCTTATTCGCCCTTCATAAGCTT	240
Consnsus	tgaactatttgaagccaagtatcaagagagggaaaaactcaactccgatgaagttgatcttcttatttcgaccttcataagctt	
BrMYB2	TTAGGAACAGGTGGTCTTTAATTGCTGGTAGATTACCCGGTCGGACCGCCAATGACGTCAAAAATTACTGGAACACCCA	320
BrMYB114	TTAGGAACAGGTGGTCTTTAATTGCTGGTAGATTACCCGGTCGGACCGCCAATGACGTCAAAAATTACTGGAACACCCA	320
Consnsus	ttaggaaacaggtgggtctttaattgctggtagattaccggctcggaccgccaatgacgtcaaaaattactggaaacaccca	
BrMYB2	TTTGAGTAAGAAACATGAACCGGGTTGTAAGACCCAGATGAAAAAGAGAAACATTCTTGCTCTTATACCACACCAGCC	400
BrMYB114	TTTGAGTAAGAAACATGAACCGGGTTGTAAGACCCAGATGAAAAAGAGAAACATTCTTGCTCTTATACCACACCAGCC	400
Consnsus	tttgagtaagaaacatgaaccgggttgtaagaccagatgaaaaagagaaacattcttgctcttataccacaccagcc	
BrMYB2	AAAAAATCGACGTTTTCAACCTCGACCTCGATCCTTCACCGTTAACAGCGGCTGCAGCCATAAATATGGCATGCCAGAA	480
BrMYB114	AAAAAATCGACGTTTTCAACCTCGACCTCGATCCTTCACCGTTAACAGCGGCTGCAGCCATAAATATGGCATGCCAGAA	480
Consnsus	:aaaaaatcgacgttttcaaacctcgacctcgatccttcaccgttaacagcggctgcagccataataatggcatgccagaa	
BrMYB2	GCTGGCATTGTTCTCTATGCCTTGGACACAAACGATACTAATAATGTTTCTGAAAATATAATCACATGTAACAAAGATGA	560
BrMYB114	GCTGGCATTGTTCTCTATGCCTTGGACACAAACGATACTAATAATGTTTCTGAAAATATAATCACATGTAACAAAGATGA	560
Consnsus	gctggcattgttctctatgccttggacacaaacgataactaataatgtttctgaaaatataatcacatgtaacaaagatga	
BrMYB2	TGATAAATCTGAGCTTGTTAGTCATTTAATGGATGGTCAGAATAGGTGGTGGGAAAGTTTGCTAGATGAGAGCCAAGATC	640
BrMYB114	TGATAAATCTGAGCTTGTTAGTCATTTAATGGATGGTCAGAATAGGTGGTGGGAAAGTTTGCTAGATGAGAGCCAAGATC	640
Consnsus	tgataaatctgagcttggttagtcatttaattggatggtcagaataggtgggtgggaaagtgttgctagatgagagccaagatc	
BrMYB2	CAGCTGCGCTCTTTCCAGAACTACAGCAATAAAAAAGGGCGCAACCTCCGCGTTTGACGTTGAGCAACTTTGGAGCCTG	720
BrMYB114	CAGCTGCGCTCTTTCCAGAACTACAGCAATAAAAAAGGGCGCAACCTCCGCGTTTGACGTTGAGCAACTTTGGAGCCTG	720
Consnsus	cagctgcgctctttccagaaactacagcaataaaaaagggcgcaacctccgcgtttgacgttgagcaactttggagcctg	
BrMYB2	TTGGATGGAGAACTGGAACCTTGA	743
BrMYB114	TTGGATGGAGAACTGGAACCTTGA	743
Consnsus	ttggatggagaaactggaacttga	

**Figure S2** DNA sequence alignment of BrMYB2 and BrMYB114