

Таблица 1. Аллель-специфичные праймеры для ресеквенирования аллелей генов биосинтеза беталаинов у образцов, контрастных по признаку окраски корнеплода.

Table 1. Allele-specific primers for resequencing alleles of betalain biosynthesis genes in samples contrasting in root color.

Класс	Название гена	Альтернативное название (GenBank)	Последовательность Phytozome*	Праймер F	Праймер R
CYP76AD	CYP76AD1	HQ656023	EL10Ac2g04268	TCAGTATCTAACTATTGGGTGTGC	CTCACTCAGAGGTCCAACAAG
				TCTTCGTGCCTTCCCAATAC	TCTATGGGCTGCTCTCGTATAG
				CTATACGAGAGCAGCCCATAGA	AATTAGGAATAGTACGGTTAGAAAGAGGG
				CAGCAGATGTAGCCAAAGAAATG	AGAACGTCTAGCACATCATCAG
				ATATTGGCAAAGCTGCATTTACTACC	GAGAGACTTACGACGAGCAAAT
				TGCTCGTCGTAAGTCTCTCT	TGTGTGATGTTGGCTGTTTG
	CYP76AD5	KM592961	EL10Ac9g22160	TGAACGTGAGGAGAGGAATAAAC	CGGATGATGGTCAAGCTACTC
				TTTGAGCAGTTAATCCATCTATGGC	GCTTGGGTTGTTGCTATGACTAC
				TGAAGTCTACGAGAATCAGAAAATAAGG	CCTAACTGTAGGCTCACC AAAAG
				CCTTTGGTGAGCCTACAGTTAG	CTCCATAATGTTCCACATGAGTTGC
				TTGCCTGTATCTGCTAAATGGC	CTAGATGTAAAGCTAAGTTTGACGCC
				CTGCTGGAGAAGGGAAATCG	CTACATAGTTCTCACACACTTCACG
		EL10Ac9g22161	EL10Ac9g22161	CTTTCTTAGCTTCTTCATAGGCAGAAC	AGTATCAATGCAAGTGTAGTGTATCC
				CCTTTGGTGAGCCTACAGTTAG	AGCCAAACGACGCCCTATAC
				TAGGAAGGGCAGCATTTACTACC	CATCATAGAGGTTGAGAAGAGTGTC
				CATTCTTGGCTACCTTGACCC	CTTATGTGAGGACCTGTGAGTG
					GCAAACCTTCGCTCATTTTACGAAG
					TGGATCAAAAATAGTTGGCAGTTGG
		EL10Ac9g22162	EL10Ac9g22162	AAATTCGACACTCGGCTCTATC	TTTTGCGTAGGTTGCTTGCTC
				ATTTGGACACTACAACCATAACCAC	AAAGCCGCCCTACCAATATC
				TTTACACGTTGATAGTAGATTTAGCAACC	ATTAGGGCGTCCAATCTCTTC
				CGCTCCAATGCTAAACTTCCTCC	CAAGACTTCACCTTCCGTAGTC
				ATATCCTGGTTGCCTGTATCC	CCATATAGGAAATTAACGGTGCCAC
				TGCTACTACCGATGTGCTAGA	TTTTCACTAACTCTGCCATCGC
	CYP76AD6	KT962274	EL10Ac9g22144	TTGTTATTTGAGGTTGGCATCAC	CTTAAATTGCCTCTGGGTGAATTAG
				TCACCCAGAGGCAATTTAAGG	CACAGCAAGTGTGCGTTATC
				ACCAGCGATCTAACGTGAGAC	GAGTCAGGAATGGTTCGGTTAG
				CAACACTTGCTGTGATCCTTTC	GAGTAATTGGACAGCGGAGATT
				CTAACCGAACCATTCTGACTC	CAAAGGGATCAATGTAACCAAGAATAGG
				AATCTCCGCTGTCCAATTACTC	GCTTTTGTCTTTCACGAATAATGTCTTGG
				ATTCTTGTTACATTGATCCCTTTGG	TTGTGCTTTATGCCACTGAATAC
					GCCAAACCCTAATTCGTACATACT
					TTATGGTCCGAATCCTCATCCG
					GTGTAAAACATGGCACCATTGG
DOD	BvDODA1	HQ656027	EL10Ac2g04269	TACCTCTTTGTAATAGTTCCCATAGG	GTACATAGCAGCAGGATAGTCATC
				CACTGGAGCTAGTCGGATATTG	TCTCCAGAAAAGTGTGATTACTATTCC
				ATTGTTCCGATGAGGATTCCG	
				AACAAGTGGTCAATAAACCAACGTG	

R2R3-Myb	<i>BvMYB1</i>	JF432080	EL10Ac2g04153	GATGAAAATGATGAATGGAGAAGATGC	GTTCTGTTATCATTTCCAAAATCGTCC
				GCTTTCTTATGTCTACCAAATAACCAG	CCAGTTGCCCTCTCCATATTT
				TGACAGTTAGTTGGGTGTCCAG	TATGAGGTTCTTGCCTGTTTT
				ACAGGCAAGGAACCTCATATACG	ACTCTTTCTCCGATGTGCTC
				GATGGTGGTGGGTATAGAAGTG	GGTCTTATCCCAACCCTATTTCTTAC
				GTAAGAAATAGGGTTGGAATAAGACC	AAGCGGATTAGTGTTGGGATAG
				CCGAGCAAGCCCTAATAAGTG	GATCGCAGTTTCCGCTATCA
				TTCCTGGACGAACGATAAATGAC	CTCATTGGTGTTGGTAGGTTCA
			EL10Ac2g04465 - EL10Ac2g04466	ATGGAAGTCGATGCAAATTCTATTCC	AGGAGGAGAGTGAGAAGGATAAG
				CTTCTTGATGACCACAGTAGGG	GCCTATCTCCTCTAGCCACTAA
				CTCCTCCTTCTGTCCCTTCTAT	GCATTCTGGGATCAGAGAGAAA
				CCTCCAGGACACAAGGATATTG	TCATCTGACCATGAACCCTTTAC
				CTGCACACATTTCTTGCTTTC	CTGAATGCACTTGCGAAGTAAG
				CAGGCGATATGTACCAGGATAG	AGGAAGAAGGAGAGAGGAGTAG
				GGCAGGTACGAGTACACATATAG	TGGAGAGAGAGGAGTAGTTAGAG
				ACTCTGGCTTGAACATAGTCG	GCTAAACGCAACCTCACTTTAC
				CGAGGTTTCTCAGTGCTACAA	GAGCATCACCCGAACCTAAA
				TGTCAGCTATGTTGCTCTCTTAC	ACGTATGGTAAGAGAGCAACATAG
				GACTTCCAGGACGAACGATAAA	CACTCAGCGAATTAAGCCATTG