

Mutation Associated with Orange Fruit Colour Increases Concentrations of β -carotene in a Sweet Pepper Variety (*Capsicum annuum* L.)

Sub-title: Biochemical and Molecular Characterization of Bulgarian Mutant Pepper Variety with a High-Added Value

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Primers and primer sequences used in the present study

Table S1. Primers names and sequences positioned in the sequences of β -carotene hydroxylase genes in pepper

Primers	Sequences	Authors	T _m , °C
b-CRT 1 F	CTTCACCGTACCGTACATG	unpublished	52
b-CRT 3 F	CTTATCATGTGTTGTCTCTCG	unpublished	51
b-CrtZ 4 R	CCTTCTCTTGGTCTATGGTG	unpublished	51
b-CRT 5 F	TTGCAGTCACACCATAGA	unpublished	50
b-CRT 6 R	GAAGATCACATTTGTCAG	unpublished	45
b-CRT 7 F	TTAATCACACTTGGCACCAT	unpublished	52
b-CRT 8 R	AGAGCCTAAATACAAGTCCA	unpublished	50
FW1_H2	ATGGCTGCTGAAATTTCAATCTCCGCTAGCTCC	unpublished	65
FW1_H1	GTCCACCTCCCGTACAAGTTATTACCGCC	unpublished	64
RE1_H1	GGGAATGAGGCCTTTATGGAAGAAACCATAGTC	unpublished	62
RE2_H1	AAGCCATAAGGGACACCGTTGAACCTTCTCT	unpublished	63
CrtZ-B_F	CGTACCGTACATGGCTGCT	[44]	57
CrtZ-B_R	CATCTCGCCCAGTACTCCAT	[44]	55
CrtZ-C_F	GAGCTGAACGATATTTTGCC	[43]	52
CrtZ-C_R	TAGGAACAAGCCATATGGGA	[43]	52
CrtZ-D_F	AGATGGGCGCATAGAGCACTA	[43]	57

CrtZ-D_R	ACCCCATCAAATTTGTCCGA	[43]	54
CrtZ-E_F	CGTACATGGCTGCTGAAATT	[43]	53
BCH F	ATGGCTGTTATGGCGGTTTA	[35]	54
BCH R	ATCGTTCAGCTCGAAAGGTC	[35]	55
CrtZ_R EX1	ACCTCCATTTGCCACG	[35]	51

* Primers designed by Tomlekova et al. (2009) [43], Petrov et al. (2013) [44] and Tomlekova et al. (2016) [35]