

Table S1. SNPs genetically mapped on chromosome 7 and 9 used for anthocyanin biosynthesis targeted QTL-seq in broccoli.

SNP IDs	Desi chromosomes	Physical positions (bp)	SNPs	Upstream 50-bp flanking sequences/Forward primers (5'-3')	Downstream 50-bp flanking sequences/Forward primers (5'-3')	Genetic position (cM)
SNP1	Chr07	36784249	A/G	TCTTGTCTGGAGGATATCAATATATACAAATAT TTACCATATTTGAGTTA	TGTGCTTAAGCGCCTGCAAAGACAACCTCTTCCTT TACAGCAACTCGAAT	0
SNP2	Chr07	43705152	C/G	TGTTACGCAGCTCACCATTTTTGATAAATCTTT CGTTGATGAGTAAGTGA	TCTTGCTCGGCAATACGGGATCCAAGGGTCCTTGG AGTCTTTATATAATA	16.43
SNP3	Chr07	43705160	C/A	AGCTCACCATTTTTGATAAATCTTTGTTGATG AGTAAGTGACTCTTGCT	GGCAATACGGGATCCAAGGGTCCTTGGAGTCTTTA TATAATAAGCAAGCA	16.43
SNP4	Chr07	43705164	A/G	CACCATTTTTGATAAATCTTTGTTGATGAGTA AGTGACTCTTGCTCGGC	ATACGGGATCCAAGGGTCCTTGGAGTCTTTATATA ATAAGCAAGCATTTA	16.43
SNP5	Chr09	46217406	A/G	GTGATATCTGATAGGATAAACTAATTTTATCATT TAATAGGCTTTTCATTG	ATCCCAATTATAAACTTGTCCATGATCAACACAAA TACGTGGATAATGGT	0
SNP6	Chr09	47364181	C/G	CGTCGGATCTACCGGATCCGCCCTTCCTCCCC CGCCGTGATCCTTCTTT	AAGAGATTCTCCAGATGCACCTCTACGAGTCCTGC CCTTACCTGAAGTTC	9.18
SNP7	Chr09	47601881	A/T	ACATGGGAATCGTTCTCTTGTCTCATTCCACAC TTGTATAATATTATAAA	ACAGACAAGTTGCAAGTATTATTACCGTTAATAC TCATCCAAACACAAC	9.91
SNP8	Chr09	47601895	A/G	CTCTTGCTCATTCACACTTGTATAATATTATA AAAACAGACAAGTTGC	AGTATTATTCACCGTTAATACTCATCCAAACACAA CTCTCTCTTTCAA	9.91
SNP9	Chr09	47601908	C/A	CCACACTTGTATAATATTATAAAAACAGACAA GTTGCAAGTATTATTCAC	GTTAATACTCATCCAAACACAACCTCTCTCTTTTC AATCTTGAGTACAGA	9.91
SNP10	Chr09	48192458	A/C	TCTCTCCACTGTACTTGTGAATGAACAGGACC TGTTGACGAAATGCGTC	AAGAGAGGATAGGCAATAACGAGTCAAGATCTAA GCTATACGTATAAGGT	12.29
SNP11	Chr09	49432505	T/C	CAGTTGCTTCTCCTCTACGTTATTGTAACACCT TGAAGAAGAATCAAACG	CAACATGAAGTGATCAAGAATCCTCTGGACAGAG TCAATATCATAGAGTG	17.93
SNP12	Chr09	49432712	C/T	GTGCAGAACCATCGATGTCCTAAGAAGCCTG AGCAAGAACCTCGTCGAAG	AACGCGTTTTTCGCTAGGTAACAGCTCCACGATTT CTTCGAGTAGACTTC	17.93
SNP13	Chr09	50760230	C/T	CTTTTGTATGTAATATAATCTTCTTTTCTTT CTTGCTCTTTTTTTT	CCTTCAAAACTTTAGAACTTGTTTTGTTTTCGTG GTGCTTCTTCCCAT	26.07
SNP14	Chr09	50817671	T/A	GTAGTCCATTATCGATCTCGGTGCCTCCAAAT CCATTCCCTTTACCGAG	CACCAAGCAAGCTTTGCATCTTGTCTCAAATATC TCATCTAAACCTGC	26.07
SNP15	Chr09	51167904	G/A	TTGTCTCAGATGGTCTCGACCCTTTTTATAACA	CCATGTGTGTCTCTACAACCTTGGTATTAGCAGGTC	27.70

				CTGACACAGCGAAGAAT	GGTTTAGTAGGGATG	
SNP16	Chr09	51686791	A/G	CGCAGCTGGTGCAGATAAGGACGAACTTACA AGACTTAGAGAGCAAGTGA	TGACTTGCAGACGAACTATCAGAGAAAGAAGA GGTTTTAAAGTCGGTGG	32.32
SNP17	Chr09	51694171	G/T	AGAGAACTGATCATATGTATTTGATATGGCGAT TTTAGGGTGTTTTGGAA	CGGAAAATTTATATTTTCAAGATGGAACCTGAAGA AGCACATGAGACGTC	32.50
SNP18	Chr09	51694179	T/A	GATCATATGTATTTGATATGGCGATTTTAGGGT GTTTTGGAAGCGGAAAA	TTATATTTTCAAGATGGAACCTGAAGAAGCACATG AGACGTCTAATGTGG	32.50
SNP19	Chr09	51712802	T/C	ATAACTCGACTGAACTGAAATGACTCAAACA AAATCAAATTAACCAAAC	GGAATAAAAACCGAACAACATAAAAACAAACC CGAACTAAAACCGAAAA	32.50
SNP20	Chr09	51713995	A/C	TTTGAGCAATGAGTTATAATTGAAATATTGGT AAGATCAGGTAAGTTCC	AATTATTACTTTGGACGAGTATATAGCAATAGCACT GGATGCAACTAGAG	32.50
SNP21	Chr09	51715535	G/T	TCTTCTCCTTCTTCTCGTCGCTCAAACCAAGT AGATCTTGACGGTTGAA	AAATTAACATCCTCTGAAGTTCTTGAGGAAGCCTT TCTGTAATCTTTATG	32.50
SNP22	Chr09	51716244	A/T	TCTCAATGTTGGACGAGTTCATGTTGATCTGTA GCCTTTCCAGTTCAGCT	CAAGCTCTGCTTCGATTTACCAATAAATTCTGAA TTCCCTGCTGTCTTT	32.50
SNP23	Chr09	51788927	A/G	AAAACAAGTATCAGACGAGAATAATCTGCTTG TTGCTTGACTAAATCGAC	GTTTGGATCCCATCGAATGGCGATGTTCCGTCGCT TATTCTACAAAAAGC	33.22
SNP24	Chr09	51877253	C/G	AAACGTCTTCTTGATGTGCCCTGAGTCAACGC AAGTCACTGAAACCTCCG	ATCAACCGCATCCATCACCGTGTTATCATCAGCCT TCGACAGTATCTGCA	35.40
SNP25	Chr09	52187758	T/C	CTTCTTCTTATCACTCATGATAGCAAGTAACTA CATGTAAGTTCCACTCT	ACTTTACTGTATTTACGAGTTCTTCGTTTTTGATAT GTAATCATCTCGT	36.86
SNP26	Chr09	52600419	A/G	GGGGAACTCTCTACCTCTTCCTTCCTTCTCAG AGAGAGAGAGAAGAGAG	GAACAGTGAGAAATAAATAAATAATTATTATTATT TTGAATTAAATTAA	38.31