

TABLE S1**List of markers developed in the frame of the fine-mapping approach**

Name	Forward Primer	Reverse Primer	Reference sequence	Marker Information
cl3584.idp*	GGGTGGTGAGCGGTAATAAG	AGGTACCGGATACGGTGTATG	AY110491	8 bp IDP
2am.acpcr#1	AGTACCTCTTCCCTTTGAGG	GGAGAACATTGCTGAGAACC	CG888792	Allele competitive PCR
2am.acpcr#2	GTCTTCTCAGAGATGATTGCAGT (F286 specific) CACGACGTTGTAAAACGACGCTCTTCTCAGAGATGGTTGCAG C (F331 specific with M13 tail)	CACTGTGTCCCAGAACTACGA	CG888792	2 consecutive PCR
cq.3pa	ATTGGTTGGTGCTAATGTGC	GCCTACAACCTTGTATCTGAGGAT (F286 specific) CTCCTCAATGGTTCTTAGCTA	CG886830	Three primer assay
ch.idp*	AACAGAGGGATGGTCACACC	CAACAATAGCATCGACATGG	CC750108	9 bp IDP
be.dcaps	ATCCAGGAGATGATCATTGG	GCCTTTATTACTTTAGGATAT	CC450044	dCAPS (EcoRV)
bes.ssr11	ATTAGGAGCATCCTCAACTTCG	CTGGTGAACATAAGCCAAAAGG	CC761612	SSR
bt.arms	AGCTGCAGACCCTACTAGTGCGT (F286 specific)GTTTGACGATCTGAGCATGGAGT	GACTTGTTGCTTCGTGTAATCAATG (F331 specific) ATGGTACATGATGGAACCTGAGGT	CG997512	ARMS PCR
dl.d	TGTAGCTCCTCCTTCTCAGC	TGTGTCTCTTGTGGTTCTTGC	CL008777	Dominant (0/1)
ec.d	CAAACCTTTCAGGAACGTGGT	GGAACCTCTGGCTGCATAAC	CG704448	Dominant (0/1)
cz.d	CACCTACAGCAGTCCAAACG	GTTGAGGCTTTAGGGTGAGC	CG702371	Dominant (0/1)
da.d	TGTTGTTGCTAGTACCTCACG	GGCCACAGGATTAAGAATCAAC	CG833450	Dominant (0/1)
dx.idp*	GGCCCATCAACAATCTTAAA	CAAATGCGGTAGATCAGTCG	AC199625	IDP
t6.idp ¹ *	TAAGCTTCACTGCCCTATGC	ACTTCAGGGATCTTTTGAGC	AC199625	Dominant (0/1)
t15.idp	AAAGTAGGCCGAAGACAAGC	ACTTACGTGCGCCATTGAA	AC199625	12 bp IDP
t14.d	CTCTTCCTCGACCCATAACC	GGATTCATCCATCAACTAGCC	AC199625	Dominant (0/1)
t16.idp	TCGCTCGATCTCTCAGAAAC	CACAAGAGGAAGTAGGGTTGC	AC199625	IDP

Most of these markers were specifically developed for the FV286xFV331 population. * indicate markers that we successfully tested on more diverse material. ¹ This marker is dominant in the NIL population and codominant (INDEL) in other material.