

Table S1: EST-STS markers specific for chromosome 1P from *A. cristatum* used in this study.

Oligo Name	Amplification in <i>A. cristatum</i>	Polimorphic/Non polimorphic	Amplification in CS+1P	Amplification in TH4 line	Sequence 5' to 3'- Forward	Sequence 5' to 3'- Reverse	Genetic distance(cM) Zhang et al (2017) [30]	Location in <i>A.</i> <i>cristatum</i> (this work)	Tm
AgC508	Yes	No			GTGAGGTTCTTGGTCCGGAT	TGCGTCTAGAGGAATGCTGTTG	64,04		59°C
AgC2186	Yes	Yes	Yes	No	GGGAACCTCCTCACAGGAGAAA	CCAGGAATTGCAAATTGAACTC	44,41	1PL	59°C
AgC3994	Yes	Yes	Yes	No	TTGGTCTGCTTGATATGGA	CGGAGTGCAACTGACATGAT	64,04	1PL	59°C
AgC4588	No				GGACGCTAACCATGAAGGAA	ACAGGGCCATAGGATTGTTG	1,96		59°C
AgC5870	Yes	Yes	Yes	Yes	TCACCCAGTCCCTGAAAAAG	AGCGTCGAATTAAGGAGCAA	16,72	1PS	59°C
AgC6462	No				GTGTCCGAGACATATGTTTCAAAG	GAAATCCCCCAGCAGTGATG	16,72		59°C
AgC9510	No				CTCTCCTATGGCGGTGTTTC	ATTGCCACTGTTGTGCTTCA	2,44		59°C
AgC10165	Yes	No			ATTCTGACTTGTGGGCACCT	ATTGCCACTGTTGTGCTTCA	37,42		59°C
AgC11754	Yes	No			GCCTCGTACCCGTTTGG	CTTGCTGTCTCGCACGTATG	64,04		59°C
AgC14448	Yes	No			TTGAACAACTGCGGACTGAC	AGATTTGGGGCTTAGGGTGT	64,04		59°C
AgC14895	Yes	No			TCGATGGTGCATGAGTGTATC	CATCTGAGCACAAAGCAGAGC	37,42		59°C
AgC22989	Yes	Yes	No	No	GTCCTCCCGGCCAGTGTT	CCCTGCAGCAGCAGGTACAA	37,42	non in 1P	59°C
AgC23234	Yes	No			TCAAGTTACCCCTTCCCTTCTGA	CCATCTTATACATTGGATCCGTTG	63,12		59°C
AgC24325	Yes	No			AGTCCACCAAACCAACAAT	AGCTGGATGATGTTGCTTGT	25,35		59°C
AgC24754	Yes	No			GCGGAGTCAAGGTTCCGAAT	TCACCTCTCACGTCGCAAAC	16,72		59°C
AgC26797	Yes	Yes	Yes	Yes	CTGCGTAATTTTCGTCCCTCG	CCGGCTGTTGATGCTCTTAC	64,04	1PS	59°C
AgC27774	Yes	Yes	Yes	Yes	ACTACGGACAGCCATTTGC	CAACTCCACTGGACTCGACA	64,04	1PS	59°C
AgC29588	Yes	Yes	Yes	Yes	CCTGTTTGCCAATAAGCCAG	ATGACACCCTAAGTGATCTCC	25,35	1PS	59°C
AgC31531	Yes	No			TGATCTCTCTCCACCTTAC	CGTTGTGGATCACCCTGAA	37,42		59°C
AgC32962	No				TGCCATCGTCCTCGTCGT	CAACAAGCAGGTCTCCGTGG	64,04		59°C
AgC64023	Yes	Yes	Yes	Yes	GAGTGCACCTGCCTGTTGAA	CAGGCTCTGGATACTTCACACC	35,21	1PS	59°C
AgC69388	Yes	No			GCCATCATGGCGGTTGTC	GCGGTGCGCTGAATAAGTAC	25,35		59°C
AgC65467	No				TGGCAAAATCTAGAGTGGCA	TTTGCTGCTGGAATGTTCTG	55,37		59°C
AgC65483	Yes	No			CAGCAAAGAAGGGACTGGAG	TTCCCGATCTCCAAGTTACG	78,56		59°C
AgC68983	Yes	Yes	Yes	No	ACAACCGCCATAAAGGCTAA	CAAGCCAGTCAAGAACACGA	147,25	1PL	59°C
AgC69174	Yes	Yes	Yes	Yes	TGACGCAGAAAGGACTGTTG	CTGCCAGCTCAAAATCTTC	8,94	1PS	59°C
AgC70948	Yes	No			CCTCCACCACTACCATTGCT	CTGGGGGCACAATTCTTCTA	80,36		59°C
AgC72725	Yes	No			GTGAACAGGTCTCAGCACGA	GCCTCACAGTGCAAGCATAA	40,67		59°C