

Marker-Assisted Recurrent Selection Applied for Pyramiding Leaf Rust and Coffee Berry Disease Resistance Alleles in *Coffea arabica* L.

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Table S2. Molecular markers linked to coffee genes conferring resistance to *Hemileia vastatrix* and *Colletotrichum kahawae*.

Gene	Marker	Primer sequence	T (°C)	Gene Distance (cM)
<i>S_{H3}</i> : resistance to <i>H. vastatrix</i> ^a	*SP-M16- <i>SH3</i>	R: ATCTAGCTTTGGAACATCGT F: TTAAGTGGAACTTGGCTTG	49	1.8
	*BA-124- 12KF	R: TGCAGATTGATGGCACGTTA F: TGATTTCGCTTGTTGTCGAG	56	0
	*BA-48- 21O-f	R: ACTTGGCAGGCGTAATTGAA F: ACAGTGAATTCCCCAAGCAC	52	0.6
	*Sat244	R:GCATACTAAGGAATTATCTGACTGCT F: GCATGTGCTTTTTGATGTCGT	52	0
QTL: resistance to races I, II and pathotype 001 of <i>H.</i> <i>vastatrix</i> ^b	SSR 016	R: CCACACAACCTCTCCTCATTC F: ACCCGAAAGAAAGAACCAAG	65	3.7
	CaRHv8	R: TCTTAGCGCCATGAATAGCCA F: ACCTTCTAGTGTTACCGAGGA	65	3
	CaRHv9	R: GTCTAAGACCAGAATCAGATGG F: TGATGAAGAAGAGCGCATAGC	65	2.3
	CaRHv10_ CAP	R: CAGCTGAACAACCGAACTCA F: GACACATCGTGAACGTGGAG	65	22.4
<i>Ck-1</i> : resistance to <i>C. kahawae</i> ^c	CBD- Sat235	R: GCAAATCATGAAAATAGTTGGTG F: TCGTTCTGTCATTAAATCGTCAA	50	0
	CBD- Sat207	R: CAATCTCTTTCCGATGCTCT F: GAAGCCGTTTCAAGCC	50	17.2

^aMahé et al. (2008), ^bAlmeida et al. (2021), ^cGichuru et al. (2008); Sequences, annealing temperature T (° C) and the distance between the gene and the marker

*Primer used in the analysis of genetic diversity