

G10 from FER BAC clone, 25 cM, AY678298 (BAC)

C.T. Martin and D. P. Maxwell, University of Wisconsin-Madison

Primers: designed by Y. Ji, University of Florida

Germplasm: G10-sense (BAC sequence), Gh13, 30a= Gc171

G10-sense	TAGAGAGAAAGCGTCTGTGCGTGTTTCTCTCATGT.....ACGTTTATGATTGAAT	51
Gh13-G10-FR	TAGAGAGAAAGCGTCTGTGCGTGTTTCTCTCATGT.....ACGTTTATGATTGAAT	51
30a-G10-FR	TAGAGAGAAAGCGTCTGTGCGTGTTTCTCTCATGT cagaaataa ACGTTTATGATTGAAT	60
Consensus	tagagagaaagcgtctgtgcggtgtttctctcatgt acgtttatgattgaat	
G10-sense	CGACATTAGGAGCATGGAAGACACCTTTAAGCGCCACCGTCAAACCCTAGCCAAACCTCA	111
Gh13-G10-FR	CGACATTAGGAGCATGGAAGACACCTTTAAGCGCCACCGTCAAACCCTAGCCAAACCTCA	111
30a-G10-FR	CGACATTAGGAGCATGGAAGACACCTTTAAGCGCCACCGTCAAACCCTAGCCAAACCTCA	120
Consensus	cgacattaggagcatggaagacacctttaagcgccaccgtcaaaccctagccaaacctca	
G10-sense	ATCCCTCACCCTGACGACCGCCGCCCTCGTGACCTCAGTACAGAGGAAGGCAACTC	171
Gh13-G10-FR	ATCCCTCACCCT a ACGACCG a CGCCGCCCTCGTGACCTCAGTACAGAGGAAGGCAACTC	171
30a-G10-FR	ATCCCTCA a CACT a ACGACCGCCGCCCT t CTCGTGACCTCAGTACAGAGGAAGGCAACTC	180
Consensus	atccctca cact acgaccg cgccgc ctcgtagacctcagtacagaggaaggcaactc	
G10-sense	CGATGTGTGGAACAACCTTCTCCAACAGATTCCGGCAGGTGCAATCGGTGTTGGATCGGAA	231
Gh13-G10-FR	CGATGTGTGGAACAACCTTCTCCAACAGATTCCGGCAGGTGCAATCGGTGTTGGATCGGAA	231
30a-G10-FR	CGATGTGTGGAACAACCTTCTCCAACAGATTCCGGCAGGTGCAATCGGTGTTGGATCGGAA	240
Consensus	cgatgtgtggaacaacttctccaacagattccggcaggtgcaatcgggtgttggatcggaa	
G10-sense	CAGATCGTTGATACAGCAAGTCAACGAAAATCATCAGTCGAGAACGACTGACAATATGGT	291
Gh13-G10-FR	CAGATCGTTGATACAGCAAGTCAACGAAAATCATCAGTCGAGAACGA a TGACAATATGGT	291
30a-G10-FR	CAGATCGTTGATACAGCAAGTCAACGAAAATCATCAGTCGAGAACGA a c GACAATATGGT	300
Consensus	cagatcgttgatacagcaagtcaacgaaaatcatcagtcgagaacga	
G10-sense	GCGGAATGTGAGCCTGATTCAAGGAGCTTAATGGCAACATTTCTAAAGTAGTTTCTCTCTA	351
Gh13-G10-FR	GC a GAATGTGAGCCTGATTCAAGGAGCTTAATGGCAACATTTCTAAAGTAGTTTCTCTCTA	351
30a-G10-FR	GC a GAATGTGAGCCTGATTCAAGGAGCTTAATGGCAACATTTCTAAAGTAGTTTCTCTCTA	360
Consensus		
G10-sense	TTCTGATATTTCTACCAATTTTTCAACCATGTTTCGTCAAGGAAACGACTTCATTGGAGA	411
Gh13-G10-FR	TTCTGATATTTCTACCAATTTTTCAACCATGTTTCGTCAAGGAAACGACTTCATTGGAGA	411
30a-G10-FR	TTCTGATATTTCTACCAATTT g TCAACCATGTTTCGTCAAGGAAACGACTTCATTGGAGA	420
Consensus		
G10-sense	CGACACCAACAACCACTGATG	432
Gh13-G10-FR	CGACACCAACAACCACTGATG	432
30a-G10-FR	CGACACCAACAACCACTGAT	440
Consensus		

Comments:

Location of the Ty-3 locus, three alleles present at this locus.