

Table 3 Amplification pattern of genomes of high and low grain rice varieties with designed primers

Gene	Primer	Promoter/Exon	Annealing Temperature ( <sup>o</sup> C)	Size of product (bp)	Amplification*		Comment**	
					HGN1	Heera	HGN1	Heera
<i>Dep1</i>	Dep1-1	Promoter	53	600	+	-	F	-
			54	600	+	-	F	-
			55	600	+	-	F	-
			56	600	+	-	M	-
			57	600	+	-	M	-
			58	600	+	-	D	-
	Dep1-2	Exon 1	53	600	+	+	F	F
			54	600	+	+	F	M
			55	600	+	+	F	M
			56	600	+	+	F	D
			57	600	+	+	F	D
			58	600	+	+	M	M
	Dep1-3	Exon 2	53	600	+	+	F	VD
			54	600	+	+	F	VD
			55	600	+	+	F	VD
56			600	+	+	F	VD	
57			600	+	+	M	VD	
58			600	+	+	M	VD	
<i>Ghd7</i>	Ghd7-2	Promoter	53		+	-	M	-
			54		+	-	M	-
			55		+	-	D	-
			56		+	-	D	-
			57		+	-	D	-
			58		+	-	D	-
<i>Apo1</i>	Apo1-1	Promoter	53	-	-	-	-	-
			54	-	-	-	-	-
			55	-	-	-	-	-
			56	-	-	-	-	-
			57	-	-	-	-	-
			58	-	-	-	-	-

Note: \* + = Presence of band, - = Absence of band, \*\* Strength(concentration of amplified band; F= Faint band, M= Medium band, D= Deep band, VD= Very deep band)