

Supplementary Table 1 Details of southern leaf blight (SLB) resistance quantitative trait loci (QTLs) used in marker-assisted breeding

QTL	Donor parent	Chr	Additive effects <sup>a</sup>	Phenotypic variance ( $R^2$ ) explained by the QTL (%)	QTL flanking markers	Forward sequence	Reverse sequence	Reference
<i>qSLB3.1</i>	CM139	3	6.60	15.1	MSSR-1	CGCCAAACTGAAGCT GACAG	AGCTAACACGTCCAG AAGGC	Kaur (2019)
					MSSR-18	CTTCGGACTCCTCCC AAAGG	GCAATCAATAGCCTA CCGTTTCTG	
					MSSR-9 (peak marker)	GACTAGCAGGGTCCC AACAG	CATTGCAGCGCCAGA TGATC	
<i>qSLB8.1</i>	LM5	8	0.64	14.16	umc1075	GAGAGATGACAGAC ACATCCTTGG	ACATTTATGATACCG GGAGTTGGA	Kaur <i>et al.</i> (2019), Kaur <i>et al.</i> (2020)
					umc1858	GTTGTTCTCCTTGCTG ACCAGTTT	ATCAGCAAATTAAAG CAAAGGCAG	
					Pau_52	ACACGAAGTACACCT CCTGC	TCATCAGCTCGATCG CTCAC	
					Pau_116	ACTGTGCGAGCTTCT GACTC	AGCCGAAGCAGGTTC TACAC	