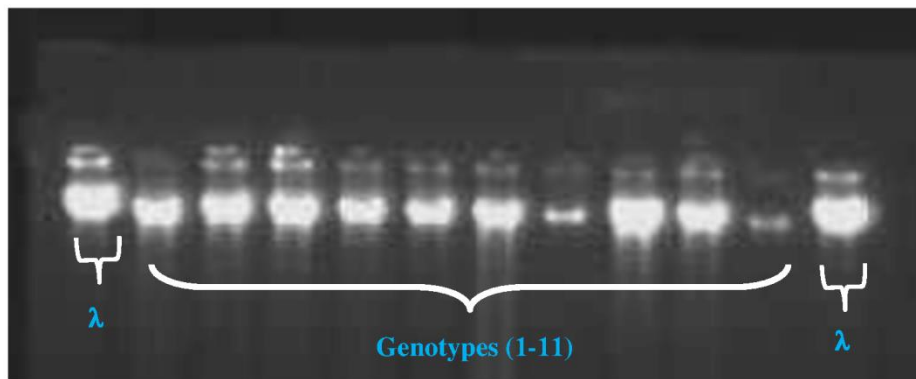


**Screening, compiling and validation of informative microsatellite sets for marker-assisted breeding of key Ethiopian sorghum cultivars**

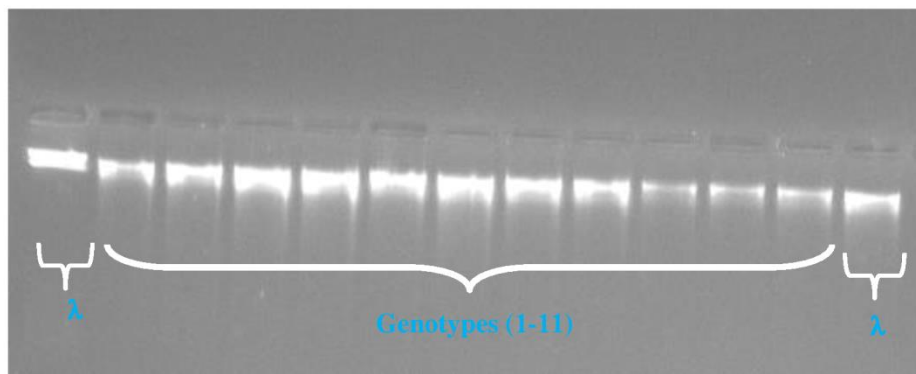
**Tesfaye Disasa<sup>\*</sup>, Tileye Feyissa, Belayneh Admassu, Masresha Fetene, Santie M. Devillers, Venugopal Mendu**

**Supplementary Table 1.** Concentration test of genomic DNA extracted using CTAB and Kit method (the precise concentration was quantified using *Qubit®2.0* (Life Technologies, Grand Island, NY) while 260nm/280nm absorbance ratios was measured using spectrophotometer in order to monitor the purity of DNA)

Genotypes	CTAB Method		Kit Method	
	Conc. (ng/μl)	260nm/280nm	Conc. (ng/μl)	260nm/280nm
<i>Sorcoll 146/07</i>	221.4	1.83	460.1	1.82
<i>Teshale</i>	235.8	1.91	491.8	1.82
<i>76T#23</i>	286.8	1.83	434.7	1.78
<i>Sorcoll 163/07</i>	283.5	1.83	758.6	1.84
<i>Melkam</i>	123.1	1.98	634.6	1.82
<i>Meko</i>	353.7	1.86	700.3	1.86
<i>Macia</i>	179.8	1.95	488.9	1.87
<i>Gambella</i>	160.2	1.81	424.6	1.82
<i>B 35</i>	433.3	1.87	647.5	1.88
<i>Sorcoll 141/07</i>	155.0	1.88	538.8	1.80
<i>E 36-1</i>	155.4	2.01	446.3	1.89

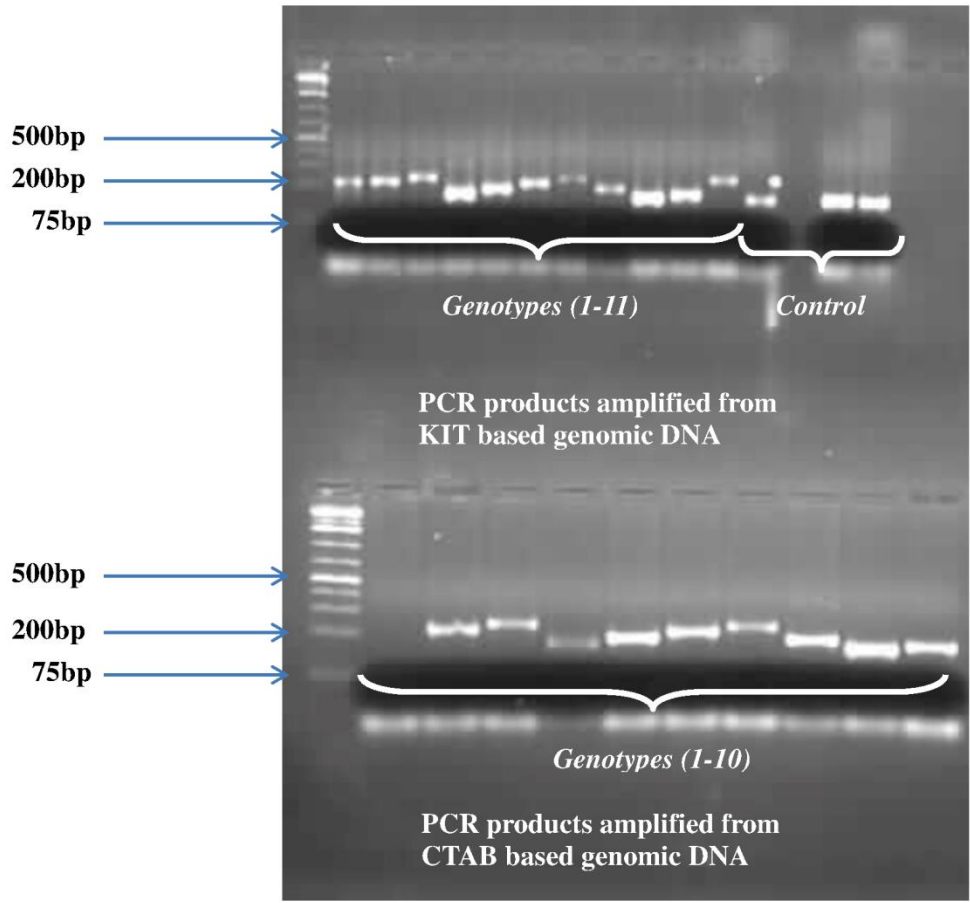


**Kit Method**



**CTAB Method**

**Supplementary Fig 1.** Comparison of CTAB and Kit based DNA isolation method for quality of genomic DNA tested using 0.8% agarose gel electrophoresis. Genotypes 1-*Sorcoll146/07*, 2-*Teshale*, 3-*76T#23*, 4-*Sorcoll 163/07*, 5-*Melkam*, 6-*Meko*, 7-*Macia*, 8-*Gambella*, 9-*B 35*, 10-*Sorcoll141/07* and 11-*E 36*-1.50 kb lamda ( $\lambda$ ) was used as a ladder. High quality (high band intensity) was obtained using KIT method though fairly good quality genomic DNA was also isolated using CTAB method.



2% (w/v) Agarose gel  
1kb ladder  
100V for 45min

**Supplementary Fig 2.** Comparison of CTAB and Kit based genomic DNA isolation protocol for quality PCR product separated on 2 % (w/v) agarose gel electrophoresis. Genotypes 1\_*Sorcoll 146/07*, 2\_*Teshale*, 3\_*76T#23*, 4\_*Sorcoll 163/07*, 5\_*Melkam*, 6\_*Meko*, 7\_*Macia*, 8\_*Gambella*, 9\_*B 35*, 10\_*Sorcoll 141/07* and 11\_*E 36-1*.