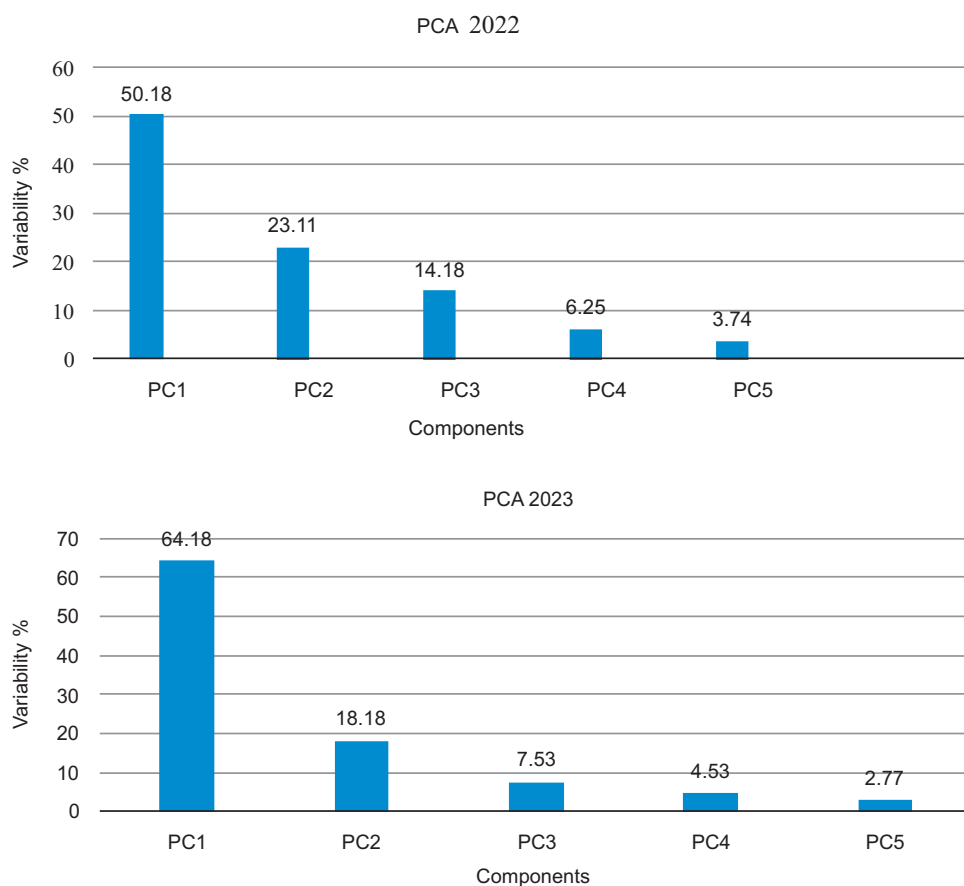
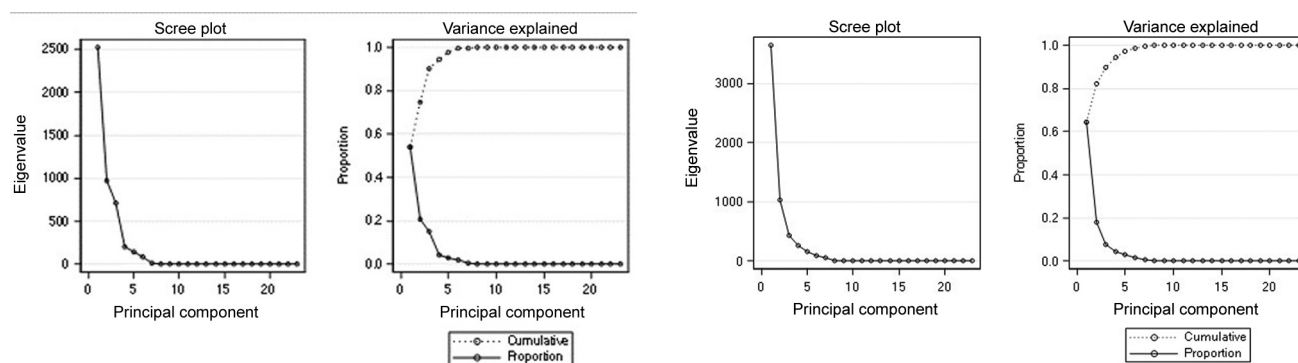


Supplementary Table 1 List of primers used in the study

Primer	Marker	Primer Sequence (5'-3')	Tm	Reference
Mi-1.2	Mi23 SCAR	F-TGGAAAAATGTTGAATTTCTTTTG R-GCATACTATATGGCTTGTTTACCC	57 0C, 60 s	Nombela <i>et al.</i> (2003)
Ty-1	TG231	F-CCATCCTGATTGAAGGGAACAAGC R-CTAGATGAAATGTACCATGCTGCCC	55°C, 30 s	Ji <i>et al.</i> (2007)
<i>Ty-1</i>	TG178	F-GAGTCCCTAACGAATGGTCCTACT R-GCAGACAAATGCTCAAAGGTCACACC	55°C, 30 s	Barbieri <i>et al.</i> (2010)
<i>Ty-1</i>	JB1	F-AACCATTATCCGGTTCACTC R-TTTCCATTCTTGTTTCTCTG	55°C, 30 s	Pérez <i>et al.</i> (2007)
<i>Ty-2</i>	T0302	F- TGGCTCATCCTGAAGCTGATAGCGC R- AGTGTACATCCTTGCCATTGACT	55°C, 30 s	Yang <i>et al.</i> (2014)
<i>Ty-2</i>	TG36	F- AACCACCACAAGAAAGATCCC R- TCCTGAAATGGAAGATTGCC	55°C, 30 s	Schmitz <i>et al.</i> (2002)
<i>Ty-3</i>	P6-25	F- GGTAGTGGAAATGATGCTGCTC R-GCTCTGCCTATTGTCCCATATATAACC	53°C, 1 min	Jensen <i>et al.</i> (2007)
<i>Ty-3</i>	SCAR1	F- GCTCAGCATCACCTGAGACA R- TGCAGGAACAGAATGATAGAAAA	55°C, 30 s	Dong <i>et al.</i> (2016)
Tm-2 ²	NCTm-019	F- AATTTGGGCATACTGACATC R- GTTGCACACATTGGTTGTAG	55°C, 30s	Panthee <i>et al.</i> (2013)
<i>Ty-4</i>	C2_At5g63460	F-TTCTCGCGCCTTTTTCTCCTC R-TCGTGATCGCAAACATATACTCGC	55°C, 30s	Ji <i>et al.</i> (2009)
<i>Ty-5</i>	TM273	F-GGTGCTCATGGATAGCTTAC R- CTATATAGGCGATAGCACCAC	55°C, 30 s	Chen <i>et al.</i> (2015)
<i>Ty-6</i>	SLM1046	F-TCGAGCTGGTACATAGCTTCAT R-CATCTGACACTTGGTCCAGAA	55°C, 30s	Kadirvel <i>et al.</i> (2013)



Supplementary Fig. 1 The graphical view of the first five principal components.



Supplementary Fig. 2 Scree plot for component analysis (2022).