

Table 2 Name and source of 12 rapeseed lines tested in this study

No.	Material name	Source
1	20A	Pol-CMS sterile line transformed with germplasm from JiangXi
2	317A	Pol-CMS sterile line bred from reciprocal cross population between 16A and double-low line 317
3	167A	Pol-CMS sterile line bred from 17A
4	17A	Pol-CMS sterile line bred from Xiang5A with pol CMS and double-low line Zhongshuang 10 by hybridization and subsequent orientation selection
5	169A	Pol-CMS sterile line bred from Xiang5A with pol CMS and double-low line SC4 by hybridization and subsequent orientation selection
6	13R	Pol-CMS restorer line transformed with Xiangyou 13
7	XWR	Pol-CMS restorer line bred from Pol-CMS hybrid in Hubei
8	Z2R	Pol-CMS restorer line bred from Pol-CMS hybrid Zhongyouza 2
9	320R	Pol-CMS restorer line bred from Fengyou730 with pol CMS and double-low line 320 by emasculation hybridization and subsequent orientation selection
10	SC4	Pol-CMS restorer line transformed with germplasm from Sichuan
11	SC3	Pol-CMS restorer line transformed with germplasm from Sichuan
12	95-5	Pol-CMS restorer line bred from Pol-CMS hybrids in Hubei