

Table 1 Some improved plant varieties with target gene

Traits improvement	Targeted gene and plant	References
Biomass	<i>OsDWARF4</i> , Rice	(Feldmann, 2006)
Grain yield	<i>OsGA20ox2</i> , Rice	(Qiao et al., 2007)
Carotenoid and flavonoid	<i>DET1</i> Tomato	(Davuluri et al., 2005)
Low glutenin content	<i>GluB</i> , Rice	(Kusaba et al., 2003)
Tearless onion	Lachrymatory factor synthase (<i>LFS</i>)	(Eady et al., 2008)
Increased shelf life	α -Man/ β - Hex, Tomato	(Meli et al., 2010)
Seedless fruit	tChalcone synthase, Tomato	(Schijlen et al., 2007)
Reduction of toxic terpenoid gossypol	Delta-cadinene synthase, Cotton	(Sunilkumar et al., 2006)
Amylose	<i>SBE IIa and SBE IIb</i> Wheat	(Regina et al., 2006)