Appendix A Leaf shapes controlled by *L-D₁* alleles.   (A) normal leaf shape; (B) sub-okra leaf shape; (C) okra leaf shape; (D) super okra leaf shape; Scale bar, 1 cm.

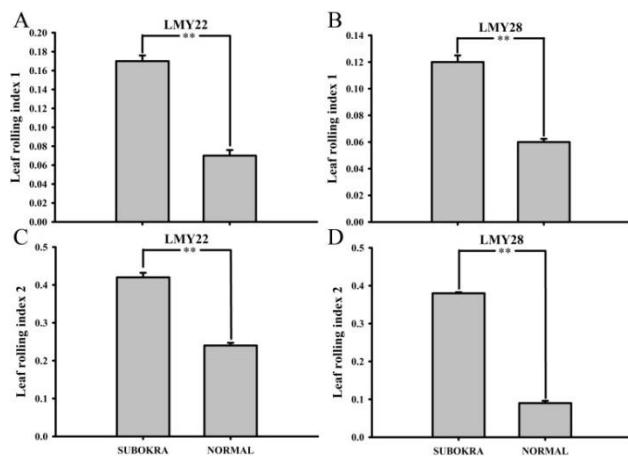**Appendix B** Materials used in this study

No.	Material	No.	Material
1	LMY22 SUPER OKRA	8	LMY28 SUPER OKRA
2	LMY22 OKRA	9	LMY28 OKRA
3	LMY22 SUB-OKRA	10	LMY28 SUB-OKRA
4	LMY22 NORMAL	11	LMY28 NORMAL
5	F₁（LMY22 SUPER OKRA×LMY22 NORMAL）	12	F₁（LMY28 SUPER OKRA×LMY28 NORMAL）
6	F₁（LMY22 OKRA×LMY22 NORMAL）	13	F₁（LMY28 OKRA×LMY28 NORMAL）
7	F₁（LMY22 SUB-OKRA×LMY22 NORMAL）	14	F₁（LMY28 SUB-OKRA×LMY28 NORMAL）

Appendix C Primers used for qRT-PCR and VIGS vector construction
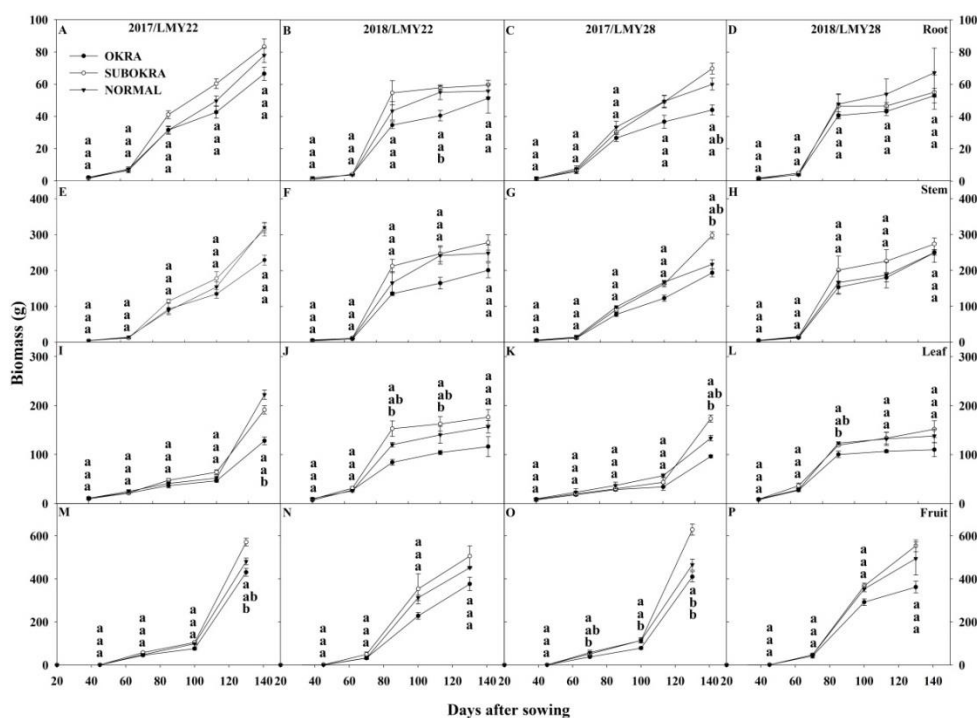
Primer Name	Sequence 5'- 3'	Note
polyT/AP	GGCCACGCGTCGACTAGTACTTTTTTTTTTTTTTTTTTT	3'RACE (L_2s)
AUAP/R	GGCCACGCGTCGACTAGTAC	3'RACE (L_2s)
GSP/F	GACAAGTGATCAGTTAGATTCGTT	3'RACE (L_2s)
VIGS/F	AAGGTTACCGAATTCTCTAGAGGAGCTCGAACAAGACGAGT	VIGS Vector (L_2s) XbaI
VIGS/R	CGTGAGCTCGGTACCGGATCCACTCACTGATGCAGCCTTTG	VIGS Vector (L_2s) BamHI
QPCR/F	CCCAGTTTCCACTCACTACTGG	qRT-PCR (L_2s)
QPCR/R	ACTGAAACGAGGACCAACCT	qRT-PCR (L_2s)

Y8991F	CGGTGGTGTGAAGAAGCCTCAT	qRT-PCR (*histone-3*)
Y8991R	AATTTCACGAACAAGCCTCTGGAA	qRT-PCR (*histone-3*)

Appendix D The leaf rolling index (LRI) of sub-okra leaf and normal leaf.   (A, B) LRI1 of sub-okra leaf and normal leaf at the background of LMY22 and LMY28, respectively.   (C, D) LRI2 of sub-okra leaf and normal leaf at the background of LMY22 and LMY28, respectively. Statistical significance was determined using *t*-test. **, $P<0.01$.

Appendix E Biomass of different organs of isogenic lines at different stages.   (A, B) biomass of root of isogenic lines at background of LMY22 in 2017 and 2018; (C, D) biomass of root of isogenic lines at background of LMY28 in 2017 and 2018; (E, F) biomass of stem of isogenic lines at background of LMY22 in 2017 and 2018; (G, H) biomass of stem of isogenic lines at background of LMY28 in 2017 and 2018; (I, J) biomass of leaf of isogenic lines at background of LMY22 in 2017 and 2018; (K, L) biomass of leaf of isogenic lines at background of LMY28 in 2017 and 2018; (M, N) biomass of fruit of isogenic lines at background of LMY22 in 2017 and 2018; (O, P) biomass of fruit of isogenic lines at background of LMY28 in 2017 and 2018; Different low-case letters are significantly different at $P<0.05$.