

PI 583783. *Trifolium pratense* L.

Breeding. Population. TP-MC; Multicotyledon stock; MC-5; 92-L38-1744. GS-9. Pedigree - Cycle 5 of recurrent selection for multiple cotyledon out of the Kenstar red clover. Multicotyledon types show 3 or 4 cotyledons rather than the normal two during seed germination. Multicotyledon (MC) genotypes were selected and allowed to intercross under cages with honey bees in a field. After five cycles of selection, MC was 35.9%, and showed little change from earlier cycles indicating ineffectiveness of phenotypic recurrent selection.

PI 583784. *Trifolium pratense* L.

Breeding. Population. TP-RC; Rudimentary corolla; 45-34-1. GS-10. Pedigree - F1 42-1 (rudimentary corolla) x 41 (normal). An unusual flower type designated rudimentary corolla was found in a world introduction nursery of red clover. Normal flower was dominant over rudimentary corolla in the F1, and in the F2 and several F3 populations. Segregation ratios provided a close fit to the ratio of 3 normal to 1 rudimentary corolla predicted by a single-gene model. In this phenotype petals shortened and crumpled and show little of no color. Plants are male sterile and reduced in female fertility. Character expressed over wide range of temperatures but slightly more pronounced at high (30/27 deg. day/night) than at low (18/16 deg. C day/night) regimes. The character was given the gene symbol r.

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PI 583785. *Triticum aestivum* L., nom. cons.

Breeding. Pureline. OK65C77-6; CItr 15321. GP-418. Pedigree - *Triticum* sp./*Agropyron elongatum* (P3-19)//Wichita. Resistant to wheat streak mosaic virus (WSMV) vectored by the wheat curl mite (*Eriophyes tulipae*). WSMV resistance originated from a wheat X *Agropyron elongatum* hybrid line, designated P3-19. Seed of a 44-chromosome, P3-19 derivative (OK60C1094-1) were irradiated with thermal neutrons and plants obtained from the irradiated seed were used as males in crosses with Wichita wheat. A composite of lines selected in the fifth generation following neutron irradiation.

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PI 583786. *Triticum aestivum* L., nom. cons.

Breeding. Pureline. OK65C93-8; CItr 15322. GP-419. Pedigree - *Triticum* sp./*Agropyron elongatum* (P3-19)//Wichita. Resistant to wheat streak mosaic virus (WSMV) vectored by the wheat curl mite (*Eriophyes tulipae*). WSMV resistance originated from a wheat X *Agropyron elongatum* hybrid line, designated P3-19. Seed of a 44-chromosome, P3-19 derivative (OK60C1094-1) were irradiated with thermal neutrons and plants obtained from the irradiated seed were used as males in crosses with Wichita wheat. Composite of lines selected in the fifth generation following neutron irradiation.