

Registration of KS91WGRC14 Stem Rust and Powdery Mildew Resistant T1BL·1RS Durum Wheat Germplasm

KS91WGRC14 (Reg. no. GP-343, PI 560335) is a durum wheat (*Triticum turgidum* L. var. *durum* Desf.) germplasm line homozygous for T1BL·1RS wheat-rye (*Secale cereale* L.) chromosome translocation, developed cooperatively by the Kansas Agricultural Experiment Station, the Wheat Genetics Resource Center, Kansas State University, USDA-ARS, and the Technical University of Munich. It was released by the Kansas Agricultural Experiment Station and the Wheat Genetics Resource Center, Kansas State University, as a germplasm in February 1992.

KS91WGRC14 is a BC₁F₂-derived line from the cross 'Cando'*2/'Veery'. Cando is a durum wheat cultivar, and Veery is a bread wheat cultivar carrying a T1BL·1RS wheat-rye chromosome translocation. KS91WGRC14 is the bulked, selfed progeny of a BC₁F₂ plant that had 2*n* = 28 chromosomes and was homozygous for T1BL·1RS, based on C-banding analysis (1).

KS91WGRC14 is resistant to cultures of the stem rust fungus *Puccinia graminis* Pers.: Pers. that are avirulent to the gene *Sr31* located on 1RS. It is resistant to cultures of the powdery mildew fungus (*Erysiphe graminis* DC. f. sp. *tritici* Em. Marchal) that are avirulent to the gene *Pm8* located on 1RS. KS91WGRC14 also produces polyacrylamide gel electrophoretic bands coded by the secalin locus on 1RS (2).

Small quantities (3 g) of seed of KS91WGRC14 are available upon written request. It is requested that appropriate recognition of source be given when this germplasm contributes to research or development of new cultivars. Seed stocks are maintained by the Wheat Genetics Resource Center, Department of Plant Pathology, Throckmorton Hall, Kansas State University, Manhattan, KS 66506-5502.

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References and Notes

1. Friebe, B., F.J. Zeller, and R. Kunzmann. 1987. Transfer of the 1BL/1RS wheat-rye translocation from hexaploid bread wheat to tetraploid durum wheat. *Theor. Appl. Genet.* 74:423-425.
2. Friebe, B., M. Heun, and W. Bushuk. 1989. Cytological characterization, powdery mildew resistance and storage protein composition of tetraploid and hexaploid 1BL/1RS wheat-rye translocation lines. *Theor. Appl. Genet.* 78:425-432.
3. B. Friebe and B.S. Gill, Dep. of Plant Pathology, Kansas State Univ., Manhattan, KS 66506-5502; T.S. Cox, USDA-ARS, and Dep. of Agronomy, Kansas State Univ., Manhattan, KS 66506-5501; and F.J. Zeller, Plant Breeding Institute, Techn. Univ. of Munich, Freising-Weihenstephan, Germany. Cooperative investigations of the Kansas Agric. Exp. Stn., and the USDA-ARS. Contribution no. 92-414-J, Kansas Agric. Exp. Stn., Kansas State Univ., Manhattan, KS 66506-4008. Research supported in part by the Kansas Wheat Commission and Kansas Crop Improvement Assoc. Registration by CSSA. Accepted 31 July 1992. *Corresponding author.