REGISTRATION OFAWNLESS (SHORT-AWNED) BARLEY ISOGENIC LINES

FIVE PAIRS of isogenic lines of two-rowed barley (Hordeum vulgare L.) were developed cooperatively by USDA-ARS and the Montana Agricultural Experiment Station and released on 1 Nov. 1989. The pairs of isolines are described as follows: 'Betzes' awnless (Reg. no. GP-105, PI 534510, CI 16575) and Betzes awned derived (Reg. no. GP-106, PI 534511, CI 16576); 'Compana' awnless (Reg. no. GP-107, PI 534512, CI 16577) and Compana awned derived (Reg. no. GP-108, PI 534513, CI 16578); 'Dekap' awnless (Reg. no. GP-109, PI 534514, CI 16579) and Dekap awned derived (Reg. no. GP-110, PI 534515, CI 16580); 'Ingrid' awnless (Reg. no. GP-111, PI 534516, CI 15772) and Ingrid awned derived (Reg. no. GP-112, PI 534517, CI 16582); 'Engleawnless' awnless (Reg. no. GP-113, PI 534518) and Engleawnless awned derived (Reg. no. GP-114, PI 534519).

The first four pairs of lines were developed by crossing Engleawnless (LkLk) with the recurrent parent Engleawnless (LkLk) as female in 1976, followed by six backcrosses in which the Lk gene was transferred.

The Ingrid awnless isoline PI 534516 (CI 15772), to be paired with PI 534517 (CI 16582), was released as ‘Ridawn’ (CI 15772, Reg. no. 172) (3). The designation awned derived, for the awned member of the first four pairs of isolines, indicates that these genotypes (lklk) were selected from the last backcross generation F3 when the awnless (LkLk) genotypes were selected. These awned derived genotypes provide a measure of genetic similarity between the backcross material and the recurrent parent. The designation awnless derived, for the awnless member of the last pair of isolines, indicates that the awnless (LkLk) genotype was selected from the last backcross generation.

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REGISTRATION OF HOODED BARLEY ISOGENIC LINES

FOUR PAIRS of isogenic lines of two-rowed barley (Hordeum vulgare L.) were developed cooperatively by the USDA-ARS and the Montana Agricultural Experiment Station and released on 1 Nov. 1989. The pairs of isolines are described as follows: PI 533600, CI 16569; ‘Betzes’ hooded and PI 534503, CI 16570 (GP-116), Betzes awned derived;