BGS 472, Accordion basal rachis internode 1, abr1

Stock number: BGS 472
Locus name: Accordion basal rachis internode 1
Locus symbol: abr1

Previous nomenclature and gene symbolization:

Laxatum-3 = lax-3 (1, 2, 3).

Inheritance:

Monofactorial recessive (2, 3).
Located in chromosome 2HL (5); abr1.a is about 7.4 cM proximal from the fch15 (chlorina seedling 15) locus (5); abr1.a is about 6.3 cM proximal from the Gth1 (Toothed lemma 1) locus (6).

Description:

Rachis internodes in the upper part of the spike are about 12% longer than normal. Secondary and tertiary shoots may form at the accordion-like basal rachis nodes (2, 5). Manifestation of the extra shoots may be a day-length response and genotype dependent. Heading is delayed in the Bowman backcross-derived line. Recombination with the eog1.a (elongated outer glume) allele has not been observed (5, 6), and recombination with the vrs1.a (six-rowed spike 1) allele is low (6).

Origin of mutant:

An X-ray induced mutant in Bonus (NGB 14657, PI 189763) (2).

Mutational events:

abr1.a (lax.3, NGB 116337, GSHO 1563), abr1.b (lax.12, NGB 116346) in Bonus (NGB 14657, PI 189763), abr1.c (lax.337, NGB 116556) in Foma (NGB 14659, CIho 11333) (2, 4).

Mutant used for description and seed stocks:

abr1.a (GSHO 1563, NGB 116337) in Bonus; abr1.a in Bowman (PI 483237)*7 (GSHO 1887, BW001, NGB 20409).

References:


**Prepared:**


**Revised:**

Lower part of Accordion basal rachis internode 1 spike with its typical curled basal rachis to the left compared with normal Bowman
Accordion basal rachis internode 1 spike in the boot to the left compared with normal Bowman
Accordion basal rachis internode 1 spike to the left compared with normal Bowman
Accordion basal racxhis internode 1 spikes at later development to the left compared with normal Bowman