

- PI 572996 **origin:** United States. **developed:** R.E. Allan. **origin institute:** USDA-ARS/Washington Agric. Exp. Station, Pullman, Washington United States. **origin institute id:** REA91363. **pedigree:** Triticum macha/17*Selkirk(NDM8)//7*Nugaines. Bulk of 29 F4-derived F5 lines. **remarks:** Alloplasmic (A) population with Triticum macha as cytoplasm donor. Nugaines (CI13968, soft white winter) as the nucleus donor. Similar phenotypically to Nugaines for most traits. Equal to its euplasmic (E) equivalent for heading date, plant height, lodging, grain yield, test wt., spike no., bioyield, kernel wt., harvest index, kernels/spike, grain hardness, and protein content. Winter Annual. Genetic Material. Seed.
- PI 572997 **origin:** United States. **developed:** R.E. Allan. **origin institute:** USDA-ARS/Washington Agric. Exp. Station, Pullman, Washington United States. **origin institute id:** REA91362. **pedigree:** Nugaines/3/Triticum macha/17*Selkirk(NDM8)//6*Nugaines. Bulk of 29 F4-derived F5 lines. **remarks:** Euplasmic (E) equivalent of alloplasmic (A) population having Triticum macha cytoplasm and Nugaines (CI13968, soft white winter) as nucleus donor. Phenotypically similar to Nugaines for most traits. E=A for heading date, plant height height, lodging, grain yield, test wt., spike no., bioyield, kernel wt., harvest index, kernels/spike, grain hardness, protein content. Winter Annual. Genetic Material. Seed.
- PI 572998 **origin:** United States. **developed:** R.E. Allan. **origin institute:** USDA-ARS/Washington Agric. Exp. Station, Pullman, Washington United States. **origin institute id:** REA91365. **pedigree:** Triticum macha/9*Selkirk(NDM9)//7*Nugaines. Bulk of 30 F4-derived F5 lines. **remarks:** Alloplasmic (A) population with Triticum macha cytoplasm donor. Nugaines (CI13968, soft white winter) as the nucleus donor. Similar phenotypically to Nugaines for most traits. Equal to its euplasmic (E) equivalent for heading date, plant height, lodging, grain yield, spike no., kernels/spike, grain hardness, protein content. E>A for test wt., kernel wt., harvest index. A>E for bioyield. Winter Annual. Genetic Material. Seed.