

- PI 564786 **origin:** United States. **developed:** G.W. Schaeffer, F.T. Sharpe, Jr., J.T. Dudley. **origin institute:** Agricultural Research Service -- USDA, Plant Molecular Biology Lab., Bldg. 006, BARC-West, Beltsville, Maryland 20705 United States. **origin institute id:** C193. **cultivar:** 2K(C193). **pedigree:** Mut (Composite)/M101 (gl), selfed to F4. **other id:** GP-75. **group:** CSR-RICE. **restricted:** CSR. **remarks:** Seeds derived from plants recovered from in vitro inhibitor selections, lysine enhanced to 3.8% of total amino acids in acid hydrolyzates. Moderately enhanced protein. Semidwarf, flowers in 106 days. Fertility 54%. Endosperm soft, opaque. Has value for basic studies on seed chalkiness (recover antisense genes), protein synthesis, and stress biochemistry. Mutants are constitutive for stress proteins. Spring Annual. Genetic Material. Seed.
- PI 564787 **origin:** United States. **developed:** G.W. Schaeffer, F.T. Sharpe, Jr., J.T. Dudley. **origin institute:** Agricultural Research Service -- USDA, Plant Molecular Biology Lab., Bldg. 006, BARC-West, Beltsville, Maryland 20705 United States. **cultivar:** 2K497. **pedigree:** Mutant (2k497)/M101 (glabrous), selfed to F7. **other id:** GP-76. **group:** CSR-RICE. **restricted:** CSR. **remarks:** Seeds derived from plants recovered from in vitro inhibited selections. Enhanced endosperm lysine, 3.8% of total amino acids in acid hydrolyzates. Enhanced protein at 9.8%. Semidwarf, 118cm. Flowers in 112 days. Seed weight 17.3mg/seed, fertility 45%, open florets with little out crossing. Endosperm soft, opaque. Has value for basic studies on seed chalkiness, lysine content and protein synthesis. Germplasm is constitutive for some stress related proteins. Spring Annual. Genetic Material. Seed.
- PI 564788 **origin:** United States. **developed:** G.W. Schaeffer, F.T. Sharpe, Jr., J.T. Dudley. **origin institute:** Agricultural Research Service -- USDA, Bldg. 006, BARC-West, Beltsville, Maryland 20705 United States. **cultivar:** 2K601. **pedigree:** Mut (601)/M101//ASSAM 5 (PI 353705), selfed to F4. **other id:** GP-77. **group:** CSR-RICE. **restricted:** CSR. **remarks:** Seeds derived from plants recovered from in vitro inhibitor selections. Enhanced endosperm lysine, 3.6% of total amino acids in acid hydrolyzates. Early flowering (76 days). Large seeded (23.9mg/seed). Endosperm segregates for opaque and vitreous characters. Open panicle, 50% fertility. Has components of indica subspecies characteristics from PI 353705. Outcrosses readily. May be suitable for subspecies bridge crosses. Spring Annual. Genetic Material. Seed.