

PI 558513 to 558515. *Beta vulgaris* L. CHENOPODIACEAE Sugar beet

Donated by: Hecker, R.J., Agricultural Research Service -- USDA, Crops Research Lab., Fort Collins, Colorado, United States; and Cons. Sup. de Invest. Cient., Spain. **remarks:** Sugarbeet Parental Lines FC401, FC402, and FC403. Received December 13, 1991.

PI 558513 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Crops Research Lab., Colorado State University, United States, Colorado 80526. **cultivar:** FC401. **other id:** 911041HO. **other id:** PL-30. **group:** CSR-SUGARBEET. **remarks:** Diploid self-fertile monogerm O-type (maintainer) of its CMS equivalent FC401CMS. Originated from a cross of ARS O-type sources from disease resistance breeding programs at Fort Collins, CO, and Salinas, CA, followed by selection for cercospora leaf spot resistance and general combining ability. 33% green hypocotyl. Resistance good to leaf spot but little curly top resistance. FC401CMS combines well. Biennial. Breeding Material. Seed.

PI 558514 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Crops Research Lab., Colorado State University, United States, Colorado 80526. **cultivar:** FC402. **pedigree:** FC603(rr)/66211sl (R). **other id:** 911042HO. **other id:** PL-31. **group:** CSR-SUGARBEET. **remarks:** Diploid self-fertile monogerm O-type (maintainer) of its CMS equivalent FC402CMS. FC402CMS resulted from hybridization FC603CMS/66211sl, followed by two generations of random pollination by FC402. Resistance good to cercospora leaf spot. 52% green hypocotyl. FC402CMS combines well with AD-1, a multigerm tetraploid pollinator, to produce a triploid hybrid that has high recoverable. Biennial. Breeding Material. Seed.

PI 558515 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Crops Research Lab., Colorado State University, United States, Colorado 80526. **cultivar:** FC403. **pedigree:** 66211sl/C562. **other id:** 911043HO. **other id:** PL-32. **group:** CSR-SUGARBEET. **remarks:** Diploid self-fertile monogerm O-type (maintainer) of its CMS equivalent FC403CMS. Developed from combination of the Fort Collins O-type cercospora resistant line (66211sl) and a Salinas, CA, O-type curly top resistant line (C562), then selected for green hypocotyl. The CMS was from 66211slCMS X C562. Resistance mild to curly top. Susceptible to leaf spot. 100% green hypocotyl. When. Biennial. Breeding Material. Seed.