

PI 593694. Beta vulgaris L.

Breeding. C51; R522(Sp). Pedigree - Recombination of improved lines of C50. C50 = sugarbeet x *Beta maritima* accessions. Improved version of C50 released in 1988. Developed and tested as line R22. Four to six cycles of mass selection were made for beet and root conformation and yield and resistance to rhizomania and virus yellows. Eight sublines were reselected for resistance to rhizomania and for % sucrose and were recombined to form a single improved population.

PI 593695. Beta vulgaris L.

Breeding. C78/2; R578 (Sp). Pedigree - Rz near-isoline of C46/2 and is an improved line similar to C78. Advanced multigerm, self-sterile breeding line that combines multiple disease resistance and high productivity for sugar yield combining ability. Segregates for resistance to rhizomania (Rz) and has moderate resistance or tolerance to bolting, curly top, virus yellows, Erwinia, powdery mildew, and downy mildew.

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Breeding. C76-43-14; R476-43-14(Iso). Pedigree - Increase of full-sib family C31-43 x R76. Increase of a selected full-sib family from crosses between C31-43 and R76. R76 is a Rz near-isoline of C31/6. Multigerm and self-sterile and segregates for Rz. Combines multiple disease resistance and factors for productivity.

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Breeding. C76-43-15; R476-43-15(Iso). Pedigree - Increase of full-sib family C31-43 x R76. Sister line to C76-43-14.

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Breeding. C76-89-5; R476-89-5(Iso). Pedigree - Increase of full-sib family C31-89 x R76. Increase of a selected full-sib family from crosses between C31-89 and R76. R76 is a Rz near-isoline of C31/6. Multigerm and self-sterile and segregates for Rz. Combines multiple disease resistance and factors for productivity.

PI 593699. Beta vulgaris L.

Breeding. C76-89-18; R576-89-18(Sp 9). Pedigree - Increase of full-sib family C31-89 x R76. Sister line to C76-89-5. Susceptible to rhizomania. Moderately resistant to virus yellows (BYV & BWYV). Has good GCA for sugar yield.

PI 593700. Beta vulgaris L.

Breeding. C890; 3890. Pedigree - BC2F2(C790mmaa*3 x 9876) where 9876 was a monogerm source of resistance to rhizomania (Rz). Monogerm, self-fertile population similar to C790 that segregates for genetic male sterility and resistance to rhizomania (Rz). Should be useful as a source population for developing monogerm, O-type, rhizomania resistant breeding and parental lines with good sugar yield combining ability.

PI 593701. Beta vulgaris L.

Breeding. C890-1; 5890(Sp). Pedigree - Near-isoline of C790 that segregates for the Rz (Holly) source of resistance. Synthesized from selected S1 lines. The similar lines C890-1 through C890-10/11 are