

- PI 546945 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-23. **pedigree:** 21397 x 21362M (4x Hallertauer m.f.x(Cascade x 65009-64035M). **other id:** GP-23. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity early. Maximum anthesis July 12. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.
- PI 546946 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-24. **pedigree:** 21397 x 21362M (4x Hallertauer m.f.x(Cascade x 65009-64035M). **other id:** GP-24. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity early. Maximum anthesis July 12. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.
- PI 546947 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-25. **pedigree:** 21397 x 21381M (4x Hallertauer m.f.x(Cascade x 65009-64035M). **other id:** GP-25. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity very early. Maximum anthesis July 8. Resistant to hop downy mildew (*Pseudoperonospora humuli*). No *Verticillium* wilt observed. Free of ILAR viruses such as Prunus necrotic ringspot and apple mosaic. Shoots abundant, moderately coarse, erect, vigorous climbers. Produces abundant pollen over 2 week period. Leaves medium-sized, dark green, 3-5 lobed. Lobes moderately deep, pronounced ridges and sharp. Perennial. Breeding Material. Rhizome.