

PI 546948 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-26. **pedigree:** 21397 x 21381M (4x Hallertauer m.f.x(Cascade x 65009-64035M)). **other id:** GP-26. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity med. early. Maximum anthesis July 15. 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 546949 **origin:** United States. **origin institute:** Agricultural Research Service -- USDA, Oregon State University, Corvallis, Oregon 97331. **cultivar:** GP-27. **pedigree:** 21397 x 21381M (4x Hallertauer m.f.x(Cascade x 65009-64035M)). **other id:** GP-27. **source:** Crop Sci. 31(5):1392 1991. **group:** CSR-HOP. **remarks:** Maturity med. early. Maximum anthesis July 15. 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 546950 to 546954. *Humulus lupulus* L. CANNABACEAE Hops

Donated by: Kenny, S.T., Washington Agricultural Research Center, Washington State University, Prosser, Washington, United States. **remarks:** Five Hop Germplasms For Hop Downy Mildew Research. Received January 31, 1991.

PI 546950 **origin:** United States. **origin institute:** Washington Agricultural Research Center, Washington State University, Prosser, Washington 99350. **cultivar:** Ph1. **pedigree:** Open pollinated seed from clone of Hersbrucker. **other id:** GP-28. **source:** Crop Sci. 31(5):1391 1991. **group:** CSR-HOP. **locality:** Harrah, Washington. **remarks:** Unique and valuable for hop downy mildew research due to ability to survive hop downy mildew infection every year until mid-summer. (Systemically infected shoots 38%). Perennial. Breeding Material. Rhizome.