Grass Variety Description Summary Page

I. General Varietal Information

Variety Name: Relic **Experimental Designation:** PPG-PR 611

Kind (Common): Perennial Ryegrass Genus: Lolium Species: perenne

Ploidy Level for Ryegrass: Diploid

Percentage apomixis for apomictic varieties: N/A Recommended: April 2025

II. Breeding History

Relic perennial ryegrass (Lolium perenne) was selected for medium-early maturity, medium-dark green color, good turf performance and resististance to leaf spot (Drechslera siccans). The variety was developed using phenotypic and genotypic selection. It was selected from the maternal progenies of 12 plants that trace to the varieties Coda (25%), Paradox GLR (8%), Portfolio (25%), Slider LS (17%), and Slugger 3GL (8%); and OC1&OC2 (17%), a population obtained from Rutgers University. Breeder seed was first produced in 2022 near Albany, Oregon.

III. Probable Adaption & Purposes

Relic has been trialed under turf management in western Oregon. The data indicates that the variety is suitable for turf use in western Oregon.

Turf Use	Turf Quality		Color		Density		Leaf Spot	
	2023	2024	2023	2024	2023	2024	2023	20
PPG-PR 606	6.2	6.7	7.3	7.7	6.5	5.7	6.3	6.3
Premium	5.0	5.1	5.0	6.0	6.3	6.3	4.0	4.5
GrandSlam GLD	4.9	5.2	5.0	5.3	6.5	5.7	4.5	3.2
Linn	1.3	1.1	1.7	1.0	1.1	1.1	1.5	1.2
Trial Mean	5.3	5.5	6.1	6.1	6.2	6.2	5.0	5.0
Trial High	6.6	7.0	8.7	8.0	8.8	8.3	4.3	7.2
Trial Low	1.3	1.1	1.7	1.0	1.0	1.0	1.5	1.2
LSD (0.05)	0.5	0.6	1.2	1.0	0.9	1.6	0.9	1.1
CV	6.1	6.5	12.0	10.4	9.1	16.4	11.3	13.5
	Scale used to report traits (if appropriate): 1-9; 9= Ideal Turf		Scale used to report traits (if appropriate): 1-9; 9=Very Dark Green		Scale used to report traits (if appropriate): 1-9; 9=Very Dense		Scale used to report traits (if appropriate): 1-9; 9=No Disease	
The number of entries in the trial was 120								

Growth & Morphology Traits	1. Heading Date When 50% of the plants in the variety have at least three heads emerged from the boot Note: Other measurements of relative maturity may be substituted if properly described and justified (see F)		2. Mature Plant Height (cm)		3. Flag Leaf Height* (cm)	
	2023	2024	2023	2024	2023	2024
Relic	151.9	153.6	39.6	75.2	19.7	45.3
Linn	137.1	136.5	72.7	101.2	36.2	52.3
Pinnacle	147.6	151.0	59.5	84.3	30.8	46.1
GrandSlam GLD	149.9	152.4	51.3	79.5	26.7	49.3
Trial Mean	152.9	155.1	45.7	76.5	23.5	45.7
Trial High	165.9	164.1	72.7	101.2	36.2	58.3
Trial Low	137.1	136.5	36.8	65.0	19.0	37.5
LSD (0.05)	2.5	1.8	2.5	4.4	2.8	5.0
CV	1.0	0.7	7.0	6.7	7.0	6.7

	4. Flag Leaf Blade Length* (cm)		5. Flag Leaf Width* (mm)		6. Inflorescence Length in (cm)	
	2023	2024	2023	2024	2023	2024
Relic	9.1	13.2	1.8	3.1	14.8	18.4
Linn	17.8	20.5	4.7	5.1	24.3	30.1
Pinnacle	13.0	15.9	2.2	3.5	19.3	22.9
GrandSlam GLD	10.9	14.5	1.9	4.8	17.8	19.9
Trial Mean	10.2	13.0	2.3	3.8	16.0	19.6
Trial High	17.8	21.3	4.7	5.1	24.3	30.1
Trial Low	8.4	11.5	1.7	2.9	13.6	16.7
LSD (0.05)	1.1	1.4	0.4	0.4	1.3	1.2
CV	6.7	6.0	5.0	3.6	5.0	3.6

Planting Method for Data Collection

Spaced single plants X Plants in rows/solid seeding

Variants

Variants to be expected and frequency: A small percentage (<0.5%) are taller, coarser bladed, or lighter green than the rest of the population.

Part V. Stock Seed Maintenance and Limitations of Generations

A supply of breeder seed is maintained in cold storage at Peak Plant Genetics in Albany, Oregon. Foundation fields may only be planted from breeder seed. Registered stands may be established from either Foundation or Breeder Seed. Certified fields may be established from Breeder, Foundation, or Registered seed. Foundation and Registered class fields will be limited to three harvests of Foundation or Registered production followed by two years of Certified class production. Certified class fields will be limited to five years of seed production. Additional years of seed production may be approved by the breeder or an individual designated by the breeder

Type of Breeder's Seed Maintenance: Synthetic Continued Population X Apomictic

Part VI. Certification Information

If this variety is recommended as eligible for certification by official seed certifying agencies, when will certified seed likely be first offered for sale? 2025

Will PVP be sought? It is undecided if Plant Variety Protection will be applied for. If so, will the certification option be chosen? No.