

**PLN-Associated Variant Genes Test Result Definitions - this table clarifies the reporting formats between PennGen and Laboklin:**

Genetic term	Definition	What does this mean?	Other Common Terms	Test Results from Penn	Test Results from Laboklin
Homozygous Negative	A dog <b>without any</b> of the variant alleles	A dog that has no copies of the variant alleles is at the least risk of developing PLN	<ul style="list-style-type: none"> <li>• 0</li> <li>• 0/0</li> <li>• No copies</li> <li>• ‘Normal’</li> <li>• ‘Clear’</li> <li>• Homozygous</li> </ul>	1/1	N/N (Clear)
Heterozygote	A dog <b>with one copy</b> of the variant alleles	A dog with one copy of the variant allele is at medium risk of developing PLN	<ul style="list-style-type: none"> <li>• 1</li> <li>• 0/1</li> <li>• ‘Carrier’</li> <li>• 1 Copy</li> <li>• Heterozygous</li> </ul>	1/2	N/PLN (Carrier)
Homozygous Positive	A dog with <b>two copies</b> of the variant alleles	A dog with two copies of the variant alleles is at the highest risk of developing PLN, but this does not mean it will develop PLN	<ul style="list-style-type: none"> <li>• 2</li> <li>• Both copies</li> <li>• Homozygous for the PLN causative mutation</li> </ul>	2/2	PLN/PLN (Affected)  Affected refers to both copies of the allele, <b>it does not mean this dog is currently or will be affected with PLN</b>

**PLN-Associated Variant Gene Test Result Definitions - this table clarifies the reporting formats between Penn Vet and Laboklin:**

Genetic term	Definition	What does this mean?	Other Common Terms	Test Results from Penn Vet	Test Results from Laboklin
Homozygous Negative	A dog <b>without any</b> of the variant alleles	A dog that has no copies of the variant alleles is at the least risk of developing PLN	<ul style="list-style-type: none"> <li>• 0</li> <li>• 0/0</li> <li>• No copies</li> <li>• “Normal</li> <li>• “Clear”</li> <li>• Homozygous</li> </ul>	1/1	N/N (Clear)
Heterozygote	A dog <b>with one copy</b> of the variant alleles	A dog with one copy of the variant allele is at medium risk of developing PLN	<ul style="list-style-type: none"> <li>• 1</li> <li>• 0/1</li> <li>• “Carrier”</li> <li>• 1 Copy</li> <li>• Heterozygous</li> </ul>	1/2	N/PLN (Carrier)
Homozygous Positive	A dog with <b>two copies</b> of the variant alleles	A dog with two copies of the variant alleles is at the highest risk of developing PLN, but this does not mean it will develop PLN	<ul style="list-style-type: none"> <li>• 2</li> <li>• Both copies</li> <li>• Homozygous for the causative mutation for PLN</li> </ul>	2/2	PLN/PLN (Affected)  Affected refers to both copies of the allele, <b>it does not mean this dog is currently or will be</b>