



Test Descriptions

Blood Banking: Provides for a DNA Database as future reference for parentage, breed purity and may also serve as a research bank when additional genes are identified and typed. All sires of litters farrowed after July 1st, 2002, must be banked or previously genotyped. DNA cards are available from the National Swine Registry (NSR) at a cost of *\$4 per card* and the DNA banking fee is *\$6 per card*.

Hal-1843* (Stress Testing): All Sires are required to have official stress results on file with NSR. Blotter cards can be submitted by NSR to GeneSeek Labs for this testing.

This test fee is \$24 per sample.

RN (Napole Gene): This pork quality gene is found predominately in the Hampshire breed. This test will determine if an animal is 1) free, or 2) a carrier or 3) has two copies of the gene. Hampshire breeders can use this test to develop lines free of the RN gene.

This test fee is \$25 per sample.

Hampshire Color Gene: The approved method for Hampshire color testing required for all Hampshire A.I. sires. A registration number must be included on the blotter card to perform this test.

The test fee is \$80 per sample.

Seek-Gain-Total Gain: This is a group of porcine performance trait DNA marker tests utilizing information from eight unique genes that impact: Litter Size • Feed Intake/conversion • Weight Gain • Lean Growth • Fat Content • Meat Quality.

Gene Markers Tested: MC4R, HMGA, CCKAR, PRKAG3, CAST 249, CAST 638, ER, EPOR.

The test fee is \$35 per sample.

Seek Gain-Litter Size: This is a group of porcine performance trait DNA marker tests utilizing information from two unique genes that impact litter size: Reproduction Rates • Uterine Capacity

Gene Markers Tested: ER, EPOR.

The test fee is \$12 per sample.

Seek-Gain: Animal Growth & Meat Quality: This is a group of porcine performance trait DNA marker tests utilizing information from six unique genes that impact animal growth: • Feed intake/Conversion • Lean Growth • Meat Quality • Weight Gain • Fat Content. Gene Markers Tested: MC4R, HMGA, CCKAR, PRKAG3, CAST 249, CAST 638.

The test fee is \$25 per sample.

Seek-Gain: Animal Growth: This is a group of porcine performance trait DNA marker tests utilizing information from three unique genes that impact animal growth: • Feed Intake/Conversion • Lean Growth • Weight Gain • Fat Content.

Gene Markers Tested: MC4R, HMGA, CCKAR.

The test fee is \$16 per sample.

Seek-Gain: Meat Quality: This is a group of porcine trait DNA marker tests utilizing information from four unique genes that impact meat quality: • Tenderness • Juiciness • Glycogen level, pH, & Color Gene Markers Tested: PRKAG3, CAST 249, CAST 638.

The test fee is \$16 per sample.

Shipping Instructions: After the card is dry, cover the sample area with the flap, place the sample(s) in a zip-lock bag to keep samples dry and mail to the address indicated below:

NATIONAL SWINE REGISTRY • ATTN: DNA
2639 Yeager Road • West Lafayette, IN 47906
Phone: 765.463.3594